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Mapbox Web SDK

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Contains a portion of d3-color https://github.com/d3/d3-color

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1.4 cffi 1.14.3

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1.5 docker-ce 19.03.13

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1.6 ncurses 6.2_p20200523

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1.7 sqlite-jdbc 3.34.0

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1.11 pytz 2020.4

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1.12 mousetrap 1.6.5

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1.13 awscli 1.18.144

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1.14 body-parser 1.19.0

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1.15 strongswan 5.9.1

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1.16 python3 3.8.5

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
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All Python releases are Open Source (see http://www.opensource.org for
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no

2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/DefaultTransactionProvider.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/AlterDomainFinalStep.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/JSONTableColumnsFirstStep.java
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* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/User.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/Limit.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/Loader.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/SelectSeekStep2.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/DateDiff.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/Comparators.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/InformationSchemaExport.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/MergeValuesStep3.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/DropTypeFinalStep.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/SelectQuery.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/InternalVisitListener.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/XMLComment.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/WithAsStep10.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/AbstractDMLQuery.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/RowCountQuery.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/BitCount.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/UDT.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/Sign.java
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* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/tools/StringUtils.java
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*/
/**
   * Create a "plain SQL" field.
   * <p>
   * A PlainSQLField is a field that can contain user-defined plain SQL,
   * because sometimes it is easier to express things directly in SQL, for
   * instance complex proprietary functions. There must not be any binding
   * variables contained in the SQL.
   * <p>
   * Example:
   * <p>
   * <code><pre>
   * String sql = "DECODE(MY_FIELD, 1, 100, 200)";
   * </pre></code>
```

```
    * <p>
    * <b>NOTE</b>: When inserting plain SQL into jOOQ objects, you must
    * guarantee syntax integrity. You may also create the possibility of
    * malicious SQL injection. Be sure to properly use bind variables and/or
    * escape literals when concatenated into SQL clauses!
    *
    * @param sql The SQL
    * @return A field wrapping the plain SQL
    * @see SQL
    */
/**
    * Create a "plain SQL" field.
    * <p>
    * A PlainSQLField is a field that can contain user-defined plain SQL,
    * because sometimes it is easier to express things directly in SQL, for
    * instance complex proprietary functions. There must be as many binding
    * variables contained in the SQL, as passed in the bindings parameter
    * <p>
    * Example:
    * <p>
    * <code><pre>
    * String sql = "DECODE(MY_FIELD, ?, ?, ?)";
    * Object[] bindings = new Object[] { 1, 100, 200 };</pre></code>
    * <p>
    * <b>NOTE</b>: When inserting plain SQL into jOOQ objects, you must
    * guarantee syntax integrity. You may also create the possibility of
    * malicious SQL injection. Be sure to properly use bind variables and/or
    * escape literals when concatenated into SQL clauses!
    *
    * @param sql The SQL
    * @param bindings The bindings for the field
    * @return A field wrapping the plain SQL
    * @see SQL
    * @see DSL#sql(String, Object...)
    */
```

Found in path(s):
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/DSL.java
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Found in path(s):
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/types/UNumber.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/tools/reflect/ReflectException.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/types/UShort.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/types/Unsigned.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/types/UByte.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/types/UInteger.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/types/ULong.java
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*/
/**
   * Clean up blobs, clobs and the local configuration.
   * <p>
   * <h5>BLOBS and CLOBS</h5>
   * <p>
   * [#1326] This is necessary in those dialects that have long-lived
   * temporary lob objects, which can cause memory leaks in certain contexts,
   * where the lobs' underlying session / connection is long-lived as well.
   * Specifically, Oracle and ojdbc have some trouble when streaming temporary
   * lobs to UDTs:
   * <ol>
   * <li>The lob cannot have a call-scoped life time with UDTs</li>
   * <li>Freeing the lob after binding will cause an ORA-22275</li>
   * <li>Not freeing the lob after execution will cause an
   * {@link OutOfMemoryError}</li>
   * </ol>
   * <p>
   * <h5>Local configuration</h5>
   * <p>
   * [#1544] There exist some corner-cases regarding the {@link SQLOutput}
   * API, used for UDT serialisation / deserialisation, which have no elegant
   * solutions of obtaining a {@link Configuration} and thus a JDBC
   * {@link Connection} object short of:
   * <ul>
   * <li>Making assumptions about the JDBC driver and using proprietary API,
   * e.g. that of ojdbc</li>
   * <li>Dealing with this problem globally by using such a local
   * configuration</li>
   * </ul>
   *
   * @see <a
   *     href="http://stackoverflow.com/q/11439543/521799">http://stackoverflow.com/q/11439543/521799</a>
   */
```

Found in path(s):
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/DefaultExecuteContext.java
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```
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```

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* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/FlywayVersion.java
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/**
* This package contains parts of OpenCSV.
* <p>
* jOOQ has no external dependencies. Nevertheless, some libraries that are
* compatible with jOOQ's Apache License 2.0 are embedded into jOOQ. See the
* OpenCSV website for more details about OpenCSV:
* <p>
* http://opencsv.sourceforge.net/
*/

Found in path(s):
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/tools/csv/package-info.java
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<name>Apache License, Version 2.0</name>

Found in path(s):
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/META-INF/maven/org.jooq/jooq/pom.xml
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public DomainConstraint createDomainConstraint() {
public Domain createDomain() {

Found in path(s):
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/util/xml/jaxb/ObjectFactory.java
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```
/**
* This package contains parts of JSON Simple.
* <p>
* jOOQ has no external dependencies. Nevertheless, some libraries that are
* compatible with jOOQ's Apache License 2.0 are embedded into jOOQ. See the
* JSON Simple website for more details about JSON Simple:
* <p>
* <a href=
* "http://code.google.com/p/json-simple/">http://code.google.com/p/json-simple/</a>
*/
```

Found in path(s):
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/tools/json/package-info.java
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```
public Domain withDomainCatalog(String value) {
public Domain withDomainSchema(String value) {
public Domain withDomainName(String value) {
public Domain withDataType(String value) {
public Domain withCharacterMaximumLength(Integer value) {
public Domain withNumericPrecision(Integer value) {
public Domain withNumericScale(Integer value) {
public Domain withDomainDefault(String value) {
```

Found in path(s):
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/util/xml/jaxb/Domain.java
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*/
/**
* A very simple CSV parser released under a commercial-friendly license. This
* just implements splitting a single line into fields.
*
* @author Glen Smith
```

* @author Rainer Pruy
*/

Found in path(s):
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/tools/csv/CSVParser.java
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*/

Found in path(s):
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/tools/Ints.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/tools/Longs.java
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public DomainConstraint withConstraintCatalog(String value) {
public DomainConstraint withConstraintSchema(String value) {
public DomainConstraint withConstraintName(String value) {
public DomainConstraint withDomainCatalog(String value) {
public DomainConstraint withDomainSchema(String value) {
public DomainConstraint withDomainName(String value) {

Found in path(s):
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-
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* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/tools/json/JSONObject.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/tools/json/JSONArray.java
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```
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* This package contains parts of jOOR.
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* jOOR website for more details about jOOR:
* <p>
* <a href="http://code.google.com/p/joor/">http://code.google.com/p/joor/</a>
*/
```

Found in path(s):
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/tools/reflect/package-info.java
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```

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* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/tools/reflect/CompileOptions.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/tools/reflect/Reflect.java
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*/
/**
    * Get a set of supported dialect versions and predecessors given a dialect
    * version.
    * <p>
    * The resulting set of dialects contain all the families and dialect
    * versions that precede the argument dialect.
```

```
 */
```

Found in path(s):
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/SQLDialect.java
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*/
/**
* A very simple CSV reader released under a commercial-friendly license.
*
* @author Glen Smith
*/
```

Found in path(s):
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/tools/csv/CSVReader.java

1.18 express 4.17.1

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1.19 asn1crypto 1.4.0

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1.20 yarl 1.6.3

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1.21 multidict 5.0.2

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1.22 validation-api 2.0.1.Final

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* /opt/cola/permits/1195287814_1629742743.83/0/validation-api-1-1-0-final-sources-19-jar/javax/validation/metadata/ReturnValueDescriptor.java
* /opt/cola/permits/1195287814_1629742743.83/0/validation-api-1-1-0-final-sources-19-jar/javax/validation/executable/ExecutableValidator.java
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* /opt/cola/permits/1195287814_1629742743.83/0/validation-api-1-1-0-final-sources-19-jar/javax/validation/constraints/AssertFalse.java
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* /opt/cola/permits/1195287814_1629742743.83/0/validation-api-1-1-0-final-sources-19-jar/javax/validation/constraints/Min.java
* /opt/cola/permits/1195287814_1629742743.83/0/validation-api-1-1-0-final-sources-19-jar/javax/validation/metadata/ElementDescriptor.java
* /opt/cola/permits/1195287814_1629742743.83/0/validation-api-1-1-0-final-sources-19-jar/javax/validation/ConstraintDefinitionException.java
* /opt/cola/permits/1195287814_1629742743.83/0/validation-api-1-1-0-final-sources-19-jar/javax/validation/Constraint.java
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1.23 mapbox-gl 1.12.0

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1.24 bash-completion 2.1

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1.29 docker-compose 1.27.3

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1.30 pycparser 2.2

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pycparser -- A C parser in Python

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This is a list of people who have contributed to pycparser by supplying patches,
opening issues, or generally helping out, before the project moved to Github.

For more recent contributions, check out the "Contributors" page of the
pycparser Github project.

The list is sorted in increasing alphabetic order by first name.

* Andreas Klckner
* Andrew de los Reyes
* Benoit Pradelle
* Dov Feldstern
* Even Wiik Thomassen
* Greg Smith
* Jaroslav Franek
* Li Xuan Ji
* Mateusz Czaplinski
* Paolo Di Maio
* Rory Yorke
* Rubin
* Scott Tsai
* Sye van der Veen
* Thomas W. Barr
* Tomer Segal
* Weyllor
PLY (Python Lex-Yacc) Version 3.10

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1.31 antlr4 4.9

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*/

tree grammar SourceGenTriggers;
options {
 language     = Java;
 tokenVocab   = ANTLRParser;
 ASTLabelType = GrammarAST;
}

@header {
package org.antlr.v4.codegen;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.codegen.model.*;
import org.antlr.v4.codegen.model.decl.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.Collections;
import java.util.Map;
import java.util.HashMap;
}

@members {
 public OutputModelController controller;
   public boolean hasLookaheadBlock;
   public SourceGenTriggers(TreeNodeStream input, OutputModelController controller) {
    this(input);
    this.controller = controller;
   }
}

dummy : block[null, null] ;

block[GrammarAST label, GrammarAST ebnfRoot] returns [List<? extends SrcOp> omos]
   : ^( blk=BLOCK (^(OPTIONS .+))?
   {List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();}
     ( alternative {alts.add($alternative.altCodeBlock);} )+
    )
    {
    if ( alts.size()==1 && ebnfRoot==null) return alts;
    if ( ebnfRoot==null ) {
        $omos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
    }
    else {
           Choice choice = controller.getEBNFBlock($ebnfRoot, alts);
           hasLookaheadBlock |= choice instanceof PlusBlock || choice instanceof StarBlock;
        $omos = DefaultOutputModelFactory.list(choice);
```

```
    }
    }
   ;

alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
   boolean outerMost = inContext("RULE BLOCK");
}
@after {
   controller.finishAlternative($altCodeBlock, $ops, outerMost);
}
   : a=alt[outerMost] {$altCodeBlock=$a.altCodeBlock; $ops=$a.ops;}
 ;

alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
 // set alt if outer ALT only (the only ones with alt field set to Alternative object)
 AltAST altAST = (AltAST)retval.start;
 if ( outerMost ) controller.setCurrentOuterMostAlt(altAST.alt);
}
 : {
  List<SrcOp> elems = new ArrayList<SrcOp>();
  // TODO: shouldn't we pass $start to controller.alternative()?
  $altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
  $altCodeBlock.ops = $ops = elems;
  controller.setCurrentBlock($altCodeBlock);
  }
  ^( ALT elementOptions? ( element {if ($element.omos!=null) elems.addAll($element.omos);} )+ )

 | ^(ALT elementOptions? EPSILON)
       {$altCodeBlock = controller.epsilon(controller.getCurrentOuterMostAlt(), outerMost);}
   ;

element returns [List<? extends SrcOp> omos]
 : labeledElement     {$omos = $labeledElement.omos;}
 | atom[null,false]   {$omos = $atom.omos;}
 | subrule       {$omos = $subrule.omos;}
 |   ACTION       {$omos = controller.action((ActionAST)$ACTION);}
 |   SEMPRED       {$omos = controller.sempred((ActionAST)$SEMPRED);}
 | ^(ACTION elementOptions)  {$omos = controller.action((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions)  {$omos = controller.sempred((ActionAST)$SEMPRED);}
 ;

labeledElement returns [List<? extends SrcOp> omos]
 : ^(ASSIGN ID atom[$ID,false] )   {$omos = $atom.omos;}
 | ^(PLUS_ASSIGN ID atom[$ID,false])  {$omos = $atom.omos;}
 | ^(ASSIGN ID block[$ID,null] )   {$omos = $block.omos;}
 | ^(PLUS_ASSIGN ID block[$ID,null])  {$omos = $block.omos;}
```

```
 ;

subrule returns [List<? extends SrcOp> omos]
 : ^(OPTIONAL b=block[null,$OPTIONAL])
  {
  $omos = $block.omos;
  }
 | ( ^(op=CLOSURE b=block[null,null])
  | ^(op=POSITIVE_CLOSURE b=block[null,null])
  )
  {
  List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
  SrcOp blk = $b.omos.get(0);
  CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
  alt.addOp(blk);
  alts.add(alt);
  SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
      hasLookaheadBlock |= loop instanceof PlusBlock || loop instanceof StarBlock;
      $omos = DefaultOutputModelFactory.list(loop);
  }
 |  block[null, null]     {$omos = $block.omos;}
   ;

blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
   : ^(SET atom[label,invert]+) {$omos = controller.set($SET, $label, invert);}
   ;

/*
setElement
 : STRING_LITERAL
 | TOKEN_REF
 | ^(RANGE STRING_LITERAL STRING_LITERAL)
 ;
*/

// TODO: combine ROOT/BANG into one then just make new op ref'ing return value of atom/terminal...
// TODO: same for NOT
atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
 : ^(NOT a=atom[$label, true])  {$omos = $a.omos;}
 | range[label]       {$omos = $range.omos;}
 | ^(DOT ID terminal[$label])
 | ^(DOT ID ruleref[$label])
   | ^(WILDCARD .)       {$omos = controller.wildcard($WILDCARD, $label);}
   | WILDCARD        {$omos = controller.wildcard($WILDCARD, $label);}
   |   terminal[label]     {$omos = $terminal.omos;}
   |   ruleref[label]     {$omos = $ruleref.omos;}
 | blockSet[$label, invert]  {$omos = $blockSet.omos;}
 ;
```

```
ruleref[GrammarAST label] returns [List<SrcOp> omos]
  : ^(RULE_REF ARG_ACTION? elementOptions?)  {$omos = controller.ruleRef($RULE_REF, $label,
$ARG_ACTION);}
  ;

range[GrammarAST label] returns [List<SrcOp> omos]
  : ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  ;

terminal[GrammarAST label] returns [List<SrcOp> omos]
  :  ^(STRING_LITERAL .)   {$omos = controller.stringRef($STRING_LITERAL, $label);}
  | STRING_LITERAL    {$omos = controller.stringRef($STRING_LITERAL, $label);}
  | ^(TOKEN_REF ARG_ACTION .) {$omos = controller.tokenRef($TOKEN_REF, $label, $ARG_ACTION);}
  | ^(TOKEN_REF .)    {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
  | TOKEN_REF     {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
  ;

elementOptions
  : ^(ELEMENT_OPTIONS elementOption+)
  ;

elementOption
  : ID
  |   ^(ASSIGN ID ID)
  |   ^(ASSIGN ID STRING_LITERAL)
  |   ^(ASSIGN ID ACTION)
  |   ^(ASSIGN ID INT)
  ;
```

Found in path(s):
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/SourceGenTriggers.g
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```
*/

lexer grammar ActionSplitter;

options { filter=true; }

@header {
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

@members {
ActionSplitterListener delegate;

public ActionSplitter(CharStream input, ActionSplitterListener delegate) {
   this(input, new RecognizerSharedState());
   this.delegate = delegate;
}

/** force filtering (and return tokens). triggers all above actions. */
public List<Token> getActionTokens() {
   List<Token> chunks = new ArrayList<Token>();
   Token t = nextToken();
   while ( t.getType()!=Token.EOF ) {
       chunks.add(t);
       t = nextToken();
   }
   return chunks;
}

private boolean isIDStartChar(int c) {
 return c == '_' || Character.isLetter(c);
}
}

// ignore comments right away

COMMENT
   :   '/*' ( options {greedy=false;} : . )* '*/' {delegate.text($text);}
   ;

LINE_COMMENT
   : '//' ~('\n'|'\r')* '\r'? '\n' {delegate.text($text);}
   ;

SET_NONLOCAL_ATTR
 : '$' x=ID '::' y=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
```

```
  {
  delegate.setNonLocalAttr($text, $x, $y, $expr);
  }
 ;

NONLOCAL_ATTR
 : '$' x=ID '::' y=ID {delegate.nonLocalAttr($text, $x, $y);}
 ;

QUALIFIED_ATTR
 : '$' x=ID '.' y=ID {input.LA(1)!='('}? {delegate.qualifiedAttr($text, $x, $y);}
 ;

SET_ATTR
 : '$' x=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
  {
  delegate.setAttr($text, $x, $expr);
  }
 ;

ATTR
 : '$' x=ID {delegate.attr($text, $x);}
 ;

// Anything else is just random text
TEXT
@init {StringBuilder buf = new StringBuilder();}
@after {delegate.text(buf.toString());}
 : ( c=~('\\'| '$') {buf.append((char)$c);}
  | '\\$' {buf.append('$');}
  | '\\' c=~('$') {buf.append('\\').append((char)$c);}
  | {!isIDStartChar(input.LA(2))}? => '$' {buf.append('$');}
  )+
 ;

fragment
ID  : ('a'..'z'|'A'..'Z'|'_') ('a'..'z'|'A'..'Z'|'0'..'9'|'_')*
   ;

/** Don't allow an = as first char to prevent $x == 3; kind of stuff. */
fragment
ATTR_VALUE_EXPR
 : ~'=' (~';')*
 ;

fragment
WS : (' '|'\t'|'\n'|'\r')+
 ;
```

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*/
/*
This file contains the actual layout of the messages emitted by ANTLR.
This file contains the default format ANTLR uses.
*/

location(file, line, column) ::= "<file>:<line>:<column>:"

message(id, text) ::= "(<id>) <text>"

report(location, message, type) ::= "<type>(<message.id>): <location> <message.text>"

wantsSingleLineMessage() ::= "false"

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*/

javaTypeInitMap ::= [
 "int":"0",
 "long":"0",
 "float":"0.0f",
 "double":"0.0",
 "boolean":"false",
 "byte":"0",
 "short":"0",
 "char":"0",
 default:"null" // anything other than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
```

```
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.atn.*;
import org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.misc.*;
import org.antlr.v4.runtime.tree.*;
import java.util.List;
import java.util.Iterator;
import java.util.ArrayList;

<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeListener;

/**
* This interface defines a complete listener for a parse tree produced by
* {@link <file.parserName>}.
*/
public interface <file.grammarName>Listener extends ParseTreeListener {
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Enter a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
*/
void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Exit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
```

```
*/
void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
}
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>

import org.antlr.v4.runtime.ParserRuleContext;
import org.antlr.v4.runtime.tree.ErrorNode;
import org.antlr.v4.runtime.tree.TerminalNode;

/**
* This class provides an empty implementation of {@link <file.grammarName>Listener},
* which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
public class <file.grammarName>BaseListener implements <file.grammarName>Listener {
 <file.listenerNames:{lname |
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}};
separator="\n">

 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 @Override public void enterEveryRule(ParserRuleContext ctx) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
```

```
 @Override public void exitEveryRule(ParserRuleContext ctx) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 @Override public void visitTerminal(TerminalNode node) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 @Override public void visitErrorNode(ErrorNode node) { }
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeVisitor;

/**
* This interface defines a complete generic visitor for a parse tree produced
* by {@link <file.parserName>}.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
public interface <file.grammarName>Visitor\<T> extends ParseTreeVisitor\<T> {
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.visitorLabelRuleNames.(lname)>\}.
<else>
* Visit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
* @return the visitor result
*/
T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
```

```
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.AbstractParseTreeVisitor;

/**
* This class provides an empty implementation of {@link <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
public class <file.grammarName>BaseVisitor\<T> extends AbstractParseTreeVisitor\<T> implements
<file.grammarName>Visitor\<T> {
 <file.visitorNames:{lname |
/**
* {@inheritDoc\}
*
* \<p>The default implementation returns the result of calling
* {@link #visitChildren\} on {@code ctx\}.\</p>
*/
@Override public T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { return
visitChildren(ctx); \}}; separator="\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})
public class <parser.name> extends <superClass; null="Parser"> {
 static { RuntimeMetaData.checkVersion("<file.ANTLRVersion>", RuntimeMetaData.VERSION); }

 protected static final DFA[] _decisionToDFA;
 protected static final PredictionContextCache _sharedContextCache =
  new PredictionContextCache();
 <if(parser.tokens)>
 public static final int
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
```

```
 <endif>
 public static final int
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
 private static String[] makeRuleNames() {
  return new String[] {
   <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
  };
 }
 public static final String[] ruleNames = makeRuleNames();

 <vocabulary(parser.literalNames, parser.symbolicNames)>

 @Override
 public String getGrammarFileName() { return "<parser.grammarFileName; format="java-escape">"; }

 @Override
 public String[] getRuleNames() { return ruleNames; }

 @Override
 public String getSerializedATN() { return _serializedATN; }

 @Override
 public ATN getATN() { return _ATN; }

 <namedActions.members>
 <parser:(ctor)()>
 <funcs; separator="\n">

<if(sempredFuncs)>
 public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
  switch (ruleIndex) {
  <parser.sempredFuncs.values:{f|
case <f.ruleIndex>:
 return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
  }
  return true;
 }
 <sempredFuncs.values; separator="\n">
<endif>

 <atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static String[] makeLiteralNames() {
 return new String[] {
  <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
```

```
 };
}
private static final String[] _LITERAL_NAMES = makeLiteralNames();
private static String[] makeSymbolicNames() {
 return new String[] {
  <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
 };
}
private static final String[] _SYMBOLIC_NAMES = makeSymbolicNames();
public static final Vocabulary VOCABULARY = new VocabularyImpl(_LITERAL_NAMES,
_SYMBOLIC_NAMES);

/**
* @deprecated Use {@link #VOCABULARY} instead.
*/
@Deprecated
public static final String[] tokenNames;
static {
 tokenNames = new String[_SYMBOLIC_NAMES.length];
 for (int i = 0; i \< tokenNames.length; i++) {
  tokenNames[i] = VOCABULARY.getLiteralName(i);
  if (tokenNames[i] == null) {
   tokenNames[i] = VOCABULARY.getSymbolicName(i);
  }

  if (tokenNames[i] == null) {
   tokenNames[i] = "\<INVALID>";
  }
 }
}

@Override
@Deprecated
public String[] getTokenNames() {
 return tokenNames;
}

@Override

public Vocabulary getVocabulary() {
 return VOCABULARY;
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
@Override
public void action(RuleContext _localctx, int ruleIndex, int actionIndex) {
```

```
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 <f.name>_action((<f.ctxType>)_localctx, actionIndex);
 break;}; separator="\n">
 }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
@Override
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex>:
 return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
 }
 return true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
public <p.name>(TokenStream input) {
 super(input);
 _interp = new ParserATNSimulator(this,_ATN,_decisionToDFA,_sharedContextCache);
}
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
 break;}; separator="\n">
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
```

```
private boolean <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
 switch (predIndex) {
 <actions:{index|
case <index>:
 return <actions.(index)>;}; separator="\n">
 }
 return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.name>(<args; separator=",">) throws RecognitionException {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, getState()<currentRule.args:{a | ,
<a.name>}>);
 enterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch (RecognitionException re) {
  _localctx.exception = re;
  _errHandler.reportError(this, re);
  _errHandler.recover(this, re);
 }
 <endif>
 finally {
  <finallyAction>
  exitRule();
 }
 return _localctx;
}
>>
```

```
LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.name>(<args; separator=", ">) throws RecognitionException {
 return <currentRule.name>(0<currentRule.args:{a | , <a.name>}>);
}

private <currentRule.ctxType> <currentRule.name>(int _p<args:{a | , <a>}>) throws RecognitionException {
 ParserRuleContext _parentctx = _ctx;
 int _parentState = getState();
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,
<a.name>}>);
 <currentRule.ctxType> _prevctx = _localctx;
 int _startState = <currentRule.startState>;
 enterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  _errHandler.reportError(this, re);
  _errHandler.recover(this, re);
 }
 finally {
  <finallyAction>
  unrollRecursionContexts(_parentctx);
 }
 return _localctx;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
```

```
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble; separator="\n">
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
 <alt>
 break;}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
 <alt>
 break;}; separator="\n">
default:
 break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<preamble; separator="\n">
if (<expr>) {
 <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>);
```

```
_errHandler.sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 setState(<choice.loopBackStateNumber>);
 _errHandler.sync(this);
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
<preamble; separator="\n">
do {
 <alts; separator="\n">
 setState(<choice.stateNumber>); <! loopback/exit decision !>
 _errHandler.sync(this);
 <iteration>
} while ( <loopExpr> );
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble; separator="\n">
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{alt |
case <i>:
 <alt>
 break;}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
}
>>
```

```
StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
_alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER ) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
 }
 setState(<choice.loopBackStateNumber>);
 _errHandler.sync(this);
 _alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
}
>>

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
 default:
  <error>
 }
 setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
 _errHandler.sync(this);
 _alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>
```

```
// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<\< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ttype | (1L \<\< <offsetShift(ttype, bits.shift)>)}; separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<ttype>}; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{t | case <t>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>);
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif><r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>
);
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>match(<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l | <labelref(l)> = }>_input.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>) ) {
 <if(m.labels)><m.labels:{l | <labelref(l)> = (Token)}><endif>_errHandler.recoverInline(this);
}
else {
```

```
 if ( _input.LA(1)==Token.EOF ) matchedEOF = true;
 _errHandler.reportMatch(this);
 consume();
}
>>

Wildcard(w) ::= <<
setState(<w.stateNumber>);
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>);
if (!(<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip();"
LexerMoreCommand()  ::= "more();"
LexerPopModeCommand() ::= "popMode();"

LexerTypeCommand(arg, grammar)      ::= "_type = <arg>;"
LexerChannelCommand(arg, grammar)   ::= "_channel = <arg>;"
LexerModeCommand(arg, grammar)      ::= "_mode = <arg>;"
LexerPushModeCommand(arg, grammar)  ::= "pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.name>"
LocalRef(a) ::= "_localctx.<a.name>"
RetValueRef(a) ::= "_localctx.<a.name>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
```

```
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>;"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getText():null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getType():0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getLine():0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getCharPositionInLine():0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getChannel():0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getTokenIndex():0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label>!=null?Integer.valueOf(<ctx(t)>.<t.label>.getText()):0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.start):null)"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_text(r)  ::=
"(<ctx(r)>.<r.label>!=null?_input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.stop"
ThisRulePropertyRef_text(r)  ::= "_input.getText(_localctx.start, _input.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)   ::= "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.name>"
SetNonLocalAttr(s, rhsChunks)   ::=
 "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.name> = <rhsChunks>;"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType()> <t.name>"
TokenTypeDecl(t) ::= "int <t.name>;"
TokenListDecl(t) ::= "List\<Token> <t.name> = new ArrayList\<Token>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.name>"
RuleContextListDecl(rdecl) ::= "List\<<rdecl.ctxName>> <rdecl.name> = new ArrayList\<<rdecl.ctxName>>()"

ContextTokenGetterDecl(t)      ::=
   "public TerminalNode <t.name>() { return getToken(<parser.name>.<t.name>, 0); }"
ContextTokenListGetterDecl(t)  ::=
   "public List\<TerminalNode> <t.name>() { return getTokens(<parser.name>.<t.name>); }"
ContextTokenListIndexedGetterDecl(t)  ::= <<
public TerminalNode <t.name>(int i) {
 return getToken(<parser.name>.<t.name>, i);
}
```

```
>>
ContextRuleGetterDecl(r)       ::= <<
public <r.ctxName> <r.name>() {
 return getRuleContext(<r.ctxName>.class,0);
}
>>
ContextRuleListGetterDecl(r)   ::= <<
public List\<<r.ctxName>\> <r.name>() {
 return getRuleContexts(<r.ctxName>.class);
}
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
public <r.ctxName> <r.name>(int i) {
 return getRuleContext(<r.ctxName>.class,i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = _input.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = _input.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers)
 ::= <<
public static class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=", "><endif> {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <if(ctorAttrs)>public <struct.name>(ParserRuleContext parent, int invokingState) { super(parent, invokingState);
}<endif>
 public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>) {
  super(parent, invokingState);
  <struct.ctorAttrs:{a | this.<a.name> = <a.name>;}; separator="\n">
 }
 @Override public int getRuleIndex() { return RULE_<struct.derivedFromName>; }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public <struct.name>() { }
```

```
 public void copyFrom(<struct.name> ctx) {
  super.copyFrom(ctx);
  <struct.attrs:{a | this.<a.name> = ctx.<a.name>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
public static class <struct.name> extends <currentRule.name; format="cap">Context {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 public <struct.name>(<currentRule.name; format="cap">Context ctx) { copyFrom(ctx); }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
@Override
public void <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener listener) {
 if ( listener instanceof <parser.grammarName>Listener )
((<parser.grammarName>Listener)listener).<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
format="cap">(this);
}
>>

VisitorDispatchMethod(method) ::= <<
@Override
public \<T> T accept(ParseTreeVisitor\<? extends T> visitor) {
 if ( visitor instanceof <parser.grammarName>Visitor ) return ((<parser.grammarName>Visitor\<? extends
T>)visitor).visit<struct.derivedFromName; format="cap">(this);
 else return visitor.visitChildren(this);
}
>>

AttributeDecl(d) ::= "<d.type> <d.name><if(d.initValue)> = <d.initValue><endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>((<x.ctx.name>)_localctx).<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "((<actionChunk.ctx.name>)_localctx)"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>;"
```

```
recRuleSetStopToken()                ::= "_ctx.stop = _input.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
<if(label)>_localctx.<label> = _prevctx;<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
_parentState));
<if(label)>
<if(isListLabel)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.add(_prevctx);
<else>
((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
<endif>
<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = new <ctxName>Context(_localctx);
_ctx = _localctx;
_prevctx = _localctx;
>>

recRuleSetPrevCtx() ::= <<
if ( _parseListeners!=null ) triggerExitRuleEvent();
_prevctx = _localctx;
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
package <lexerFile.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.Lexer;
import org.antlr.v4.runtime.CharStream;
```

```
import org.antlr.v4.runtime.Token;
import org.antlr.v4.runtime.TokenStream;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.atn.*;
import org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.misc.*;

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})
public class <lexer.name> extends <superClass; null="Lexer"> {
 static { RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION); }

 protected static final DFA[] _decisionToDFA;
 protected static final PredictionContextCache _sharedContextCache =
  new PredictionContextCache();
 <if(lexer.tokens)>
 public static final int
  <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(lexer.channels)>
 public static final int
  <lexer.channels:{c | <c>=<lexer.channels.(c)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(rest(lexer.modes))>
 public static final int
  <rest(lexer.modes):{m | <m>=<i>}; separator=", ", wrap, anchor>;
 <endif>
 public static String[] channelNames = {
  "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channels)>, <lexer.channels:{c| "<c>"}; separator=", ",
wrap, anchor><endif>
 };

 public static String[] modeNames = {
  <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
 };

 private static String[] makeRuleNames() {
  return new String[] {
   <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
  };
 }
 public static final String[] ruleNames = makeRuleNames();

 <vocabulary(lexer.literalNames, lexer.symbolicNames)>
```

```
 <namedActions.members>

 public <lexer.name>(CharStream input) {
  super(input);
  _interp = new LexerATNSimulator(this,_ATN,_decisionToDFA,_sharedContextCache);
 }

 @Override
 public String getGrammarFileName() { return "<lexer.grammarFileName>"; }

 @Override
 public String[] getRuleNames() { return ruleNames; }

 @Override
 public String getSerializedATN() { return _serializedATN; }

 @Override
 public String[] getChannelNames() { return channelNames; }

 @Override
 public String[] getModeNames() { return modeNames; }

 @Override
 public ATN getATN() { return _ATN; }

 <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
 <atn>
}
>>

SerializedATN(model) ::= <<
<if(rest(model.segments))>
<! requires segmented representation !>
private static final int _serializedATNSegments = <length(model.segments)>;
<model.segments:{segment|private static final String _serializedATNSegment<i0> =
 "<segment; wrap={"+<\n><\t>"}>";}; separator="\n">
public static final String _serializedATN = Utils.join(
 new String[] {
  <model.segments:{segment | _serializedATNSegment<i0>}; separator=",\n">
 },
 ""
);
<else>
<! only one segment, can be inlined !>
public static final String _serializedATN =
 "<model.serialized; wrap={"+<\n><\t>"}>";
<endif>
public static final ATN _ATN =
```

```
 new ATNDeserializer().deserialize(_serializedATN.toCharArray());
static {
 _decisionToDFA = new DFA[_ATN.getNumberOfDecisions()];
 for (int i = 0; i \< _ATN.getNumberOfDecisions(); i++) {
  _decisionToDFA[i] = new DFA(_ATN.getDecisionState(i), i);
 }
<! org.antlr.v4.tool.DOTGenerator dot = new org.antlr.v4.tool.DOTGenerator(null);!>
<! System.out.println(dot.getDOT(_ATN.decisionToState.get(0), ruleNames, false));!>
<! System.out.println(dot.getDOT(_ATN.ruleToStartState[2], ruleNames, false));!>
}
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".java"
```

Found in path(s):
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/templates/codegen/Java/Java.stg
No license file was found, but licenses were detected in source scan.


```
/*
* [The "BSD license"]
*  Copyright (c) 2013 Terence Parr
*  Copyright (c) 2013 Sam Harwell
*  All rights reserved.
*
*  Redistribution and use in source and binary forms, with or without
*  modification, are permitted provided that the following conditions
*  are met:
*
*  1. Redistributions of source code must retain the above copyright
*     notice, this list of conditions and the following disclaimer.
*  2. Redistributions in binary form must reproduce the above copyright
*     notice, this list of conditions and the following disclaimer in the
*     documentation and/or other materials provided with the distribution.
*  3. The name of the author may not be used to endorse or promote products
*     derived from this software without specific prior written permission.
*
*  THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
*  IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
*  OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
*  IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
```

```
*  INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
*  NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.IO;
using System.Text;
using System.Diagnostics;
using System.Collections.Generic;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using DFA = Antlr4.Runtime.Dfa.DFA;

<parser>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using IParseTreeListener = Antlr4.Runtime.Tree.IParseTreeListener;
using IToken = Antlr4.Runtime.IToken;

/// \<summary>
/// This interface defines a complete listener for a parse tree produced by
/// \<see cref="<csIdentifier.(file.parserName)>"/>.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
```

```
[System.CLSCompliant(false)]
public interface I<file.grammarName>Listener : IParseTreeListener {
 <file.listenerNames:{lname |
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Enter a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Enter a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Enter<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context
context);
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Exit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Exit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context
context);}; separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>

using Antlr4.Runtime.Misc;
using IErrorNode = Antlr4.Runtime.Tree.IErrorNode;
using ITerminalNode = Antlr4.Runtime.Tree.ITerminalNode;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Listener"/>,
/// which can be extended to create a listener which only needs to handle a subset
/// of the available methods.
```

```
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.Diagnostics.DebuggerNonUserCode]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseListener : I<file.grammarName>Listener {
 <file.listenerNames:{lname |
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Enter a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Enter a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Enter<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname;
format="cap">Context context) { \}
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Exit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Exit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname;
format="cap">Context context) { \}}; separator="\n">

 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void EnterEveryRule([NotNull] ParserRuleContext context) { }
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void ExitEveryRule([NotNull] ParserRuleContext context) { }
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void VisitTerminal([NotNull] ITerminalNode node) { }
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void VisitErrorNode([NotNull] IErrorNode node) { }
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>
```

```
VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;

/// \<summary>
/// This interface defines a complete generic visitor for a parse tree produced
/// by \<see cref="<csIdentifier.(file.parserName)>"/>.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Visitor\<Result> : IParseTreeVisitor\<Result> {
 <file.visitorNames:{lname |
/// \<summary>
<if(file.visitorLabelRuleNames.(lname))>
/// Visit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(lname)>"/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
Result Visit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context
context);}; separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;
```

```
/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Visitor{Result}"/>,
/// which can be extended to create a visitor which only needs to handle a subset
/// of the available methods.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.Diagnostics.DebuggerNonUserCode]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseVisitor\<Result> : AbstractParseTreeVisitor\<Result>,
I<file.grammarName>Visitor\<Result> {
 <file.visitorNames:{lname |
/// \<summary>
<if(file.visitorLabelRuleNames.(lname))>
/// Visit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(lname)>"/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>
/// The default implementation returns the result of calling \<see
cref="AbstractParseTreeVisitor{Result\}.VisitChildren(IRuleNode)"/>
/// on \<paramref name="context"/>.
/// \</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
public virtual Result Visit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname;
format="cap">Context context) { return VisitChildren(context); \}}; separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
//------------------------------------------------------------------------------
// \<auto-generated>
//     This code was generated by a tool.
//     ANTLR Version: <ANTLRVersion>
//
//     Changes to this file may cause incorrect behavior and will be lost if
//     the code is regenerated.
// \</auto-generated>
//------------------------------------------------------------------------------

// Generated from <grammarFileName> by ANTLR <ANTLRVersion>
```

```
// Unreachable code detected
#pragma warning disable 0162
// The variable '...' is assigned but its value is never used
#pragma warning disable 0219
// Missing XML comment for publicly visible type or member '...'
#pragma warning disable 1591
// Ambiguous reference in cref attribute
#pragma warning disable 419

>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <csIdentifier.(parser.name)> : <superClass; null="Parser"> {
 protected static DFA[] decisionToDFA;
 protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
 <if(parser.tokens)>
 public const int
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 public const int
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
 public static readonly string[] ruleNames = {
  <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 };

 <vocabulary(parser.literalNames, parser.symbolicNames)>

 public override string GrammarFileName { get { return "<parser.grammarFileName>"; } }

 public override string[] RuleNames { get { return ruleNames; } }

 public override string SerializedAtn { get { return new string(_serializedATN); } }

 static <csIdentifier.(parser.name)>() {
  decisionToDFA = new DFA[_ATN.NumberOfDecisions];
  for (int i = 0; i \< _ATN.NumberOfDecisions; i++) {
   decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
  }
 }

 <namedActions.members>
```

```
 <parser:(ctor)()>
 <funcs; separator="\n">

<if(sempredFuncs)>
 public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
  switch (ruleIndex) {
  <parser.sempredFuncs.values:{f|
case <f.ruleIndex>: return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
  }
  return true;
 }
 <sempredFuncs.values; separator="\n">
<endif>

 <atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static readonly string[] _LiteralNames = {
 <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
private static readonly string[] _SymbolicNames = {
 <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
public static readonly IVocabulary DefaultVocabulary = new Vocabulary(_LiteralNames, _SymbolicNames);

[NotNull]
public override IVocabulary Vocabulary
{
 get
 {
  return DefaultVocabulary;
 }
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
public override void Action(RuleContext _localctx, int ruleIndex, int actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex> : <f.name>_action(<if(!recog.modes)>(<f.ctxType>)<endif>_localctx, actionIndex); break;};
separator="\n">
 }
}
<actionFuncs.values; separator="\n">
<endif>
```

```
<if(sempredFuncs)>
public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex> : return <f.name>_sempred(<if(!recog.modes)>(<f.ctxType>)<endif>_localctx, predIndex);};
separator="\n">
 }
 return true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(parser) ::= <<
 public <csIdentifier.(parser.name)>(ITokenStream input) : this(input, Console.Out, Console.Error) { }

 public <csIdentifier.(parser.name)>(ITokenStream input, TextWriter output, TextWriter errorOutput)
 : base(input, output, errorOutput)
{
 Interpreter = new ParserATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
}
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>: <actions.(index)> break;}; separator="\n">
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private bool <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
 switch (predIndex) {
 <actions:{index|
case <index>: return <actions.(index)>;}; separator="\n">
 }
 return true;
}
>>
```

```
RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<if(ruleCtx)>
<ruleCtx>
<endif>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)>(<args; separator=", ">) {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>}>);
 EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 <endif>
 finally {
  <finallyAction>
  ExitRule();
 }
 return _localctx;
}
>>

LeftFactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)>(<args; separator=", ">) {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>}>);
```

```
 EnterLeftFactoredRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 finally {
  <finallyAction>
  ExitRule();
 }
 return _localctx;
}
>>

// This behaves similar to RuleFunction (enterRule is called, and no adjustments
// are made to the parse tree), but since it's still a variant no context class
// needs to be generated.
LeftUnfactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)>(<args; separator=", ">) {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>}>);
 EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
```

```
  ErrorHandler.Recover(this, re);
 }
 finally {
  <finallyAction>
  ExitRule();
 }
 return _localctx;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)>(<args; separator=", ">) {
 return <csIdentifier.(currentRule.name)>(0<currentRule.args:{a | , <csIdentifier.(a.name)>}>);
}

private <currentRule.ctxType> <csIdentifier.(currentRule.name)>(int _p<args:{a | , <a>}>) {
 ParserRuleContext _parentctx = Context;
 int _parentState = State;
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, _parentState<currentRule.args:{a | ,
<csIdentifier.(a.name)>}>);
 <currentRule.ctxType> _prevctx = _localctx;
 int _startState = <currentRule.startState>;
 EnterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 finally {
  <finallyAction>
```

```
  UnrollRecursionContexts(_parentctx);
 }
 return _localctx;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
EnterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble; separator="\n">
switch (TokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
 <alt>
 break;}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch (TokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
 <alt>
 break;}; separator="\n">
default:
 break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
```

```
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
if (<expr>) {
 <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 State = <choice.loopBackStateNumber>;
 ErrorHandler.Sync(this);
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
<preamble; separator="\n">
do {
 <alts; separator="\n">
 State = <choice.stateNumber>;<! loopback/exit decision !>
 ErrorHandler.Sync(this);
 <iteration>
} while ( <loopExpr> );
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble; separator="\n">
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{alt |
case <i>:
 <alt>
 break;}; separator="\n">
}
>>
```

```
OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER ) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
 }
 State = <choice.loopBackStateNumber>;
 ErrorHandler.Sync(this);
 _alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
}
>>

PlusBlock(choice, alts, error) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
 default:
  <error>
 }
 State = <choice.loopBackStateNumber>;<! loopback/exit decision !>
 ErrorHandler.Sync(this);
 _alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
} while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s) ::= "Sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"
```

```
TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<\< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ttype | (1L \<\< <offsetShift(tokenType.(ttype), bits.shift)>)}; separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<tokenType.(ttype)>}; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{t | case <tokenType.(t)>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
State = <r.stateNumber>; <if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif><csIdentifier.(r.name)>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><arg
ExprsChunks>);
>>

MatchToken(m) ::= <<
State = <m.stateNumber>; <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>Match(<tokenType.(m.name)>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"
```

```
CommonSetStuff(m, expr, capture, invert) ::= <<
State = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }>TokenStream.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>) ) {
 <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>ErrorHandler.RecoverInline(this);
}
else {
 ErrorHandler.ReportMatch(this);
   Consume();
}
>>

Wildcard(w) ::= <<
State = <w.stateNumber>;
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>MatchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
State = <p.stateNumber>;
if (!(<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "Skip();"
LexerMoreCommand()  ::= "More();"
LexerPopModeCommand() ::= "PopMode();"

LexerTypeCommand(arg, grammar)      ::= "_type = <tokenType.(arg)>;"
LexerChannelCommand(arg, grammar)   ::= "_channel = <channelName.(arg)>;"
LexerModeCommand(arg, grammar)      ::= "_mode = <modeName.(arg)>;"
LexerPushModeCommand(arg, grammar)  ::= "PushMode(<modeName.(arg)>);"
```

```
ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
LocalRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
RetValueRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<csIdentifier.(a.name)>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<csIdentifier.(tokenType.(t.name))>"
LabelRef(t) ::= "<ctx(t)>.<csIdentifier.(t.name)>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(csIdentifier.(t.name))>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<csIdentifier.(s.name)> = <rhsChunks>;"

TokenLabelType() ::= "<file.TokenLabelType; null={IToken}>"
InputSymbolType() ::= "<file.InputSymbolType; null={IToken}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Text:null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Type:0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Line:0)"
TokenPropertyRef_pos(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.CharPositionInLine:0)"
TokenPropertyRef_channel(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Channel:0)"
TokenPropertyRef_index(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.TokenIndex:0)"
TokenPropertyRef_int(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?int.Parse(<ctx(t)>.<tokenType.(t.label)>.Text):0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Start):null)"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_text(r)  ::=
"(<ctx(r)>.<r.label>!=null?TokenStream.GetText(<ctx(r)>.<r.label>.Start,<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.Start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.Stop"
ThisRulePropertyRef_text(r)  ::= "TokenStream.GetText(_localctx.Start, TokenStream.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)   ::= <%((<s.ruleName;
format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<csIdentifier.(s.name)>%>
SetNonLocalAttr(s, rhsChunks)   ::=
 <%((<s.ruleName; format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<csIdentifier.(s.name)> =
<rhsChunks>;%>

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.Add(<labelref(a.label)>);"
```

```
TokenDecl(t) ::= "<TokenLabelType()> <csIdentifier.(tokenType.(t.name))>"
TokenTypeDecl(t) ::= "int <csIdentifier.(tokenType.(t.name))>;"
TokenListDecl(t) ::= "IList\<IToken> <csIdentifier.(tokenType.(t.name))> = new List\<IToken>()"
RuleContextDecl(r) ::= "<r.ctxName> <csIdentifier.(r.name)>"
RuleContextListDecl(rdecl) ::= "IList\<<rdecl.ctxName>> <csIdentifier.(rdecl.name)> = new
List\<<rdecl.ctxName>>()"

contextGetterCollection(elementType) ::= <%
<elementType>[]
%>

ContextTokenGetterDecl(t)      ::=
   "[System.Diagnostics.DebuggerNonUserCode] public ITerminalNode <csIdentifier.(tokenType.(t.name))>() {
return GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, 0); }"
ContextTokenListGetterDecl(t)  ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <contextGetterCollection("ITerminalNode")>
<csIdentifier.(tokenType.(t.name))>() { return
GetTokens(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>); }
>>
ContextTokenListIndexedGetterDecl(t)  ::= <<
[System.Diagnostics.DebuggerNonUserCode] public ITerminalNode <csIdentifier.(tokenType.(t.name))>(int i) {
 return GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, i);
}
>>
ContextRuleGetterDecl(r)       ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <r.ctxName> <csIdentifier.(r.name)>() {
 return GetRuleContext\<<r.ctxName>\>(0);
}
>>
ContextRuleListGetterDecl(r)   ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <contextGetterCollection({<r.ctxName>})>
<csIdentifier.(r.name)>() {
 return GetRuleContexts\<<r.ctxName>\>();
}
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <r.ctxName> <csIdentifier.(r.name)>(int i) {
 return GetRuleContext\<<r.ctxName>\>(i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"
```

```
ImplicitTokenLabel(tokenName) ::= "_<tokenType.(tokenName)>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "_<label>"

CaptureNextToken(d) ::= "<d.varName> = TokenStream.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = TokenStream.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,
        superClass={ParserRuleContext}) ::= <<
public partial class <struct.name> :
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces;
separator=", "><endif> {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <if(ctorAttrs)>public <struct.name>(ParserRuleContext parent, int invokingState) : base(parent, invokingState) {
}<endif>
 public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>)
  : base(parent, invokingState)
 {
  <struct.ctorAttrs:{a | this.<csIdentifier.(a.name)> = <csIdentifier.(a.name)>;}; separator="\n">
 }
 public override int RuleIndex { get { return RULE_<struct.derivedFromName>; } }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public <struct.name>() { }
 public virtual void CopyFrom(<struct.name> context) {
  base.CopyFrom(context);
  <struct.attrs:{a | this.<csIdentifier.(a.name)> = context.<csIdentifier.(a.name)>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
public partial class <struct.name> : <currentRule.name; format="cap">Context {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 public <struct.name>(<currentRule.name; format="cap">Context context) { CopyFrom(context); }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
[System.Diagnostics.DebuggerNonUserCode]
public override void <if(method.isEnter)>Enter<else>Exit<endif>Rule(IParseTreeListener listener) {
 I<parser.grammarName>Listener typedListener = listener as I<parser.grammarName>Listener;
```

```
 if (typedListener != null) typedListener.<if(method.isEnter)>Enter<else>Exit<endif><struct.derivedFromName;
format="cap">(this);
}
>>

VisitorDispatchMethod(method) ::= <<
[System.Diagnostics.DebuggerNonUserCode]
public override TResult Accept\<TResult>(IParseTreeVisitor\<TResult> visitor) {
 I<parser.grammarName>Visitor\<TResult> typedVisitor = visitor as I<parser.grammarName>Visitor\<TResult>;
 if (typedVisitor != null) return typedVisitor.Visit<struct.derivedFromName; format="cap">(this);
 else return visitor.VisitChildren(this);
}
>>

AttributeDecl(d) ::= "<d.type> <csIdentifier.(d.name)><if(d.initValue)> = <d.initValue><endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)><typedContext(x.ctx)>.<endif><csIdentifier.(x.name)>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "<typedContext(actionChunk.ctx)>"

// only casts _localctx to the type when the cast isn't redundant (i.e. to a sub-context for a labeled alt)
typedContext(ctx) ::= "<if(ctx.provideCopyFrom)>((<ctx.name>)_localctx)<else>_localctx<endif>"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "Precpred(Context, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken()                ::= "Context.Stop = TokenStream.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.Add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
_parentState));
<if(label)>
<if(isListLabel)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.Add(_prevctx);
```

```
<else>
((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = new <ctxName>Context(_localctx);
Context = _localctx;
_prevctx = _localctx;
>>

recRuleSetPrevCtx() ::= <<
if ( ParseListeners!=null )
 TriggerExitRuleEvent();
_prevctx = _localctx;
>>


LexerFile(file, lexer, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.IO;
using System.Text;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using DFA = Antlr4.Runtime.Dfa.DFA;

<lexer>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <csIdentifier.(lexer.name)> : <superClass; null="Lexer"> {
 protected static DFA[] decisionToDFA;
 protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
 public const int
  <lexer.tokens:{k | <tokenType.(k)>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
```

```
<if(lexer.channels)>
public const int
 <lexer.channels:{k | <csIdentifier.(k)>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>;
<endif>
<if(rest(lexer.modes))>
public const int
 <rest(lexer.modes):{m | <m>=<i>}; separator=", ", wrap, anchor>;
<endif>
public static string[] channelNames = {
 "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channels)>, <lexer.channels:{c| "<c>"}; separator=", ",
wrap, anchor><endif>
};

public static string[] modeNames = {
 <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
};

public static readonly string[] ruleNames = {
 <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
};

<namedActions.members>

public <csIdentifier.(lexer.name)>(ICharStream input)
: this(input, Console.Out, Console.Error) { }

public <csIdentifier.(lexer.name)>(ICharStream input, TextWriter output, TextWriter errorOutput)
: base(input, output, errorOutput)
{
 Interpreter = new LexerATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
}

<vocabulary(lexer.literalNames, lexer.symbolicNames)>

public override string GrammarFileName { get { return "<lexer.grammarFileName>"; } }

public override string[] RuleNames { get { return ruleNames; } }

public override string[] ChannelNames { get { return channelNames; } }

public override string[] ModeNames { get { return modeNames; } }

public override string SerializedAtn { get { return new string(_serializedATN); } }

static <csIdentifier.(lexer.name)>() {
 decisionToDFA = new DFA[_ATN.NumberOfDecisions];
 for (int i = 0; i \< _ATN.NumberOfDecisions; i++) {
  decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
```

```
  }
 }
 <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
 <atn>
}
>>


SerializedATN(model) ::= <<
private static char[] _serializedATN = {
 <model.serialized; separator=", ", wrap>,
};

public static readonly ATN _ATN =
 new ATNDeserializer().Deserialize(_serializedATN);


>>

initValue(typeName) ::= <<
default(<typeName>)
>>

codeFileExtension() ::= ".cs"

modeName ::= [
 "DEFAULT_MODE" : "DefaultMode",
 default : key
]

channelName ::= [
 "HIDDEN" : "Hidden",
 "DEFAULT_TOKEN_CHANNEL" : "DefaultTokenChannel",
 default : key
]

tokenType ::= [
 "EOF" : "Eof",
 default : key
]

csIdentifier ::= [
 "abstract" : "@abstract",
 "as" : "@as",
 "base" : "@base",
 "bool" : "@bool",
 "break" : "@break",
 "byte" : "@byte",
```

```
"case" : "@case",
"catch" : "@catch",
"char" : "@char",
"checked" : "@checked",
"class" : "@class",
"const" : "@const",
"continue" : "@continue",
"decimal" : "@decimal",
"default" : "@default",
"delegate" : "@delegate",
"do" : "@do",
"double" : "@double",
"else" : "@else",
"enum" : "@enum",
"event" : "@event",
"explicit" : "@explicit",
"extern" : "@extern",
"false" : "@false",
"finally" : "@finally",
"fixed" : "@fixed",
"float" : "@float",
"for" : "@for",
"foreach" : "@foreach",
"goto" : "@goto",
"if" : "@if",
"implicit" : "@implicit",
"in" : "@in",
"int" : "@int",
"interface" : "@interface",
"internal" : "@internal",
"is" : "@is",
"lock" : "@lock",
"long" : "@long",
"namespace" : "@namespace",
"new" : "@new",
"null" : "@null",
"object" : "@object",
"operator" : "@operator",
"out" : "@out",
"override" : "@override",
"params" : "@params",
"private" : "@private",
"protected" : "@protected",
"public" : "@public",
"readonly" : "@readonly",
"ref" : "@ref",
"return" : "@return",
"sbyte" : "@sbyte",
```

```
 "sealed" : "@sealed",
 "short" : "@short",
 "sizeof" : "@sizeof",
 "stackalloc" : "@stackalloc",
 "static" : "@static",
 "string" : "@string",
 "struct" : "@struct",
 "switch" : "@switch",
 "this" : "@this",
 "throw" : "@throw",
 "true" : "@true",
 "try" : "@try",
 "typeof" : "@typeof",
 "uint" : "@uint",
 "ulong" : "@ulong",
 "unchecked" : "@unchecked",
 "unsafe" : "@unsafe",
 "ushort" : "@ushort",
 "using" : "@using",
 "virtual" : "@virtual",
 "values" : "@values",
 "void" : "@void",
 "volatile" : "@volatile",
 "while" : "@while",
 default : key
]
```

Found in path(s):
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg
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```
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*/

/** Find left-recursive rules */
tree grammar LeftRecursiveRuleWalker;

options {
 tokenVocab=ANTLRParser;
   ASTLabelType=GrammarAST;
}

@header {
package org.antlr.v4.parse;

import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

@members {
private String ruleName;
private int currentOuterAltNumber; // which outer alt of rule?
public int numAlts;  // how many alts for this rule total?

public void setAltAssoc(AltAST altTree, int alt) {}
public void binaryAlt(AltAST altTree, int alt) {}
public void prefixAlt(AltAST altTree, int alt) {}
public void suffixAlt(AltAST altTree, int alt) {}
public void otherAlt(AltAST altTree, int alt) {}
public void setReturnValues(GrammarAST t) {}
}

@rulecatch { }

// TODO: can get parser errors for not matching pattern; make them go away
public
rec_rule returns [boolean isLeftRec]
```

```
@init
{
 currentOuterAltNumber = 1;
}
 : ^( r=RULE id=RULE_REF {ruleName=$id.getText();}
   ruleModifier?
//   (ARG_ACTION)? shouldn't allow args, right?
   (^(RETURNS a=ARG_ACTION {setReturnValues($a);}))?
//        ( ^(THROWS .+) )? don't allow
       ( ^(LOCALS ARG_ACTION) )? // TODO: copy these to gen'd code
       ( ^(OPTIONS .*)
      |   ^(AT ID ACTION) // TODO: copy
      )*
   ruleBlock {$isLeftRec = $ruleBlock.isLeftRec;}
   exceptionGroup
  )
 ;

exceptionGroup
   : exceptionHandler* finallyClause?
   ;

exceptionHandler
 : ^(CATCH ARG_ACTION ACTION)
 ;

finallyClause
 : ^(FINALLY ACTION)
 ;

ruleModifier
   : PUBLIC
   | PRIVATE
   | PROTECTED
   ;

ruleBlock returns [boolean isLeftRec]
@init{boolean lr=false; this.numAlts = $start.getChildCount();}
 : ^( BLOCK
   (
    o=outerAlternative
    {if ($o.isLeftRec) $isLeftRec = true;}
    {currentOuterAltNumber++;}
   )+
  )
 ;

/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
```

```
outerAlternative returns [boolean isLeftRec]
  :  (binary)=>          binary
                     {binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
  |  (prefix)=>          prefix
                     {prefixAlt((AltAST)$start, currentOuterAltNumber);}
  |  (suffix)=>          suffix
                     {suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
  |  nonLeftRecur        {otherAlt((AltAST)$start,  currentOuterAltNumber);}
  ;

binary
 : ^( ALT elementOptions? recurse element* recurse epsilonElement* )
      {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
 ;

prefix
 : ^( ALT elementOptions?
   element+
   recurse epsilonElement*
   )
      {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
 ;

suffix
  :  ^( ALT elementOptions? recurse element+ )
      {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
  ;

nonLeftRecur
  :  ^(ALT elementOptions? element+)
  ;

recurse
 : ^(ASSIGN ID recurseNoLabel)
 | ^(PLUS_ASSIGN ID recurseNoLabel)
 | recurseNoLabel
 ;

recurseNoLabel : {((CommonTree)input.LT(1)).getText().equals(ruleName)}? RULE_REF;

token returns [GrammarAST t=null]
 : ^(ASSIGN ID s=token {$t = $s.t;})
 | ^(PLUS_ASSIGN ID s=token {$t = $s.t;})
 | b=STRING_LITERAL        {$t = $b;}
  | ^(b=STRING_LITERAL elementOptions)  {$t = $b;}
  | ^(c=TOKEN_REF elementOptions)   {$t = $c;}
 | c=TOKEN_REF             {$t = $c;}
 ;
```

```
elementOptions
   : ^(ELEMENT_OPTIONS elementOption*)
   ;

elementOption
   : ID
   |   ^(ASSIGN ID ID)
   |   ^(ASSIGN ID STRING_LITERAL)
   |   ^(ASSIGN ID ACTION)
   |   ^(ASSIGN ID INT)
   ;

element
 : atom
 | ^(NOT element)
 | ^(RANGE atom atom)
 | ^(ASSIGN ID element)
 | ^(PLUS_ASSIGN ID element)
   | ^(SET setElement+)
   |   RULE_REF
 | ebnf
 | epsilonElement
 ;

epsilonElement
 : ACTION
 | SEMPRED
 | EPSILON
 | ^(ACTION elementOptions)
 | ^(SEMPRED elementOptions)
 ;

setElement
 : ^(STRING_LITERAL elementOptions)
 | ^(TOKEN_REF elementOptions)
 | STRING_LITERAL
 | TOKEN_REF
 ;

ebnf:   block
   |   ^( OPTIONAL block )
   |   ^( CLOSURE block )
   |   ^( POSITIVE_CLOSURE block )
   ;

block
   : ^(BLOCK ACTION? alternative+)
```

```
   ;

alternative
 : ^(ALT elementOptions? element+)
   ;

atom
 : ^(RULE_REF ARG_ACTION? elementOptions?)
   |  ^(STRING_LITERAL elementOptions)
 | STRING_LITERAL
   | ^(TOKEN_REF elementOptions)
 | TOKEN_REF
   | ^(WILDCARD elementOptions)
 | WILDCARD
 | ^(DOT ID element)
 ;
```

Found in path(s):
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g
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*/

/** The definitive ANTLR v3 tree grammar to walk/visit ANTLR v4 grammars.
*  Parses trees created by ANTLRParser.g.
*
*  Rather than have multiple tree grammars, one for each visit, I'm
*  creating this generic visitor that knows about context. All of the
*  boilerplate pattern recognition is done here. Then, subclasses can
*  override the methods they care about. This prevents a lot of the same
*  context tracking stuff like "set current alternative for current
*  rule node" that is repeated in lots of tree filters.
*/
tree grammar GrammarTreeVisitor;
options {
 language      = Java;
 tokenVocab    = ANTLRParser;
 ASTLabelType  = GrammarAST;
}

// Include the copyright in this source and also the generated source
@header {
/*
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*/
package org.antlr.v4.parse;
import org.antlr.v4.Tool;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
}

@members {
public String grammarName;
public GrammarAST currentRuleAST;
public String currentModeName = LexerGrammar.DEFAULT_MODE_NAME;
public String currentRuleName;
public GrammarAST currentOuterAltRoot;
public int currentOuterAltNumber = 1; // 1..n
public int rewriteEBNFLevel = 0;

public GrammarTreeVisitor() { this(null); }

// Should be abstract but can't make gen'd parser abstract;
// subclasses should implement else everything goes to stderr!
public ErrorManager getErrorManager() { return null; }

public void visitGrammar(GrammarAST t) { visit(t, "grammarSpec"); }
public void visit(GrammarAST t, String ruleName) {
 CommonTreeNodeStream nodes = new CommonTreeNodeStream(new GrammarASTAdaptor(), t);
 setTreeNodeStream(nodes);
 try {
  Method m = getClass().getMethod(ruleName);
  m.invoke(this);
 }
 catch (Throwable e) {
  ErrorManager errMgr = getErrorManager();
  if ( e instanceof InvocationTargetException ) {
   e = e.getCause();
  }
  //e.printStackTrace(System.err);
  if ( errMgr==null ) {
   System.err.println("can't find rule "+ruleName+
         " or tree structure error: "+t.toStringTree()
         );
   e.printStackTrace(System.err);
  }
  else errMgr.toolError(ErrorType.INTERNAL_ERROR, e);
 }
```

```
}

public void discoverGrammar(GrammarRootAST root, GrammarAST ID) { }
public void finishPrequels(GrammarAST firstPrequel) { }
public void finishGrammar(GrammarRootAST root, GrammarAST ID) { }

public void grammarOption(GrammarAST ID, GrammarAST valueAST) { }
public void ruleOption(GrammarAST ID, GrammarAST valueAST) { }
public void blockOption(GrammarAST ID, GrammarAST valueAST) { }
public void defineToken(GrammarAST ID) { }
public void defineChannel(GrammarAST ID) { }
public void globalNamedAction(GrammarAST scope, GrammarAST ID, ActionAST action) { }
public void importGrammar(GrammarAST label, GrammarAST ID) { }

public void modeDef(GrammarAST m, GrammarAST ID) { }

public void discoverRules(GrammarAST rules) { }
public void finishRules(GrammarAST rule) { }
public void discoverRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
    ActionAST arg, ActionAST returns, GrammarAST thrws,
    GrammarAST options, ActionAST locals,
    List<GrammarAST> actions,
    GrammarAST block) { }
public void finishRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void discoverLexerRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
                    GrammarAST block) { }
public void finishLexerRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void ruleCatch(GrammarAST arg, ActionAST action) { }
public void finallyAction(ActionAST action) { }
public void discoverOuterAlt(AltAST alt) { }
public void finishOuterAlt(AltAST alt) { }
public void discoverAlt(AltAST alt) { }
public void finishAlt(AltAST alt) { }

public void ruleRef(GrammarAST ref, ActionAST arg) { }
public void tokenRef(TerminalAST ref) { }
public void elementOption(GrammarASTWithOptions t, GrammarAST ID, GrammarAST valueAST) { }
public void stringRef(TerminalAST ref) { }
public void wildcardRef(GrammarAST ref) { }
public void actionInAlt(ActionAST action) { }
public void sempredInAlt(PredAST pred) { }
public void label(GrammarAST op, GrammarAST ID, GrammarAST element) { }
public void lexerCallCommand(int outerAltNumber, GrammarAST ID, GrammarAST arg) { }
public void lexerCommand(int outerAltNumber, GrammarAST ID) { }

protected void enterGrammarSpec(GrammarAST tree) { }
protected void exitGrammarSpec(GrammarAST tree) { }
```

```
protected void enterPrequelConstructs(GrammarAST tree) { }
protected void exitPrequelConstructs(GrammarAST tree) { }

protected void enterPrequelConstruct(GrammarAST tree) { }
protected void exitPrequelConstruct(GrammarAST tree) { }

protected void enterOptionsSpec(GrammarAST tree) { }
protected void exitOptionsSpec(GrammarAST tree) { }

protected void enterOption(GrammarAST tree) { }
protected void exitOption(GrammarAST tree) { }

protected void enterOptionValue(GrammarAST tree) { }
protected void exitOptionValue(GrammarAST tree) { }

protected void enterDelegateGrammars(GrammarAST tree) { }
protected void exitDelegateGrammars(GrammarAST tree) { }

protected void enterDelegateGrammar(GrammarAST tree) { }
protected void exitDelegateGrammar(GrammarAST tree) { }

protected void enterTokensSpec(GrammarAST tree) { }
protected void exitTokensSpec(GrammarAST tree) { }

protected void enterTokenSpec(GrammarAST tree) { }
protected void exitTokenSpec(GrammarAST tree) { }

protected void enterChannelsSpec(GrammarAST tree) { }
protected void exitChannelsSpec(GrammarAST tree) { }

protected void enterChannelSpec(GrammarAST tree) { }
protected void exitChannelSpec(GrammarAST tree) { }

protected void enterAction(GrammarAST tree) { }
protected void exitAction(GrammarAST tree) { }

protected void enterRules(GrammarAST tree) { }
protected void exitRules(GrammarAST tree) { }

protected void enterMode(GrammarAST tree) { }
protected void exitMode(GrammarAST tree) { }

protected void enterLexerRule(GrammarAST tree) { }
protected void exitLexerRule(GrammarAST tree) { }

protected void enterRule(GrammarAST tree) { }
protected void exitRule(GrammarAST tree) { }
```

```
protected void enterExceptionGroup(GrammarAST tree) { }
protected void exitExceptionGroup(GrammarAST tree) { }

protected void enterExceptionHandler(GrammarAST tree) { }
protected void exitExceptionHandler(GrammarAST tree) { }

protected void enterFinallyClause(GrammarAST tree) { }
protected void exitFinallyClause(GrammarAST tree) { }

protected void enterLocals(GrammarAST tree) { }
protected void exitLocals(GrammarAST tree) { }

protected void enterRuleReturns(GrammarAST tree) { }
protected void exitRuleReturns(GrammarAST tree) { }

protected void enterThrowsSpec(GrammarAST tree) { }
protected void exitThrowsSpec(GrammarAST tree) { }

protected void enterRuleAction(GrammarAST tree) { }
protected void exitRuleAction(GrammarAST tree) { }

protected void enterRuleModifier(GrammarAST tree) { }
protected void exitRuleModifier(GrammarAST tree) { }

protected void enterLexerRuleBlock(GrammarAST tree) { }
protected void exitLexerRuleBlock(GrammarAST tree) { }

protected void enterRuleBlock(GrammarAST tree) { }
protected void exitRuleBlock(GrammarAST tree) { }

protected void enterLexerOuterAlternative(AltAST tree) { }
protected void exitLexerOuterAlternative(AltAST tree) { }

protected void enterOuterAlternative(AltAST tree) { }
protected void exitOuterAlternative(AltAST tree) { }

protected void enterLexerAlternative(GrammarAST tree) { }
protected void exitLexerAlternative(GrammarAST tree) { }

protected void enterLexerElements(GrammarAST tree) { }
protected void exitLexerElements(GrammarAST tree) { }

protected void enterLexerElement(GrammarAST tree) { }
protected void exitLexerElement(GrammarAST tree) { }

protected void enterLabeledLexerElement(GrammarAST tree) { }
protected void exitLabeledLexerElement(GrammarAST tree) { }
```

```
protected void enterLexerBlock(GrammarAST tree) { }
protected void exitLexerBlock(GrammarAST tree) { }

protected void enterLexerAtom(GrammarAST tree) { }
protected void exitLexerAtom(GrammarAST tree) { }

protected void enterActionElement(GrammarAST tree) { }
protected void exitActionElement(GrammarAST tree) { }

protected void enterAlternative(AltAST tree) { }
protected void exitAlternative(AltAST tree) { }

protected void enterLexerCommand(GrammarAST tree) { }
protected void exitLexerCommand(GrammarAST tree) { }

protected void enterLexerCommandExpr(GrammarAST tree) { }
protected void exitLexerCommandExpr(GrammarAST tree) { }

protected void enterElement(GrammarAST tree) { }
protected void exitElement(GrammarAST tree) { }

protected void enterAstOperand(GrammarAST tree) { }
protected void exitAstOperand(GrammarAST tree) { }

protected void enterLabeledElement(GrammarAST tree) { }
protected void exitLabeledElement(GrammarAST tree) { }

protected void enterSubrule(GrammarAST tree) { }
protected void exitSubrule(GrammarAST tree) { }

protected void enterLexerSubrule(GrammarAST tree) { }
protected void exitLexerSubrule(GrammarAST tree) { }

protected void enterBlockSuffix(GrammarAST tree) { }
protected void exitBlockSuffix(GrammarAST tree) { }

protected void enterEbnfSuffix(GrammarAST tree) { }
protected void exitEbnfSuffix(GrammarAST tree) { }

protected void enterAtom(GrammarAST tree) { }
protected void exitAtom(GrammarAST tree) { }

protected void enterBlockSet(GrammarAST tree) { }
protected void exitBlockSet(GrammarAST tree) { }

protected void enterSetElement(GrammarAST tree) { }
protected void exitSetElement(GrammarAST tree) { }
```

```
protected void enterBlock(GrammarAST tree) { }
protected void exitBlock(GrammarAST tree) { }

protected void enterRuleref(GrammarAST tree) { }
protected void exitRuleref(GrammarAST tree) { }

protected void enterRange(GrammarAST tree) { }
protected void exitRange(GrammarAST tree) { }

protected void enterTerminal(GrammarAST tree) { }
protected void exitTerminal(GrammarAST tree) { }

protected void enterElementOptions(GrammarAST tree) { }
protected void exitElementOptions(GrammarAST tree) { }

protected void enterElementOption(GrammarAST tree) { }
protected void exitElementOption(GrammarAST tree) { }

 @Override
 public void traceIn(String ruleName, int ruleIndex)  {
  System.err.println("enter "+ruleName+": "+input.LT(1));
 }

 @Override
 public void traceOut(String ruleName, int ruleIndex)  {
  System.err.println("exit "+ruleName+": "+input.LT(1));
 }
}

grammarSpec
@init {
 enterGrammarSpec($start);
}
@after {
 exitGrammarSpec($start);
}
   :   ^( GRAMMAR ID {grammarName=$ID.text;}
     {discoverGrammar((GrammarRootAST)$GRAMMAR, $ID);}
      prequelConstructs
     {finishPrequels($prequelConstructs.firstOne);}
      rules mode*
     {finishGrammar((GrammarRootAST)$GRAMMAR, $ID);}
   )
 ;

prequelConstructs returns [GrammarAST firstOne=null]
@init {
 enterPrequelConstructs($start);
```

```
}
@after {
 exitPrequelConstructs($start);
}
 : {$firstOne=$start;} prequelConstruct+
 |
 ;

prequelConstruct
@init {
 enterPrequelConstructs($start);
}
@after {
 exitPrequelConstructs($start);
}
 :   optionsSpec
   |   delegateGrammars
   |   tokensSpec
   |   channelsSpec
   |   action
   ;

optionsSpec
@init {
 enterOptionsSpec($start);
}
@after {
 exitOptionsSpec($start);
}
 : ^(OPTIONS option*)
   ;

option
@init {
 enterOption($start);
 boolean rule = inContext("RULE ...");
 boolean block = inContext("BLOCK ...");
}
@after {
 exitOption($start);
}
   :   ^(a=ASSIGN ID v=optionValue)
    {
    if ( block ) blockOption($ID, $v.start); // most specific first
    else if ( rule ) ruleOption($ID, $v.start);
    else grammarOption($ID, $v.start);
    }
   ;
```

```
optionValue returns [String v]
@init {
 enterOptionValue($start);
 $v = $start.token.getText();
}
@after {
 exitOptionValue($start);
}
   :   ID
   |   STRING_LITERAL
   |   INT
   ;

delegateGrammars
@init {
 enterDelegateGrammars($start);
}
@after {
 exitDelegateGrammars($start);
}
 :   ^(IMPORT delegateGrammar+)
 ;

delegateGrammar
@init {
 enterDelegateGrammar($start);
}
@after {
 exitDelegateGrammar($start);
}
   :   ^(ASSIGN label=ID id=ID) {importGrammar($label, $id);}
   |   id=ID      {importGrammar(null, $id);}
   ;

tokensSpec
@init {
 enterTokensSpec($start);
}
@after {
 exitTokensSpec($start);
}
 :   ^(TOKENS_SPEC tokenSpec+)
 ;

tokenSpec
@init {
 enterTokenSpec($start);
```

```
}
@after {
 exitTokenSpec($start);
}
 : ID     {defineToken($ID);}
 ;

channelsSpec
@init {
 enterChannelsSpec($start);
}
@after {
 exitChannelsSpec($start);
}
 :   ^(CHANNELS channelSpec+)
 ;

channelSpec
@init {
 enterChannelSpec($start);
}
@after {
 exitChannelSpec($start);
}
 : ID     {defineChannel($ID);}
 ;

action
@init {
 enterAction($start);
}
@after {
 exitAction($start);
}
 : ^(AT sc=ID? name=ID ACTION) {globalNamedAction($sc, $name, (ActionAST)$ACTION);}
 ;

rules
@init {
 enterRules($start);
}
@after {
 exitRules($start);
}
   : ^(RULES {discoverRules($RULES);} (rule|lexerRule)* {finishRules($RULES);})
   ;

mode
```

```
@init {
 enterMode($start);
}
@after {
 exitMode($start);
}
 : ^( MODE ID {currentModeName=$ID.text; modeDef($MODE, $ID);} lexerRule* )
 ;

lexerRule
@init {
 enterLexerRule($start);
 List<GrammarAST> mods = new ArrayList<GrammarAST>();
 currentOuterAltNumber=0;
}
@after {
 exitLexerRule($start);
}
 : ^( RULE TOKEN_REF
   {currentRuleName=$TOKEN_REF.text; currentRuleAST=$RULE;}
   (^(RULEMODIFIERS m=FRAGMENT {mods.add($m);}))?
       {discoverLexerRule((RuleAST)$RULE, $TOKEN_REF, mods, (GrammarAST)input.LT(1));}
       lexerRuleBlock
       {
       finishLexerRule((RuleAST)$RULE, $TOKEN_REF, $lexerRuleBlock.start);
       currentRuleName=null; currentRuleAST=null;
       }
       )
 ;

rule
@init {
 enterRule($start);
 List<GrammarAST> mods = new ArrayList<GrammarAST>();
 List<GrammarAST> actions = new ArrayList<GrammarAST>(); // track roots
 currentOuterAltNumber=0;
}
@after {
 exitRule($start);
}
 :   ^( RULE RULE_REF {currentRuleName=$RULE_REF.text; currentRuleAST=$RULE;}
   (^(RULEMODIFIERS (m=ruleModifier{mods.add($m.start);})+))?
   ARG_ACTION?
       ret=ruleReturns?
       thr=throwsSpec?
       loc=locals?
       ( opts=optionsSpec
      |   a=ruleAction {actions.add($a.start);}
```

```
    )*
     {discoverRule((RuleAST)$RULE, $RULE_REF, mods, (ActionAST)$ARG_ACTION,
         $ret.start!=null?(ActionAST)$ret.start.getChild(0):null,
         $thr.start, $opts.start,
         $loc.start!=null?(ActionAST)$loc.start.getChild(0):null,
         actions, (GrammarAST)input.LT(1));}
    ruleBlock exceptionGroup
    {finishRule((RuleAST)$RULE, $RULE_REF, $ruleBlock.start); currentRuleName=null; currentRuleAST=null;}
    )
  ;

exceptionGroup
@init {
 enterExceptionGroup($start);
}
@after {
 exitExceptionGroup($start);
}
  : exceptionHandler* finallyClause?
  ;

exceptionHandler
@init {
 enterExceptionHandler($start);
}
@after {
 exitExceptionHandler($start);
}
 : ^(CATCH ARG_ACTION ACTION) {ruleCatch($ARG_ACTION, (ActionAST)$ACTION);}
 ;

finallyClause
@init {
 enterFinallyClause($start);
}
@after {
 exitFinallyClause($start);
}
 : ^(FINALLY ACTION)    {finallyAction((ActionAST)$ACTION);}
 ;

locals
@init {
 enterLocals($start);
}
@after {
 exitLocals($start);
}
```

```
 : ^(LOCALS ARG_ACTION)
 ;

ruleReturns
@init {
 enterRuleReturns($start);
}
@after {
 exitRuleReturns($start);
}
 : ^(RETURNS ARG_ACTION)
 ;

throwsSpec
@init {
 enterThrowsSpec($start);
}
@after {
 exitThrowsSpec($start);
}
   : ^(THROWS ID+)
   ;

ruleAction
@init {
 enterRuleAction($start);
}
@after {
 exitRuleAction($start);
}
 : ^(AT ID ACTION)
 ;

ruleModifier
@init {
 enterRuleModifier($start);
}
@after {
 exitRuleModifier($start);
}
   : PUBLIC
   | PRIVATE
   | PROTECTED
   | FRAGMENT
   ;

lexerRuleBlock
@init {
```

```
 enterLexerRuleBlock($start);
}
@after {
 exitLexerRuleBlock($start);
}
   : ^( BLOCK
     ( {
      currentOuterAltRoot = (GrammarAST)input.LT(1);
    currentOuterAltNumber++;
    }
      lexerOuterAlternative
     )+
    )
   ;

ruleBlock
@init {
 enterRuleBlock($start);
}
@after {
 exitRuleBlock($start);
}
   : ^( BLOCK
     ( {
      currentOuterAltRoot = (GrammarAST)input.LT(1);
    currentOuterAltNumber++;
    }
      outerAlternative
     )+
    )
   ;

lexerOuterAlternative
@init {
 enterLexerOuterAlternative((AltAST)$start);
 discoverOuterAlt((AltAST)$start);
}
@after {
 finishOuterAlt((AltAST)$start);
 exitLexerOuterAlternative((AltAST)$start);
}
 : lexerAlternative
 ;


outerAlternative
@init {
 enterOuterAlternative((AltAST)$start);
```

```
 discoverOuterAlt((AltAST)$start);
}
@after {
 finishOuterAlt((AltAST)$start);
 exitOuterAlternative((AltAST)$start);
}
 : alternative
 ;

lexerAlternative
@init {
 enterLexerAlternative($start);
}
@after {
 exitLexerAlternative($start);
}
 : ^(LEXER_ALT_ACTION lexerElements lexerCommand+)
   |   lexerElements
   ;

lexerElements
@init {
 enterLexerElements($start);
}
@after {
 exitLexerElements($start);
}
   : ^(ALT lexerElement+)
   ;

lexerElement
@init {
 enterLexerElement($start);
}
@after {
 exitLexerElement($start);
}
 : labeledLexerElement
 | lexerAtom
 | lexerSubrule
 |   ACTION      {actionInAlt((ActionAST)$ACTION);}
 |   SEMPRED      {sempredInAlt((PredAST)$SEMPRED);}
 |   ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
 | EPSILON
 ;

labeledLexerElement
```

```
@init {
 enterLabeledLexerElement($start);
}
@after {
 exitLabeledLexerElement($start);
}
   :   ^((ASSIGN|PLUS_ASSIGN) ID (lexerAtom|block))
 ;

lexerBlock
@init {
 enterLexerBlock($start);
}
@after {
 exitLexerBlock($start);
}
 : ^(BLOCK optionsSpec? lexerAlternative+)
   ;

lexerAtom
@init {
 enterLexerAtom($start);
}
@after {
 exitLexerAtom($start);
}
   :   terminal
   |   ^(NOT blockSet)
   |   blockSet
   |   ^(WILDCARD elementOptions)
   |   WILDCARD
   | LEXER_CHAR_SET
   |   range
   |   ruleref
   ;

actionElement
@init {
 enterActionElement($start);
}
@after {
 exitActionElement($start);
}
 : ACTION
 |   ^(ACTION elementOptions)
 |   SEMPRED
 |   ^(SEMPRED elementOptions)
 ;
```

```
alternative
@init {
 enterAlternative((AltAST)$start);
 discoverAlt((AltAST)$start);
}
@after {
 finishAlt((AltAST)$start);
 exitAlternative((AltAST)$start);
}
 : ^(ALT elementOptions? element+)
 | ^(ALT elementOptions? EPSILON)
   ;

lexerCommand
@init {
 enterLexerCommand($start);
}
@after {
 exitLexerCommand($start);
}
 : ^(LEXER_ACTION_CALL ID lexerCommandExpr)
       {lexerCallCommand(currentOuterAltNumber, $ID, $lexerCommandExpr.start);}
 | ID
       {lexerCommand(currentOuterAltNumber, $ID);}
 ;

lexerCommandExpr
@init {
 enterLexerCommandExpr($start);
}
@after {
 exitLexerCommandExpr($start);
}
 : ID
 | INT
 ;

element
@init {
 enterElement($start);
}
@after {
 exitElement($start);
}
 : labeledElement
 | atom
 | subrule
```

```
 |   ACTION      {actionInAlt((ActionAST)$ACTION);}
 |   SEMPRED      {sempredInAlt((PredAST)$SEMPRED);}
 |   ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
 | range
 | ^(NOT blockSet)
 | ^(NOT block)
 ;

astOperand
@init {
 enterAstOperand($start);
}
@after {
 exitAstOperand($start);
}
 : atom
 | ^(NOT blockSet)
 | ^(NOT block)
 ;

labeledElement
@init {
 enterLabeledElement($start);
}
@after {
 exitLabeledElement($start);
}
 : ^((ASSIGN|PLUS_ASSIGN) ID element) {label($start, $ID, $element.start);}
 ;

subrule
@init {
 enterSubrule($start);
}
@after {
 exitSubrule($start);
}
 : ^(blockSuffix block)
 |  block
   ;

lexerSubrule
@init {
 enterLexerSubrule($start);
}
@after {
 exitLexerSubrule($start);
```

```
}
 : ^(blockSuffix lexerBlock)
 |  lexerBlock
   ;

blockSuffix
@init {
 enterBlockSuffix($start);
}
@after {
 exitBlockSuffix($start);
}
   : ebnfSuffix
   ;

ebnfSuffix
@init {
 enterEbnfSuffix($start);
}
@after {
 exitEbnfSuffix($start);
}
 : OPTIONAL
  | CLOSURE
   | POSITIVE_CLOSURE
 ;

atom
@init {
 enterAtom($start);
}
@after {
 exitAtom($start);
}
 : ^(DOT ID terminal)
 | ^(DOT ID ruleref)
   | ^(WILDCARD elementOptions) {wildcardRef($WILDCARD);}
   | WILDCARD     {wildcardRef($WILDCARD);}
   |   terminal
   | blockSet
   |   ruleref
   ;

blockSet
@init {
 enterBlockSet($start);
}
@after {
```

```
 exitBlockSet($start);
}
 : ^(SET setElement+)
 ;

setElement
@init {
 enterSetElement($start);
}
@after {
 exitSetElement($start);
}
 : ^(STRING_LITERAL elementOptions)    {stringRef((TerminalAST)$STRING_LITERAL);}
 | ^(TOKEN_REF elementOptions)   {tokenRef((TerminalAST)$TOKEN_REF);}
 | STRING_LITERAL                  {stringRef((TerminalAST)$STRING_LITERAL);}
 | TOKEN_REF                    {tokenRef((TerminalAST)$TOKEN_REF);}
 | ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  {
  stringRef((TerminalAST)$a);
  stringRef((TerminalAST)$b);
  }
      |      LEXER_CHAR_SET
 ;

block
@init {
 enterBlock($start);
}
@after {
 exitBlock($start);
}
   : ^(BLOCK optionsSpec? ruleAction* ACTION? alternative+)
   ;

ruleref
@init {
 enterRuleref($start);
}
@after {
 exitRuleref($start);
}
   : ^(RULE_REF arg=ARG_ACTION? elementOptions?)
    {
    ruleRef($RULE_REF, (ActionAST)$ARG_ACTION);
    if ( $arg!=null ) actionInAlt((ActionAST)$arg);
    }
   ;
```

```
range
@init {
 enterRange($start);
}
@after {
 exitRange($start);
}
   : ^(RANGE STRING_LITERAL STRING_LITERAL)
   ;

terminal
@init {
 enterTerminal($start);
}
@after {
 exitTerminal($start);
}
   :  ^(STRING_LITERAL elementOptions)
          {stringRef((TerminalAST)$STRING_LITERAL);}
   | STRING_LITERAL    {stringRef((TerminalAST)$STRING_LITERAL);}
   | ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
   | TOKEN_REF        {tokenRef((TerminalAST)$TOKEN_REF);}
   ;

elementOptions
@init {
 enterElementOptions($start);
}
@after {
 exitElementOptions($start);
}
   : ^(ELEMENT_OPTIONS elementOption[(GrammarASTWithOptions)$start.getParent()]*)
   ;

elementOption[GrammarASTWithOptions t]
@init {
 enterElementOption($start);
}
@after {
 exitElementOption($start);
}
   : ID        {elementOption(t, $ID, null);}
   |   ^(ASSIGN id=ID v=ID)   {elementOption(t, $id, $v);}
   |   ^(ASSIGN ID v=STRING_LITERAL) {elementOption(t, $ID, $v);}
   |   ^(ASSIGN ID v=ACTION)   {elementOption(t, $ID, $v);}
   |   ^(ASSIGN ID v=INT)    {elementOption(t, $ID, $v);}
   ;
```

Found in path(s):
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/parse/GrammarTreeVisitor.g
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*/
/*
This file contains the actual layout of the messages emitted by ANTLR.
The text itself is coming out of the languages/*stg files, according to the chosen locale.
This file contains the format that mimicks GCC output.
*/

location(file, line, column) ::= "<file>:<line>:<column>:"

message(id, text) ::= "<text> [error <id>]"

report(location, message, type) ::= "<location> <type>: <message>"

wantsSingleLineMessage() ::= "true"

Found in path(s):
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg
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*/

tree grammar BlockSetTransformer;
options {

```
 language     = Java;
 tokenVocab   = ANTLRParser;
 ASTLabelType = GrammarAST;
 output   = AST;
 filter   = true;
}

@header {
package org.antlr.v4.parse;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.List;
import java.util.Set;
import java.util.HashSet;
import java.util.ArrayList;
import org.antlr.v4.runtime.misc.IntervalSet;
}

@members {
public String currentRuleName;
public GrammarAST currentAlt;
public Grammar g;
public BlockSetTransformer(TreeNodeStream input, Grammar g) {
   this(input, new RecognizerSharedState());
   this.g = g;
}
}

topdown
   : ^(RULE (id=TOKEN_REF|id=RULE_REF) {currentRuleName=$id.text;} .+)
   | setAlt
   | ebnfBlockSet
   | blockSet
 ;

setAlt
 : {inContext("RULE BLOCK")}?
  ALT {currentAlt = $start;}
 ;

// (BLOCK (ALT (+ (BLOCK (ALT INT) (ALT ID)))))
ebnfBlockSet
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : ^(ebnfSuffix blockSet) -> ^(ebnfSuffix ^(BLOCK<BlockAST> ^(ALT<AltAST> blockSet)))
```

```
 ;

ebnfSuffix
@after {$tree = (GrammarAST)adaptor.dupNode($start);}
 : OPTIONAL
  | CLOSURE
   | POSITIVE_CLOSURE
 ;

blockSet
@init {
boolean inLexer = Grammar.isTokenName(currentRuleName);
}
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : {inContext("RULE")}? // top-level: rule block and > 1 alt
  ^(BLOCK ^(alt=ALT elementOptions? {((AltAST)$alt).altLabel==null}? setElement[inLexer]) ( ^(ALT
elementOptions? setElement[inLexer]) )+)
  -> ^(BLOCK<BlockAST>[$BLOCK.token] ^(ALT<AltAST>[$BLOCK.token,"ALT"] ^(SET[$BLOCK.token,
"SET"] setElement+)))
 | {!inContext("RULE")}? // if not rule block and > 1 alt
  ^(BLOCK ^(ALT elementOptions? setElement[inLexer]) ( ^(ALT elementOptions? setElement[inLexer]) )+)
  -> ^(SET[$BLOCK.token, "SET"] setElement+)
 ;

setElement[boolean inLexer]
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : ( ^(a=STRING_LITERAL elementOptions) {!inLexer ||
CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
  |   a=STRING_LITERAL {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
  | {!inLexer}?=> ^(TOKEN_REF elementOptions)
  | {!inLexer}?=>   TOKEN_REF
  | {inLexer}?=>  ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
   {CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1 &&
    CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1}?
  )
 ;

elementOptions
 : ^(ELEMENT_OPTIONS elementOption*)
 ;

elementOption
 : ID
 | ^(ASSIGN id=ID v=ID)
```

```
 | ^(ASSIGN ID v=STRING_LITERAL)
 | ^(ASSIGN ID v=ACTION)
 | ^(ASSIGN ID v=INT)
 ;
```

Found in path(s):
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/parse/BlockSetTransformer.g
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*/

dartTypeInitMap ::= [
 "int":"0",
 "double":"0.0",
 "bool":"false",
 default:"null" // anything other than a primitive type is an object
]
```

```
// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
library <file.genPackage>;

import 'package:antlr4/antlr4.dart';
import 'dart:io';

<if(file.genListener)>
part '<file.grammarName>Listener.dart';
part '<file.grammarName>BaseListener.dart';
<endif>
<if(file.genVisitor)>
part '<file.grammarName>Visitor.dart';
part '<file.grammarName>BaseVisitor.dart';
<endif>
part '<file.grammarName>Lexer.dart';
<else>
import 'package:antlr4/antlr4.dart';
import 'dart:io';

<if(file.genListener)>
import '<file.grammarName>Listener.dart';
import '<file.grammarName>BaseListener.dart';
<endif>
<if(file.genVisitor)>
import '<file.grammarName>Visitor.dart';
import '<file.grammarName>BaseVisitor.dart';
<endif>
<endif>

<namedActions.header>
<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
part of <file.genPackage>;
<else>
import 'package:antlr4/antlr4.dart';

import '<file.parserName>.dart';
<endif>
<header>
```

```
/// This abstract class defines a complete listener for a parse tree produced by
/// [<file.parserName>].
abstract class <file.grammarName>Listener extends ParseTreeListener {
<file.listenerNames:{lname |
<if(file.listenerLabelRuleNames.(lname))>
 /// Enter a parse tree produced by the [<lname>]
 /// labeled alternative in [file.parserName>.<file.listenerLabelRuleNames.(lname)>].
<else>
 /// Enter a parse tree produced by [<file.parserName>.<lname>].
<endif>
 /// [ctx] the parse tree
 void enter<lname; format="cap">(<lname; format="cap">Context ctx);
<if(file.listenerLabelRuleNames.(lname))>
 /// Exit a parse tree produced by the [<lname>]
 /// labeled alternative in [<file.parserName>.<file.listenerLabelRuleNames.(lname)>].
<else>
 /// Exit a parse tree produced by [<file.parserName>.<lname>].
<endif>
 /// [ctx] the parse tree
 void exit<lname; format="cap">(<lname; format="cap">Context ctx);}; separator="\n">
}
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
part of <file.genPackage>;
<else>
import 'package:antlr4/antlr4.dart';

import '<file.parserName>.dart';
import '<file.grammarName>Listener.dart';
<endif>

<header>

/// This class provides an empty implementation of [<file.grammarName>Listener],
/// which can be extended to create a listener which only needs to handle
/// a subset of the available methods.
class <file.grammarName>BaseListener implements <file.grammarName>Listener {
<file.listenerNames:{lname |

 /// The default implementation does nothing.
 @override
 void enter<lname; format="cap">(<lname; format="cap">Context ctx) {\}

 /// The default implementation does nothing.
```

```
 @override
 void exit<lname; format="cap">(<lname; format="cap">Context ctx) {\}}; separator="\n">

 /// The default implementation does nothing.
 @override
 void enterEveryRule(ParserRuleContext ctx) {}

 /// The default implementation does nothing.
 @override
 void exitEveryRule(ParserRuleContext ctx) {}

 /// The default implementation does nothing.
 @override
 void visitTerminal(TerminalNode node) {}

 /// The default implementation does nothing.
 @override
 void visitErrorNode(ErrorNode node) {}
}

>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
part of <file.genPackage>;
<else>
import 'package:antlr4/antlr4.dart';

import '<file.parserName>.dart';
<endif>
<header>

/// This abstract class defines a complete generic visitor for a parse tree
/// produced by [<file.parserName>].
///
/// [T] is the eturn type of the visit operation. Use `void` for
/// operations with no return type.
abstract class <file.grammarName>Visitor\<T> extends ParseTreeVisitor\<T> {
 <file.visitorNames:{lname |
<if(file.visitorLabelRuleNames.(lname))>
/// Visit a parse tree produced by the {@code <lname>\}
/// labeled alternative in {@link <file.parserName>#<file.visitorLabelRuleNames.(lname)>\}.
<else>
/// Visit a parse tree produced by [<file.parserName>.<lname>].
<endif>
/// [ctx] the parse tree.
/// Return the visitor result.
```

```
T visit<lname; format="cap">(<lname; format="cap">Context ctx);}; separator="\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
part of <file.genPackage>;
<else>
import 'package:antlr4/antlr4.dart';

import '<file.parserName>.dart';
import '<file.grammarName>Visitor.dart';
<endif>
<header>

/// This class provides an empty implementation of [<file.grammarName>Visitor],
/// which can be extended to create a visitor which only needs to handle
/// a subset of the available methods.
///
/// [T] is the return type of the visit operation. Use `void` for
/// operations with no return type.
class <file.grammarName>BaseVisitor\<T> extends ParseTreeVisitor\<T> implements
<file.grammarName>Visitor\<T> {
 <file.visitorNames:{lname |
/// The default implementation returns the result of calling
/// [visitChildren] on [ctx].
@override
T visit<lname; format="cap">(<lname; format="cap">Context ctx) => visitChildren(ctx);}; separator="\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName> by ANTLR <ANTLRVersion>
// ignore_for_file: unused_import, unused_local_variable, prefer_single_quotes
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(namedActions.definitions)><namedActions.definitions><endif>
const int <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
class <parser.name> extends <superClass; null="Parser"> {
 static final checkVersion = () => RuntimeMetaData.checkVersion('<file.ANTLRVersion>',
RuntimeMetaData.VERSION);
 static const int TOKEN_EOF = IntStream.EOF;
```

```
 static final List\<DFA> _decisionToDFA = List.generate(
     _ATN.numberOfDecisions, (i) => DFA(_ATN.getDecisionState(i), i));
 static final PredictionContextCache _sharedContextCache = PredictionContextCache();
 <if(parser.tokens)>
 static const int <parser.tokens:{k | TOKEN_<k> = <parser.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>

 @override
 final List\<String> ruleNames = [
   <parser.ruleNames:{r | '<r>'}; separator=", ", wrap, anchor>
 ];

 <vocabulary(parser.literalNames, parser.symbolicNames)>

 @override
 String get grammarFileName => '<parser.grammarFileName>';

 @override
 String get serializedATN => _serializedATN;

 @override
 ATN getATN() {
  return _ATN;
 }

 <namedActions.members>
 <parser:(ctor)()>
 <funcs; separator="\n">

<if(sempredFuncs)>
 @override
 bool sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
   switch (ruleIndex) {
   <parser.sempredFuncs.values:{f|
case <f.ruleIndex>:
 return _<f.name>_sempred(_localctx, predIndex);}; separator="\n">
   }
   return true;
 }
 <sempredFuncs.values; separator="\n">
<endif>

 <atn>
}
<funcs:{func | <if(func.ruleCtx)><func.ruleCtx><endif>}; separator="\n\n">

<funcs:{func | <if(func.altLabelCtxs)><func.altLabelCtxs:{l | <func.altLabelCtxs.(l)>};
```

```
separator="\n\n"><endif>}>
>>

vocabulary(literalNames, symbolicNames) ::= <<
static final List\<String> _LITERAL_NAMES = [
   <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
];
static final List\<String> _SYMBOLIC_NAMES = [
   <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
];
static final Vocabulary VOCABULARY = VocabularyImpl(_LITERAL_NAMES, _SYMBOLIC_NAMES);

@override
Vocabulary get vocabulary {
 return VOCABULARY;
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
void action(RuleContext _localctx, int ruleIndex, int actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 _<f.name>_action(_localctx, actionIndex);
 break;}; separator="\n">
 }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
bool sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex>:
 return _<f.name>_sempred(_localctx, predIndex);}; separator="\n">
 }
 return true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
<p.name>(TokenStream input) : super(input) {
 interpreter = ParserATNSimulator(this, _ATN, _decisionToDFA, _sharedContextCache);
}
>>
```

```
/// This generates a private method since the actionIndex is generated, making an
/// overriding implementation impossible to maintain.
RuleActionFunction(r, actions) ::= <<
void _<r.name>_action(<r.ctxType> _localctx, int actionIndex) {
 switch (actionIndex) {
   <actions:{index|case <index>: <actions.(index)> break;}; separator="\n">
 }
}
>>

/// This generates a private method since the predIndex is generated, making an
/// overriding implementation impossible to maintain.
RuleSempredFunction(r, actions) ::= <<
bool _<r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
 switch (predIndex) {
   <actions:{index|case <index>: return <actions.(index)>;}; separator="\n">
 }
 return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else><endif><currentRule.ctxType>
<currentRule.name>(<args; separator=", ">) {
 dynamic _localctx = <currentRule.ctxType>(context, state<currentRule.args:{a | , <a.name>}>);
 enterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
   int _alt;
<endif>
   <code>
   <postamble; separator="\n">
   <namedActions.after>
 } <if(exceptions)> <exceptions; separator="\n"><else>on RecognitionException catch (re) {
   _localctx.exception = re;
   errorHandler.reportError(this, re);
   errorHandler.recover(this, re);
 }<endif> finally {
   <finallyAction>
   exitRule();
 }
 return _localctx;
}
```

```
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<currentRule.ctxType> <currentRule.name>([int _p = 0]<args:{a | , <a>}>) {
 final _parentctx = context;
 final _parentState = state;
 dynamic _localctx = <currentRule.ctxType>(context, _parentState<currentRule.args:{a | , <a.name>}>);
 var _prevctx = _localctx;
 var _startState = <currentRule.startState>;
 enterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
   int _alt;
<endif>
   <code>
   <postamble; separator="\n">
   <namedActions.after>
 } on RecognitionException catch (re) {
   _localctx.exception = re;
   errorHandler.reportError(this, re);
   errorHandler.recover(this, re);
 } finally {
   <finallyAction>
   unrollRecursionContexts(_parentctx);
 }
 return _localctx;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
```

```
state = <choice.stateNumber>;
errorHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = tokenStream.LT(1);<endif>
<preamble; separator="\n">
switch (tokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
 <alt>
 break;}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
state = <choice.stateNumber>;
errorHandler.sync(this);
switch (tokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
 <alt>
 break;}; separator="\n">
default:
 break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
state = <choice.stateNumber>;
errorHandler.sync(this);
<preamble; separator="\n">
if (<expr>) {
 <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
state = <choice.stateNumber>;
errorHandler.sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 state = <choice.loopBackStateNumber>;
 errorHandler.sync(this);
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
```

```
state = <choice.blockStartStateNumber>; <! alt block decision !>
errorHandler.sync(this);
<preamble; separator="\n">
do {
 <alts; separator="\n">
 state = <choice.stateNumber>; <! loopback/exit decision !>
 errorHandler.sync(this);
 <iteration>
} while (<loopExpr>);
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
state = <choice.stateNumber>;
errorHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = tokenStream.LT(1);<endif>
<preamble; separator="\n">
switch (interpreter.adaptivePredict(tokenStream, <choice.decision>, context)) {
<alts:{alt |
case <i>:
 <alt>
 break;}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
state = <choice.stateNumber>;
errorHandler.sync(this);
switch (interpreter.adaptivePredict(tokenStream, <choice.decision>, context)) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
state = <choice.stateNumber>;
errorHandler.sync(this);
_alt = interpreter.adaptivePredict(tokenStream, <choice.decision>, context);
while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER) {
 if (_alt == 1<if(!choice.ast.greedy)> + 1<endif>) {
   <iteration>
   <alts> <! should only be one !>
 }
 state = <choice.loopBackStateNumber>;
 errorHandler.sync(this);
```

```
 _alt = interpreter.adaptivePredict(tokenStream, <choice.decision>, context);
}
>>

PlusBlock(choice, alts, error) ::= <<
state = <choice.blockStartStateNumber>; <! alt block decision !>
errorHandler.sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)> + 1<endif>:
 <alt>
 break;}; separator="\n">
 default:
   <error>
 }
 state = <choice.loopBackStateNumber>; <! loopback/exit decision !>
 errorHandler.sync(this);
 _alt = interpreter.adaptivePredict(tokenStream, <choice.decision>, context);
} while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER);
>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((BigInt.one \<\< <offsetShift(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (BigInt.one \<\< <offsetShift({TOKEN_<ttype>}, bits.shift)>)}; separator=" |
">)) != BigInt.zero)
%>

isZero ::= [
"0":true,
default:false
]
```

```
offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName> == TOKEN_<ttype>}; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{t | case TOKEN_<t>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::=<<
state = <r.stateNumber>;
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif><r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>
);
>>

MatchToken(m) ::= <<
state = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>match(TOKEN_<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
state = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }>tokenStream.LT(1);<endif>
<capture>
if (<if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>)) {
 <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>errorHandler.recoverInline(this);
} else {
 if ( tokenStream.LA(1)==IntStream.EOF ) matchedEOF = true;
 errorHandler.reportMatch(this);
 consume();
}
>>

Wildcard(w) ::= <<
state = <w.stateNumber>;
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>matchWildcard();
>>
```

```
// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
state = <p.stateNumber>;
if (!(<chunks>)) {
 throw FailedPredicateException(this, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>);
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip();"
LexerMoreCommand()  ::= "more();"
LexerPopModeCommand() ::= "popMode();"

LexerTypeCommand(arg, grammar)      ::= "type = <arg>;"
LexerChannelCommand(arg, grammar)   ::= "channel = <arg>;"
LexerModeCommand(arg, grammar)      ::= "mode_ = <arg>;"
LexerPushModeCommand(arg, grammar)  ::= "pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.name>"
LocalRef(a) ::= "_localctx.<a.name>"
RetValueRef(a) ::= "_localctx.<a.name>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>;"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "<ctx(t)>.<t.label>?.text"
TokenPropertyRef_type(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.type : 0"
```

```
TokenPropertyRef_line(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.line : 0"
TokenPropertyRef_pos(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.charPositionInLine : 0"
TokenPropertyRef_channel(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.channel : 0"
TokenPropertyRef_index(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.tokenIndex : 0"
TokenPropertyRef_int(t) ::= "<ctx(t)>.<t.label> != null ? int.parse(<ctx(t)>.<t.label>.text) : 0"

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label>?.start"
RulePropertyRef_stop(r)  ::= "<ctx(r)>.<r.label>?.stop"
RulePropertyRef_text(r)  ::= "(<ctx(r)>.<r.label> != null ? tokenStream.getTextRange(<ctx(r)>.<r.label>.start,
<ctx(r)>.<r.label>.stop) : null)"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.stop"
ThisRulePropertyRef_text(r)  ::= "tokenStream.getTextRange(_localctx.start, tokenStream.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)   ::= "(getInvokingContext(<s.ruleIndex>) as <s.ruleName; format=\"cap\">Context).<s.name>"
SetNonLocalAttr(s, rhsChunks)   ::=
 "(getInvokingContext(<s.ruleIndex>) as <s.ruleName; format=\"cap\">Context).<s.name> = <rhsChunks>;"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType()> <t.name>"
TokenTypeDecl(t) ::= "int <t.name>;"
TokenListDecl(t) ::= "List\<Token> <t.name> = List\<Token>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.name>"
RuleContextListDecl(rdecl) ::= "List\<<rdecl.ctxName>> <rdecl.name> = List\<<rdecl.ctxName>>()"

ContextTokenGetterDecl(t) ::= <<
TerminalNode <t.name>() => getToken(<parser.name>.TOKEN_<t.name>, 0);
>>
ContextTokenListGetterDecl(t)  ::= <<
List\<TerminalNode> <t.name>s() => getTokens(<parser.name>.TOKEN_<t.name>);
>>
ContextTokenListIndexedGetterDecl(t)  ::= <<
TerminalNode <t.name>(int i) => getToken(<parser.name>.TOKEN_<t.name>, i);
>>
ContextRuleGetterDecl(r) ::= <<
<r.ctxName> <r.name>() => getRuleContext\<<r.ctxName>\>(0);
>>
ContextRuleListGetterDecl(r) ::= <<
List\<<r.ctxName>\> <r.name>s() => getRuleContexts\<<r.ctxName>\>();
>>
ContextRuleListIndexedGetterDecl(r) ::= <<
<r.ctxName> <r.name>(int i) => getRuleContext\<<r.ctxName>\>(i);
```

```
>>

LexerRuleContext() ::= "RuleContext"

/// The rule context name is the rule followed by a suffix; e.g.,
/// r becomes rContext.
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = tokenStream.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = tokenStream.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers)
 ::= <<
class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=", "><endif> {
 <attrs:{a | <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <struct.name>([ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>]) : super(parent,
invokingState)<if(struct.ctorAttrs)> {
   <struct.ctorAttrs:{a | this.<a.name> = <a.name>;}; separator="\n">
 }<else>;<endif>

 @override
 int get ruleIndex => RULE_<struct.derivedFromName>;
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 @override
 void copyFrom(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif> ctx) {
   super.copyFrom(ctx);
   <struct.attrs:{a | this.<a.name> = (ctx as <struct.name>).<a.name>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name> extends <struct.parentRule; format="cap">Context {
 <attrs:{a | <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <struct.name>(<struct.parentRule; format="cap">Context ctx) { copyFrom(ctx); }
 <dispatchMethods; separator="\n">
```

```
}
>>

ListenerDispatchMethod(method) ::= <<
@override
void <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener listener) {
 if (listener is <parser.grammarName>Listener)
listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(this);
}
>>

VisitorDispatchMethod(method) ::= <<
@override
T accept\<T>(ParseTreeVisitor\<T> visitor) {
 if (visitor is <parser.grammarName>Visitor\<T>) {
  return visitor.visit<struct.derivedFromName; format="cap">(this);
 } else {
  return visitor.visitChildren(this);
 }
}
>>

AttributeDecl(d) ::= "<d.type> <d.name><if(d.initValue)> = <d.initValue><endif>"

// If we don't know location of label def x, use this template
labelref(x) ::= "<if(!x.isLocal)>_localctx.<endif><x.name>"

// For any action chunk, what is correctly-typed context struct ptr?
ctx(actionChunk) ::= "_localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "precpred(context, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name> = $<src>.<name>;"
recRuleSetStopToken()                ::= "context.stop = tokenStream.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
```

```
_localctx = <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
_parentState));
<if(label)>
<if(isListLabel)>
_localctx.<label>.add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = <ctxName>Context(_localctx);
context = _localctx;
_prevctx = _localctx;
>>

recRuleSetPrevCtx() ::= <<
if (parseListeners != null) triggerExitRuleEvent();
_prevctx = _localctx;
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
part of <lexerFile.genPackage>;
<else>
import 'package:antlr4/antlr4.dart';
<endif>
<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(namedActions.definitions)><namedActions.definitions><endif>

class <lexer.name> extends <superClass; null="Lexer"> {
 static final checkVersion = () => RuntimeMetaData.checkVersion('<lexerFile.ANTLRVersion>',
RuntimeMetaData.VERSION);

 static final List\<DFA> _decisionToDFA = List.generate(
      _ATN.numberOfDecisions, (i) => DFA(_ATN.getDecisionState(i), i));
 static final PredictionContextCache _sharedContextCache = PredictionContextCache();
 <if(lexer.tokens)>
 static const int
```

```
  <lexer.tokens:{k | TOKEN_<k> = <lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(lexer.channels)>
 static const int
  <lexer.channels:{c | <c> = <lexer.channels.(c)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(rest(lexer.modes))>
 static const int
  <rest(lexer.modes):{m | <m> = <i>}; separator=", ", wrap, anchor>;
 <endif>

 @override
 final List\<String> channelNames = [
  'DEFAULT_TOKEN_CHANNEL', 'HIDDEN'<if (lexer.channels)>, <lexer.channels:{c| '<c>'}; separator=", ",
wrap, anchor><endif>
 ];

 @override
 final List\<String> modeNames = [
  <lexer.modes:{m| '<m>'}; separator=", ", wrap, anchor>
 ];

 @override
 final List\<String> ruleNames = [
  <lexer.ruleNames:{r | '<r>'}; separator=", ", wrap, anchor>
 ];

 <vocabulary(lexer.literalNames, lexer.symbolicNames)>

 <namedActions.members>

 <lexer.name>(CharStream input) : super(input) {
  interpreter = LexerATNSimulator(_ATN, _decisionToDFA, _sharedContextCache, recog: this);
 }

 @override
 String get serializedATN => _serializedATN;

 @override
 String get grammarFileName => '<lexer.grammarFileName>';

 @override
 ATN getATN() { return _ATN; }

 <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
 <atn>
}
>>
```

```
SerializedATN(model) ::= <<
<if(rest(model.segments))>
<! requires segmented representation !>
static const int _serializedATNSegments = <length(model.segments)>;
<model.segments:{segment|static final String _serializedATNSegment<i0> =
 '<segment; wrap={'<\n><\t>'}>';}; separator="\n">
static final String _serializedATN = [
   <model.segments:{segment | _serializedATNSegment<i0>}; separator=",\n">
 ].join();
<else>
<! only one segment, can be inlined !>
static const String _serializedATN = '<model.serialized; wrap={'<\n><\t>'}>';
<endif>
static final ATN _ATN =
   ATNDeserializer().deserialize(_serializedATN.codeUnits);
>>

/// Using a type to init value map, try to init a type; if not in table
/// must be an object, default value is "null".
initValue(typeName) ::= <<
<dartTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".dart"
```

Found in path(s):
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/templates/codegen/Dart/Dart.stg
No license file was found, but licenses were detected in source scan.

```
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```

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Found in path(s):
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/parse/ANTLRParser.g
No license file was found, but licenses were detected in source scan.

```
/*
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*  Copyright (c) 2012-2016 Sam Harwell
*  Copyright (c) 2014 Eric Vergnaud
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*
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*  modification, are permitted provided that the following conditions
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*
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*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** ANTLR tool checks output templates are compatible with tool code generation.
*  For now, a simple string match used on x.y of x.y.z scheme.
*  Must match Tool.VERSION during load to templates.
*
*  REQUIRED.
```

```
*/

pythonTypeInitMap ::= [
 "bool":"False",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"None" // anything other than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from io import StringIO
import sys

<namedActions.header>
<parser>

>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

   <file.listenerNames:{lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx):
   pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self, ctx):
   pass

}; separator="\n">

>>


VisitorFile(file, header, namedActions) ::= <<
```

```
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
<header>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

  <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx):
  return self.visitChildren(ctx)

}; separator="\n">

>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
  from .<superClass> import <superClass>
else:
  from <superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

  grammarFileName = "<parser.grammarFileName>"

  atn = ATNDeserializer().deserialize(serializedATN())

  decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

  sharedContextCache = PredictionContextCache()

  literalNames = [ <parser.literalNames:{t | u<t>}; null="u\"\<INVALID>\"", separator=", ", wrap, anchor> ]
```

```
  symbolicNames = [ <parser.symbolicNames:{t | u<t>}; null="u\"\<INVALID>\"", separator=", ", wrap, anchor> ]

  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>

  ruleNames =  [ <parser.ruleNames:{r | u"<r>"}; separator=", ", wrap, anchor> ]

  EOF = <TokenLabelType()>.EOF
  <if(parser.tokens)>
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
  <endif>

  <parser:(ctor)()>

  <namedActions.members>

  <funcs; separator="\n">


<if(sempredFuncs)>
  def sempred(self, localctx, ruleIndex, predIndex):
      if self._predicates == None:
          self._predicates = dict()
<parser.sempredFuncs.values:{f |
      self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n        ">
      pred = self._predicates.get(ruleIndex, None)
      if pred is None:
          raise Exception("No predicate with index:" + str(ruleIndex))
      else:
          return pred(localctx, predIndex)

  <sempredFuncs.values; separator="\n">
<endif>



>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx, ruleIndex, actionIndex):
  if self._actions is None:
      actions = dict()
<recog.actionFuncs.values:{f|
      actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
      self._actions = actions
  action = self._actions.get(ruleIndex, None)
  if action is not None:
      action(localctx, actionIndex)
```

```
  else:
      raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx, ruleIndex, predIndex):
  if self._predicates is None:
      preds = dict()
<recog.sempredFuncs.values:{f|
      preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
      self._predicates = preds
  pred = self._predicates.get(ruleIndex, None)
  if pred is not None:
      return pred(localctx, predIndex)
  else:
      raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
def __init__(self, input, output=sys.stdout):
  super(<parser.name>, self).__init__(input, output=output)
  self.checkVersion("<file.ANTLRVersion>")
  self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
  self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx , actionIndex):
<actions:{index|
<if(first(actions))>
  if actionIndex == <index>:
      <actions.(index)>
<elseif(rest(actions))>
  elif actionIndex == <index>:
      <actions.(index)>
<endif> }; separator="\n">
>>
```

```
/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx, predIndex):
  <actions:{index|
<if(first(actions))>
  if predIndex == <index>:
     return <actions.(index)>
<elseif(rest(actions))>
  elif predIndex == <index>:
     return <actions.(index)>
<endif> }; separator="\n">

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self<currentRule.args:{a | , <a.name>}>):

  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | , <a.name>}>)
  self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
  <namedActions.init>
  <locals; separator="\n">
  try:
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  except RecognitionException as re:
     localctx.exception = re
     self._errHandler.reportError(self, re)
     self._errHandler.recover(self, re)
  <endif>
  finally:
     <finallyAction>
     self.exitRule()
  return localctx

>>
```

```
LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self, _p=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
   _parentctx = self._ctx
   _parentState = self.state
   localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.name>}>)
   _prevctx = localctx
   _startState = <currentRule.startState>
   self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
   <namedActions.init>
   <locals; separator="\n">
   try:
      <code>
      <postamble; separator="\n">
      <namedActions.after>
   except RecognitionException as re:
      localctx.exception = re
      self._errHandler.reportError(self, re)
      self._errHandler.recover(self, re)
   finally:
      <finallyAction>
      self.unrollRecursionContexts(_parentctx)
   return localctx

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
```

```
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  pass}; separator="\nel">
else:
  <error>

>>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  pass}; separator="\nel">
else:
  pass
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
if <expr>:
  <alts; separator="\n">

<!else if ( !(<followExpr>) ) <error>!>
>>


LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
  <alts; separator="\n">
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  <iteration>

>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
```

```
while True:
   <alts; separator="\n">
   self.state = <choice.stateNumber> <! loopback/exit decision !>
   self._errHandler.sync(self)
   <iteration>
   if not (<loopExpr>):
       break

>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i>:
   <alt>
   pass
}; separator="\nel">

>>

OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
   <alt>
}; separator="\nel">

>>

StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
   if _alt==1<if(!choice.ast.greedy)>+1<endif>:
       <iteration>
       <alts> <! should only be one !>
   self.state = <choice.loopBackStateNumber>
   self._errHandler.sync(self)
   _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
```

```
>>

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
   <alts:{alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
   <alt>
}; separator="\nel">
   else:
      <error>
   self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
   self._errHandler.sync(self)
   _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" or ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<\< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<\< <offsetShiftType(ttype, bits.shift)>)}; separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>
```

```
offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<parser.name>.<ttype>}; separator=" or ">
%>

cases(ttypes) ::= <<
if token in [<ttypes:{t | <parser.name>.<t>}; separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>self.<r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChu
nks>)
>>

MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{l |     <labelref(l)> = }><else>    <endif>self._errHandler.recoverInline(self)
else:
   self._errHandler.reportMatch(self)
   self.consume()
>>

Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>self.matchWildcard()
>>

// ACTION STUFF
```

```
Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
   from antlr4.error.Errors import FailedPredicateException
   raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
except <catchArg>:
   <catchAction>
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip()"
LexerMoreCommand()  ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg, grammar)      ::= "_type = <arg>"
LexerChannelCommand(arg, grammar)   ::= "_channel = <arg>"
LexerModeCommand(arg, grammar)      ::= "_mode = <arg>"
LexerPushModeCommand(arg, grammar)  ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValueRef(a) ::= "localctx.<a.name>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type()"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if (<ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
```

```
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)  ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(None if <ctx(r)>.<r.label> is None else
self._input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r)  ::= "localctx.stop"
ThisRulePropertyRef_text(r)  ::= "self._input.getText(localctx.start, self._input.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "localctx"
ThisRulePropertyRef_parser(r)  ::= "self"

NonLocalAttrRef(s)     ::= "self.getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks)  ::= "self.getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.name> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t)      ::= <<
def <t.name>(self):
  return self.getToken(<parser.name>.<t.name>, 0)
>>

// should never be called
ContextTokenListGetterDecl(t)  ::= <<
def <t.name>_list(self):
  return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
def <t.name>(self, i=None):
  if i is None:
     return self.getTokens(<parser.name>.<t.name>)
  else:
     return self.getToken(<parser.name>.<t.name>, i)
>>

ContextRuleGetterDecl(r)       ::= <<
def <r.name>(self):
```

```
  return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)

>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
def <r.name>_list(self):
  return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
def <r.name>(self, i=None):
  if i is None:
     return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
  else:
     return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
*  r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers) ::= <<
class <struct.name>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):

  def __init__(self, parser, parent=None, invokingState=-1<struct.ctorAttrs:{a | , <a.name>=None}>):
     super(<parser.name>.<struct.name>, self).__init__(parent, invokingState)
     self.parser = parser
     <attrs:{a | <a>}; separator="\n">
     <struct.ctorAttrs:{a | self.<a.name> = <a.name>}; separator="\n">

  <getters:{g | <g>}; separator="\n\n">

  def getRuleIndex(self):
     return <parser.name>.RULE_<struct.derivedFromName>
```

```
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
  def copyFrom(self, ctx):
      super(<parser.name>.<struct.name>, self).copyFrom(ctx)
      <struct.attrs:{a | self.<a.name> = ctx.<a.name>}; separator="\n">

<endif>
  <dispatchMethods; separator="\n">
  <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name>(<currentRule.name; format="cap">Context):

  def __init__(self, parser, ctx): # actually a <parser.name>.<currentRule.name; format="cap">Context)
      super(<parser.name>.<struct.name>, self).__init__(parser)
      <attrs:{a | <a>}; separator="\n">
      self.copyFrom(ctx)

  <getters:{g | <g>}; separator="\n">

  <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener):
  if hasattr(listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">"):
      listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor):
  if hasattr(visitor, "visit<struct.derivedFromName; format="cap">"):
      return visitor.visit<struct.derivedFromName; format="cap">(self)
  else:
      return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
```

```
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label) ::= <<
localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>localctx.<label> = _prevctx<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>


recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
   self.triggerExitRuleEvent()
_prevctx = localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from io import StringIO
import sys
```

```
<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
  from .<superClass> import <superClass>
else:
  from <superClass> import <superClass>

<endif>

<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

  atn = ATNDeserializer().deserialize(serializedATN())

  decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

<if(lexer.channels)>
  <lexer.channels:{c| <c> = <lexer.channels.(c)>}; separator="\n">

<endif>
<if(rest(lexer.modes))>
  <rest(lexer.modes):{m| <m> = <i>}; separator="\n">

<endif>
  <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>

  channelNames = [ u"DEFAULT_TOKEN_CHANNEL", u"HIDDEN"<if (lexer.channels)>, <lexer.channels:{c|
u"<c>"}; separator=", ", wrap, anchor><endif> ]

  modeNames = [ <lexer.modes:{m| u"<m>"}; separator=", ", wrap, anchor> ]

  literalNames = [ u"\<INVALID>",
        <lexer.literalNames:{t | u<t>}; separator=", ", wrap, anchor> ]

  symbolicNames = [ u"\<INVALID>",
        <lexer.symbolicNames:{t | u<t>}; separator=", ", wrap, anchor> ]

  ruleNames = [ <lexer.ruleNames:{r | u"<r>"}; separator=", ", wrap, anchor> ]

  grammarFileName = u"<lexer.grammarFileName>"

  def __init__(self, input=None, output=sys.stdout):
```

```
        super(<lexer.name>, self).__init__(input, output=output)
        self.checkVersion("<lexerFile.ANTLRVersion>")
        self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
        self._actions = None
        self._predicates = None

    <namedActions.members>

    <dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

def serializedATN():
    with StringIO() as buf:
        buf.write(u"<model.serialized; wrap={")<\n>        buf.write(u"}>")
        return buf.getvalue()

>>

/** Using a type to init value map, try to init a type; if not in table
*  must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<pythonTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".py"
```

Found in path(s):
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg
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* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/templates/codegen/Cpp/Files.stg
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* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/gui/GraphicsSupport.java
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*/

```
/** How to generate rules derived from left-recursive rules.
*  These rely on recRuleAltPredicate(),
*  recRuleArg(), recRuleSetResultAction(), recRuleSetReturnAction()
*  templates in main language.stg
*/
group LeftRecursiveRules;

recRule(ruleName, argName, primaryAlts, opAlts, setResultAction,
      userRetvals, leftRecursiveRuleRefLabels) ::=
<<
<ruleName><if(userRetvals)> returns [<userRetvals>]<endif>
  :   ( {} <primaryAlts:{alt | <alt.altText> }; separator="\n        | ">
      )
      (
        <opAlts; separator="\n        | ">
      )*
  ;
>>

recRuleAlt(alt, precOption, opPrec, pred) ::= <<
{<pred>}?\<<precOption>=<opPrec>\> <alt.altText>
>>
```

Found in path(s):
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg
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*/
/*
This file contains the actual layout of the messages emitted by ANTLR.
The text itself is coming out of the languages/*stg files, according to the chosen locale.
This file contains the default format ANTLR uses.
*/

location(file, line, column) ::= "<file>(<line>,<column>)"

message(id, text) ::= "error <id> : <text>"

report(location, message, type) ::= "<location> : <type> <message.id> : <message.text>"

wantsSingleLineMessage() ::= "true"

Found in path(s):
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/templates/messages/formats/vs2005.stg
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* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_type.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/semantics/SemanticPipeline.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/Attribute.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/model/LL1Loop.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/ast/RuleRefAST.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/DefaultToolListener.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_parser.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/semantics/AttributeChecks.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/DOTGenerator.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-

jar/org/antlr/v4/codegen/model/chunk/NonLocalAttrRef.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/model/Lexer.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-
jar/org/antlr/v4/tool/LeftRecursionCyclesMessage.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-
jar/org/antlr/v4/codegen/DefaultOutputModelFactory.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/target/GoTarget.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/model/SrcOp.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-
jar/org/antlr/v4/tool/GrammarTransformPipeline.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-
jar/org/antlr/v4/automata/ParserATNFactory.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-
jar/org/antlr/v4/codegen/model/decl/StructDecl.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/model/AltBlock.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-
jar/org/antlr/v4/codegen/model/AddToLabelList.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-
jar/org/antlr/v4/parse/v3TreeGrammarException.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-
jar/org/antlr/v4/codegen/model/chunk/LocalRef.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-
jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_stop.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-
jar/org/antlr/v4/semantics/SymbolChecks.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/parse/ScopeParser.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-
jar/org/antlr/v4/unicode/UnicodeDataTemplateController.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-
jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-
jar/org/antlr/v4/codegen/model/LexerFile.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-
jar/org/antlr/v4/tool/GrammarInterpreterRuleContext.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-
jar/org/antlr/v4/codegen/model/Recognizer.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-
jar/org/antlr/v4/codegen/model/ListenerFile.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-
jar/org/antlr/v4/codegen/model/VisitorDispatchMethod.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-
jar/org/antlr/v4/codegen/model/decl/ContextGetterDecl.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/parse/TokenVocabParser.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-
jar/org/antlr/v4/automata/LexerATNFactory.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-
jar/org/antlr/v4/codegen/model/chunk/SetNonLocalAttr.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/model/MatchSet.java

* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/model/CaptureNextTokenType.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/model/CaptureNextToken.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/model/OutputModelObject.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/AttributeDict.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/analysis/LeftRecursiveRuleTransformer.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/ast/StarBlockAST.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/misc/Utils.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/model/InvokeRule.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/model/DispatchMethod.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/misc/CharSupport.java
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* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/GrammarSyntaxMessage.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/target/Python3Target.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/model/SemPred.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/target/JavaScriptTarget.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/model/chunk/ArgRef.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/model/SerializedATN.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/misc/Graph.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/model/LeftRecursiveRuleFunction.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/model/chunk/LabelRef.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/automata/TailEpsilonRemover.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/ast/NotAST.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/parse/ResyncToEndOfRuleBlock.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/model/decl/TokenTypeDecl.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/target/CppTarget.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/model/decl/ContextRuleListIndexedGetterDecl.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/ast/TerminalAST.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/analysis/LeftRecursiveRuleAltInfo.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/model/Parser.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/target/PHPTarget.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/ANTLRMessage.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/model/VisitorFile.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_ctx.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/model/OutputFile.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/ast/BlockAST.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-

jar/org/antlr/v4/codegen/model/ModelElement.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/GrammarParserInterpreter.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_text.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/gui/TreeTextProvider.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/CodeGeneratorExtension.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/parse/ToolANTLRParser.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/model/decl/TokenDecl.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/target/CSharpTarget.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/ast/GrammarASTWithOptions.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/gui/BasicFontMetrics.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/analysis/LeftRecursiveRuleAnalyzer.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/model/Sync.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/codegen/model/chunk/ActionTemplate.java
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/AttributeResolver.java
No license file was found, but licenses were detected in source scan.

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*/

// File      : A3Lexer.g
// Author    : Jim Idle (jimi@temporal-wave.com)
// Copyright : Free BSD - See @header clause below
// Version   : First implemented as part of ANTLR 3.2 this is the self
//             hosting ANTLR 3 Lexer.
//
// Description
// -----------
// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other
// gramnmars are derived from this grammar via source code control integration (perforce)
// or by the gdiff tool.
//
// This grammar and its associated grmmmars A3Parser.g and A3Walker.g exhibit the following
// traits, which are recommended for all production quality grammars:
//
// 1) They are separate grammars, not composite grammars;
// 2) They implement all supporting methods in a superclass (at least this is recommended
//    for language targets that support inheritence;
// 3) All errors are pushed as far down the parsing chain as possible, which means
//    that the lexer tries to defer error reporting to the parser, and the parser
//    tries to defer error reporting to a semantic phase consisting of a single
//    walk of the AST. The reason for this is that the error messages produced
//    from later phases of the parse will generally have better context and so
//    be more useful to the end user. Consider the message: "Syntax error at 'options'"
//    vs: "You cannot specify two options{} sections in a single grammar file".
// 4) The lexer is 'programmed' to catch common mistakes such as unterminated literals
//    and report them specifically and not just issue confusing lexer mismatch errors.
//

/** Read in an ANTLR grammar and build an AST.  Try not to do
*  any actions, just build the tree.
*
*  The phases are:
*
*  A3Lexer.g (this file)
*            A3Parser.g
*            A3Verify.g (derived from A3Walker.g)
*  assign.types.g
*  define.g
*  buildnfa.g
*  antlr.print.g (optional)
*  codegen.g
```

```
*
*  Terence Parr
*  University of San Francisco
*  2005
*  Jim Idle (this v3 grammar)
*  Temporal Wave LLC
*  2009
*/
lexer grammar ANTLRLexer;

// ==============================================================================
// Note that while this grammar does not care about order of constructs
// that don't really matter, such as options before @header etc, it must first
// be parsed by the original v2 parser, before it replaces it. That parser does
// care about order of structures. Hence we are constrained by the v2 parser
// for at least the first bootstrap release that causes this parser to replace
// the v2 version.
// ==============================================================================

// -------
// Options
//
// V3 option directives to tell the tool what we are asking of it for this
// grammar.
//
options {

 // Target language is Java, which is the default but being specific
 // here as this grammar is also meant as a good example grammar for
 // for users.
 //
 language      = Java;

 // The super class that this lexer should expect to inherit from, and
 // which contains any and all support routines for the lexer. This is
 // commented out in this baseline (definitive or normative grammar)
 // - see the ANTLR tool implementation for hints on how to use the super
 //   class
 //
 //superclass    = AbstractA3Lexer;
}

tokens { SEMPRED; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }

// Include the copyright in this source and also the generated source
//
@lexer::header {
/*
```

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*/

```
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.runtime.misc.Interval;
}


@members {
 public static final int COMMENTS_CHANNEL = 2;

   public CommonTokenStream tokens; // track stream we push to; need for context info
   public boolean isLexerRule = false;

 public void grammarError(ErrorType etype, org.antlr.runtime.Token token, Object... args) { }

 /** scan backwards from current point in this.tokens list
  *  looking for the start of the rule or subrule.
  *  Return token or null if for some reason we can't find the start.
  */
 public Token getRuleOrSubruleStartToken() {
     if ( tokens==null ) return null;
  int i = tokens.index();
       int n = tokens.size();
```

```
      if ( i>=n ) i = n-1; // seems index == n as we lex
  while ( i>=0 && i<n) {
   int ttype = tokens.get(i).getType();
   if ( ttype == LPAREN || ttype == TOKEN_REF || ttype == RULE_REF ) {
    return tokens.get(i);
   }
   i--;
  }
  return null;
 }
}

// --------
// Comments
//
// ANTLR comments can be multi or single line and we don't care
// which particularly. However we also accept Javadoc style comments
// of the form: /** ... */ and we do take care to distinguish those
// from ordinary multi-line comments
// Note how we guide the lexical PATH because we want to issue a decriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We alo trap unterminated multi-line comments
//
fragment DOC_COMMENT : ;
COMMENT
@init {

 // Record the start line and offsets as if we need to report an
 // unterminated comment, then we want to show the start of the comment
 // we think is broken, not the end, where people will have to try and work
 // it out themselves.
 //
 int startLine = $line;
 int offset    = getCharPositionInLine();
}
   : // Eat the first character only, then see if we have a comment
     // or something silly.
     //
     '/'  // Comment introducer

     (
         // Single line comment, possibly with embedded src/line directives
         // in a similar style to the C pre-processor, allowing generated
         // code to refer the programmer back to the original source code
         // in case of error.
         //
         '/'
           (
```

```
        (' $ANTLR')=> ' $ANTLR' SRC
      | ~(NLCHARS)*
     )

    | // Multi-line comment, which may be a documentation comment
      // if it starts /** (note that we protect against accidentaly
      // recognizing a comment /**/ as a documentation comment
      //
      '*' (
        { input.LA(2) != '/'}?=> '*' { $type = DOC_COMMENT; }
      | { true }?=>  // Required to cover all alts with predicates
       )

       // Should we support embedded multiline comments here?
       //
       (
          // Pick out end of multiline comment and exit the loop
          // if we find it.
          //
          {    !(input.LA(1) == '*' && input.LA(2) == '/') }?

           // Anything else other than the non-greedy match of
           // the comment close sequence
           //
           .
       )*
     (
          // Look for the comment terminator, but if it is accidentally
          // unterminated, then we will hit EOF, which will trigger the
          // epsilon alt and hence we can issue an error message relative
          // to the start of the unterminated multi-line comment
          //
          '*/'

       | // Unterminated comment!
          //
          {
           // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,
offset, $pos, (Object)null);
          }
     )

    | // There was nothing that made sense following the opening '/' and so
      // we issue an error regarding the malformed comment
      //
      {
       // TODO: Insert error message relative to comment start
       //
```

```
        }
      )
      {
        // We do not wish to pass the comments in to the parser. If you are
        // writing a formatter then you will want to preserve the comments off
        // channel, but could just skip and save token space if not.
        //
        $channel=COMMENTS_CHANNEL;
      }
  ;

ARG_OR_CHARSET
options {k=1;}
  :   {isLexerRule}?=> LEXER_CHAR_SET {$type=LEXER_CHAR_SET;}
  |   {!isLexerRule}?=> ARG_ACTION
      {
      $type=ARG_ACTION;
      // Set the token text to our gathered string minus outer [ ]
      String t = $text;
      t = t.substring(1,t.length()-1);
      setText(t);
      }
  ;

fragment
LEXER_CHAR_SET
 : '['
  ( '\\' ~('\r'|'\n')
  | ~('\r'|'\n'|'\\'|']')
  )*
  ']'
 ;

// --------------
// Argument specs
//
// Certain argument lists, such as those specifying call parameters
// to a rule invocation, or input parameters to a rule specification
// are contained within square brackets. In the lexer we consume them
// all at once and sort them out later in the grammar analysis.
//
fragment
ARG_ACTION
 : '['
       (
          ARG_ACTION

        | ('")=>ACTION_STRING_LITERAL
```

```
        | ('\'')=>ACTION_CHAR_LITERAL

        | ~(']')
    )*

    ']'
 ;

// -------
// Actions
//
// Other than making sure to distinguish between { and } embedded
// within what we have assumed to be literals in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by {}) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting {} is no additional overhead.
//
ACTION
 : NESTED_ACTION
  ( '?' {$type = SEMPRED;}
   ( (WSNLCHARS* '=>') => WSNLCHARS* '=>' // v3 gated sempred
    {
    Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.setCharPositionInLine(state.tokenStartCharPositionInLine);
    grammarError(ErrorType.V3_GATED_SEMPRED, t);
    }
   )?
  )?
 ;

// ----------------
// Action structure
//
// Many language targets use {} as block delimiters and so we
// must recursively match {} delimited blocks to balance the
// braces. Additionally, we must make some assumptions about
// literal string representation in the target language. We assume
// that they are delimited by ' or " and so consume these
// in their own alts so as not to inadvertantly match {}.
// This rule calls itself on matching a {
//
fragment
NESTED_ACTION
```

```
@init {

 // Record the start line and offsets as if we need to report an
 // unterminated block, then we want to show the start of the comment
 // we think is broken, not the end, where people will have to try and work
 // it out themselves.
 //
 int startLine = getLine();
 int offset    = getCharPositionInLine();
}

  : // Action and other blocks start with opening {
    //
  '{'
    (
    // And now we can match one of a number of embedded
    // elements within the action until we find a
    // } that balances the opening {. If we do not find
    // the balanced } then we will hit EOF and can issue
    // an error message about the brace that we belive to
    // be mismatched. This won't be foolproof but we will
    // be able to at least report an error against the
    // opening brace that we feel is in error and this will
    // guide the user to the correction as best we can.
    //


      // An embedded {} block
     //
     NESTED_ACTION

     | // What appears to be a literal
      //
      ACTION_CHAR_LITERAL

     | // We have assumed that the target language has C/Java
      // type comments.
      //
      COMMENT

     | // What appears to be a literal
      //
      ACTION_STRING_LITERAL

    | // What appears to be an escape sequence
     //
     ACTION_ESC
```

```
    | // Some other single character that is not
      // handled above
      //
      ~('\\'|'"'|'\"'|'/'|'{'|'}')

    )*

 (
    // Correctly balanced closing brace
    //
    '}'

  | // Looks like have an imblanced {} block, report
    // with respect to the opening brace.
    //
    {
        // TODO: Report imbalanced {}
        System.out.println("Block starting  at line " + startLine + " offset " + (offset+1) + " contains imbalanced {} or
is missing a }");
    }
 )
  ;


// Keywords
// --------
// keywords used to specify ANTLR v3 grammars. Keywords may not be used as
// labels for rules or in any other context where they would be ambiguous
// with the keyword vs some other identifier
// OPTIONS, TOKENS, and CHANNELS must also consume the opening brace that captures
// their option block, as this is the easiest way to parse it separate
// to an ACTION block, despite it using the same {} delimiters.
//
OPTIONS      : 'options'  WSNLCHARS* '{'  ;
TOKENS_SPEC  : 'tokens'   WSNLCHARS* '{'  ;
CHANNELS     : 'channels' WSNLCHARS* '{'  ;

IMPORT       : 'import'               ;
FRAGMENT     : 'fragment'             ;
LEXER        : 'lexer'                ;
PARSER       : 'parser'               ;
GRAMMAR      : 'grammar'              ;
TREE_GRAMMAR : 'tree' WSNLCHARS* 'grammar' ;
PROTECTED    : 'protected'            ;
PUBLIC       : 'public'               ;
PRIVATE      : 'private'              ;
RETURNS      : 'returns'              ;
LOCALS       : 'locals'               ;
```

```
THROWS       : 'throws'              ;
CATCH        : 'catch'               ;
FINALLY      : 'finally'             ;
MODE         : 'mode'                ;

// -----------
// Punctuation
//
// Character sequences used as separators, delimters, operators, etc
//
COLON        : ':'
            {
            // scan backwards, looking for a RULE_REF or TOKEN_REF.
            // which would indicate the start of a rule definition.
            // If we see a LPAREN, then it's the start of the subrule.
            // this.tokens is the token string we are pushing into, so
            // just loop backwards looking for a rule definition. Then
            // we set isLexerRule.
            Token t = getRuleOrSubruleStartToken();
            if ( t!=null ) {
                if ( t.getType()==RULE_REF ) isLexerRule = false;
                else if ( t.getType()==TOKEN_REF ) isLexerRule = true;
                // else must be subrule; don't alter context
            }
            }
          ;
COLONCOLON   : '::'                  ;
COMMA        : ','                   ;
SEMI         : ';'                   ;
LPAREN       : '('                   ;
RPAREN       : ')'                   ;
RARROW       : '->'                  ;
LT           : '<'                   ;
GT           : '>'                   ;
ASSIGN       : '='                   ;
QUESTION     : '?'                   ;
SYNPRED      : '=>'
     {
      Token t = new CommonToken(input, state.type, state.channel,
                              state.tokenStartCharIndex, getCharIndex()-1);
   t.setLine(state.tokenStartLine);
   t.setText(state.text);
   t.setCharPositionInLine(state.tokenStartCharPositionInLine);
   grammarError(ErrorType.V3_SYNPRED, t);
            $channel=HIDDEN;
   }
          ;
STAR         : '*'                   ;
```

```
PLUS        : '+'                   ;
PLUS_ASSIGN  : '+='                 ;
OR          : '|'                   ;
DOLLAR      : '$'                   ;
DOT       : '.'                   ; // can be WILDCARD or DOT in qid or imported rule ref
RANGE       : '..'                  ;
AT          : '@'                   ;
POUND       : '#'                   ;
NOT         : '~'                   ;
RBRACE      : '}'                   ;

/** Allow unicode rule/token names */
ID   : a=NameStartChar NameChar*
    {
    if ( Grammar.isTokenName($a.text) ) $type = TOKEN_REF;
    else $type = RULE_REF;
    }
   ;

fragment
NameChar    :   NameStartChar
          |   '0'..'9'
          |   '_'
          |   '\u00B7'
          |   '\u0300'..'\u036F'
          |   '\u203F'..'\u2040'
          ;

fragment
NameStartChar
          :   'A'..'Z' | 'a'..'z'
          |   '\u00C0'..'\u00D6'
          |   '\u00D8'..'\u00F6'
          |   '\u00F8'..'\u02FF'
          |   '\u0370'..'\u037D'
          |   '\u037F'..'\u1FFF'
          |   '\u200C'..'\u200D'
          |   '\u2070'..'\u218F'
          |   '\u2C00'..'\u2FEF'
          |   '\u3001'..'\uD7FF'
          |   '\uF900'..'\uFDCF'
          |   '\uFDF0'..'\uFEFE'
          |   '\uFF00'..'\uFFFD'
          ; // ignores | ['\u10000-'\uEFFFF] ;

// ----------------------------
// Literals embedded in actions
//
```

```
// Note that we have made the assumption that the language used within
// actions uses the fairly standard '' and ' delimiters for literals and
// that within these literals, characters are escaped using the \ character.
// There are some languages which do not conform to this in all cases, such
// as by using /string/ and so on. We will have to deal with such cases if
// if they come up in targets.
//

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal characters. Within these, we do
// not want to inadvertantly match things like '}' and so we eat them
// specifically. While this rule is called CHAR it allows for the fact that
// some languages may use/allow ' as the string delimiter.
//
fragment
ACTION_CHAR_LITERAL
 : '\'' (('\\')=>ACTION_ESC | ~'\'' )* '\''
 ;

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal strings. Within these, we do
// not want to inadvertantly match things like '}' and so we eat them
// specifically.
//
fragment
ACTION_STRING_LITERAL
 : '"' (('\\')=>ACTION_ESC | ~'")* '"'
 ;

// Within literal strings and characters that are not part of the ANTLR
// syntax, we must allow for escaped character sequences so that we do not
// inadvertantly recognize the end of a string or character when the terminating
// delimiter has been esacped.
//
fragment
ACTION_ESC
 : '\\' .
 ;

// -------
// Integer
//
// Obviously (I hope) match an aribtrary long sequence of digits.
//
INT : ('0'..'9')+
   ;

// -----------
```

```
// Source spec
//
// A fragment rule for picking up information about an origrinating
// file from which the grammar we are parsing has been generated. This allows
// ANTLR to report errors against the originating file and not the generated
// file.
//
fragment
SRC : 'src' WSCHARS+ file=ACTION_STRING_LITERAL WSCHARS+ line=INT
    {
      // TODO: Add target specific code to change the source file name and current line number
      //
    }
  ;

// --------------
// Literal string
//
// ANTLR makes no disticintion between a single character literal and a
// multi-character string. All literals are single quote delimited and
// may contain unicode escape sequences of the form \uxxxx or \u{xxxxxx},
// where x is a valid hexadecimal number.
STRING_LITERAL
  :  '\'' ( ( ESC_SEQ | ~('\\'|'\'"|'\r'|'\n') ) )*
    (    '\'"
    |    // Unterminated string literal
         {
         Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
         t.setLine(state.tokenStartLine);
         t.setText(state.text);
         t.setCharPositionInLine(state.tokenStartCharPositionInLine);
         grammarError(ErrorType.UNTERMINATED_STRING_LITERAL, t);
         }
    )
  ;

// A valid hex digit specification
//
fragment
HEX_DIGIT : ('0'..'9'|'a'..'f'|'A'..'F') ;

// Any kind of escaped character that we can embed within ANTLR
// literal strings.
//
fragment
ESC_SEQ
  : '\\'
     (
```

```
            // The standard escaped character set such as tab, newline, etc...
        'b'|'t'|'n'|'f'|'r'|'\''|'\\'

        | // A Java style Unicode escape sequence
          UNICODE_ESC

           | // A Swift/Hack style Unicode escape sequence
            UNICODE_EXTENDED_ESC

        | // An illegal escape seqeunce
          ~('b'|'t'|'n'|'f'|'r'|'\''|'\\'|'u') // \x for any invalid x (make sure to match char here)
          {
              Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-2, getCharIndex()-1);
              t.setText(t.getText());
              t.setLine(input.getLine());
              t.setCharPositionInLine(input.getCharPositionInLine()-2);
              grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, input.substring(getCharIndex()-
2,getCharIndex()-1));
          }
        )
    ;

fragment
UNICODE_ESC
@init {

 // Flag to tell us whether we have a valid number of
 // hex digits in the escape sequence
 //
 int hCount = 0;
}
    :   'u' // Leadin for unicode escape sequence

        // We now require 4 hex digits. Note though
        // that we accept any number of characters
        // and issue an error if we do not get 4. We cannot
        // use an inifinite count such as + because this
        // might consume too many, so we lay out the lexical
        // options and issue an error at the invalid paths.
        //
    (
        (
          HEX_DIGIT  { hCount++; }
            (
                HEX_DIGIT  { hCount++; }
              (
                  HEX_DIGIT  { hCount++; }
                  (
```

```
                    // Four valid hex digits, we are good
                    //
                    HEX_DIGIT { hCount++; }

                  | // Three valid digits
                 )

               | // Two valid digits
              )

            | // One valid digit
        )
          )
        | // No valid hex digits at all
    )

    // Now check the digit count and issue an error if we need to
    //
    {
     if (hCount < 4) {
    Interval badRange = Interval.of(getCharIndex()-2-hCount, getCharIndex());
    String lastChar = input.substring(badRange.b, badRange.b);
    if ( lastChar.codePointAt(0)=='\' ) {
     badRange.b--;
    }
    String bad = input.substring(badRange.a, badRange.b);
    Token t = new CommonToken(input, state.type, state.channel, badRange.a, badRange.b);
    t.setLine(input.getLine());
    t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
    grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, bad);
     }
    }
   ;

fragment
UNICODE_EXTENDED_ESC
   :   'u{' // Leadin for unicode extended escape sequence

       HEX_DIGIT+ // One or more hexadecimal digits

       '}' // Leadout for unicode extended escape sequence

       // Now check the digit count and issue an error if we need to
       {
          int numDigits = getCharIndex()-state.tokenStartCharIndex-6;
          if (numDigits > 6) {
             Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-
1);
```

```
            t.setText(t.getText());
            t.setLine(input.getLine());
            t.setCharPositionInLine(input.getCharPositionInLine()-numDigits);
            grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t,
input.substring(state.tokenStartCharIndex,getCharIndex()-1));
  }
      }
  ;

// ----------
// Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS
  : (
    ' '
     | '\t'
     | '\r'
     | '\n'
     | '\f'
    )+
    {$channel=HIDDEN;}
  ;

// A fragment rule for use in recognizing end of line in
// rules like COMMENT.
//
fragment
NLCHARS
  : '\n' | '\r'
  ;

// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.
//
fragment
WSCHARS
  : ' ' | '\t' | '\f'
  ;

// A fragment rule for recognizing both traditional whitespace and
// end of line markers, when we don't care to distinguish but don't
// want any action code going on.
//
fragment
```

```
WSNLCHARS
  : ' ' | '\t' | '\f' | '\n' | '\r'
  ;

// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a
// byte order mark. Since this Unicode character doesn't appear as a token
// anywhere else in the grammar, we can simply skip all instances of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
// STRING_LITERAL.
UnicodeBOM
  :   '\uFEFF' {skip();}
  ;

// -----------------
// Illegal Character
//
// This is an illegal character trap which is always the last rule in the
// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the grammar file anyway
// but we will not try to analyse or code generate from a file with lexical
// errors.
//
ERRCHAR
  : .
    {
      Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
      t.setLine(state.tokenStartLine);
      t.setText(state.text);
      t.setCharPositionInLine(state.tokenStartCharPositionInLine);
      String msg = getTokenErrorDisplay(t) + " came as a complete surprise to me";
      grammarError(ErrorType.SYNTAX_ERROR, t, msg);
      state.syntaxErrors++;
      skip();
    }
  ;
```

Found in path(s):
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/parse/ANTLRLexer.g
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*/

tree grammar ATNBuilder;
options {
 language     = Java;
 tokenVocab   = ANTLRParser;
 ASTLabelType = GrammarAST;
// filter       = true;
}

// Include the copyright in this source and also the generated source
@header {
/*
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*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import org.antlr.v4.automata.ATNFactory;
}

@members {
  ATNFactory factory;
  public ATNBuilder(TreeNodeStream input, ATNFactory factory) {
   this(input);
   this.factory = factory;
  }
}

dummy : block[null] ; // avoid error about no start rule

ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {
  List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();
  int alt = 1;
  factory.setCurrentOuterAlt(alt);
}
  : ^(BLOCK
        (^(OPTIONS .*))?
        (   a=alternative
            {alts.add($a.p); factory.setCurrentOuterAlt(++alt);}
        )+
     )
   {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
  ;

block[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();}
  : ^(BLOCK (^(OPTIONS .*))? (a=alternative {alts.add($a.p);})+)
   {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
  ;
```

```
alternative returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> els = new ArrayList<ATNFactory.Handle>();}
  : ^(LEXER_ALT_ACTION a=alternative lexerCommands)
      {$p = factory.lexerAltCommands($a.p,$lexerCommands.p);}
  | ^(ALT elementOptions? EPSILON)       {$p = factory.epsilon($EPSILON);}
  |   ^(ALT elementOptions? (e=element {els.add($e.p);})+) {$p = factory.alt(els);}
  ;

lexerCommands returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> cmds = new ArrayList<ATNFactory.Handle>();}
  :   (c=lexerCommand {if ($c.cmd != null) cmds.add($c.cmd);})+
      {
      $p = factory.alt(cmds);
      }
  ;

lexerCommand returns [ATNFactory.Handle cmd]
 : ^(LEXER_ACTION_CALL ID lexerCommandExpr)
      {$cmd = factory.lexerCallCommand($ID, $lexerCommandExpr.start);}
 | ID
      {$cmd = factory.lexerCommand($ID);}
 ;

lexerCommandExpr
 : ID
 | INT
 ;

element returns [ATNFactory.Handle p]
 : labeledElement    {$p = $labeledElement.p;}
 | atom      {$p = $atom.p;}
 | subrule      {$p = $subrule.p;}
 |   ACTION      {$p = factory.action((ActionAST)$ACTION);}
 |   SEMPRED      {$p = factory.sempred((PredAST)$SEMPRED);}
 |   ^(ACTION .)     {$p = factory.action((ActionAST)$ACTION);}
 |   ^(SEMPRED .)    {$p = factory.sempred((PredAST)$SEMPRED);}
  | ^(NOT b=blockSet[true])  {$p = $b.p;}
  | LEXER_CHAR_SET    {$p = factory.charSetLiteral($start);}
 ;

astOperand returns [ATNFactory.Handle p]
 : atom      {$p = $atom.p;}
 | ^(NOT blockSet[true])  {$p = $blockSet.p;}
 ;

labeledElement returns [ATNFactory.Handle p]
 : ^(ASSIGN ID element)     {$p = factory.label($element.p);}
 | ^(PLUS_ASSIGN ID element)   {$p = factory.listLabel($element.p);}
```

```
 ;

subrule returns [ATNFactory.Handle p]
 : ^(OPTIONAL block[$start])   {$p = $block.p;}
 | ^(CLOSURE block[$start])   {$p = $block.p;}
 | ^(POSITIVE_CLOSURE block[$start]) {$p = $block.p;}
 |  block[null]       {$p = $block.p;}
   ;

blockSet[boolean invert] returns [ATNFactory.Handle p]
@init {List<GrammarAST> alts = new ArrayList<GrammarAST>();}
 : ^(SET (setElement {alts.add($setElement.start);})+) {$p = factory.set($start, alts, $invert);}
 ;

/** Don't combine with atom otherwise it will build spurious ATN nodes */
setElement
 : ^(STRING_LITERAL .)
 | ^(TOKEN_REF .)
 | STRING_LITERAL
 | TOKEN_REF
 | ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
   |   LEXER_CHAR_SET
 ;

atom returns [ATNFactory.Handle p]
 : range     {$p = $range.p;}
 | ^(DOT ID terminal)  {$p = $terminal.p;}
 | ^(DOT ID ruleref)  {$p = $ruleref.p;}
   | ^(WILDCARD .)   {$p = factory.wildcard($start);}
   | WILDCARD    {$p = factory.wildcard($start);}
   | blockSet[false]   {$p = $blockSet.p;}
   |   terminal    {$p = $terminal.p;}
   |   ruleref     {$p = $ruleref.p;}
   ;

ruleref returns [ATNFactory.Handle p]
   : ^(RULE_REF ARG_ACTION? ^(ELEMENT_OPTIONS .*))  {$p = factory.ruleRef($RULE_REF);}
   | ^(RULE_REF ARG_ACTION?)        {$p = factory.ruleRef($RULE_REF);}
   | RULE_REF           {$p = factory.ruleRef($RULE_REF);}
   ;

range returns [ATNFactory.Handle p]
   : ^(RANGE a=STRING_LITERAL b=STRING_LITERAL) {$p = factory.range($a,$b);}
   ;

terminal returns [ATNFactory.Handle p]
   :  ^(STRING_LITERAL .)   {$p = factory.stringLiteral((TerminalAST)$start);}
   | STRING_LITERAL    {$p = factory.stringLiteral((TerminalAST)$start);}
```

```
  | ^(TOKEN_REF ARG_ACTION .) {$p = factory.tokenRef((TerminalAST)$start);}
  | ^(TOKEN_REF .)    {$p = factory.tokenRef((TerminalAST)$start);}
  | TOKEN_REF     {$p = factory.tokenRef((TerminalAST)$start);}
  ;

elementOptions
 : ^(ELEMENT_OPTIONS elementOption*)
 ;

elementOption
 : ID
 | ^(ASSIGN ID ID)
 | ^(ASSIGN ID STRING_LITERAL)
 | ^(ASSIGN ID ACTION)
 | ^(ASSIGN ID INT)
 ;
```

Found in path(s):
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/parse/ATNBuilder.g
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```
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*/

/** ANTLR tool checks output templates are compatible with tool code generation.
*  For now, a simple string match used on x.y of x.y.z scheme.
*  Must match Tool.VERSION during load to templates.
*
*  REQUIRED.
*/

javascriptTypeInitMap ::= [
 "bool":"false",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"{}" // anything other than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';
<if(file.genListener)>
import <file.grammarName>Listener from './<file.grammarName>Listener.js';
<endif>
<if(file.genVisitor)>
import <file.grammarName>Visitor from './<file.grammarName>Visitor.js';
<endif>

<namedActions.header>
<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';

// This class defines a complete listener for a parse tree produced by <file.parserName>.
export default class <file.grammarName>Listener extends antlr4.tree.ParseTreeListener {

<file.listenerNames:{lname |
 // Enter a parse tree produced by <file.parserName>#<lname>.
 enter<lname; format="cap">(ctx) {
 \}

 // Exit a parse tree produced by <file.parserName>#<lname>.
```

```
 exit<lname; format="cap">(ctx) {
 \}

}; separator="\n">

}
>>


VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';

// This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

export default class <file.grammarName>Visitor extends antlr4.tree.ParseTreeVisitor {

<file.visitorNames:{lname |
 // Visit a parse tree produced by <file.parserName>#<lname>.
 visit<lname; format="cap">(ctx) {
   return this.visitChildren(ctx);
 \}

}; separator="\n">

}
>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>
// jshint ignore: start
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<if(superClass)>
import <superClass> from './<superClass>.js';
<endif>

<atn>

const atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

const decisionsToDFA = atn.decisionToState.map( (ds, index) => new antlr4.dfa.DFA(ds, index) );

const sharedContextCache = new antlr4.PredictionContextCache();

export default class <parser.name> extends <superClass; null="antlr4.Parser"> {
```

```
  static grammarFileName = "<parser.grammarFileName; format="java-escape">";
  static literalNames = [ <parser.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
  static symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
  static ruleNames = [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

  constructor(input) {
     super(input);
     this._interp = new antlr4.atn.ParserATNSimulator(this, atn, decisionsToDFA, sharedContextCache);
     this.ruleNames = <parser.name>.ruleNames;
     this.literalNames = <parser.name>.literalNames;
     this.symbolicNames = <parser.name>.symbolicNames;
     <namedActions.members>
  }

  get atn() {
     return atn;
  }

  <if(sempredFuncs)>
  sempred(localctx, ruleIndex, predIndex) {
   switch(ruleIndex) {
   <parser.sempredFuncs.values:{f | case <f.ruleIndex>:
    return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
     default:
        throw "No predicate with index:" + ruleIndex;
    }
  }

  <sempredFuncs.values; separator="\n">
  <endif>

 <funcs; separator="\n">

}

<parser.name>.EOF = antlr4.Token.EOF;
<if(parser.tokens)>
<parser.tokens:{k | <parser.name>.<k> = <parser.tokens.(k)>;}; separator="\n", wrap, anchor>
<endif>

<parser.rules:{r | <parser.name>.RULE_<r.name> = <r.index>;}; separator="\n", wrap, anchor>

<funcs:{f | <ruleContexts(f)>}; separator="\n">

<! Define fields of this parser to export the context classes !>
<parser.funcs:{f | <parser.name>.<f.ctxType> = <f.ctxType>; }; separator="\n">
```

```
>>

ruleContexts(currentRule) ::= <<
<currentRule.ruleCtx>

<currentRule.altLabelCtxs:{l | <currentRule.altLabelCtxs.(l)>}; separator="\n">
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
<lexer.name>.prototype.action = function(localctx, ruleIndex, actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 this.<f.name>_action(localctx, actionIndex);
 break;}; separator="\n">
 default:
  throw "No registered action for:" + ruleIndex;
 }
};

<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
<lexer.name>.prototype.sempred = function(localctx, ruleIndex, predIndex) {
 switch (ruleIndex) {
  <recog.sempredFuncs.values:{f| case <f.ruleIndex>:
 return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
    default:
     throw "No registered predicate for:" + ruleIndex;
   }
};

<sempredFuncs.values; separator="\n">
<endif>
>>


/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

<lexer.name>.prototype.<r.name>_action = function(localctx , actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
```

```
 break;}; separator="\n">
 default:
  throw "No registered action for:" + actionIndex;
 }
};
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
<if (r.factory.g.lexer)><lexer.name>.prototype.<r.name>_sempred =
function<else><r.name>_sempred<endif>(localctx, predIndex) {
 switch(predIndex) {
  <actions:{index| case <index>:
 return <actions.(index)>;}; separator="\n">
  default:
   throw "No predicate with index:" + predIndex;
 }
};

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<


<currentRule.name>(<currentRule.args:{a | <a.name>}; separator=", ">) {
   let localctx = new <currentRule.ctxType>(this, this._ctx, this.state<currentRule.args:{a | , <a.name>}>);
   this.enterRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>);
   <namedActions.init>
   <locals; separator="\n">
   try {
       <code>
       <postamble; separator="\n">
       <namedActions.after>
   <if(exceptions)>
   <exceptions; separator="\n">
   <else>
   } catch (re) {
    if(re instanceof antlr4.error.RecognitionException) {
         localctx.exception = re;
         this._errHandler.reportError(this, re);
         this._errHandler.recover(this, re);
     } else {
      throw re;
     }
   }<endif> finally {
```

```
      <finallyAction>
      this.exitRule();
   }
   return localctx;
}

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<currentRule.name>(_p<if(currentRule.args)>, <args:{a | , <a>}><endif>) {
 if(_p===undefined) {
    _p = 0;
 }
   const _parentctx = this._ctx;
   const _parentState = this.state;
   let localctx = new <currentRule.ctxType>(this, this._ctx, _parentState<args:{a | , <a.name>}>);
   let _prevctx = localctx;
   const _startState = <currentRule.startState>;
   this.enterRecursionRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p);
   <namedActions.init>
   <locals; separator="\n">
   try {
      <code>
      <postamble; separator="\n">
      <namedActions.after>
   } catch( error) {
      if(error instanceof antlr4.error.RecognitionException) {
        localctx.exception = error;
        this._errHandler.reportError(this, error);
        this._errHandler.recover(this, error);
     } else {
     throw error;
     }
   } finally {
      <finallyAction>
      this.unrollRecursionContexts(_parentctx)
   }
   return localctx;
}

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(this, localctx);<endif>
```

```
this.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = this._input.LT(1);<endif>
<preamble; separator="\n">
switch(this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
   <alt>
   break;}; separator="\n">
default:
   <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
switch (this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
 <alt>
 break;}; separator="\n">
default:
 break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
if(<expr>) {
   <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.stateNumber>;
```

```
this._errHandler.sync(this);
<preamble; separator="\n">
while(<loopExpr>) {
   <alts; separator="\n">
   this.state = <choice.loopBackStateNumber>;
   this._errHandler.sync(this);
   <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
<preamble; separator="\n">
do {
   <alts; separator="\n">
   this.state = <choice.stateNumber>; <! loopback/exit decision !>
   this._errHandler.sync(this);
   <iteration>
} while(<loopExpr>);
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
switch(la_) {
<alts:{alt |
case <i>:
   <alt>
   break;
}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
<alts:{alt |
if(la_===<i><if(!choice.ast.greedy)>+1<endif>) {
   <alt>
}; separator="\n} else ">
}
```

```
>>

StarBlock(choice, alts, sync, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
let _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx)
while(_alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER) {
  if(_alt===1<if(!choice.ast.greedy)>+1<endif>) {
     <iteration>
     <alts> <! should only be one !>
  }
  this.state = <choice.loopBackStateNumber>;
  this._errHandler.sync(this);
  _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
}

>>

PlusBlock(choice, alts, error) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
let _alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
 default:
  <error>
 }
 this.state = <choice.loopBackStateNumber>; <! loopback/exit decision !>
 this._errHandler.sync(this);
 _alt = this._interp.adaptivePredict(this._input,<choice.decision>, this._ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "throw new antlr4.error.NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Javascript language spec - shift operators are 32 bits long max
testShiftInRange(shiftAmount) ::= <<
```

```
((<shiftAmount>) & ~0x1f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> && ((1 \<\< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<\< <offsetShiftType(ttype, bits.shift)>)}; separator=" | ">)) !== 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>===<parser.name>.<ttype>}; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{t | case <parser.name>.<t>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
this.state = <r.stateNumber>;
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>this.<r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChu
nks>);
>>

MatchToken(m) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>this.match(<parser.name>.<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
```

```
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }>this._input.LT(1);<endif>
<capture>
<if(invert)>if(<m.varName>\<=0 || <expr>)<else>if(!(<expr>))<endif> {
   <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>this._errHandler.recoverInline(this);
}
else {
 this._errHandler.reportMatch(this);
   this.consume();
}
>>

Wildcard(w) ::= <<
this.state = <w.stateNumber>;
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>this.matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
this.state = <p.stateNumber>;
if (!( <chunks>)) {
   throw new antlr4.error.FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "this.skip()"
LexerMoreCommand()  ::= "this.more()"
LexerPopModeCommand() ::= "this.popMode()"
LexerTypeCommand(arg, grammar)      ::= "this._type = <arg>"
LexerChannelCommand(arg, grammar)   ::= "this._channel = <arg>"
LexerModeCommand(arg, grammar)      ::= "this._mode = <arg>"
LexerPushModeCommand(arg, grammar)  ::= "this.pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
```

```
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValueRef(a) ::= "localctx.<a.name>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label>===null ? null : <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : parseInt(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>===null ? null : <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>.<r.label>===null ? null : <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(<ctx(r)>.<r.label>===null ? null : this._input.getText(new
antlr4.Interval(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r)  ::= "localctx.stop"
ThisRulePropertyRef_text(r)  ::= "this._input.getText(new antlr4.Interval(localctx.start, this._input.LT(-1)))"
ThisRulePropertyRef_ctx(r)  ::= "localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)     ::= "this.getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks)  ::= "this.getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.push(<labelref(a.label)>);"

TokenDecl(t) ::= "this.<t.name> = null; // <TokenLabelType()>"
TokenTypeDecl(t) ::= "var <t.name> = 0; // <TokenLabelType()> type"
TokenListDecl(t) ::= "this.<t.name> = []; // of <TokenLabelType()>s"
RuleContextDecl(r) ::= "this.<r.name> = null; // <r.ctxName>"
RuleContextListDecl(rdecl) ::= "this.<rdecl.name> = []; // of <rdecl.ctxName>s"

ContextTokenGetterDecl(t)      ::= <<
<t.name>() {
```

```
   return this.getToken(<parser.name>.<t.name>, 0);
};
>>

// should never be called
ContextTokenListGetterDecl(t)  ::= <<
<t.name>_list() {
   return this.getTokens(<parser.name>.<t.name>);
}
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
<t.name> = function(i) {
 if(i===undefined) {
  i = null;
 }
   if(i===null) {
       return this.getTokens(<parser.name>.<t.name>);
   } else {
       return this.getToken(<parser.name>.<t.name>, i);
   }
};

>>

ContextRuleGetterDecl(r)       ::= <<
<r.name>() {
   return this.getTypedRuleContext(<r.ctxName>,0);
};
>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
<r.name>_list() {
   return this.getTypedRuleContexts(<parser.name>.<r.ctxName>);
}
>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
<r.name> = function(i) {
   if(i===undefined) {
       i = null;
   }
   if(i===null) {
       return this.getTypedRuleContexts(<r.ctxName>);
   } else {
       return this.getTypedRuleContext(<r.ctxName>,i);
   }
```

```
};
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = this._input.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers) ::= <<
class <struct.name> extends <if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif> {

  constructor(parser, parent, invokingState<struct.ctorAttrs:{a | , <a.name>}>) {
      if(parent===undefined) {
          parent = null;
      }
      if(invokingState===undefined || invokingState===null) {
          invokingState = -1;
      }
      super(parent, invokingState);
      this.parser = parser;
      this.ruleIndex = <parser.name>.RULE_<struct.derivedFromName>;
      <attrs:{a | <a>}; separator="\n">
      <struct.ctorAttrs:{a | this.<a.name> = <a.name> || null;}; separator="\n">
  }

 <getters:{g | <g>}; separator="\n\n">

 <if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 copyFrom(ctx) {
  super.copyFrom(ctx);
  <struct.attrs:{a | this.<a.name> = ctx.<a.name>;}; separator="\n">
 }
 <endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">

}
```

```
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name> extends <struct.parentRule; format="cap">Context {

   constructor(parser, ctx) {
       super(parser);
       <attrs:{a | <a>;}; separator="\n">
       super.copyFrom(ctx);
   }

 <getters:{g | <g>}; separator="\n\n">

 <dispatchMethods; separator="\n">

}

<! Define fields of this parser to export this struct/context class !>
<parser.name>.<struct.name> = <struct.name>;

>>

ListenerDispatchMethod(method) ::= <<
<if(method.isEnter)>enter<else>exit<endif>Rule(listener) {
   if(listener instanceof <parser.grammarName>Listener ) {
       listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(this);
 }
}

>>

VisitorDispatchMethod(method) ::= <<
accept(visitor) {
   if ( visitor instanceof <parser.grammarName>Visitor ) {
       return visitor.visit<struct.derivedFromName; format="cap">(this);
   } else {
       return visitor.visitChildren(this);
   }
}

>>

AttributeDecl(d) ::= "this.<d.name> = <if(d.initValue)><d.initValue><else>null<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
```

```
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "this.precpred(this._ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                ::= "this._ctx.stop = this._input.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label) ::= <<
localctx = new <ctxName>Context(this, _parentctx, _parentState);
<if(label)>localctx.<label> = _prevctx;<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = new <currentAltLabel; format="cap">Context(this, new <ruleName; format="cap">Context(this,
_parentctx, _parentState));
<if(label)>
<if(isListLabel)>
localctx.<label>.push(_prevctx);
<else>
localctx.<label> = _prevctx;
<endif>
<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = new <ctxName>Context(this, localctx);
this._ctx = localctx;
_prevctx = localctx;
>>

recRuleSetPrevCtx() ::= <<
if(this._parseListeners!==null) {
   this.triggerExitRuleEvent();
}
_prevctx = localctx;
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
import antlr4 from 'antlr4';

<namedActions.header>

<lexer>
```

```
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
import <superClass> from './<superClass>.js';
<endif>

<atn>

const atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

const decisionsToDFA = atn.decisionToState.map( (ds, index) => new antlr4.dfa.DFA(ds, index) );

export default class <lexer.name> extends <if(superClass)><superClass><else>antlr4.Lexer<endif> {

  static grammarFileName = "<lexer.grammarFileName>";
  static channelNames = [ "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channels)>,
<lexer.channels:{c| "<c>"}; separator=", ", wrap, anchor><endif> ];
 static modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ];
 static literalNames = [ <lexer.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
 static symbolicNames = [ <lexer.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
 static ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

  constructor(input) {
      super(input)
      this._interp = new antlr4.atn.LexerATNSimulator(this, atn, decisionsToDFA, new
antlr4.PredictionContextCache());
      <namedActions.members>
  }

  get atn() {
      return atn;
  }
}

<lexer.name>.EOF = antlr4.Token.EOF;
<lexer.tokens:{k | <lexer.name>.<k> = <lexer.tokens.(k)>;}; separator="\n", wrap, anchor>

<if(lexer.channels)>
<lexer.channels:{c| <lexer.name>.<c> = <lexer.channels.(c)>;}; separator="\n">

<endif>
<if(rest(lexer.modes))>
<rest(lexer.modes):{m| <lexer.name>.<m> = <i>;}; separator="\n">

<endif>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
```

```
>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

const serializedATN = ["<model.serialized; wrap={",<\n>    "}>"].join("");

>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<javacriptTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".js"
```

Found in path(s):
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg
No license file was found, but licenses were detected in source scan.


```
/*
* [The "BSD license"]
*  Copyright (c) 2012-2016 Terence Parr
*  Copyright (c) 2012-2016 Sam Harwell
*  Copyright (c) 2015 Janyou
*  All rights reserved.
*
*  Redistribution and use in source and binary forms, with or without
*  modification, are permitted provided that the following conditions
*  are met:
*
*  1. Redistributions of source code must retain the above copyright
*     notice, this list of conditions and the following disclaimer.
*  2. Redistributions in binary form must reproduce the above copyright
*     notice, this list of conditions and the following disclaimer in the
*     documentation and/or other materials provided with the distribution.
*  3. The name of the author may not be used to endorse or promote products
*     derived from this software without specific prior written permission.
*
*  THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
*  IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
*  OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
*  IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
```

```
*  INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
*  NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

SwiftTypeInitMap ::= [
 "Int":"0",
 "Int64":"0",
 "Float":"0.0",
 "Double":"0.0",
 "Bool":"false",
 default:"nil" // anything other than a primitive type is an object
]
SwiftTypeMap ::= [
 "int":"Int",
 "float":"Float",
 "long":"Int64",
 "double":"Double",
 "bool":"Bool",
 "boolean":"Bool",
 default : key
]
// args must be <object-model-object>, <fields-resulting-in-STs>

accessLevelOpenOK(obj) ::= "<obj.accessLevel; null=\"open\">"
accessLevelNotOpen(obj) ::= "<obj.accessLevel; null=\"public\">"

ParserFile(file, parser, namedActions,contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<namedActions.header>
import Antlr4

<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4
```

```
/**
* This interface defines a complete listener for a parse tree produced by
* {@link <file.parserName>}.
*/
<accessLevelNotOpen(file)> protocol <file.grammarName>Listener: ParseTreeListener {
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Enter a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Exit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)}; separator="\n">
}
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>

import Antlr4


/**
* This class provides an empty implementation of {@link <file.grammarName>Listener},
* which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
<accessLevelOpenOK(file)> class <file.grammarName>BaseListener: <file.grammarName>Listener {
```

```
    <accessLevelNotOpen(file)> init() { \}
 <file.listenerNames:{lname |

/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
<accessLevelOpenOK(file)> func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) { \}
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
<accessLevelOpenOK(file)> func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) { \}}; separator="\n">

 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func enterEveryRule(_ ctx: ParserRuleContext) throws { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func exitEveryRule(_ ctx: ParserRuleContext) throws { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func visitTerminal(_ node: TerminalNode) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func visitErrorNode(_ node: ErrorNode) { }
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
```

```
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
* This interface defines a complete generic visitor for a parse tree produced
* by {@link <file.parserName>}.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
<accessLevelOpenOK(file)> class <file.grammarName>Visitor\<T>: ParseTreeVisitor\<T> {
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.visitorLabelRuleNames.(lname)>\}.
<else>
* Visit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
 - ctx: the parse tree
- returns: the visitor result
*/
<accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) -> T {
 fatalError(#function + " must be overridden")
\}
}; separator="\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
* This class provides an empty implementation of {@link <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
```

```
*/
<accessLevelOpenOK(file)> class <file.grammarName>BaseVisitor\<T>: AbstractParseTreeVisitor\<T> {
 <file.visitorNames:{lname |
/**
* {@inheritDoc\}
*
* \<p>The default implementation returns the result of calling
* {@link #visitChildren\} on {@code ctx\}.\</p>
*/
<accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) -> T? { return visitChildren(ctx) \}}; separator="\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<!//@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})!>
<accessLevelOpenOK(parser)> class <parser.name>: <superClass; null="Parser"> {

 internal static var _decisionToDFA: [DFA] = {
        var decisionToDFA = [DFA]()
        let length = <parser.name>._ATN.getNumberOfDecisions()
        for i in 0..\<length {
         <!// decisionToDFA[i] = DFA(<parser.name>._ATN.getDecisionState(i)!, i);!>
          decisionToDFA.append(DFA(<parser.name>._ATN.getDecisionState(i)!, i))
         }
         return decisionToDFA
   }()

 internal static let _sharedContextCache = PredictionContextCache()

 <if(parser.tokens)>
 <accessLevelNotOpen(parser)>
 enum Tokens: Int {
  case EOF = -1, <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=", ", wrap, anchor>
 }
      <endif>

 <accessLevelNotOpen(parser)>
 static let <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>
```

```
 <accessLevelNotOpen(parser)>
 static let ruleNames: [String] = [
  <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 ]

 <vocabulary(parser.literalNames, parser.symbolicNames,
                 accessLevelNotOpen(parser))>

 override <accessLevelOpenOK(parser)>
 func getGrammarFileName() -> String { return "<parser.grammarFileName; format="java-escape">" }

 override <accessLevelOpenOK(parser)>
 func getRuleNames() -> [String] { return <parser.name>.ruleNames }

 override <accessLevelOpenOK(parser)>
 func getSerializedATN() -> String { return <parser.name>._serializedATN }

 override <accessLevelOpenOK(parser)>
 func getATN() -> ATN { return <parser.name>._ATN }

 <namedActions.members>
 <parser:(ctor)()>
 <funcs; separator="\n">

<if(sempredFuncs)>
 override <accessLevelOpenOK(parser)>
 func sempred(_ _localctx: RuleContext?, _ ruleIndex: Int,  _ predIndex: Int)throws -> Bool {
  switch (ruleIndex) {
  <parser.sempredFuncs.values:{f|
case  <f.ruleIndex>:
 return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)}; separator="\n">
     default: return true
  }
  <!return true;!>
 }
 <sempredFuncs.values; separator="\n">
<endif>

 <atn>

 <accessLevelNotOpen(parser)>
 static let _serializedATN = <parser.name>ATN().jsonString

 <accessLevelNotOpen(parser)>
 static let _ATN = ATNDeserializer().deserializeFromJson(_serializedATN)
}
>>
```

```
vocabulary(literalNames, symbolicNames, accessLevel) ::= <<
private static let _LITERAL_NAMES: [String?] = [
 <literalNames:{t | <t>}; null="nil", separator=", ", wrap, anchor>
]
private static let _SYMBOLIC_NAMES: [String?] = [
 <symbolicNames:{t | <t>}; null="nil", separator=", ", wrap, anchor>
]
<accessLevel>
static let VOCABULARY = Vocabulary(_LITERAL_NAMES, _SYMBOLIC_NAMES)
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
override <accessLevelOpenOK(parser)>
func action(_ _localctx: RuleContext?,  _ ruleIndex: Int, _ actionIndex: Int) throws {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 <f.name>_action((_localctx as <f.ctxType>?), actionIndex)
  }; separator="\n">
 default: break
 }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
override <accessLevelOpenOK(parser)>
func sempred(_ _localctx: RuleContext?, _  ruleIndex: Int,_   predIndex: Int) throws -> Bool {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex>:
 return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)}; separator="\n">
 default: return true
 }
 <!return true;!>
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<

override <accessLevelOpenOK(parser)>
func getVocabulary() -> Vocabulary {
   return <p.name>.VOCABULARY
}

override <accessLevelNotOpen(parser)>
```

```
init(_ input:TokenStream) throws {
   RuntimeMetaData.checkVersion("4.9", RuntimeMetaData.VERSION)
 try super.init(input)
 _interp = ParserATNSimulator(self,<p.name>._ATN,<p.name>._decisionToDFA,
<parser.name>._sharedContextCache)
}

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private func <r.name>_action(_ _localctx: <r.ctxType>?,  _ actionIndex: Int) {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
  }; separator="\n">
  default: break
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private func <r.name>_sempred(_ _localctx: <r.ctxType>!,  _ predIndex: Int) throws -> Bool {
 switch (predIndex) {
 <actions:{index|
   case <index>:return <actions.(index)>}; separator="\n">
     default: return true
 }
 <!return true;!>
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<
<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
@discardableResult
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelOpenOK(parser)> func
<endif><currentRule.name>(<if(first(args))>_ <endif><args; separator=", _">) throws -> <currentRule.ctxType> {
 var _localctx: <currentRule.ctxType> = <currentRule.ctxType>(_ctx, getState()<currentRule.args:{a | ,
<a.name>}>)
 try enterRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>)
```

```
 <namedActions.init>
 <locals; separator="\n">
 defer {
     <finallyAction>
     try! exitRule()
   }
 do {
<if(currentRule.hasLookaheadBlock)>
  var _alt:Int
<endif>
   <code>
  <postamble; separator="\n">
   <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch ANTLRException.recognition(let re) {
  _localctx.exception = re
  _errHandler.reportError(self, re)
  try _errHandler.recover(self, re)
 }
 <endif>

 return _localctx
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelNotOpen(parser)> final <endif>
func <currentRule.name>( <if(first(args))>_ <endif><args; separator=", _">) throws -> <currentRule.ctxType>   {
 return try <currentRule.name>(0<currentRule.args:{a | , <a.name>}>)
}
@discardableResult
private func <currentRule.name>(_ _p<args:{a | , <a>}>: Int) throws -> <currentRule.ctxType>   {
 let _parentctx: ParserRuleContext? = _ctx
 let _parentState: Int = getState()
 var _localctx: <currentRule.ctxType> = <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,
<a.name>}>)
 var _prevctx: <currentRule.ctxType> = _localctx
 let _startState: Int = <currentRule.startState>
 try enterRecursionRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p)
```

```
 <namedActions.init>
 <locals; separator="\n">
 defer {
     <finallyAction>
     try! unrollRecursionContexts(_parentctx)
   }
 do {
<if(currentRule.hasLookaheadBlock)>
  var _alt: Int
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch ANTLRException.recognition(let re) {
  _localctx.exception = re
  _errHandler.reportError(self, re)
  try _errHandler.recover(self, re)
 }

 return _localctx;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx =  <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
try enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<!//{!>
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
<!//}!>
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt | <cases(ttypes=look)>
 <alt>
 break}; separator="\n">
```

```
default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
 <alt>
 break}; separator="\n">
default:
 break
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
if (<expr>) {
 <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 setState(<choice.loopBackStateNumber>)
 try _errHandler.sync(self)
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.blockStartStateNumber>) <! alt block decision !>
try _errHandler.sync(self)
<preamble; separator="\n">
repeat {
 <alts; separator="\n">
 setState(<choice.stateNumber>); <! loopback/exit decision !>
 try _errHandler.sync(self)
 <iteration>
```

```
} while (<loopExpr>)
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch(try getInterpreter().adaptivePredict(_input,<choice.decision>, _ctx)) {
<alts:{alt |
case <i>:
 <alt>
 break}; separator="\n">
default: break
}
>>

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break}; separator="\n">
default: break
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
_alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
 }
 setState(<choice.loopBackStateNumber>)
 try _errHandler.sync(self)
 _alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
}
>>

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
```

```
try _errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
repeat {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break}; separator="\n">
 default:
  <error>
 }
 setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
 try _errHandler.sync(self)
 _alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
} while (_alt != <choice.exitAlt> && _alt !=  ATN.INVALID_ALT_NUMBER)
>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw ANTLRException.recognition(e: NoViableAltException(self))"

TestSetInline(s) ::= <<
<!<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">!>
//closure
{ () -> Bool in
    <if(rest(s.bitsets))>var<else>let<endif> testSet: Bool = <first(s.bitsets):{bits |
<if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s, bits)><endif>}>
        <rest(s.bitsets):{bits | testSet = testSet || <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s,
bits)><else><bitsetInlineComparison(s, bits)><endif>}; separator="\n">
    return testSet
}()
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <<
<!(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1 \<\< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ttype | (1 \<\< <offsetShift(ttype, bits.shift)>)}; separator=" | ">)) != 0)!>
{  () -> Bool in
   <! let test: Bool = (<testShiftInRange({<offsetShift(s.varName, bits.shift)>})>)!>
  <!var temp: Int64 =  Int64(<offsetShift(s.varName, bits.shift)>)!>
  <!temp = (temp \< 0) ? (64 + (temp % 64 )) : (temp % 64)!>
  <!let test1: Int64 = (Int64(1) \<\< temp)!>
```

```
  <!var test2: Int64 = (<first(bits.ttypes):{ttype | Utils.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)}>)!>
  <!<rest(bits.ttypes):{ttype | test2 = test2 | Utils.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)};
separator="\n">!>
  let testArray: [Int] = [<s.varName>, <bits.ttypes:{ttype |<parserName(ttype)>}; separator=",">]
  <!var test2: Int64 = Utils.testBitLeftShiftArray(testArray)!>
   return  Utils.testBitLeftShiftArray(testArray, <bits.shift>)
}()
>>

isZero ::= [
"0": true,
default: false
]
parserName(ttype) ::= <%
<parser.name>.Tokens.<ttype>.rawValue
%>
offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName> == <parser.name>.Tokens.<ttype>.rawValue}; separator=" || ">
%>

cases(ttypes) ::= <<
<trunc(ttypes): {t | case .<t>:fallthrough}  ; separator="\n">
<last(ttypes): {t | case .<t>:}  ; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>)
<if(r.labels)>
try {
  let assignmentValue = try
<r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>)
  <r.labels:{l | <labelref(l)> = assignmentValue} ; separator="\n">
    }()
<else>try
<r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>)<endif>
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>)
<if(m.labels)>
try {
  let assignmentValue = try match(<parser.name>.Tokens.<m.name>.rawValue)
  <m.labels:{l | <labelref(l)> = assignmentValue}  ; separator="\n">
```

```
   }()
<else>try match(<parser.name>.Tokens.<m.name>.rawValue)<endif>
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>)
<if(m.labels)><m.labels:{l | <labelref(l)> = }>try _input.LT(1)<endif>
<capture>
if (<if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>)) {
 <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>try _errHandler.recoverInline(self)<if(m.labels)> as
Token<endif>
}
else {
 _errHandler.reportMatch(self)
 try consume()
}
>>

Wildcard(w) ::= <<
setState(<w.stateNumber>)
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>try matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>)
if (!(<chunks>)) {
   throw ANTLRException.recognition(e:FailedPredicateException(self, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>))
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects
```

```
LexerSkipCommand()  ::= "skip()"
LexerMoreCommand()  ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg)      ::= "_type = <arg>"
LexerChannelCommand(arg)   ::= "_channel = <arg>"
LexerModeCommand(arg)      ::= "_mode = <arg>"
LexerPushModeCommand(arg)  ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.name>"
LocalRef(a) ::= "_localctx.<a.name>"
RetValueRef(a) ::= "_localctx.<a.name>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getText()! : \"\")"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getType() : 0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getLine() : 0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getChannel() : 0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label> != nil ? Int(<ctx(t)>.<t.label>!.getText()!) : 0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.start?.description ?? \"\") : \"\")"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.stop?.description ?? \"\") : \"\")"
RulePropertyRef_text(r)  ::= "(<ctx(r)>.<r.label> != nil ? try
_input.getText(<ctx(r)>.<r.label>!.start,<ctx(r)>.<r.label>!.stop) : \"\")"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.stop"
ThisRulePropertyRef_text(r)  ::= "(try _input.getText(_localctx.start, try _input.LT(-1)))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "self"

NonLocalAttrRef(s)   ::= "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.name>"
SetNonLocalAttr(s, rhsChunks)   ::=
```

```
 "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "<t.name>: <SwiftTypeMap.(TokenLabelType())>!"
TokenTypeDecl(t) ::= "var <t.name>: Int = 0"
TokenListDecl(t) ::= "<t.name>: [Token] = [Token]()"
RuleContextDecl(r) ::= "<r.name>: <r.ctxName>!"
RuleContextListDecl(rdecl) ::= "<rdecl.name>: [<rdecl.ctxName>] = [<rdecl.ctxName>]()"

ContextTokenGetterDecl(t) ::= <<
 <accessLevelOpenOK(parser)>
 func <t.name>() -> TerminalNode? {
  return getToken(<parser.name>.Tokens.<t.name>.rawValue, 0)
 }
>>
ContextTokenListGetterDecl(t) ::= <<
 <accessLevelOpenOK(parser)>
 func <t.name>() -> [TerminalNode] {
  return getTokens(<parser.name>.Tokens.<t.name>.rawValue)
 }
>>
ContextTokenListIndexedGetterDecl(t) ::= <<
 <accessLevelOpenOK(parser)>
 func <t.name>(_ i:Int) -> TerminalNode? {
  return getToken(<parser.name>.Tokens.<t.name>.rawValue, i)
 }
>>
ContextRuleGetterDecl(r) ::= <<
 <accessLevelOpenOK(parser)>
 func <r.name>() -> <r.ctxName>? {
  return getRuleContext(<r.ctxName>.self, 0)
 }
>>
ContextRuleListGetterDecl(r) ::= <<
 <accessLevelOpenOK(parser)>
 func <r.name>() -> [<r.ctxName>] {
  return getRuleContexts(<r.ctxName>.self)
 }
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
 <accessLevelOpenOK(parser)>
 func <r.name>(_ i: Int) -> <r.ctxName>? {
  return getRuleContext(<r.ctxName>.self, i)
 }
>>

LexerRuleContext() ::= "RuleContext"
```

```
/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = try _input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = try _input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,
        superClass={ParserRuleContext}) ::= <<

<accessLevelNotOpen(parser)> class <struct.name>:
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces;
separator=", "><endif> {
 <attrs:{a | <accessLevelOpenOK(parser)> var <a>}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <! <if(ctorAttrs)> <accessLevelNotOpen(parser)> init(_ parent: ParserRuleContext,_ invokingState: Int) {
super.init(parent, invokingState)  }<endif> !>
 <if(ctorAttrs)>
 <accessLevelNotOpen(parser)> convenience init(_ parent: ParserRuleContext?, _ invokingState: Int<ctorAttrs:{a | ,
_ <a>}>) {
  self.init(parent, invokingState)
  <struct.ctorAttrs:{a | self.<a.name> = <a.name>;}; separator="\n">
 }
 <endif>

 override <accessLevelOpenOK(parser)>
 func getRuleIndex() -> Int {
  return <parser.name>.RULE_<struct.derivedFromName>
 }
<if(struct.provideCopyFrom && struct.attrs)> <! don't need copy unless we have subclasses !>
 <accessLevelOpenOK(parser)>
 override func copyFrom(_ ctx_: ParserRuleContext) {
  super.copyFrom(ctx_)
  let ctx = ctx_ as! <struct.name>
  <struct.attrs:{a | self.<a.name> = ctx.<a.name>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>
```

```
AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
<accessLevelNotOpen(parser)> class <struct.name>: <currentRule.name; format="cap">Context {
 <attrs:{a | <accessLevelNotOpen(parser)> var <a>}; separator="\n">
 <getters:{g | <g>}; separator="\n">

 <accessLevelNotOpen(parser)>
 init(_ ctx: <currentRule.name; format="cap">Context) {
  super.init()
  copyFrom(ctx)
 }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
override <accessLevelOpenOK(parser)>
func <if(method.isEnter)>enter<else>exit<endif>Rule(_ listener: ParseTreeListener) {
 if let listener = listener as? <parser.grammarName>Listener {
  listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)
 }
}
>>

VisitorDispatchMethod(method) ::= <<
override <accessLevelOpenOK(parser)>
func accept\<T>(_ visitor: ParseTreeVisitor\<T>) -> T? {
 if let visitor = visitor as? <parser.grammarName>Visitor {
     return visitor.visit<struct.derivedFromName; format="cap">(self)
 }
 else if let visitor = visitor as? <parser.grammarName>BaseVisitor {
     return visitor.visit<struct.derivedFromName; format="cap">(self)
 }
 else {
      return visitor.visitChildren(self)
 }
}
>>

AttributeDecl(d) ::= "<d.name>: <SwiftTypeMap.(d.type)><if(d.initValue)> = <d.initValue><else>!<endif>"

/** If we don't know location of label def x, use this template (_localctx as! <x.ctx.name> */
labelref(x) ::= "<if(!x.isLocal)>_localctx.castdown(<x.ctx.name>.self).<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr?    */
ctx(actionChunk) ::= "_localctx.castdown(<actionChunk.ctx.name>.self)"

// used for left-recursive rules
```

```
recRuleAltPredicate(ruleName,opPrec)  ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                ::= "_ctx!.stop = try _input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.append(_prevctx)
<else>
_localctx.<label> = _prevctx
<endif>
<endif>
<if(label)>_localctx.<label> = _prevctx;<endif>
try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = <currentAltLabel; format="cap">Context(  <ruleName; format="cap">Context(_parentctx,
_parentState))
<if(label)>
<if(isListLabel)>
(_localctx as! <currentAltLabel; format="cap">Context).<label>.append(_prevctx)
<else>
(_localctx as! <currentAltLabel; format="cap">Context).<label> = _prevctx
<endif>
<endif>
try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = <ctxName>Context(_localctx)
_ctx = _localctx
_prevctx = _localctx
>>

recRuleSetPrevCtx() ::= <<
if _parseListeners != nil {
  try triggerExitRuleEvent()
}
_prevctx = _localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
<!package <lexerFile.genPackage>;!>
```

```
<endif>
<namedActions.header>
import Antlr4

<lexer>
>>
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<accessLevelOpenOK(lexer)> class <lexer.name>: <superClass; null="Lexer"> {

 internal static var _decisionToDFA: [DFA] = {
        var decisionToDFA = [DFA]()
        let length = <lexer.name>._ATN.getNumberOfDecisions()
        for i in 0..\<length {
          <! decisionToDFA[i] = DFA(<lexer.name>._ATN.getDecisionState(i)!, i);!>
             decisionToDFA.append(DFA(<lexer.name>._ATN.getDecisionState(i)!, i))
        }
         return decisionToDFA
   }()

 internal static let _sharedContextCache = PredictionContextCache()

 <accessLevelNotOpen(lexer)>
 static let <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>

 <if(lexer.channels)>
 <accessLevelNotOpen(lexer)>
 static let <lexer.channels:{k | <k>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>
 <endif>
 <if(rest(lexer.modes))>
 <accessLevelNotOpen(lexer)>
 static let <rest(lexer.modes):{m| <m>=<i>}; separator=", ", wrap, anchor>
 <endif>
 <accessLevelNotOpen(lexer)>
 static let channelNames: [String] = [
  "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channels)>, <lexer.channels:{c| "<c>"}; separator=", ",
wrap, anchor><endif>
 ]

 <accessLevelNotOpen(lexer)>
 static let modeNames: [String] = [
  <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
 ]

 <accessLevelNotOpen(lexer)>
 static let ruleNames: [String] = [
  <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 ]
```

```
<vocabulary(lexer.literalNames, lexer.symbolicNames,
                accessLevelNotOpen(lexer))>

<namedActions.members>

override <accessLevelOpenOK(lexer)>
func getVocabulary() -> Vocabulary {
 return <lexer.name>.VOCABULARY
}

<accessLevelNotOpen(lexer)>
required init(_ input: CharStream) {
    RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION)
 super.init(input)
 _interp = LexerATNSimulator(self, <lexer.name>._ATN, <lexer.name>._decisionToDFA,
<lexer.name>._sharedContextCache)
}

override <accessLevelOpenOK(lexer)>
func getGrammarFileName() -> String { return "<lexer.grammarFileName>" }

override <accessLevelOpenOK(lexer)>
func getRuleNames() -> [String] { return <lexer.name>.ruleNames }

override <accessLevelOpenOK(lexer)>
func getSerializedATN() -> String { return <lexer.name>._serializedATN }

override <accessLevelOpenOK(lexer)>
func getChannelNames() -> [String] { return <lexer.name>.channelNames }

override <accessLevelOpenOK(lexer)>
func getModeNames() -> [String] { return <lexer.name>.modeNames }

override <accessLevelOpenOK(lexer)>
func getATN() -> ATN { return <lexer.name>._ATN }

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>

<accessLevelNotOpen(lexer)>
static let _serializedATN: String = <lexer.name>ATN().jsonString

<accessLevelNotOpen(lexer)>
static let _ATN: ATN = ATNDeserializer().deserializeFromJson(_serializedATN)
}
>>

/** Don't need to define anything. The tool generates a XParserATN.swift file (and same for lexer)
```

```
*  which is referenced from static field _serializedATN.  This json string is passed to
*  deserializeFromJson(). Note this is not the "serialization as array of ints" that other targets
*  do. It is more or less the output of ATNPrinter which gets read back in.
*/
SerializedATN(model) ::= <<
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<SwiftTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".swift"
```

Found in path(s):
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/templates/codegen/Swift/Swift.stg
No license file was found, but licenses were detected in source scan.


```
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*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
```

```
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

atn(startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph ATN {
rankdir=LR;
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>

dfa(name, startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph <name>  {
<if(rankdir)>rankdir=<rankdir>;<endif>
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>

decision-rank(states) ::= <<
{rank=same; rankdir=TB; <states:{s | s<s>}; separator="; ">}
>>

edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

action-edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

epsilon-edge(src,label,target,arrowhead,transitionIndex,loopback=false) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontname="Times-Italic",
label="&epsilon;"<if(loopback)>, style="dashed"<endif>];
>>

state(state, label, name, transitions) ::= <%
<name>[fontsize=11,
  label="
     <! rest(transition) tests for decision states: these nodes have a non-empty set of transitions after the first one. !>
     <if(rest(transitions))>
        {
        <! Label on the left side of the record node. !>
        <label>
```

```
        |
        <! Named ports in order on right side of record node, no display text. !>
        {<transitions:{t|\<p<i0>>}; separator="|">}}
    <else>
        <label>
    <endif>
    "
  <if(rest(transitions))>
    , shape=record, fixedsize=false
  <else>
    , shape=circle, fixedsize=true, width=.55
  <endif>
  , peripheries=1];
%>

stopstate(name,label,actionIndex,useBox) ::= <<
<name>[fontsize=11, label="<label><if(actionIndex)>,\naction:<actionIndex><endif>",
<if(useBox)>shape=polygon,sides=4,peripheries=2,fixedsize=false<else>shape=doublecircle, fixedsize=true,
width=.6<endif>];
>>
```

Found in path(s):
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/templates/dot/graphs.stg
No license file was found, but licenses were detected in source scan.


```
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```

```
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*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** ANTLR tool checks output templates are compatible with tool code generation.
*  For now, a simple string match used on x.y of x.y.z scheme.
*  Must match Tool.VERSION during load to templates.
*
*  REQUIRED.
*/

pythonTypeInitMap ::= [
 "bool":"False",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"None" // anything other than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
from antlr4 import *
from io import StringIO
import sys
if sys.version_info[1] > 5:
 from typing import TextIO
else:
 from typing.io import TextIO

<namedActions.header>
<parser>

>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if __name__ is not None and "." in __name__:
   from .<file.parserName> import <file.parserName>
else:
   from <file.parserName> import <file.parserName>
```

```
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

  <file.listenerNames:{lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
  pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
  pass

}; separator="\n">

del <file.parserName>
>>


VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if __name__ is not None and "." in __name__:
  from .<file.parserName> import <file.parserName>
else:
  from <file.parserName> import <file.parserName>
<header>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

  <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
  return self.visitChildren(ctx)

}; separator="\n">

del <file.parserName>
>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>
```

```
Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
  from .<superClass> import <superClass>
else:
  from <superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

  grammarFileName = "<parser.grammarFileName>"

  atn = ATNDeserializer().deserialize(serializedATN())

  decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

  sharedContextCache = PredictionContextCache()

  literalNames = [ <parser.literalNames:{t | <t>}; null="\"\<INVALID>\"", separator=", ", wrap, anchor> ]

  symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="\"\<INVALID>\"", separator=", ", wrap, anchor> ]

  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>

  ruleNames =  [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ]

  EOF = <TokenLabelType()>.EOF
  <if(parser.tokens)>
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
  <endif>

  <parser:(ctor)()>

  <namedActions.members>

  <funcs; separator="\n">


<if(sempredFuncs)>
  def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
      if self._predicates == None:
          self._predicates = dict()
```

```
<parser.sempredFuncs.values:{f |
      self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n        ">
      pred = self._predicates.get(ruleIndex, None)
      if pred is None:
         raise Exception("No predicate with index:" + str(ruleIndex))
      else:
         return pred(localctx, predIndex)

   <sempredFuncs.values; separator="\n">
<endif>



>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx:RuleContext, ruleIndex:int, actionIndex:int):
   if self._actions is None:
      actions = dict()
<recog.actionFuncs.values:{f|
      actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
      self._actions = actions
   action = self._actions.get(ruleIndex, None)
   if action is not None:
      action(localctx, actionIndex)
   else:
      raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
   if self._predicates is None:
      preds = dict()
<recog.sempredFuncs.values:{f|
      preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
      self._predicates = preds
   pred = self._predicates.get(ruleIndex, None)
   if pred is not None:
      return pred(localctx, predIndex)
   else:
      raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values; separator="\n">
<endif>
>>
```

```
parser_ctor(p) ::= <<
def __init__(self, input:TokenStream, output:TextIO = sys.stdout):
  super().__init__(input, output)
  self.checkVersion("<file.ANTLRVersion>")
  self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
  self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx:<r.ctxType> , actionIndex:int):
<actions:{index|
<if(first(actions))>
  if actionIndex == <index>:
      <actions.(index)>
<elseif(rest(actions))>
  elif actionIndex == <index>:
      <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx:<r.ctxType>, predIndex:int):
  <actions:{index|
<if(first(actions))>
  if predIndex == <index>:
      return <actions.(index)>
<elseif(rest(actions))>
  elif predIndex == <index>:
      return <actions.(index)>
<endif> }; separator="\n">

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
```

```
def <currentRule.name>(self<currentRule.args:{a | , <a.name><if(a.type)>:<a.type><endif>}>):

  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | , <a.name>}>)
  self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
  <namedActions.init>
  <locals; separator="\n">
  try:
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  except RecognitionException as re:
     localctx.exception = re
     self._errHandler.reportError(self, re)
     self._errHandler.recover(self, re)
  <endif>
  finally:
     <finallyAction>
     self.exitRule()
  return localctx

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self, _p:int=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
  _parentctx = self._ctx
  _parentState = self.state
  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.name>}>)
  _prevctx = localctx
  _startState = <currentRule.startState>
  self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
  <namedActions.init>
  <locals; separator="\n">
  try:
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  except RecognitionException as re:
     localctx.exception = re
```

```
        self._errHandler.reportError(self, re)
        self._errHandler.recover(self, re)
    finally:
        <finallyAction>
        self.unrollRecursionContexts(_parentctx)
    return localctx

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
    <alt>
    pass}; separator="\nel">
else:
    <error>

>>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
    <alt>
    pass}; separator="\nel">
else:
    pass
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
```

```
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
if <expr>:
   <alts; separator="\n">

<!else if ( !(<followExpr>) ) <error>!>
>>


LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
   <alts; separator="\n">
   self.state = <choice.loopBackStateNumber>
   self._errHandler.sync(self)
   <iteration>

>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
   <alts; separator="\n">
   self.state = <choice.stateNumber> <! loopback/exit decision !>
   self._errHandler.sync(self)
   <iteration>
   if not (<loopExpr>):
      break

>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i>:
   <alt>
   pass
```

```
}; separator="\nel">

>>

OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
   <alt>
}; separator="\nel">

>>

StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
   if _alt==1<if(!choice.ast.greedy)>+1<endif>:
       <iteration>
       <alts> <! should only be one !>
   self.state = <choice.loopBackStateNumber>
   self._errHandler.sync(self)
   _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
   <alts:{alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
   <alt>
}; separator="\nel">
   else:
       <error>
   self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
   self._errHandler.sync(self)
   _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

Sync(s) ::= "sync(<s.expecting.name>)"
```

```
ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" or ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<\< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<\< <offsetShiftType(ttype, bits.shift)>)}; separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<parser.name>.<ttype>}; separator=" or ">
%>

cases(ttypes) ::= <<
if token in [<ttypes:{t | <parser.name>.<t>}; separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>self.<r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChu
nks>)
>>

MatchToken(m) ::= <<
```

```
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{l |     <labelref(l)> = }><else>    <endif>self._errHandler.recoverInline(self)
else:
   self._errHandler.reportMatch(self)
   self.consume()
>>

Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>self.matchWildcard()
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
   from antlr4.error.Errors import FailedPredicateException
   raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
except <catchArg>:
   <catchAction>
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip()"
LexerMoreCommand()  ::= "more()"
LexerPopModeCommand() ::= "popMode()"
```

```
LexerTypeCommand(arg, grammar)      ::= "_type = <arg>"
LexerChannelCommand(arg, grammar)   ::= "_channel = <arg>"
LexerModeCommand(arg, grammar)      ::= "_mode = <arg>"
LexerPushModeCommand(arg, grammar)  ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValueRef(a) ::= "localctx.<a.name>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type()"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if (<ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)  ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(None if <ctx(r)>.<r.label> is None else
self._input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r)  ::= "localctx.stop"
ThisRulePropertyRef_text(r)  ::= "self._input.getText(localctx.start, self._input.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "localctx"
ThisRulePropertyRef_parser(r)  ::= "self"

NonLocalAttrRef(s)     ::= "self.getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks)  ::= "self.getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>"
```

```
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.name> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t)      ::= <<
def <t.name>(self):
  return self.getToken(<parser.name>.<t.name>, 0)
>>

// should never be called
ContextTokenListGetterDecl(t)  ::= <<
def <t.name>_list(self):
  return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
def <t.name>(self, i:int=None):
  if i is None:
     return self.getTokens(<parser.name>.<t.name>)
  else:
     return self.getToken(<parser.name>.<t.name>, i)
>>

ContextRuleGetterDecl(r)       ::= <<
def <r.name>(self):
  return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)

>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
def <r.name>_list(self):
  return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
def <r.name>(self, i:int=None):
  if i is None:
     return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
  else:
     return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext() ::= "RuleContext"
```

```
/** The rule context name is the rule followed by a suffix; e.g.,
*  r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers) ::= <<
class <struct.name>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):

  def __init__(self, parser, parent:ParserRuleContext=None, invokingState:int=-1<struct.ctorAttrs:{a | ,
<a.name><if(a.type)>:<a.type><endif>=None}>):
      super().__init__(parent, invokingState)
      self.parser = parser
      <attrs:{a | <a>}; separator="\n">
      <struct.ctorAttrs:{a | self.<a.name> = <a.name>}; separator="\n">

  <getters:{g | <g>}; separator="\n\n">

  def getRuleIndex(self):
      return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
  def copyFrom(self, ctx:ParserRuleContext):
      super().copyFrom(ctx)
      <struct.attrs:{a | self.<a.name> = ctx.<a.name>}; separator="\n">

<endif>
  <dispatchMethods; separator="\n">
  <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name>(<currentRule.name; format="cap">Context):

  def __init__(self, parser, ctx:ParserRuleContext): # actually a <parser.name>.<currentRule.name;
format="cap">Context
      super().__init__(parser)
      <attrs:{a | <a>}; separator="\n">
      self.copyFrom(ctx)
```

```
   <getters:{g | <g>}; separator="\n">

   <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener:ParseTreeListener):
   if hasattr( listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">" ):
       listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor:ParseTreeVisitor):
   if hasattr( visitor, "visit<struct.derivedFromName; format="cap">" ):
       return visitor.visit<struct.derivedFromName; format="cap">(self)
   else:
       return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label) ::= <<
localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>localctx.<label> = _prevctx<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
```

```
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
  self.triggerExitRuleEvent()
_prevctx = localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
from antlr4 import *
from io import StringIO
from typing.io import TextIO
import sys

<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
  from .<superClass> import <superClass>
else:
  from <superClass> import <superClass>

<endif>
<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

  atn = ATNDeserializer().deserialize(serializedATN())

  decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

<if(lexer.channels)>
```

```
  <lexer.channels:{c| <c> = <lexer.channels.(c)>}; separator="\n">

<endif>
<if(rest(lexer.modes))>
  <rest(lexer.modes):{m| <m> = <i>}; separator="\n">

<endif>
  <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>

  channelNames = [ u"DEFAULT_TOKEN_CHANNEL", u"HIDDEN"<if (lexer.channels)>, <lexer.channels:{c|
u"<c>"}; separator=", ", wrap, anchor><endif> ]

  modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ]

  literalNames = [ "\<INVALID>",
        <lexer.literalNames:{t | <t>}; separator=", ", wrap, anchor> ]

  symbolicNames = [ "\<INVALID>",
        <lexer.symbolicNames:{t | <t>}; separator=", ", wrap, anchor> ]

  ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ]

  grammarFileName = "<lexer.grammarFileName>"

  def __init__(self, input=None, output:TextIO = sys.stdout):
     super().__init__(input, output)
     self.checkVersion("<lexerFile.ANTLRVersion>")
     self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
     self._actions = None
     self._predicates = None

  <namedActions.members>

  <dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

def serializedATN():
  with StringIO() as buf:
     buf.write("<model.serialized; wrap={")<\n>       buf.write("}>")
     return buf.getvalue()

>>

/** Using a type to init value map, try to init a type; if not in table
```

```
*  must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<pythonTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".py"
```

Found in path(s):
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg
No license file was found, but licenses were detected in source scan.

```
/*
* [The "BSD license"]
*  Copyright (c) 2012-2016 Terence Parr
*  Copyright (c) 2012-2016 Sam Harwell
*  All rights reserved.
*
*  Redistribution and use in source and binary forms, with or without
*  modification, are permitted provided that the following conditions
*  are met:
*
*  1. Redistributions of source code must retain the above copyright
*     notice, this list of conditions and the following disclaimer.
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*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
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*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** templates used to generate make-compatible dependencies */

/** Generate "f : x, y, z" dependencies for input
*  dependencies and generated files. in and out
*  are File objects.  For example, you can say
```

```
*  <f.canonicalPath>
*/
dependencies(grammarFileName,in,out) ::= <<
<if(in)><grammarFileName>: <in; separator=", "><endif>
<out:{f | <f> : <grammarFileName>}; separator="\n">
>>
```

Found in path(s):
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/templates/depend.stg
No license file was found, but licenses were detected in source scan.

```
/*
* [The "BSD license"]
*  Copyright (c) 2015 Dan McLaughlin, Mike Lischke
*  All rights reserved.
*
*  Redistribution and use in source and binary forms, with or without
*  modification, are permitted provided that the following conditions
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*  2. Redistributions in binary form must reproduce the above copyright
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*  IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
*  OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
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*  NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
```

Found in path(s):
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/templates/codegen/Cpp/Cpp.stg
No license file was found, but licenses were detected in source scan.

```
/*
* [The "BSD license"]
*  Copyright (c) 2012-2016 Terence Parr
```

```
*  Copyright (c) 2012-2016 Sam Harwell
*  All rights reserved.
*
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*  modification, are permitted provided that the following conditions
*  are met:
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*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

phpTypeInitMap ::= [
 "int":"0",
 "long":"0",
 "float":"0.0",
 "double":"0.0",
 "boolean":"false",
 default:"null"
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
```

```
<header>
use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeListener;

/**
* This interface defines a complete listener for a parse tree produced by
* {@see <file.parserName>}.
*/
interface <file.grammarName>Listener extends ParseTreeListener {
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the `<lname>`
* labeled alternative in {@see <file.parserName>::<file.listenerLabelRuleNames.(lname)>()\}.
<else>
* Enter a parse tree produced by {@see <file.parserName>::<lname>()\}.
<endif>
* @param $context The parse tree.
*/
public function enter<lname; format="cap">(Context\\<lname; format="cap">Context $context) : void;
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the `<lname>` labeled alternative
* in {@see <file.parserName>::<file.listenerLabelRuleNames.(lname)>()\}.
<else>
* Exit a parse tree produced by {@see <file.parserName>::<lname>()\}.
<endif>
* @param $context The parse tree.
*/
public function exit<lname; format="cap">(Context\\<lname; format="cap">Context $context) : void;};
separator="\n">
}
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>

use Antlr\\Antlr4\\Runtime\\ParserRuleContext;
use Antlr\\Antlr4\\Runtime\\Tree\\ErrorNode;
use Antlr\\Antlr4\\Runtime\\Tree\\TerminalNode;

/**
* This class provides an empty implementation of {@see <file.grammarName>Listener},
* which can be extended to create a listener which only needs to handle a subset
* of the available methods.
```

```
*/
class <file.grammarName>BaseListener implements <file.grammarName>Listener
{
 <file.listenerNames:{lname |
/**
* {@inheritdoc\}
*
* The default implementation does nothing.
*/
public function enter<lname; format="cap">(Context\\<lname; format="cap">Context $context) : void {\}

/**
* {@inheritdoc\}
*
* The default implementation does nothing.
*/
public function exit<lname; format="cap">(Context\\<lname; format="cap">Context $context) : void {\}};
separator="\n">

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function enterEveryRule(ParserRuleContext $context) : void {}

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function exitEveryRule(ParserRuleContext $context) : void {}

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function visitTerminal(TerminalNode $node) : void {}

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function visitErrorNode(ErrorNode $node) : void {}
}
>>
```

```
VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>

<header>
use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeVisitor;

/**
* This interface defines a complete generic visitor for a parse tree produced by {@see <file.parserName>}.
*/
interface <file.grammarName>Visitor extends ParseTreeVisitor
{
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the `<lname>` labeled alternative
* in {@see <file.parserName>::<file.visitorLabelRuleNames.(lname)>()\}.
<else>
* Visit a parse tree produced by {@see <file.parserName>::<lname>()\}.
<endif>
*
* @param Context\\<lname; format="cap">Context $context The parse tree.
*
* @return mixed The visitor result.
*/
public function visit<lname; format="cap">(Context\\<lname; format="cap">Context $context);};
separator="\n\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>
use Antlr\\Antlr4\\Runtime\\Tree\\AbstractParseTreeVisitor;

/**
* This class provides an empty implementation of {@see <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*/
class <file.grammarName>BaseVisitor extends AbstractParseTreeVisitor implements <file.grammarName>Visitor
{
```

```
 <file.visitorNames:{lname |
/**
* {@inheritdoc\}
*
* The default implementation returns the result of calling
* {@see self::visitChildren()\} on `context`.
*/
public function visit<lname; format="cap">(Context\\<lname; format="cap">Context $context)
{
   return $this->visitChildren($context);
\}}; separator="\n\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
\<?php

/*
* Generated from <grammarFileName> by ANTLR <ANTLRVersion>
*/

>>
Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
namespace<if(file.genPackage)> <file.genPackage><endif> {
<if(namedActions.header)><namedActions.header><endif>
 use Antlr\\Antlr4\\Runtime\\Atn\\ATN;
 use Antlr\\Antlr4\\Runtime\\Atn\\ATNDeserializer;
 use Antlr\\Antlr4\\Runtime\\Atn\\ParserATNSimulator;
 use Antlr\\Antlr4\\Runtime\\Dfa\\DFA;
 use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\FailedPredicateException;
 use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\NoViableAltException;
 use Antlr\\Antlr4\\Runtime\\PredictionContexts\\PredictionContextCache;
 use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\RecognitionException;
 use Antlr\\Antlr4\\Runtime\\RuleContext;
 use Antlr\\Antlr4\\Runtime\\Token;
 use Antlr\\Antlr4\\Runtime\\TokenStream;
 use Antlr\\Antlr4\\Runtime\\Vocabulary;
 use Antlr\\Antlr4\\Runtime\\VocabularyImpl;
 use Antlr\\Antlr4\\Runtime\\RuntimeMetaData;
 use Antlr\\Antlr4\\Runtime\\Parser;
<if(namedActions.definitions)><namedActions.definitions><endif>

 final class <parser.name> extends <superClass; null="Parser">
 {
```

```
<if(parser.tokens)>
public const <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=", ", wrap, anchor>;
<endif>

public const <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;

/**
 * @var array\<string>
 */
public const RULE_NAMES = [
 <parser.ruleNames:{r | '<r>'}; separator=", ", wrap, anchor>
];

<vocabulary(parser.literalNames, parser.symbolicNames)>

<atn>
protected static $atn;
protected static $decisionToDFA;
protected static $sharedContextCache;
<if(namedActions.members)>

<namedActions.members>
<endif>


<parser:(ctor)()>

private static function initialize() : void
{
 if (self::$atn !== null) {
  return;
 }

 RuntimeMetaData::checkVersion('<file.ANTLRVersion>', RuntimeMetaData::VERSION);

 $atn = (new ATNDeserializer())->deserialize(self::SERIALIZED_ATN);

 $decisionToDFA = [];
 for ($i = 0, $count = $atn->getNumberOfDecisions(); $i \< $count; $i++) {
  $decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
 }

 self::$atn = $atn;
 self::$decisionToDFA = $decisionToDFA;
 self::$sharedContextCache = new PredictionContextCache();
}

public function getGrammarFileName() : string
```

```
  {
   return "<parser.grammarFileName>";
  }

  public function getRuleNames() : array
  {
   return self::RULE_NAMES;
  }

  public function getSerializedATN() : string
  {
   return self::SERIALIZED_ATN;
  }

  public function getATN() : ATN
  {
   return self::$atn;
  }

  public function getVocabulary() : Vocabulary
      {
          static $vocabulary;

   return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES, self::SYMBOLIC_NAMES);
      }
<if(funcs)>

  <funcs; separator="\n\n">
<endif>
<if(sempredFuncs)>

  public function sempred(?RuleContext $localContext, int $ruleIndex, int $predicateIndex) : bool
  {
   switch ($ruleIndex) {
   <parser.sempredFuncs.values:{f|
  case <f.ruleIndex>:
   return $this->sempred<f.name; format="cap">($localContext, $predicateIndex);}; separator="\n\n">

    default:
     return true;
    }
  }

  <sempredFuncs.values; separator="\n\n">
<endif>
 }
}
```

```
namespace <if(file.genPackage)><file.genPackage>\\<endif>Context {
 use Antlr\\Antlr4\\Runtime\\ParserRuleContext;
 use Antlr\\Antlr4\\Runtime\\Token;
 use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeVisitor;
 use Antlr\\Antlr4\\Runtime\\Tree\\TerminalNode;
 use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeListener;
 use <if(file.genPackage)><file.genPackage>\\<endif><parser.name>;
 <if (file.genVisitor)>use <if(file.genPackage)><file.genPackage>\\<endif><file.grammarName>Visitor;<endif>
 <if (file.genListener)>use <if(file.genPackage)><file.genPackage>\\<endif><file.grammarName>Listener;<endif>
 <namedActions.contexts>

 <funcs :{ func | <func.ruleCtx><if(func.altLabelCtxs)>

<func.altLabelCtxs:{l | <func.altLabelCtxs.(l)>}; separator="\n\n"><endif> }; separator="\n\n">
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
/**
* @var array\<string|null>
*/
private const LITERAL_NAMES = [
   <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
];

/**
* @var array\<string>
*/
private const SYMBOLIC_NAMES = [
   <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
];
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>

public function action(?RuleContext $localContext, int $ruleIndex, int $actionIndex) : void
{
 switch ($ruleIndex) {
 <recog.actionFuncs.values:{f|
 case <f.ruleIndex>:
  $this->action<f.name; format="cap">($localContext, $actionIndex);
  break;}; separator="\n\n">
 }
}

<actionFuncs.values; separator="\n">
<endif>
```

```
<if(sempredFuncs)>

public function sempred(?RuleContext $localContext, int $ruleIndex, int $predicateIndex) : bool
{
 switch ($ruleIndex) {
 <recog.sempredFuncs.values:{f|
   case <f.ruleIndex>:
       return $this->sempred<f.name; format="cap">($localContext, $predicateIndex);}; separator="\n\n">
 }

 return true;
}
<sempredFuncs.values; separator="\n\n">
<endif>
>>

parser_ctor(p) ::= <<
public function __construct(TokenStream $input)
{
 parent::__construct($input);

 self::initialize();

 $this->interp = new ParserATNSimulator($this, self::$atn, self::$decisionToDFA, self::$sharedContextCache);
}
>>

/**
* This generates a private method since the actionIndex is generated, making
* an overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private function action<r.name; format="cap">(?<r.ctxType> $localContext, int $actionIndex) : void
{
 switch ($actionIndex) {
 <actions:{index|
 case <index>:
 <actions.(index)>

 break;}; separator="\n\n">
 }
}
>>

/**
* This generates a private method since the predicateIndex is generated, making
* an overriding implementation impossible to maintain.
*/
```

```
RuleSempredFunction(r, actions) ::= <<
private function sempred<r.name; format="cap">(?Context\\<r.ctxType> $localContext, int $predicateIndex) : bool
{
 switch ($predicateIndex) {
 <actions:{index|
   case <index>:
       return <actions.(index)>;}; separator="\n\n">
 }

 return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,exceptions,postamble)
::= <<
/**
* @throws RecognitionException
*/
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function <currentRule.name>(<args;
separator=",">) : Context\\<currentRule.ctxType>
{
   $localContext = new Context\\<currentRule.ctxType>($this->ctx, $this->getState()<currentRule.args:{a | ,
$<a.name>}>);

   $this->enterRule($localContext, <currentRule.startState>, self::RULE_<currentRule.name>);
   <namedActions.init>
   <locals; separator="\n">

   try {
       <code>
       <postamble; separator="\n">
       <namedActions.after>
   }<if(exceptions)><exceptions; separator="\n"><else> catch (RecognitionException $exception) {
       $localContext->exception = $exception;
       $this->errorHandler->reportError($this, $exception);
       $this->errorHandler->recover($this, $exception);
   }<endif> finally {
       <finallyAction>
       $this->exitRule();
   }

   return $localContext;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamb
le) ::= <<
/**
```

```
* @throws RecognitionException
*/
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function <currentRule.name>(<args;
separator=", ">) : Context\\<currentRule.ctxType>
{
 return $this->recursive<currentRule.name; format="cap">(0<currentRule.args:{a | , <a.name>}>);
}

/**
* @throws RecognitionException
*/
private function recursive<currentRule.name; format="cap">(int $precedence<args:{a | , <a>}>) :
Context\\<currentRule.ctxType>
{
 $parentContext = $this->ctx;
 $parentState = $this->getState();
 $localContext = new Context\\<currentRule.ctxType>($this->ctx, $parentState<currentRule.args:{a | ,
<a.name>}>);
 $previousContext = $localContext;
 $startState = <currentRule.startState>;
 $this->enterRecursionRule($localContext, <currentRule.startState>, self::RULE_<currentRule.name>,
$precedence);
 <namedActions.init>
 <locals; separator="\n">

 try {
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 } catch (RecognitionException $exception) {
  $localContext->exception = $exception;
  $this->errorHandler->reportError($this, $exception);
  $this->errorHandler->recover($this, $exception);
 } finally {
  <finallyAction>
  $this->unrollRecursionContexts($parentContext);
 }

 return $localContext;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>$localContext = new
Context\\<currentOuterMostAltCodeBlock.altLabel; format="cap">Context($localContext);<endif>
$this->enterOuterAlt($localContext, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>
```

```
CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>
<preamble; separator="\n">

switch ($this->input->LA(1)) {
   <choice.altLook,alts:{look,alt| <cases(ttypes=look)>
 <alt>
 break;}; separator="\n\n">

default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

switch ($this->input->LA(1)) {
   <choice.altLook,alts:{look,alt| <cases(ttypes=look)>
 <alt>
 break;}; separator="\n\n">

default:
 break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<preamble; separator="\n">

if (<expr>) {
 <alts; separator="\n">
}
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
```

```
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 $this->setState(<choice.loopBackStateNumber>);
 $this->errorHandler->sync($this);
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
$this->setState(<choice.blockStartStateNumber>); <! alt block decision !>
$this->errorHandler->sync($this);

<preamble; separator="\n">
do {
 <alts; separator="\n">
 $this->setState(<choice.stateNumber>); <! loopback/exit decision !>
 $this->errorHandler->sync($this);
 <iteration>
} while (<loopExpr>);
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>
<preamble; separator="\n">

switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {
 <alts:{alt |
case <i>:
   <alt>
break;}; separator="\n\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {
<alts:{alt |
   case <i><if(!choice.ast.greedy)>+1<endif>:
```

```
    <alt>
 break;}; separator="\n\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

$alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);

while ($alt !== <choice.exitAlt> && $alt !== ATN::INVALID_ALT_NUMBER) {
 if ($alt === 1<if(!choice.ast.greedy)>+1<endif>) {
  <iteration>
  <alts> <! should only be one !>
 }

 $this->setState(<choice.loopBackStateNumber>);
 $this->errorHandler->sync($this);

 $alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
}
>>

PlusBlock(choice, alts, error) ::= <<
$this->setState(<choice.blockStartStateNumber>); <! alt block decision !>
$this->errorHandler->sync($this);

$alt = 1<if(!choice.ast.greedy)>+1<endif>;

do {
 switch ($alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n\n">
 default:
  <error>
 }

 $this->setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
 $this->errorHandler->sync($this);

 $alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
} while ($alt !== <choice.exitAlt> && $alt !== ATN::INVALID_ALT_NUMBER);
>>

Sync(s) ::= "sync(<s.expecting.name>);"
```

```
ThrowNoViableAlt(t) ::= "throw new NoViableAltException($this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) === 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> && ((1 \<\< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<\< <offsetShiftConst(ttype, bits.shift)>)}; separator=" | ">)) !== 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>($<shiftAmount> - <offset>)<else>$<shiftAmount><endif>
%>
offsetShiftConst(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(self::<shiftAmount> - <offset>)<else>self::<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | $<s.varName> === self::<ttype>}; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{t | case self::<t>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
$this->setState(<r.stateNumber>);
<if(r.labels)><r.labels:{l | <labelref(l)> = }><endif>$this-><if(r.ast.options.p)>recursive<r.name;
format="cap"><else><r.name><endif>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif>
<argExprsChunks>);
>>

MatchToken(m) ::= <<
```

```
$this->setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>$this->match(self::<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
$this->setState(<m.stateNumber>);

<if(m.labels)><m.labels:{l | <labelref(l)> = }>$this->input->LT(1);<endif>
<capture>

if (<if(invert)>$<m.varName> \<= 0 || <else>!<endif>(<expr>)) {
    <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>$this->errorHandler->recoverInline($this);
} else {
 if ($this->input->LA(1) === Token::EOF) {
    $this->matchedEOF = true;
   }

 $this->errorHandler->reportMatch($this);
 $this->consume();
}
>>

Wildcard(w) ::= <<
$this->setState(<w.stateNumber>);
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>$this->matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
$this->setState(<p.stateNumber>);

if (!(<chunks>)) {
   throw new FailedPredicateException($this, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>);
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
```

```
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "$this->skip();"
LexerMoreCommand()  ::= "$this->more();"
LexerPopModeCommand() ::= "$this->popMode();"

LexerTypeCommand(arg, grammar)      ::= "$this->type = <arg>;"
LexerChannelCommand(arg, grammar)   ::= "$this->channel = <arg>;"
LexerModeCommand(arg, grammar)      ::= "$this->mode = <arg>;"
LexerPushModeCommand(arg, grammar)  ::= "$this->pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "$localContext-><a.name>"
LocalRef(a) ::= "$localContext-><a.name>"
RetValueRef(a) ::= "$localContext-><a.name>"
QRetValueRef(a) ::= "<ctx(a)>-><a.dict>-><a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>-><t.name>"
LabelRef(t) ::= "<ctx(t)>-><t.name>"
ListLabelRef(t) ::= "<ctx(t)>-><ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>-><s.name> = <rhsChunks>;"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getText() : null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getType() : 0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getLine() : 0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getChannel() : 0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>-><t.label> !== null ? (int) <ctx(t)>-><t.label>->getText() : 0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>-><r.label> !== null ? (<ctx(r)>-><r.label>->start) : null)"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>-><r.label> !== null ? (<ctx(r)>-><r.label>->stop) : null)"
RulePropertyRef_text(r)  ::= "(<ctx(r)>-><r.label> !== null ? $this->input->getTextByTokens(<ctx(r)>-><r.label>-
>start, <ctx(r)>-><r.label>->stop) : null)"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>-><r.label>"
RulePropertyRef_parser(r)::= "\$this"

ThisRulePropertyRef_start(r) ::= "$localContext->start"
ThisRulePropertyRef_stop(r)  ::= "$localContext->stop"
ThisRulePropertyRef_text(r)  ::= "$this->input->getTextByTokens($localContext->start, $this->input->LT(-1))"
```

```
ThisRulePropertyRef_ctx(r)  ::= "$localContext"
ThisRulePropertyRef_parser(r)::= "$this"

NonLocalAttrRef(s)        ::= "\$this->getInvokingContext(<s.ruleIndex>)-><s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "\$this->getInvokingContext(<s.ruleIndex>)-><s.name> = <rhsChunks>;"

AddToLabelList(a) ::= "<ctx(a.label)>-><a.listName>[] = <labelref(a.label)>;"

TokenDecl(t) ::= "<TokenLabelType()> $<t.name>"
TokenTypeDecl(t) ::= ""
TokenListDecl(t) ::= "array $<t.name> = []"
RuleContextDecl(r) ::= "<r.ctxName> $<r.name>"
RuleContextListDecl(rdecl) ::= "array $<rdecl.name> = []"
AttributeDecl(d) ::= "<d.type> $<d.name><if(d.initValue)> = <d.initValue><endif>"

PropertiesDecl(struct) ::= <<
<if(struct.tokenListDecls)>
 <struct.tokenListDecls : {d | /**
* @var array\<Token>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.tokenDecls)>
<if(struct.tokenListDecls)>

<endif>
 <struct.tokenDecls : {d | /**
* @var <TokenLabelType()>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.ruleContextDecls)>
<if(struct.tokenListDecls || struct.tokenDecls)>

<endif>
 <struct.ruleContextDecls : {d | /**
* @var <d.ctxName>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.ruleContextListDecls)>
<if(struct.tokenListDecls || struct.tokenDecls || struct.ruleContextDecls)>

<endif>
 <struct.ruleContextListDecls : {d | /**
* @var array\<<d.ctxName>\>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
```

```
<endif>
<if(struct.attributeDecls)>
<if(struct.tokenListDecls || struct.tokenDecls || struct.ruleContextDecls || struct.ruleContextListDecls)>

<endif>
 <struct.attributeDecls : {d | /**
* @var <d.type><if(!d.initValue)>|null<endif> $<d.name>
*/
public $<d.name><if(d.initValue)> = <d.initValue><endif>;}; separator="\n\n">
<endif>

>>

ContextTokenGetterDecl(t) ::= <<
public function <t.name>() : ?TerminalNode
{
   return $this->getToken(<parser.name>::<t.name>, 0);
}
>>

ContextTokenListGetterDecl(t)  ::= <<
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
/**
* @return array\<TerminalNode>|TerminalNode|null
*/
public function <t.name>(?int $index = null)
{
 if ($index === null) {
  return $this->getTokens(<parser.name>::<t.name>);
 }

   return $this->getToken(<parser.name>::<t.name>, $index);
}
>>

ContextRuleGetterDecl(r)       ::= <<
public function <r.name>() : ?<r.ctxName>
{
 return $this->getTypedRuleContext(<r.ctxName>::class, 0);
}
>>

ContextRuleListGetterDecl(r)   ::= <<
>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
```

```
/**
* @return array\<<r.ctxName>\>|<r.ctxName>|null
*/
public function <r.name>(?int $index = null)
{
 if ($index === null) {
  return $this->getTypedRuleContexts(<r.ctxName>::class);
 }

   return $this->getTypedRuleContext(<r.ctxName>::class, $index);
}
>>

LexerRuleContext() ::= "RuleContext"

/**
* The rule context name is the rule followed by a suffix; e.g., r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "$<d.varName> = \$this->input->LT(1);"
CaptureNextTokenType(d) ::= "$<d.varName> = $this->input->LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers) ::= <<
class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=", "><endif>
{
<PropertiesDecl(struct)>
 public function __construct(?ParserRuleContext $parent, ?int $invokingState = null<ctorAttrs:{a | , ?<a> = null}>)
 {
  parent::__construct($parent, $invokingState);
<if(struct.ctorAttrs)>

  <struct.ctorAttrs:{a | $this-><a.name> = $<a.name> ?? $this-><a.name>;}; separator="\n">
<endif>
 }

 public function getRuleIndex() : int
 {
     return <parser.name>::RULE_<struct.derivedFromName>;
   }
<if(getters)>
```

```
   <getters:{g | <g>}; separator="\n\n">
<endif>
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public function copyFrom(ParserRuleContext $context) : void
 {
  parent::copyFrom($context);

  <struct.attrs:{a | $this-><a.name> = $context-><a.name>;}; separator="\n">
 }
<endif>
<if(dispatchMethods)>

 <dispatchMethods; separator="\n\n">
<endif>
<if(extensionMembers)>

 <extensionMembers; separator="\n\n">
<endif>
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name> extends <struct.parentRule; format="cap">Context
{
<PropertiesDecl(struct)>
 public function __construct(<struct.parentRule; format="cap">Context $context)
 {
     parent::__construct($context);

     $this->copyFrom($context);
   }
<if(getters)>

   <getters:{g | <g>}; separator="\n\n">
<endif>
<if(dispatchMethods)>

 <dispatchMethods; separator="\n\n">
<endif>
}
>>

ListenerDispatchMethod(method) ::= <<
public function <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener $listener) : void
{
 if ($listener instanceof <parser.grammarName>Listener) {
     $listener-><if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">($this);
```

```
   }
}
>>

VisitorDispatchMethod(method) ::= <<
public function accept(ParseTreeVisitor $visitor)
{
 if ($visitor instanceof <parser.grammarName>Visitor) {
     return $visitor->visit<struct.derivedFromName; format="cap">($this);
   }

 return $visitor->visitChildren($this);
}
>>

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>$localContext-><endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "$localContext"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "\$this->precpred(\$this->ctx, <opPrec>)"

recRuleSetReturnAction(src,name)   ::= "\$<name> = \$<src>-><name>;"

recRuleSetStopToken()                ::= "$this->ctx->stop = $this->input->LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
$localContext = new Context\\<ctxName>Context($parentContext, $parentState);
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
<else>
$localContext-><label> = $previousContext;
<endif>
<endif>

$this->pushNewRecursionContext($localContext, $startState, self::RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
$localContext = new Context\\<currentAltLabel; format="cap">Context(new Context\\<ruleName;
format="cap">Context($parentContext, $parentState));
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
<else>
```

```
$localContext-><label> = $previousContext;
<endif>
<endif>

$this->pushNewRecursionContext($localContext, $startState, self::RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
$localContext = new Context\\<ctxName>Context($localContext);
$this->ctx = $localContext;
$previousContext = $localContext;
>>

recRuleSetPrevCtx() ::= <<
if ($this->getParseListeners() !== null) {
  $this->triggerExitRuleEvent();
}

$previousContext = $localContext;
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
namespace<if(lexerFile.genPackage)> <lexerFile.genPackage><endif> {
<if(namedActions.header)><namedActions.header><endif>
 use Antlr\\Antlr4\\Runtime\\Atn\\ATNDeserializer;
 use Antlr\\Antlr4\\Runtime\\Atn\\LexerATNSimulator;
 use Antlr\\Antlr4\\Runtime\\Lexer;
 use Antlr\\Antlr4\\Runtime\\CharStream;
 use Antlr\\Antlr4\\Runtime\\PredictionContexts\\PredictionContextCache;
 use Antlr\\Antlr4\\Runtime\\RuleContext;
 use Antlr\\Antlr4\\Runtime\\Atn\\ATN;
 use Antlr\\Antlr4\\Runtime\\Dfa\\DFA;
 use Antlr\\Antlr4\\Runtime\\Vocabulary;
 use Antlr\\Antlr4\\Runtime\\RuntimeMetaData;
 use Antlr\\Antlr4\\Runtime\\VocabularyImpl;
<if(namedActions.definitions)><namedActions.definitions><endif>

 final class <lexer.name> extends <superClass; null="Lexer">
 {
  <if(lexer.tokens)>
  public const <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
  <endif>
```

```
  <if(lexer.channels)>
  public const <lexer.channels:{c | <c> = <lexer.channels.(c)>}; separator=", ", wrap, anchor>;
  <endif>

  <if(rest(lexer.modes))>
  public const <rest(lexer.modes):{m | <m>=<i>}; separator=", ", wrap, anchor>;
  <endif>

  /**
   * @var array\<string>
   */
  public const CHANNEL_NAMES = [
   'DEFAULT_TOKEN_CHANNEL', 'HIDDEN'<if (lexer.channels)>, <lexer.channels:{c| '<c>'}; separator=", ",
wrap, anchor><endif>
  ];

  /**
   * @var array\<string>
   */
  public const MODE_NAMES = [
   <lexer.modes:{m| '<m>'}; separator=", ", wrap, anchor>
  ];

  /**
   * @var array\<string>
   */
  public const RULE_NAMES = [
   <lexer.ruleNames:{r | '<r>'}; separator=", ", wrap, anchor>
  ];

  <vocabulary(lexer.literalNames, lexer.symbolicNames)>

  <atn>
  protected static $atn;
  protected static $decisionToDFA;
  protected static $sharedContextCache;
<if(namedActions.members)>

  <namedActions.members>
<endif>

  public function __construct(CharStream $input)
  {
   parent::__construct($input);

   self::initialize();
```

```
 $this->interp = new LexerATNSimulator($this, self::$atn, self::$decisionToDFA, self::$sharedContextCache);
}

private static function initialize() : void
{
 if (self::$atn !== null) {
  return;
 }

 RuntimeMetaData::checkVersion('<lexerFile.ANTLRVersion>', RuntimeMetaData::VERSION);

 $atn = (new ATNDeserializer())->deserialize(self::SERIALIZED_ATN);

 $decisionToDFA = [];
 for ($i = 0, $count = $atn->getNumberOfDecisions(); $i \< $count; $i++) {
  $decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
 }

 self::$atn = $atn;
 self::$decisionToDFA = $decisionToDFA;
 self::$sharedContextCache = new PredictionContextCache();
}

public static function vocabulary() : Vocabulary
{
 static $vocabulary;

 return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES, self::SYMBOLIC_NAMES);
}

public function getGrammarFileName() : string
{
 return '<lexer.grammarFileName>';
}

public function getRuleNames() : array
{
 return self::RULE_NAMES;
}

public function getSerializedATN() : string
{
 return self::SERIALIZED_ATN;
}

/**
 * @return array\<string>
 */
```

```
  public function getChannelNames() : array
  {
   return self::CHANNEL_NAMES;
  }

  /**
   * @return array\<string>
   */
  public function getModeNames() : array
  {
   return self::MODE_NAMES;
  }

  public function getATN() : ATN
  {
   return self::$atn;
  }

  public function getVocabulary() : Vocabulary
  {
   return self::vocabulary();
  }
  <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
 }
}
>>

SerializedATN(model) ::= <<
<if(rest(model.segments))>
/**
* @var string
*/
private const SERIALIZED_ATN =
 <model.segments:{segment| "<segment; wrap={" .<\n>"}>"}; separator=" .\n">;
<else>
/**
* @var string
*/
private const SERIALIZED_ATN =
 "<model.serialized; wrap={" .<\n>    "}>";
<endif>
>>

/**
* Using a type to init value map, try to init a type; if not in table
* must be an object, default value is `null`.
*/
initValue(typeName) ::= <<
```

<phpTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".php"

Found in path(s):
* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/tool/templates/codegen/PHP/PHP.stg
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* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/parse/ANTLRLexer.java

1.32 iproute2 5.6.0

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1.34 json-c 0.14

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1.35 libcurl 7.69.1

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1.36 fastutil 8.4.4

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1.37 textwrap3 0.9.2

1.37.1 Available under license :

No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: textwrap3
Version: 0.9.2
Summary: textwrap from Python 3.6 backport (plus a few tweaks)
Home-page: https://github.com/jonathaneunice/textwrap3
Author: Jonathan Eunice
Author-email: jonathan.eunice@gmail.com
License: Python Software Foundation License
Description:

```
| |travisci| |version| |versions| |impls| |wheel| |coverage|

.. |travisci| image:: https://api.travis-ci.org/jonathaneunice/textwrap3.svg
   :target: http://travis-ci.org/jonathaneunice/textwrap3

.. |version| image:: http://img.shields.io/pypi/v/textwrap3.svg?style=flat
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```
    :alt: Supported versions
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    :alt: Wheel packaging support
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    :alt: Test line coverage
    :target: https://pypi.python.org/pypi/textwrap3


``textwrap3`` is a compatibility back-port of Python 3.6's ``textwrap``
module that supports Python 2.6 forward. (Though honestly, if you're not
already using *at least* 2.7, you're way behind the times!)

This makes a few new
APIs such as ``shorten`` and the ``max_lines`` parameter available
in a compatible way to all Python versions typically in current use.

Import and use it like you would ``textwrap`` from the standard library::

    from textwrap3 import wrap

    text = 'long text here...'
    print(wrap(text, 40))

The standard `textwrap documentation <https://docs.python.org/3.6/library/textwrap.html>`_
is the best reference material.

Bias and Tweaks
===============

By design, Python 3 sensibilities and expectations rule. Especially when
processing text that includes Unicode characters, ``textwrap3``'s results may
differ a bit from those of the ``textwrap`` of the underlying Python version
(esp. 2.x). In particular, ``textwrap3`` uses the ``re.UNICODE`` flag so that
non-ASCII characters such as accented letters are considered legitimate word
characters.

It also adds one tweak, considering the Unicode em-dash
(``'\N{EM DASH}'`` or ``u'\u2014'``) identical to the simulated ASCII em-dash
``'--'``.
```

Notes
=====

* See ``CHANGES.yml`` for the Change Log.

* This module is almost entirely the work of Gregory P. Ward
  (``textwrap``'s original author) plus enhancements from the Python
  community. This separate packaging is just a delivery and
  compatibility vehicle. It contributes cross-Python
  version compatibility shims, a few additional tests, and better
  handling of real em-dashes. The vast majority of functionality
  still comes from the standard ``textwrap`` code base, as of the
  Python 3.6 release.

Installation
============

To install or upgrade to the latest version::

```
pip install -U textwrap3
```

You may need to prefix these with ``sudo`` to authorize
installation. In environments without super-user privileges, you may want to
use ``pip``'s ``--user`` option, to install only for a single user, rather
than system-wide. Depending on your system configuration, you may also
need to use separate ``pip2`` and ``pip3`` programs to install for Python
2 and 3 respectively.

Keywords: text wrap fill textwrap
Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Operating System :: OS Independent
Classifier: License :: OSI Approved :: Python Software Foundation License
Classifier: Intended Audience :: Developers
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
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* /opt/cola/permits/1195294394_1629744412.37/0/textwrap3-0-9-2-1-zip/textwrap3-0.9.2/textwrap3.egg-info/PKG-INFO
* /opt/cola/permits/1195294394_1629744412.37/0/textwrap3-0-9-2-1-zip/textwrap3-0.9.2/PKG-INFO

1.38 jsonschema 3.2.0

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1.39 antlr4ts 0.5.0-alpha.4

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1.40 zlib 1.2.11

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

1.41 pgadmin4 4.27

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pgAdmin 4

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1.42 express-session 1.17.1

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1.43 gmp 6.2.0

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1.44 flatpickr 4.6.9

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1.45 antlr4-c3 1.1.13

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1.46 jBCrypt 0.4.3

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1.47 protobuf-c 1.3.3

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1.48 socat 1.7.3.4

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1.49 vip-manager 1.0.1

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1.50 ldapts 2.10.1

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1.51 codemirror 5.59.1

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1.52 jts-core 1.17.1

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1.54 postgis 3.0.2

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    envelope.hpp
    for_each_point.hpp
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    line_string.hpp
    multi_line_string.hpp
    multi_point.hpp
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    point_arithmetic.hpp
    point.hpp
    polygon.hpp
   geometry.hpp
   geometry_io.hpp

2 directories, 15 files
```

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mapbox
   geometry
      wagyu
         active_bound_list.hpp
         bound.hpp
         bubble_sort.hpp
         build_edges.hpp
         build_local_minima_list.hpp
         build_result.hpp
         config.hpp
         edge.hpp
         interrupt.hpp
         intersect.hpp
         intersect_util.hpp
         local_minimum.hpp
         local_minimum_util.hpp
```

point.hpp
process_horizontal.hpp
process_maxima.hpp
quick_clip.hpp
ring.hpp
ring_util.hpp
scanbeam.hpp
snap_rounding.hpp
topology_correction.hpp
util.hpp
vatti.hpp
wagyu.hpp

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Author : Angus Johnson
Version : 6.4.0
Date : 2 July 2015
Website : http://www.angusj.com

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1.55 jgrapht-io 1.5.0

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* /opt/cola/permits/1195288354_1629742777.65/0/slf4j-api-1-8-0-beta4-sources-4-jar/org/slf4j/helpers/BasicMarker.java
* /opt/cola/permits/1195288354_1629742777.65/0/slf4j-api-1-8-0-beta4-sources-4-jar/org/slf4j/helpers/FormattingTuple.java
* /opt/cola/permits/1195288354_1629742777.65/0/slf4j-api-1-8-0-beta4-sources-4-jar/org/slf4j/helpers/SubstituteLogger.java
* /opt/cola/permits/1195288354_1629742777.65/0/slf4j-api-1-8-0-beta4-sources-4-jar/org/slf4j/MarkerFactory.java
* /opt/cola/permits/1195288354_1629742777.65/0/slf4j-api-1-8-0-beta4-sources-4-jar/org/slf4j/spi/MarkerFactoryBinder.java
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* /opt/cola/permits/1195288354_1629742777.65/0/slf4j-api-1-8-0-beta4-sources-4-jar/org/slf4j/helpers/NamedLoggerBase.java
* /opt/cola/permits/1195288354_1629742777.65/0/slf4j-api-1-8-0-beta4-sources-4-jar/org/slf4j/helpers/BasicMarkerFactory.java
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* /opt/cola/permits/1195288354_1629742777.65/0/slf4j-api-1-8-0-beta4-sources-4-jar/org/slf4j/helpers/SubstituteLoggerFactory.java

* /opt/cola/permits/1195288354_1629742777.65/0/slf4j-api-1-8-0-beta4-sources-4-jar/org/slf4j/helpers/NOPLogger.java
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1.58 log4j 2.14.0

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1.59 tornado 5.1.1

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doc/sitemap_gen.py

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util/unlink.py
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backport frop python3 Lib/test/support.py

1.61 idna-ssl 1.1.0

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1.62 xhr 2.6.0

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1.63 deepmerge 4.2.2

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1.64 guava 30.0-jre

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1.65 nodejs 12.20.1

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1.67 ejs 3.1.5

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1.68 path-to-regexp 6.1.0, 6.2.0

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1.69 argcomplete 1.12.1

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```
# Copyright 2012-2019, Andrey Kislyuk and argcomplete contributors.
# Licensed under the Apache License. See https://github.com/kislyuk/argcomplete for more info.

# Copy of __expand_tilde_by_ref from bash-completion
__python_argcomplete_expand_tilde_by_ref () {
  if [ "${!1:0:1}" = "~" ]; then
    if [ "${!1}" != "${!1//\/}" ]; then
      eval $1="${!1/%\/*}"'/'${!1#*/}';
    else
      eval $1="${!1}";
    fi;
  fi
}

# Run something, muting output or redirecting it to the debug stream
# depending on the value of _ARC_DEBUG.
# If ARGCOMPLETE_USE_TEMPFILES is set, use tempfiles for IPC.
__python_argcomplete_run() {
  if [[ -z "${ARGCOMPLETE_USE_TEMPFILES-}" ]]; then
    __python_argcomplete_run_inner "$@"
    return
  fi
  local tmpfile="$(mktemp)"
  _ARGCOMPLETE_STDOUT_FILENAME="$tmpfile" __python_argcomplete_run_inner "$@"
  local code=$?
  cat "$tmpfile"
  rm "$tmpfile"
  return $code
}

__python_argcomplete_run_inner() {
```

```
  if [[ -z "${_ARC_DEBUG-}" ]]; then
    "$@" 8>&1 9>&2 1>/dev/null 2>&1
  else
    "$@" 8>&1 9>&2 1>&9 2>&1
  fi
}

# Scan the beginning of an executable file ($1) for a regexp ($2). By default,
# scan for the magic string indicating that the executable supports the
# argcomplete completion protocol. By default, scan the first kilobyte;
# if $3 is set to -n, scan until the first line break up to a kilobyte.
__python_argcomplete_scan_head() {
  read -s -r ${3:--N} 1024 < "$1"
  [[ "$REPLY" =~ ${2:-PYTHON_ARGCOMPLETE_OK} ]]
}

__python_argcomplete_scan_head_noerr() {
  __python_argcomplete_scan_head "$@" 2>/dev/null
}

_python_argcomplete_global() {
  local executable=$1
  __python_argcomplete_expand_tilde_by_ref executable

  local ARGCOMPLETE=0
  if [[ "$executable" == python* ]] || [[ "$executable" == pypy* ]]; then
    if [[ "${COMP_WORDS[1]}" == -m ]]; then
      if __python_argcomplete_run "$executable" -m argcomplete._check_module "${COMP_WORDS[2]}"; then
        ARGCOMPLETE=3
      else
        return
      fi
    elif [[ -f "${COMP_WORDS[1]}" ]] && __python_argcomplete_scan_head_noerr "${COMP_WORDS[1]}";
then
      local ARGCOMPLETE=2
    else
      return
    fi
  elif type -P "$executable" >/dev/null 2>&1; then
    local SCRIPT_NAME=$(type -P "$executable")
    if (type -t pyenv && [[ "$SCRIPT_NAME" = $(pyenv root)/shims/* ]]) >/dev/null 2>&1; then
      local SCRIPT_NAME=$(pyenv which "$executable")
    fi
    if __python_argcomplete_scan_head_noerr "$SCRIPT_NAME"; then
      local ARGCOMPLETE=1
    elif __python_argcomplete_scan_head_noerr "$SCRIPT_NAME" '^#!(.*)$' -n && [[
"${BASH_REMATCH[1]}" =~ ^.*(python|pypy)[0-9\.]*$ ]]; then
      local interpreter="$BASH_REMATCH"
```

```
        if (__python_argcomplete_scan_head_noerr "$SCRIPT_NAME" "(PBR Generated)|(EASY-INSTALL-
(SCRIPT|ENTRY-SCRIPT|DEV-SCRIPT))" \
            && "$interpreter" "$(type -P python-argcomplete-check-easy-install-script)" "$SCRIPT_NAME")
>/dev/null 2>&1; then
            local ARGCOMPLETE=1
        elif __python_argcomplete_run "$interpreter" -m argcomplete._check_console_script "$SCRIPT_NAME";
then
            local ARGCOMPLETE=1
        fi
    fi
  fi

  if [[ $ARGCOMPLETE != 0 ]]; then
    local IFS=$(echo -e '\v')
    COMPREPLY=( $(_ARGCOMPLETE_IFS="$IFS" \
        COMP_LINE="$COMP_LINE" \
        COMP_POINT="$COMP_POINT" \
        COMP_TYPE="$COMP_TYPE" \
        _ARGCOMPLETE_COMP_WORDBREAKS="$COMP_WORDBREAKS" \
        _ARGCOMPLETE=$ARGCOMPLETE \
        _ARGCOMPLETE_SUPPRESS_SPACE=1 \
        __python_argcomplete_run "$executable" "${COMP_WORDS[@]:1:ARGCOMPLETE-1}") )
    if [[ $? != 0 ]]; then
        unset COMPREPLY
    elif [[ "${COMPREPLY-}" =~ [=/:]$ ]]; then
        compopt -o nospace
    fi
  else
    type -t _completion_loader | grep -q 'function' && _completion_loader "$@"
  fi
}
complete -o default -o bashdefault -D -F _python_argcomplete_global
```

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Metadata-Version: 2.1
Name: argcomplete
Version: 1.12.1
Summary: Bash tab completion for argparse
Home-page: https://github.com/kislyuk/argcomplete
Author: Andrey Kislyuk
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Description: argcomplete - Bash tab completion for argparse
==========
Tab complete all the things!

Argcomplete provides easy, extensible command line tab completion of arguments for your Python script.

It makes two assumptions:

* You're using bash as your shell (limited support for zsh, fish, and tcsh is available)
* You're using `argparse <http://docs.python.org/3/library/argparse.html>`_ to manage your command line

arguments/options

Argcomplete is particularly useful if your program has lots of options or subparsers, and if your program can dynamically suggest completions for your argument/option values (for example, if the user is browsing resources over the network).

Installation

::

```
pip install argcomplete
activate-global-python-argcomplete
```

See `Activating global completion`_ below for details about the second step (or if it reports an error).

Refresh your bash environment (start a new shell or ``source /etc/profile``).

Synopsis

Python code (e.g. ``my-awesome-script``):

.. code-block:: python

```
#!/usr/bin/env python
# PYTHON_ARGCOMPLETE_OK
import argcomplete, argparse
parser = argparse.ArgumentParser()
...
argcomplete.autocomplete(parser)
args = parser.parse_args()
...
```

Shellcode (only necessary if global completion is not activated - see `Global completion`_ below), to be put in e.g. ``.bashrc``::

```
eval "$(register-python-argcomplete my-awesome-script)"
```

argcomplete.autocomplete(*parser*)
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
This method is the entry point to the module. It must be called **after** ArgumentParser construction is complete, but **before** the ``ArgumentParser.parse_args()`` method is called. The method looks for an environment variable that the completion hook shellcode sets, and if it's there, collects completions, prints them to the output stream (fd 8 by default), and exits. Otherwise, it returns to the caller immediately.

.. admonition:: Side effects
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Argcomplete gets completions by running your program. It intercepts the execution flow at the moment ``argcomplete.autocomplete()`` is called. After sending completions, it exits using ``exit_method`` (``os._exit`` by default). This means if your program has any side effects that happen before ``argcomplete`` is called, those side effects will happen every time the user presses ``<TAB>`` (although anything your program prints to stdout or stderr will be suppressed). For this reason it's best to construct the argument parser and call ``argcomplete.autocomplete()`` as early as possible in your execution flow.

.. admonition:: Performance

If the program takes a long time to get to the point where ``argcomplete.autocomplete()`` is called, the tab completion process will feel sluggish, and the user may lose confidence in it. So it's also important to minimize the startup time of the program up to that point (for example, by deferring initialization or importing of large modules until after parsing options).

Specifying completers

You can specify custom completion functions for your options and arguments. Two styles are supported: callable and readline-style. Callable completers are simpler. They are called with the following keyword arguments:

* ``prefix``: The prefix text of the last word before the cursor on the command line.
  For dynamic completers, this can be used to reduce the work required to generate possible completions.
* ``action``: The ``argparse.Action`` instance that this completer was called for.
* ``parser``: The ``argparse.ArgumentParser`` instance that the action was taken by.
* ``parsed_args``: The result of argument parsing so far (the ``argparse.Namespace`` args object normally returned by ``ArgumentParser.parse_args()``).

Completers should return their completions as a list of strings. An example completer for names of environment variables might look like this:

.. code-block:: python

```
def EnvironCompleter(**kwargs):
    return os.environ
```

To specify a completer for an argument or option, set the ``completer`` attribute of its associated action. An easy way to do this at definition time is:

.. code-block:: python

```
from argcomplete.completers import EnvironCompleter

parser = argparse.ArgumentParser()
```

```
parser.add_argument("--env-var1").completer = EnvironCompleter
parser.add_argument("--env-var2").completer = EnvironCompleter
argcomplete.autocomplete(parser)
```

If you specify the ``choices`` keyword for an argparse option or argument (and don't specify a completer), it will be
used for completions.

A completer that is initialized with a set of all possible choices of values for its action might look like this:

.. code-block:: python

```
class ChoicesCompleter(object):
    def __init__(self, choices):
        self.choices = choices

    def __call__(self, **kwargs):
        return self.choices
```

The following two ways to specify a static set of choices are equivalent for completion purposes:

.. code-block:: python

```
from argcomplete.completers import ChoicesCompleter

parser.add_argument("--protocol", choices=('http', 'https', 'ssh', 'rsync', 'wss'))
parser.add_argument("--proto").completer=ChoicesCompleter(('http', 'https', 'ssh', 'rsync', 'wss'))
```

Note that if you use the ``choices=<completions>`` option, argparse will show
all these choices in the ``--help`` output by default. To prevent this, set
``metavar`` (like ``parser.add_argument("--protocol", metavar="PROTOCOL",
choices=('http', 'https', 'ssh', 'rsync', 'wss'))``).

The following `script <https://raw.github.com/kislyuk/argcomplete/master/docs/examples/describe_github_user.py>`_ uses
``parsed_args`` and `Requests <http://python-requests.org/>`_ to query GitHub for publicly known members of an
organization and complete their names, then prints the member description:

.. code-block:: python

```
#!/usr/bin/env python
# PYTHON_ARGCOMPLETE_OK
import argcomplete, argparse, requests, pprint

def github_org_members(prefix, parsed_args, **kwargs):
    resource = "https://api.github.com/orgs/{org}/members".format(org=parsed_args.organization)
    return (member['login'] for member in requests.get(resource).json() if member['login'].startswith(prefix))
```

```
parser = argparse.ArgumentParser()
parser.add_argument("--organization", help="GitHub organization")
parser.add_argument("--member", help="GitHub member").completer = github_org_members

argcomplete.autocomplete(parser)
args = parser.parse_args()

pprint.pprint(requests.get("https://api.github.com/users/{m}".format(m=args.member)).json())
```

`Try it <https://raw.github.com/kislyuk/argcomplete/master/docs/examples/describe_github_user.py>`_ like this::

```
./describe_github_user.py --organization heroku --member <TAB>
```

If you have a useful completer to add to the `completer library <https://github.com/kislyuk/argcomplete/blob/master/argcomplete/completers.py>`_, send a pull request!

Readline-style completers
~~~~~~~~~~~~~~~~~~~~~~~~~

The readline_ module defines a completer protocol in rlcompleter_. Readline-style completers are also supported by argcomplete, so you can use the same completer object both in an interactive readline-powered shell and on the bash command line. For example, you can use the readline-style completer provided by IPython_ to get introspective completions like you would get in the IPython shell:

.. _readline: http://docs.python.org/3/library/readline.html
.. _rlcompleter: http://docs.python.org/3/library/rlcompleter.html#completer-objects
.. _IPython: http://ipython.org/

.. code-block:: python

```
import IPython
parser.add_argument("--python-name").completer = IPython.core.completer.Completer()
```

``argcomplete.CompletionFinder.rl_complete`` can also be used to plug in an argparse parser as a readline completer.

Printing warnings in completers
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Normal stdout/stderr output is suspended when argcomplete runs. Sometimes, though, when the user presses ``<TAB>``, it's appropriate to print information about why completions generation failed. To do this, use ``warn``:

.. code-block:: python

```
from argcomplete import warn
```

```
def AwesomeWebServiceCompleter(prefix, **kwargs):
    if login_failed:
        warn("Please log in to Awesome Web Service to use autocompletion")
    return completions
```

Using a custom completion validator
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

By default, argcomplete validates your completions by checking if they start with the prefix given to the completer. You can override this validation check by supplying the ``validator`` keyword to ``argcomplete.autocomplete()``:

.. code-block:: python

```
def my_validator(current_input, keyword_to_check_against):
    # Pass through ALL options even if they don't all start with 'current_input'
    return True

argcomplete.autocomplete(parser, validator=my_validator)
```

Global completion

In global completion mode, you don't have to register each argcomplete-capable executable separately. Instead, bash will look for the string **PYTHON_ARGCOMPLETE_OK** in the first 1024 bytes of any executable that it's running completion for, and if it's found, follow the rest of the argcomplete protocol as described above.

Additionally, completion is activated for scripts run as ``python <script>`` and ``python -m <module>``. This also works for alternate Python versions (e.g. ``python3`` and ``pypy``), as long as that version of Python has argcomplete installed.

.. admonition:: Bash version compatibility

Global completion requires bash support for ``complete -D``, which was introduced in bash 4.2. On OS X or older Linux systems, you will need to update bash to use this feature. Check the version of the running copy of bash with ``echo $BASH_VERSION``. On OS X, install bash via `Homebrew <http://brew.sh/>`_ (``brew install bash``), add ``/usr/local/bin/bash`` to ``/etc/shells``, and run ``chsh`` to change your shell.

Global completion is not currently compatible with zsh.

.. note:: If you use setuptools/distribute ``scripts`` or ``entry_points`` directives to package your module, argcomplete will follow the wrapper scripts to their destination and look for ``PYTHON_ARGCOMPLETE_OK`` in the destination code.
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

If you choose not to use global completion, or ship a bash completion module that depends on argcomplete, you must
register your script explicitly using ``eval "$(register-python-argcomplete my-awesome-script)"``. Standard bash
completion registration roules apply: namely, the script name is passed directly to ``complete``, meaning it is only tab
completed when invoked exactly as it was registered. In the above example, ``my-awesome-script`` must be on the path,
and the user must be attempting to complete it by that name. The above line alone would **not** allow you to complete
``./my-awesome-script``, or ``/path/to/my-awesome-script``.

Activating global completion
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
The script ``activate-global-python-argcomplete`` will try to install the file
``bash_completion.d/python-argcomplete`` (`see on GitHub`_) into an appropriate location on your system
(``/etc/bash_completion.d/`` or ``~/.bash_completion.d/``). If it
fails, but you know the correct location of your bash completion scripts directory, you can specify it with ``--dest``::

```
activate-global-python-argcomplete --dest=/path/to/bash_completion.d
```

Otherwise, you can redirect its shellcode output into a file::

```
activate-global-python-argcomplete --dest=- > file
```

The file's contents should then be sourced in e.g. ``~/.bashrc``.

.. _`see on GitHub`: https://github.com/kislyuk/argcomplete/blob/master/argcomplete/bash_completion.d/python-argcomplete

Zsh Support

To activate completions for zsh you need to have ``bashcompinit`` enabled in zsh::

```
autoload -U bashcompinit
bashcompinit
```

Afterwards you can enable completion for your scripts with ``register-python-argcomplete``::

```
eval "$(register-python-argcomplete my-awesome-script)"
```

Tcsh Support

To activate completions for tcsh use::
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

```
    eval `register-python-argcomplete --shell tcsh my-awesome-script`
```

The ``python-argcomplete-tcsh`` script provides completions for tcsh.
The following is an example of the tcsh completion syntax for
``my-awesome-script`` emitted by ``register-python-argcomplete``::

```
    complete my-awesome-script 'p@*@`python-argcomplete-tcsh my-awesome-script`@'
```

Fish Support

To activate completions for fish use::

```
    register-python-argcomplete --shell fish my-awesome-script | source
```

or create new completion file, e.g::

```
    register-python-argcomplete --shell fish ~/.config/fish/completions/my-awesome-script.fish
```

Completion Description For Fish
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
By default help string is added as completion description.

.. image:: docs/fish_help_string.png

You can disable this feature by removing ``_ARGCOMPLETE_DFS`` variable, e.g::

```
    register-python-argcomplete --shell fish my-awesome-script | grep -v _ARGCOMPLETE_DFS | .
```

Git Bash Support

Due to limitations of file descriptor inheritance on Windows,
Git Bash not supported out of the box. You can opt in to using
temporary files instead of file descriptors for for IPC
by setting the environment variable ``ARGCOMPLETE_USE_TEMPFILES``,
e.g. by adding ``export ARGCOMPLETE_USE_TEMPFILES=1`` to ``~/.bashrc``.

For full support, consider using Bash with the
Windows Subsystem for Linux (WSL).

External argcomplete script

To register an argcomplete script for an arbitrary name, the ``--external-argcomplete-script`` argument of the ``register-python-argcomplete`` script can be used::

```
    eval "$(register-python-argcomplete --external-argcomplete-script /path/to/script arbitrary-name)"
```

This allows, for example, to use the auto completion functionality of argcomplete for an application not written in Python.
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

The command line interface of this program must be additionally implemented in a Python script with argparse and argcomplete and whenever the application is called the registered external argcomplete script is used for auto completion.

This option can also be used in combination with the other supported shells.

Python Support

Argcomplete requires Python 2.7 or 3.5+.

Common Problems

If global completion is not completing your script, bash may have registered a
default completion function::

```
$ complete | grep my-awesome-script
complete -F _minimal my-awesome-script
```

You can fix this by restarting your shell, or by running
``complete -r my-awesome-script``.

Debugging

Set the ``_ARC_DEBUG`` variable in your shell to enable verbose debug output every time argcomplete runs. This will
disrupt the command line composition state of your terminal, but make it possible to see the internal state of the completer if it encounters problems.

Acknowledgments

Inspired and informed by the optcomplete_ module by Martin Blais.

.. _optcomplete: http://pypi.python.org/pypi/optcomplete

Links
---
* `Project home page (GitHub) <https://github.com/kislyuk/argcomplete>`_
* `Documentation <https://kislyuk.github.io/argcomplete/>`_
* `Package distribution (PyPI) <https://pypi.python.org/pypi/argcomplete>`_
* `Change log <https://github.com/kislyuk/argcomplete/blob/master/Changes.rst>`_
* `xontrib-argcomplete <https://github.com/anki-code/xontrib-argcomplete>`_ - support argcomplete in `xonsh <https://github.com/xonsh/xonsh>`_ shell

Bugs
~~~~
Please report bugs, issues, feature requests, etc. on `GitHub <https://github.com/kislyuk/argcomplete/issues>`_.

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~~~~

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Platform: MacOS X
Platform: Posix
Classifier: Environment :: Console
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Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
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Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.8
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Development Status :: 5 - Production/Stable
Classifier: Topic :: Software Development
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: System :: Shells
Classifier: Topic :: Terminals
Provides-Extra: test

Found in path(s):
* /opt/cola/permits/1195294263_1629744394.86/0/argcomplete-1-12-1-1-tar-gz/argcomplete-1.12.1/argcomplete.egg-info/PKG-INFO
* /opt/cola/permits/1195294263_1629744394.86/0/argcomplete-1-12-1-1-tar-gz/argcomplete-1.12.1/PKG-INFO
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1195294263_1629744394.86/0/argcomplete-1-12-1-1-tar-gz/argcomplete-1.12.1/scripts/activate-global-python-argcomplete

* /opt/cola/permits/1195294263_1629744394.86/0/argcomplete-1-12-1-1-tar-gz/argcomplete-1.12.1/scripts/register-python-argcomplete
* /opt/cola/permits/1195294263_1629744394.86/0/argcomplete-1-12-1-1-tar-gz/argcomplete-1.12.1/scripts/python-argcomplete-check-easy-install-script
* /opt/cola/permits/1195294263_1629744394.86/0/argcomplete-1-12-1-1-tar-gz/argcomplete-1.12.1/argcomplete/completers.py
* /opt/cola/permits/1195294263_1629744394.86/0/argcomplete-1-12-1-1-tar-gz/argcomplete-1.12.1/argcomplete/my_argparse.py
* /opt/cola/permits/1195294263_1629744394.86/0/argcomplete-1-12-1-1-tar-gz/argcomplete-1.12.1/argcomplete/__init__.py

1.70 express-rate-limit 5.2.3

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1.71 py3-pip 20.1.1

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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

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Release	Derived from	Year	Owner	GPL-compatible? (1)

2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.3	3.2	2012	PSF	yes

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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
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2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes

2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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1.75 six 1.15.0

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1.77 async-timeout 3.0.1

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1.82 debug 4.3.1

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Jdom-contrib version 1.1.3

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two files are LineNumberElement.java and LineNumberSAXHandler.java.

Typical users of this library will not need to depend on this module.

[1] https://github.com/hunterhacker/jdom/blob/master/LICENSE.txt

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analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
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```
<one line to give the program's name and a brief idea of what it does.>
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```

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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

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(http://morfologik.blogspot.com/)
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NekoHTML is a simple HTML scanner and tag balancer that enables
application programmers to parse HTML documents and access the
information using standard XML interfaces. The parser can scan HTML
files and "fix up" many common mistakes that human (and computer)
authors make in writing HTML documents. NekoHTML adds missing parent
elements; automatically closes elements with optional end tags; and can
handle mismatched inline element tags.

NekoHTML is written using the Xerces Native Interface (XNI) that is the
foundation of the Xerces2 implementation. This enables you to use the
NekoHTML parser with existing XNI tools without modification or
rewriting code.
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1.95 csrf 3.1.0

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1.96 python-devel 2.7.5

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)

0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
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1.97 pigz 2.3.4

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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes

2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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* /opt/cola/permits/1195288236_1629742822.74/0/netty-transport-native-epoll-4-1-49-final-sources-1-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
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* /opt/cola/permits/1195288236_1629742822.74/0/netty-transport-native-epoll-4-1-49-final-sources-1-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /opt/cola/permits/1195288236_1629742822.74/0/netty-transport-native-epoll-4-1-49-final-sources-1-jar/io/netty/channel/epoll/EpollMode.java
* /opt/cola/permits/1195288236_1629742822.74/0/netty-transport-native-epoll-4-1-49-final-sources-1-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
* /opt/cola/permits/1195288236_1629742822.74/0/netty-transport-native-epoll-4-1-49-final-sources-1-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
* /opt/cola/permits/1195288236_1629742822.74/0/netty-transport-native-epoll-4-1-49-final-sources-1-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/cola/permits/1195288236_1629742822.74/0/netty-transport-native-epoll-4-1-49-final-sources-1-jar/io/netty/channel/epoll/TcpMd5Util.java
* /opt/cola/permits/1195288236_1629742822.74/0/netty-transport-native-epoll-4-1-49-final-sources-1-jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /opt/cola/permits/1195288236_1629742822.74/0/netty-transport-native-epoll-4-1-49-final-sources-1-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
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* /opt/cola/permits/1195288236_1629742822.74/0/netty-transport-native-epoll-4-1-49-final-sources-1-jar/io/netty/channel/epoll/LinuxSocket.java
* /opt/cola/permits/1195288236_1629742822.74/0/netty-transport-native-epoll-4-1-49-final-sources-1-jar/netty_epoll_linuxsocket.c
* /opt/cola/permits/1195288236_1629742822.74/0/netty-transport-native-epoll-4-1-49-final-sources-1-jar/netty_epoll_linuxsocket.h
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*/
/**
    * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
    * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
    * Allowing them being read would mean anyone with access to the channel could get them.
    */
```

Found in path(s):
* /opt/cola/permits/1195288236_1629742822.74/0/netty-transport-native-epoll-4-1-49-final-sources-1-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java
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   * Allowing them being read would mean anyone with access to the channel could get them.
   */
/**
   * Set the {@code TCP_QUICKACK} option on the socket. See <a
href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
   * for more details.
   */
```

Found in path(s):
* /opt/cola/permits/1195288236_1629742822.74/0/netty-transport-native-epoll-4-1-49-final-sources-1-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java
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* /opt/cola/permits/1195288236_1629742822.74/0/netty-transport-native-epoll-4-1-49-final-sources-1-jar/io/netty/channel/epoll/EpollDatagramChannelConfig.java

1.103 vavr 0.10.3

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1.104 protobuf 3.12.2

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  * Detect whether zlib is new enough in configure script.
  * Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
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  * Optimize Java serialization of strings so that UTF-8 encoding happens only
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* Added atomicops for AIX (POWER)

1.105 preact 8.4.2, 10.5.9

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1.106 asyncssh 1.12.1

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* /opt/cola/permits/1195288252_1629742841.09/0/hikaricp-3-4-5-sources-2-jar/com/zaxxer/hikari/pool/ProxyStatement.java
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1.122 etcd 3.4.13

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Protocol Buffers for Go with Gadgets

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1.123 py3-setuptools 47.0.0

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1.124 chartjs-plugin-zoom 0.7.7

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1.125 sqlite-libs 3.32.1

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1.126 idna 2.9

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Found in path(s):
* /opt/cola/permits/1195293664_1629744303.2/0/kjd-idna-v2-9-0-g1233a73-1-tar-gz/kjd-idna-8a6016e/LICENSE.rst
No license file was found, but licenses were detected in source scan.

```
"""
A library to support the Internationalised Domain Names in Applications
(IDNA) protocol as specified in RFC 5890 et.al. This new methodology,
known as IDNA 2008, can generate materially different results to the
previous standard. The library can act as a drop-in replacement for
the "encodings.idna" module.
"""

import io, sys
from setuptools import setup


def main():

  python_version = sys.version_info[:2]
  if python_version < (2,7):
     raise SystemExit("Sorry, Python 2.7 or newer required")

  package_data = {}
  exec(open('idna/package_data.py').read(), package_data)

  arguments = {
     'name': 'idna',
     'packages': ['idna'],
     'version': package_data['__version__'],
     'description': 'Internationalized Domain Names in Applications (IDNA)',
     'long_description': io.open("README.rst", encoding="UTF-8").read(),
     'author': 'Kim Davies',
     'author_email': 'kim@cynosure.com.au',
     'license': 'BSD-like',
     'url': 'https://github.com/kjd/idna',
     'classifiers': [
        'Development Status :: 5 - Production/Stable',
        'Intended Audience :: Developers',
        'Intended Audience :: System Administrators',
        'License :: OSI Approved :: BSD License',
        'Operating System :: OS Independent',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
```

```
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: 3.7',
        'Programming Language :: Python :: 3.8',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: Name Service (DNS)',
        'Topic :: Software Development :: Libraries :: Python Modules',
        'Topic :: Utilities',
    ],
    'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
    'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
  main()
```

Found in path(s):
* /opt/cola/permits/1195293664_1629744303.2/0/kjd-idna-v2-9-0-g1233a73-1-tar-gz/kjd-idna-8a6016e/setup.py

1.127 dataclasses-json 0.5.2

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Metadata-Version: 2.1
Name: dataclasses-json
Version: 0.5.2
Summary: Easily serialize dataclasses to and from JSON
Home-page: https://github.com/lidatong/dataclasses-json
Author: lidatong
Author-email: charles.dt.li@gmail.com
License: MIT
Description: # Dataclasses JSON

This library provides a simple API for encoding and decoding [dataclasses](https://docs.python.org/3/library/dataclasses.html) to and from JSON.

It's very easy to get started.

[README / Documentation website](https://lidatong.github.io/dataclasses-json). Features a navigation bar and search functionality, and should mirror this README exactly -- take a look!

Quickstart

`pip install dataclasses-json`

```python
from dataclasses import dataclass
from dataclasses_json import dataclass_json

@dataclass_json
@dataclass
class SimpleExample:
    int_field: int

simple_example = SimpleExample(1)

# Encoding to JSON. Note the output is a string, not a dictionary.
simple_example.to_json()  # {"int_field": 1}

# Encoding to a (JSON) dict
simple_example.to_dict()  # {'int_field': 1}

# Decoding from JSON. Note the input is a string, not a dictionary.
SimpleExample.from_json('{"int_field": 1}')  # SimpleExample(1)

# Decoding from a (JSON) dict
SimpleExample.from_dict({'int_field': 1})  # SimpleExample(1)
```

What if you want to work with camelCase JSON?

```python
# same imports as above, with the additional `LetterCase` import
from dataclasses import dataclass
from dataclasses_json import dataclass_json, LetterCase

@dataclass_json(letter_case=LetterCase.CAMEL)  # now all fields are encoded/decoded from camelCase
@dataclass
class ConfiguredSimpleExample:
    int_field: int

ConfiguredSimpleExample(1).to_json()  # {"intField": 1}
ConfiguredSimpleExample.from_json('{"intField": 1}')  # ConfiguredSimpleExample(1)
```

Supported types

It's recursive (see caveats below), so you can easily work with nested dataclasses.
In addition to the supported types in the
[py to JSON table](https://docs.python.org/3/library/json.html#py-to-json-table), this library supports the

following:

- any arbitrary [Collection](https://docs.python.org/3/library/collections.abc.html#collections.abc.Collection) type is supported.
  [Mapping](https://docs.python.org/3/library/collections.abc.html#collections.abc.Mapping) types are encoded as JSON objects and `str` types as JSON strings.
  Any other Collection types are encoded into JSON arrays, but decoded into the original collection types.

- [datetime](https://docs.python.org/3/library/datetime.html#available-types)
  objects. `datetime` objects are encoded to `float` (JSON number) using
  [timestamp](https://docs.python.org/3/library/datetime.html#datetime.datetime.timestamp).
  As specified in the `datetime` docs, if your `datetime` object is naive, it will
  assume your system local timezone when calling `.timestamp()`. JSON numbers
  corresponding to a `datetime` field in your dataclass are decoded
  into a datetime-aware object, with `tzinfo` set to your system local timezone.
  Thus, if you encode a datetime-naive object, you will decode into a
  datetime-aware object. This is important, because encoding and decoding won't
  strictly be inverses. See [this section](#Overriding) if you want to override this default
  behavior (for example, if you want to use ISO).

- [UUID](https://docs.python.org/3/library/uuid.html#uuid.UUID) objects. They
  are encoded as `str` (JSON string).

- [Decimal](https://docs.python.org/3/library/decimal.html) objects. They are
  also encoded as `str`.

The [latest release](https://github.com/lidatong/dataclasses-json/releases/latest) is compatible with both Python 3.7 and Python 3.6 (with the dataclasses backport).

Usage

Approach 1: Class decorator

```python
from dataclasses import dataclass
from dataclasses_json import dataclass_json

@dataclass_json
@dataclass
class Person:
    name: str

lidatong = Person('lidatong')

# Encoding to JSON
lidatong.to_json()  # '{"name": "lidatong"}'

# Decoding from JSON
```

```
Person.from_json('{"name": "lidatong"}')  # Person(name='lidatong')
```

Note that the `@dataclass_json` decorator must be stacked above the `@dataclass`
decorator (order matters!)

Approach 2: Inherit from a mixin

```python
from dataclasses import dataclass
from dataclasses_json import DataClassJsonMixin

@dataclass
class Person(DataClassJsonMixin):
    name: str

lidatong = Person('lidatong')

# A different example from Approach 1 above, but usage is the exact same
assert Person.from_json(lidatong.to_json()) == lidatong
```

Pick whichever approach suits your taste. Note that there is better support for
 the mixin approach when using _static analysis_ tools (e.g. linting, typing),
 but the differences in implementation will be invisible in _runtime_ usage.

How do I...

Use my dataclass with JSON arrays or objects?

```python
from dataclasses import dataclass
from dataclasses_json import dataclass_json

@dataclass_json
@dataclass
class Person:
    name: str
```

Encode into a JSON array containing instances of my Data Class

```python
people_json = [Person('lidatong')]
Person.schema().dumps(people_json, many=True)  # '[{"name": "lidatong"}]'
```

Decode a JSON array containing instances of my Data Class

```python
people_json = '[{"name": "lidatong"}]'
Person.schema().loads(people_json, many=True)  # [Person(name='lidatong')]
```

Encode as part of a larger JSON object containing my Data Class (e.g. an HTTP request/response)

```python
import json

response_dict = {
    'response': {
        'person': Person('lidatong').to_dict()
    }
}

response_json = json.dumps(response_dict)
```

In this case, we do two steps. First, we encode the dataclass into a **python dictionary** rather than a JSON string, using `.to_dict`.

Second, we leverage the built-in `json.dumps` to serialize our `dataclass` into a JSON string.

Decode as part of a larger JSON object containing my Data Class (e.g. an HTTP response)

```python
import json

response_dict = json.loads('{"response": {"person": {"name": "lidatong"}}}')

person_dict = response_dict['response']

person = Person.from_dict(person_dict)
```

In a similar vein to encoding above, we leverage the built-in `json` module.

First, call `json.loads` to read the entire JSON object into a dictionary. We then access the key of the value containing the encoded dict of our `Person` that we want to decode (`response_dict['response']`).

Second, we load in the dictionary using `Person.from_dict`.

Encode or decode into Python lists/dictionaries rather than JSON?

This can be by calling `.schema()` and then using the corresponding
encoder/decoder methods, ie. `.load(...)`/`.dump(...)`.

Encode into a single Python dictionary

```python
person = Person('lidatong')
person.to_dict()  # {'name': 'lidatong'}
```

Encode into a list of Python dictionaries

```python
people = [Person('lidatong')]
Person.schema().dump(people, many=True)  # [{'name': 'lidatong'}]
```

Decode a dictionary into a single dataclass instance

```python
person_dict = {'name': 'lidatong'}
Person.from_dict(person_dict)  # Person(name='lidatong')
```

Decode a list of dictionaries into a list of dataclass instances

```python
people_dicts = [{"name": "lidatong"}]
Person.schema().load(people_dicts, many=True)  # [Person(name='lidatong')]
```

Encode or decode from camelCase (or kebab-case)?

JSON letter case by convention is camelCase, in Python members are by convention snake_case.

You can configure it to encode/decode from other casing schemes at both the class level and the field level.

```python
from dataclasses import dataclass, field

from dataclasses_json import LetterCase, config, dataclass_json
```

```
# changing casing at the class level
@dataclass_json(letter_case=LetterCase.CAMEL)
@dataclass
class Person:
    given_name: str
    family_name: str

Person('Alice', 'Liddell').to_json()  # '{"givenName": "Alice"}'
Person.from_json('{"givenName": "Alice", "familyName": "Liddell"}')  # Person('Alice', 'Liddell')

# at the field level
@dataclass_json
@dataclass
class Person:
    given_name: str = field(metadata=config(letter_case=LetterCase.CAMEL))
    family_name: str

Person('Alice', 'Liddell').to_json()  # '{"givenName": "Alice"}'
# notice how the `family_name` field is still snake_case, because it wasn't configured above
Person.from_json('{"givenName": "Alice", "family_name": "Liddell"}')  # Person('Alice', 'Liddell')
```

This library assumes your field follows the Python convention of snake_case naming.
If your field is not `snake_case` to begin with and you attempt to parameterize `LetterCase`,
the behavior of encoding/decoding is undefined (most likely it will result in subtle bugs).

Encode or decode using a different name

```python
from dataclasses import dataclass, field

from dataclasses_json import config, dataclass_json

@dataclass_json
@dataclass
class Person:
    given_name: str = field(metadata=config(field_name="overriddenGivenName"))

Person(given_name="Alice")  # Person('Alice')
Person.from_json('{"overriddenGivenName": "Alice"}')  # Person('Alice')
Person('Alice').to_json()  # {"overriddenGivenName": "Alice"}
```

Handle missing or optional field values when decoding?

By default, any fields in your dataclass that use `default` or
`default_factory` will have the values filled with the provided default, if the
corresponding field is missing from the JSON you're decoding.

Decode JSON with missing field

```python
@dataclass_json
@dataclass
class Student:
    id: int
    name: str = 'student'

Student.from_json('{"id": 1}')  # Student(id=1, name='student')
```

Notice `from_json` filled the field `name` with the specified default 'student'
when it was missing from the JSON.

Sometimes you have fields that are typed as `Optional`, but you don't
necessarily want to assign a default. In that case, you can use the
`infer_missing` kwarg to make `from_json` infer the missing field value as `None`.

Decode optional field without default

```python
@dataclass_json
@dataclass
class Tutor:
    id: int
    student: Optional[Student] = None

Tutor.from_json('{"id": 1}')  # Tutor(id=1, student=None)
```

Personally I recommend you leverage dataclass defaults rather than using
`infer_missing`, but if for some reason you need to decouple the behavior of
JSON decoding from the field's default value, this will allow you to do so.

Handle unknown / extraneous fields in JSON?

By default, it is up to the implementation what happens when a `json_dataclass` receives input parameters that are not defined.
(the `from_dict` method ignores them, when loading using `schema()` a ValidationError is raised.)
There are three ways to customize this behavior.

Assume you want to instantiate a dataclass with the following dictionary:
```python
dump_dict = {"endpoint": "some_api_endpoint", "data": {"foo": 1, "bar": "2"}, "undefined_field_name": [1, 2, 3]}
```

```

1. You can enforce to always raise an error by setting the `undefined` keyword to `Undefined.RAISE`
 (`'RAISE'` as a case-insensitive string works as well). Of course it works normally if you don't pass any undefined parameters.

```python
from dataclasses_json import Undefined

@dataclass_json(undefined=Undefined.RAISE)
@dataclass()
class ExactAPIDump:
    endpoint: str
    data: Dict[str, Any]

dump = ExactAPIDump.from_dict(dump_dict)  # raises UndefinedParameterError
```

2. You can simply ignore any undefined parameters by setting the `undefined` keyword to `Undefined.EXCLUDE`
 (`'EXCLUDE'` as a case-insensitive string works as well). Note that you will not be able to retrieve them using `to_dict`:

```python
from dataclasses_json import Undefined

@dataclass_json(undefined=Undefined.EXCLUDE)
@dataclass()
class DontCareAPIDump:
    endpoint: str
    data: Dict[str, Any]

dump = DontCareAPIDump.from_dict(dump_dict)  # DontCareAPIDump(endpoint='some_api_endpoint', data={'foo': 1, 'bar': '2'})
dump.to_dict()  # {"endpoint": "some_api_endpoint", "data": {"foo": 1, "bar": "2"}}
```

3. You can save them in a catch-all field and do whatever needs to be done later. Simply set the `undefined` keyword to `Undefined.INCLUDE` (`'INCLUDE'` as a case-insensitive string works as well) and define a field of type `CatchAll` where all unknown values will end up.
 This simply represents a dictionary that can hold anything.
 If there are no undefined parameters, this will be an empty dictionary.

```python
from dataclasses_json import Undefined, CatchAll

@dataclass_json(undefined=Undefined.INCLUDE)
@dataclass()
```
```

```
class UnknownAPIDump:
    endpoint: str
    data: Dict[str, Any]
    unknown_things: CatchAll

dump = UnknownAPIDump.from_dict(dump_dict)  # UnknownAPIDump(endpoint='some_api_endpoint', data={'foo': 1, 'bar': '2'}, unknown_things={'undefined_field_name': [1, 2, 3]})
dump.to_dict()  # {'endpoint': 'some_api_endpoint', 'data': {'foo': 1, 'bar': '2'}, 'undefined_field_name': [1, 2, 3]}
```

Notes:
- When using `Undefined.INCLUDE`, an `UndefinedParameterError` will be raised if you don't specify exactly one field of type `CatchAll`.
- Note that `LetterCase` does not affect values written into the `CatchAll` field, they will be as they are given.
- When specifying a default (or a default factory) for the the `CatchAll`-field, e.g. `unknown_things: CatchAll = None`, the default value will be used instead of an empty dict if there are no undefined parameters.
- Calling __init__ with non-keyword arguments resolves the arguments to the defined fields and writes everything else into the catch-all field.

4. All 3 options work as well using `schema().loads` and `schema().dumps`, as long as you don't overwrite it by specifying `schema(unknown=<a marshmallow value>)`.
marshmallow uses the same 3 keywords ['include', 'exclude', 'raise'](https://marshmallow.readthedocs.io/en/stable/quickstart.html#handling-unknown-fields).

5. All 3 operations work as well using `__init__`, e.g. `UnknownAPIDump(**dump_dict)` will **not** raise a `TypeError`, but write all unknown values to the field tagged as `CatchAll`.
Classes tagged with `EXCLUDE` will also simply ignore unknown parameters. Note that classes tagged as `RAISE` still raise a `TypeError`, and **not** a `UndefinedParameterError` if supplied with unknown keywords.

Override the default encode / decode / marshmallow field of a specific field?

See [Overriding](#Overriding)

Handle recursive dataclasses?
Object hierarchies where fields are of the type that they are declared within require a small type hinting trick to declare the forward reference.
```python
from typing import Optional
from dataclasses import dataclass
from dataclasses_json import dataclass_json

@dataclass_json
@dataclass
class Tree():
    value: str
    left: Optional['Tree']
    right: Optional['Tree']
```

```

Avoid using
```python
from __future__ import annotations
```
as it will cause problems with the way dataclasses_json accesses the type annotations.

Marshmallow interop

Using the `dataclass_json` decorator or mixing in `DataClassJsonMixin` will
provide you with an additional method `.schema()`.

`.schema()` generates a schema exactly equivalent to manually creating a
marshmallow schema for your dataclass. You can reference the [marshmallow API
docs](https://marshmallow.readthedocs.io/en/3.0/api_reference.html#schema)
to learn other ways you can use the schema returned by `.schema()`.

You can pass in the exact same arguments to `.schema()` that you would when
constructing a `PersonSchema` instance, e.g. `.schema(many=True)`, and they will
get passed through to the marshmallow schema.


```python
from dataclasses import dataclass
from dataclasses_json import dataclass_json

@dataclass_json
@dataclass
class Person:
    name: str

# You don't need to do this - it's generated for you by `.schema()`!
from marshmallow import Schema, fields

class PersonSchema(Schema):
    name = fields.Str()
```

Briefly, on what's going on under the hood in the above examples: calling
`.schema()` will have this library generate a
[marshmallow schema]('https://marshmallow.readthedocs.io/en/3.0/api_reference.html#schema)
for you. It also fills in the corresponding object hook, so that marshmallow
will create an instance of your Data Class on `load` (e.g.
`Person.schema().load` returns a `Person`) rather than a `dict`, which it does
by default in marshmallow.
```

Performance note

`.schema()` is not cached (it generates the schema on every call), so if you have a nested Data Class you may want to save the result to a variable to avoid re-generation of the schema on every usage.

```python
person_schema = Person.schema()
person_schema.dump(people, many=True)

# later in the code...

person_schema.dump(person)
```

Overriding / Extending

Overriding

For example, you might want to encode/decode `datetime` objects using ISO format rather than the default `timestamp`.

```python
from dataclasses import dataclass, field
from dataclasses_json import dataclass_json, config
from datetime import datetime
from marshmallow import fields

@dataclass_json
@dataclass
class DataClassWithIsoDatetime:
    created_at: datetime = field(
        metadata=config(
            encoder=datetime.isoformat,
            decoder=datetime.fromisoformat,
            mm_field=fields.DateTime(format='iso')
        )
    )
```

Extending

Similarly, you might want to extend `dataclasses_json` to encode `date` objects.

```python
from dataclasses import dataclass, field
from dataclasses_json import dataclass_json, config
from datetime import date
```

```
from marshmallow import fields

@dataclass_json
@dataclass
class DataClassWithIsoDatetime:
    created_at: date = field(
        metadata=config(
            encoder= date.isoformat,
            decoder= date.fromisoformat,
            mm_field= fields.DateTime(format='iso')
        ))
```

As you can see, you can **override** or **extend** the default codecs by providing a "hook" via a callable:
- `encoder`: a callable, which will be invoked to convert the field value when encoding to JSON
- `decoder`: a callable, which will be invoked to convert the JSON value when decoding from JSON
- `mm_field`: a marshmallow field, which will affect the behavior of any operations involving `.schema()`

Note that these hooks will be invoked regardless if you're using
`.to_json`/`dump`/`dumps`
and `.from_json`/`load`/`loads`. So apply overrides / extensions judiciously, making sure to
carefully consider whether the interaction of the encode/decode/mm_field is consistent with what you expect!

What if I have other dataclass field extensions that rely on `metadata`

All the `dataclasses_json.config` does is return a mapping, namespaced under the key `'dataclasses_json'`.

Say there's another module, `other_dataclass_package` that uses metadata. Here's how you solve your problem:

```python
metadata = {'other_dataclass_package': 'some metadata...'}  # pre-existing metadata for another dataclass package
dataclass_json_config = config(
            encoder=datetime.isoformat,
            decoder=datetime.fromisoformat,
            mm_field=fields.DateTime(format='iso')
        )
metadata.update(dataclass_json_config)

@dataclass_json
@dataclass
class DataClassWithIsoDatetime:
    created_at: datetime = field(metadata=metadata)
```

You can also manually specify the dataclass_json configuration mapping.

```python
@dataclass_json
@dataclass
class DataClassWithIsoDatetime:
    created_at: date = field(
        metadata={'dataclasses_json': {
            'encoder': date.isoformat,
            'decoder': date.fromisoformat,
            'mm_field': fields.DateTime(format='iso')
        }}
    )
```

A larger example

```python
from dataclasses import dataclass
from dataclasses_json import dataclass_json

from typing import List

@dataclass_json
@dataclass(frozen=True)
class Minion:
    name: str


@dataclass_json
@dataclass(frozen=True)
class Boss:
    minions: List[Minion]

boss = Boss([Minion('evil minion'), Minion('very evil minion')])
boss_json = """
{
    "minions": [
        {
            "name": "evil minion"
        },
        {
            "name": "very evil minion"
        }
    ]
}
""".strip()

assert boss.to_json(indent=4) == boss_json
```

assert Boss.from_json(boss_json) == boss
```

## Performance

Take a look at [this issue](https://github.com/lidatong/dataclasses-json/issues/228)

## Versioning

Note this library is still pre-1.0.0 (SEMVER).

The current convention is:
- **PATCH** version upgrades for bug fixes and minor feature additions.
- **MINOR** version upgrades for big API features and breaking changes.

Once this library is 1.0.0, it will follow standard SEMVER conventions.

## Roadmap

Currently the focus is on investigating and fixing bugs in this library, working on performance, and finishing [this issue](https://github.com/lidatong/dataclasses-json/issues/31).

That said, if you think there's a feature missing / something new needed in the library, please see the contributing section below.

## Contributing

First of all, thank you for being interested in contributing to this library.
I really appreciate you taking the time to work on this project.

- If you're just interested in getting into the code, a good place to start are issues tagged as bugs.
- If introducing a new feature, especially one that modifies the public API, consider submitting an issue for discussion before a PR. Please also take a look at existing issues / PRs to see what you're proposing has already been covered before / exists.
- I like to follow the commit conventions documented [here](https://www.conventionalcommits.org/en/v1.0.0/#summary)

Keywords: dataclasses json
Platform: UNKNOWN
Requires-Python: >=3.6
Description-Content-Type: text/markdown
Provides-Extra: dev

Found in path(s):
```

* /opt/cola/permits/1195306375_1629745958.06/0/dataclasses-json-0-5-2-1-tar-gz/dataclasses-json-0.5.2/dataclasses_json.egg-info/PKG-INFO
* /opt/cola/permits/1195306375_1629745958.06/0/dataclasses-json-0-5-2-1-tar-gz/dataclasses-json-0.5.2/PKG-INFO

1.128 htop 2.2.0

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1.133 jackson 2.12.0

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
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1.136 patroni 2.0.1

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1.137 logrotate 3.16.0

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1.138 node-fetch 2.6.1

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trying
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we'll
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dad
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wouldn't
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father
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done
wasn't
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concerned
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beat
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forty
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teeth
ruined
bite
stenbeck
liar
showing
cards
desperate
search
pathetic
spoke
scare
marah
afford
settle
stayed
checking

hired
heads
concern
blew
alcazar
champagne
connection
tickets
happiness
saving
kissing
hated
personally
suggest
prepared
onto
downstairs
ticket
it'd
loose
holy
duty
convinced
throwing
kissed
legs
loud
saturday
babies
where'd
warning
miracle
carrying
blind
ugly
shopping
hates
sight
bride
coat
clearly
celebrate
brilliant
wanting
forrester
lips
custody
screwed

buying
toast
thoughts
reality
lexie
attitude
advantage
grandfather
sami
grandma
someday
roof
marrying
powerful
grown
grandmother
fake
must've
ideas
exciting
familiar
bomb
bout
harmony
schedule
capable
practically
correct
clue
forgotten
appointment
deserves
threat
bloody
lonely
shame
jacket
hook
scary
investigation
invite
shooting
lesson
criminal
victim
funeral
considering
burning

strength
harder
sisters
pushed
shock
pushing
heat
chocolate
miserable
corinthos
nightmare
brings
zander
crash
chances
sending
recognize
healthy
boring
feed
engaged
headed
treated
knife
drag
badly
hire
paint
pardon
behavior
closet
warn
gorgeous
milk
survive
ends
dump
rent
remembered
thanksgiving
rain
revenge
prefer
spare
pray
disappeared
aside
statement

sometime
meat
fantastic
breathing
laughing
stood
affair
ours
depends
protecting
jury
brave
fingers
murdered
explanation
picking
blah
stronger
handsome
unbelievable
anytime
shake
oakdale
wherever
pulling
facts
waited
lousy
circumstances
disappointed
weak
trusted
license
nothin
trash
understanding
slip
sounded
awake
friendship
stomach
weapon
threatened
mystery
vegas
understood
basically
switch

frankly
cheap
lifetime
deny
clock
garbage
why'd
tear
ears
indeed
changing
singing
tiny
decent
avoid
messed
filled
touched
disappear
exact
pills
kicked
harm
fortune
pretending
insurance
fancy
drove
cared
belongs
nights
lorelai
lift
timing
guarantee
chest
woke
burned
watched
heading
selfish
drinks
doll
committed
elevator
freeze
noise
wasting

ceremony
uncomfortable
staring
files
bike
stress
permission
thrown
possibility
borrow
fabulous
doors
screaming
bone
xander
what're
meal
apology
anger
honeymoon
bail
parking
fixed
wash
stolen
sensitive
stealing
photo
chose
lets
comfort
worrying
pocket
mateo
bleeding
shoulder
ignore
talent
tied
garage
dies
demons
dumped
witches
rude
crack
bothering
radar

soft
meantime
gimme
kinds
fate
concentrate
throat
prom
messages
intend
ashamed
somethin
manage
guilt
interrupt
guts
tongue
shoe
basement
sentence
purse
glasses
cabin
universe
repeat
mirror
wound
travers
tall
engagement
therapy
emotional
jeez
decisions
soup
thrilled
stake
chef
moves
extremely
moments
expensive
counting
shots
kidnapped
cleaning
shift
plate

impressed
smells
trapped
aidan
knocked
charming
attractive
argue
puts
whip
embarrassed
package
hitting
bust
stairs
alarm
pure
nail
nerve
incredibly
walks
dirt
stamp
terribly
friendly
damned
jobs
suffering
disgusting
stopping
deliver
riding
helps
disaster
bars
crossed
trap
talks
eggs
chick
threatening
spoken
introduce
confession
embarrassing
bags
impression
gate

reputation
presents
chat
suffer
argument
talkin
crowd
homework
coincidence
cancel
pride
solve
hopefully
pounds
pine
mate
illegal
generous
outfit
maid
bath
punch
freaked
begging
recall
enjoying
prepare
wheel
defend
signs
painful
yourselves
maris
that'd
suspicious
cooking
button
warned
sixty
pity
yelling
awhile
confidence
offering
pleased
panic
hers
gettin

refuse
grandpa
testify
choices
cruel
mental
gentleman
coma
cutting
proteus
guests
expert
benefit
faces
jumped
toilet
sneak
halloween
privacy
smoking
reminds
twins
swing
solid
options
commitment
crush
ambulance
wallet
gang
eleven
option
laundry
assure
stays
skip
fail
discussion
clinic
betrayed
sticking
bored
mansion
soda
sheriff
suite
handled
busted

load
happier
studying
romance
procedure
commit
assignment
suicide
minds
swim
yell
llanview
chasing
proper
believes
humor
hopes
lawyers
giant
latest
escaped
parent
tricks
insist
dropping
cheer
medication
flesh
routine
sandwich
handed
false
beating
warrant
awfully
odds
treating
thin
suggesting
fever
sweat
silent
clever
sweater
mall
sharing
assuming
judgment

goodnight
divorced
surely
steps
confess
math
listened
comin
answered
vulnerable
bless
dreaming
chip
zero
pissed
nate
kills
tears
knees
chill
brains
unusual
packed
dreamed
cure
lookin
grave
cheating
breaks
locker
gifts
awkward
thursday
joking
reasonable
dozen
curse
quartermaine
millions
dessert
rolling
detail
alien
delicious
closing
vampires
wore
tail

secure
salad
murderer
spit
offense
dust
conscience
bread
answering
lame
invitation
grief
smiling
pregnancy
prisoner
delivery
guards
virus
shrink
freezing
wreck
massimo
wire
technically
blown
anxious
cave
holidays
cleared
wishes
caring
candles
bound
charm
pulse
jumping
jokes
boom
occasion
silence
nonsense
frightened
slipped
dimera
blowing
relationships
kidnapping
spin

tool
roxy
packing
blaming
wrap
obsessed
fruit
torture
personality
there'll
fairy
necessarily
seventy
print
motel
underwear
grams
exhausted
believing
freaking
carefully
trace
touching
messing
recovery
intention
consequences
belt
sacrifice
courage
enjoyed
attracted
remove
testimony
intense
heal
defending
unfair
relieved
loyal
slowly
buzz
alcohol
surprises
psychiatrist
plain
attic
who'd

uniform
terrified
cleaned
zach
threaten
fella
enemies
satisfied
imagination
hooked
headache
forgetting
counselor
andie
acted
badge
naturally
frozen
sakes
appropriate
trunk
dunno
costume
sixteen
impressive
kicking
junk
grabbed
understands
describe
clients
owns
affect
witnesses
starving
instincts
happily
discussing
deserved
strangers
surveillance
admire
questioning
dragged
barn
deeply
wrapped
wasted

tense
hoped
fellas
roommate
mortal
fascinating
stops
arrangements
agenda
literally
propose
honesty
underneath
sauce
promises
lecture
eighty
torn
shocked
backup
differently
ninety
deck
biological
pheebs
ease
creep
waitress
telephone
ripped
raising
scratch
rings
prints
thee
arguing
ephram
asks
oops
diner
annoying
taggert
sergeant
blast
towel
clown
habit
creature

bermuda
snap
react
paranoid
handling
eaten
therapist
comment
sink
reporter
nurses
beats
priority
interrupting
warehouse
loyalty
inspector
pleasant
excuses
threats
guessing
tend
praying
motive
unconscious
mysterious
unhappy
tone
switched
rappaport
sookie
neighbor
loaded
swore
piss
balance
toss
misery
thief
squeeze
lobby
goa'uld
geez
exercise
forth
booked
sandburg
poker

eighteen
d'you
bury
everyday
digging
creepy
wondered
liver
hmmm
magical
fits
discussed
moral
helpful
searching
flew
depressed
aisle
cris
amen
vows
neighbors
darn
cents
arrange
annulment
useless
adventure
resist
fourteen
celebrating
inch
debt
violent
sand
teal'c
celebration
reminded
phones
paperwork
emotions
stubborn
pound
tension
stroke
steady
overnight
chips

beef
suits
boxes
cassadine
collect
tragedy
spoil
realm
wipe
surgeon
stretch
stepped
nephew
neat
limo
confident
perspective
climb
punishment
finest
springfield
hint
furniture
blanket
twist
proceed
fries
worries
niece
gloves
soap
signature
disappoint
crawl
convicted
flip
counsel
doubts
crimes
accusing
shaking
remembering
hallway
halfway
bothered
madam
gather
cameras

blackmail
symptoms
rope
ordinary
imagined
cigarette
supportive
explosion
trauma
ouch
furious
cheat
avoiding
whew
thick
oooh
boarding
approve
urgent
shhh
misunderstanding
drawer
phony
interfere
catching
bargain
tragic
respond
punish
penthouse
thou
rach
ohhh
insult
bugs
beside
begged
absolute
strictly
socks
senses
sneaking
reward
polite
checks
tale
physically
instructions

fooled
blows
tabby
bitter
adorable
y'all
tested
suggestion
jewelry
alike
jacks
distracted
shelter
lessons
constable
circus
audition
tune
shoulders
mask
helpless
feeding
explains
sucked
robbery
objection
behave
valuable
shadows
courtroom
confusing
talented
smarter
mistaken
customer
bizarre
scaring
motherfucker
alert
vecchio
reverend
foolish
compliment
bastards
worker
wheelchair
protective
gentle

reverse
picnic
knee
cage
wives
wednesday
voices
toes
stink
scares
pour
cheated
slide
ruining
filling
exit
cottage
upside
proves
parked
diary
complaining
confessed
pipe
merely
massage
chop
spill
prayer
betray
waiter
scam
rats
fraud
brush
tables
sympathy
pill
filthy
seventeen
employee
bracelet
pays
fairly
deeper
arrive
tracking
spite

shed
recommend
oughta
nanny
menu
diet
corn
roses
patch
dime
devastated
subtle
bullets
beans
pile
confirm
strings
parade
borrowed
toys
straighten
steak
premonition
planted
honored
exam
convenient
traveling
laying
insisted
dish
aitoro
kindly
grandson
donor
temper
teenager
proven
mothers
denial
backwards
tent
swell
noon
happiest
drives
thinkin
spirits

potion
holes
fence
whatsoever
rehearsal
overheard
lemme
hostage
bench
tryin
taxi
shove
moron
impress
needle
intelligent
instant
disagree
stinks
rianna
recover
groom
gesture
constantly
bartender
suspects
sealed
legally
hears
dresses
sheet
psychic
teenage
knocking
judging
accidentally
waking
rumor
manners
homeless
hollow
desperately
tapes
referring
item
genoa
gear
majesty

cried
tons
spells
instinct
quote
motorcycle
convincing
fashioned
aids
accomplished
grip
bump
upsetting
needing
invisible
forgiveness
feds
compare
bothers
tooth
inviting
earn
compromise
cocktail
tramp
jabot
intimate
dignity
dealt
souls
informed
gods
dressing
cigarettes
alistair
leak
fond
corky
seduce
liquor
fingerprints
enchantment
butters
stuffed
stavros
emotionally
transplant
tips

oxygen
nicely
lunatic
drill
complain
announcement
unfortunate
slap
prayers
plug
opens
oath
o'neill
mutual
yacht
remembers
fried
extraordinary
bait
warton
sworn
stare
safely
reunion
burst
might've
dive
aboard
expose
buddies
trusting
booze
sweep
sore
scudder
properly
parole
ditch
canceled
speaks
glow
wears
thirsty
skull
ringing
dorm
dining
bend

unexpected
pancakes
harsh
flattered
ahhh
troubles
fights
favourite
eats
rage
undercover
spoiled
sloane
shine
destroying
deliberately
conspiracy
thoughtful
sandwiches
plates
nails
miracles
fridge
drank
contrary
beloved
allergic
washed
stalking
solved
sack
misses
forgiven
bent
maciver
involve
dragging
cooked
pointing
foul
dull
beneath
heels
faking
deaf
stunt
jealousy
hopeless

fears
cuts
scenario
necklace
crashed
accuse
restraining
homicide
helicopter
firing
safer
auction
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tore
reservations
pops
appetite
wounds
vanquish
ironic
fathers
excitement
anyhow
tearing
sends
rape
laughed
belly
dealer
cooperate
accomplish
wakes
spotted
sorts
reservation
ashes
tastes
supposedly
loft
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integrity
wished
towels
suspected
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inappropriate
lipstick
lawn

compassion
cafeteria
scarf
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obsession
loses
lighten
infection
granddaughter
explode
balcony
this'll
spying
publicity
depend
cracked
conscious
ally
absurd
vicious
invented
forbid
directions
defendant
bare
announce
screwing
salesman
robbed
leap
lakeview
insanity
reveal
possibilities
kidnap
gown
chairs
wishing
setup
punished
criminals
regrets
raped
quarters
lamp
dentist
anyways
anonymous

semester
risks
owes
lungs
explaining
delicate
tricked
eager
doomed
adoption
stab
sickness
scum
floating
envelope
vault
sorel
pretended
potatoes
plea
photograph
payback
misunderstood
kiddo
healing
cascade
capeside
stabbed
remarkable
brat
privilege
passionate
nerves
lawsuit
kidney
disturbed
cozy
tire
shirts
oven
ordering
delay
risky
monsters
honorable
grounded
closest
breakdown

bald
abandon
scar
collar
worthless
sucking
enormous
disturbing
disturb
distract
deals
conclusions
vodka
dishes
crawling
briefcase
wiped
whistle
sits
roast
rented
pigs
flirting
deposit
bottles
topic
riot
overreacting
logical
hostile
embarrass
casual
beacon
amusing
altar
claus
survival
skirt
shave
porch
ghosts
favors
drops
dizzy
chili
advise
strikes
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photographer
peaceful
leery
heavens
fortunately
fooling
expectations
cigar
weakness
ranch
practicing
examine
cranes
bribe
sail
prescription
hush
fragile
forensics
expense
drugged
cows
bells
visitor
suitcase
sorta
scan
manticore
insecure
imagining
hardest
clerk
wrist
what'll
starters
silk
pump
pale
nicer
haul
flies
boot
thumb
there'd
how're
elders
quietly
pulls

idiots
erase
denying
ankle
amnesia
accepting
heartbeat
devane
confront
minus
legitimate
fixing
arrogant
tuna
supper
slightest
sins
sayin
recipe
pier
paternity
humiliating
genuine
snack
rational
minded
guessed
weddings
tumor
humiliated
aspirin
spray
picks
eyed
drowning
contacts
ritual
perfume
hiring
hating
docks
creatures
visions
thanking
thankful
sock
nineteen
fork

throws
teenagers
stressed
slice
rolls
plead
ladder
kicks
detectives
assured
tellin
shallow
responsibilities
repay
howdy
girlfriends
deadly
comforting
ceiling
verdict
insensitive
spilled
respected
messy
interrupted
halliwell
blond
bleed
wardrobe
takin
murders
backs
underestimate
justify
harmless
frustrated
fold
enzo
communicate
bugging
arson
whack
salary
rumors
obligation
liking
dearest
congratulate

vengeance
rack
puzzle
fires
courtesy
caller
blamed
tops
quiz
prep
curiosity
circles
barbecue
sunnydale
spinning
psychotic
cough
accusations
resent
laughs
freshman
envy
drown
bartlet
asses
sofa
poster
highness
dock
apologies
theirs
stat
stall
realizes
psych
mmmm
fools
understandable
treats
succeed
stir
relaxed
makin
gratitude
faithful
accent
witter
wandering

locate
inevitable
gretel
deed
crushed
controlling
smelled
robe
gossip
gambling
cosmetics
accidents
surprising
stiff
sincere
rushed
refrigerator
preparing
nightmares
mijo
ignoring
hunch
fireworks
drowned
brass
whispering
sophisticated
luggage
hike
explore
emotion
crashing
contacted
complications
shining
rolled
righteous
reconsider
goody
geek
frightening
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creeps
courthouse
camping
affection
smythe
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baked
apologized
vibe
respects
receipt
mami
hats
destructive
adore
adopt
tracked
shorts
reminding
dough
creations
cabot
barrel
snuck
slight
reporters
pressing
magnificent
madame
lazy
glorious
fiancee
bits
visitation
sane
kindness
shoulda
rescued
mattress
lounge
lifted
importantly
glove
enterprises
disappointment
condo
beings
admitting
yelled
waving
spoon
screech
satisfaction

reads
nailed
worm
tick
resting
marvelous
fuss
cortlandt
chased
pockets
luckily
lilith
filing
conversations
consideration
consciousness
worlds
innocence
forehead
aggressive
trailer
slam
quitting
inform
delighted
daylight
danced
confidential
aunts
washing
tossed
spectra
marrow
lined
implying
hatred
grill
corpse
clues
sober
offended
morgue
infected
humanity
distraction
cart
wired
violation

promising
harassment
glue
d'angelo
cursed
brutal
warlocks
wagon
unpleasant
proving
priorities
mustn't
lease
flame
disappearance
depressing
thrill
sitter
ribs
flush
earrings
deadline
corporal
collapsed
update
snapped
smack
melt
figuring
delusional
coulda
burnt
tender
sperm
realise
pork
popped
interrogation
esteem
choosing
undo
pres
prayed
plague
manipulate
insulting
detention
delightful

coffeehouse
betrayal
apologizing
adjust
wrecked
wont
whipped
rides
reminder
monsieur
faint
bake
distress
correctly
complaint
blocked
tortured
risking
pointless
handing
dumping
cups
alibi
struggling
shiny
risked
mummy
mint
hose
hobby
fortunate
fleischman
fitting
curtain
counseling
rode
puppet
modeling
memo
irresponsible
humiliation
hiya
freakin
felony
choke
blackmailing
appreciated
tabloid

suspicion
recovering
pledge
panicked
nursery
louder
jeans
investigator
homecoming
frustrating
buys
busting
buff
sleeve
irony
dope
declare
autopsy
workin
torch
prick
limb
hysterical
goddamnit
fetch
dimension
crowded
clip
climbing
bonding
woah
trusts
negotiate
lethal
iced
fantasies
deeds
bore
babysitter
questioned
outrageous
kiriakis
insulted
grudge
driveway
deserted
definite
beep

wires
suggestions
searched
owed
lend
drunken
demanding
costanza
conviction
bumped
weigh
touches
tempted
shout
resolve
relate
poisoned
meals
invitations
haunted
bogus
autograph
affects
tolerate
stepping
spontaneous
sleeps
probation
manny
fist
spectacular
hostages
heroin
havin
habits
encouraging
consult
burgers
boyfriends
bailed
baggage
watches
troubled
torturing
teasing
sweetest
qualities
postpone

overwhelmed
malkovich
impulse
classy
charging
amazed
policeman
hypocrite
humiliate
hideous
d'ya
costumes
bluffing
betting
bein
bedtime
alcoholic
vegetable
tray
suspicions
spreading
splendid
shrimp
shouting
pressed
nooo
grieving
gladly
fling
eliminate
cereal
aaah
sonofabitch
paralyzed
lotta
locks
guaranteed
dummy
despise
dental
briefing
bluff
batteries
whatta
sounding
servants
presume
handwriting

fainted
dried
allright
acknowledge
whacked
toxic
reliable
quicker
overwhelming
lining
harassing
fatal
endless
dolls
convict
whatcha
unlikely
shutting
positively
overcome
goddam
essence
dose
diagnosis
cured
bully
ahold
yearbook
tempting
shelf
prosecution
pouring
possessed
greedy
wonders
thorough
spine
rath
psychiatric
meaningless
latte
jammed
ignored
fiance
evidently
contempt
compromised
cans

weekends
urge
theft
suing
shipment
scissors
responding
proposition
noises
matching
hormones
hail
grandchildren
gently
smashed
sexually
sentimental
nicest
manipulated
intern
handcuffs
framed
errands
entertaining
crib
carriage
barge
spends
slipping
seated
rubbing
rely
reject
recommendation
reckon
headaches
float
embrace
corners
whining
sweating
skipped
mountie
motives
listens
cristobel
cleaner
cheerleader

balsom
unnecessary
stunning
scent
quartermaines
pose
montega
loosen
info
hottest
haunt
gracious
forgiving
errand
cakes
blames
abortion
sketch
shifts
plotting
perimeter
pals
mere
mattered
lonigan
interference
eyewitness
enthusiasm
diapers
strongest
shaken
punched
portal
catches
backyard
terrorists
sabotage
organs
needy
cuff
civilization
woof
who'll
prank
obnoxious
mates
hereby
gabby

faked
cellar
whitelighter
void
strangle
sour
muffins
interfering
demonic
clearing
boutique
barrington
terrace
smoked
righty
quack
petey
pact
knot
ketchup
disappearing
cordy
uptight
ticking
terrifying
tease
swamp
secretly
rejection
reflection
realizing
rays
mentally
marone
doubted
deception
congressman
cheesy
toto
stalling
scoop
ribbon
immune
expects
destined
bets
bathing
appreciation

accomplice
wander
shoved
sewer
scroll
retire
lasts
fugitive
freezer
discount
cranky
crank
clearance
bodyguard
anxiety
accountant
whoops
volunteered
talents
stinking
remotely
garlic
decency
cord
beds
altogether
uniforms
tremendous
popping
outa
observe
lung
hangs
feelin
dudes
donation
disguise
curb
bites
antique
toothbrush
realistic
predict
landlord
hourglass
hesitate
consolation
babbling

tipped
stranded
smartest
repeating
puke
psst
paycheck
overreacted
macho
juvenile
grocery
freshen
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cuffs
caffeine
vanished
unfinished
ripping
pinch
flattering
expenses
dinners
colleague
ciao
belthazor
attorneys
woulda
whereabouts
waitin
truce
tripped
tasted
steer
poisoning
manipulative
immature
husbands
heel
granddad
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condoms
addict
trashed
raining
pasta
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leaning
detector

coolest
batch
appointments
almighty
vegetables
spark
perfection
pains
momma
mole
meow
hairs
getaway
cracking
compliments
behold
verge
tougher
timer
tapped
taped
specialty
snooping
shoots
rendezvous
pentagon
leverage
jeopardize
janitor
grandparents
forbidden
clueless
bidding
ungrateful
unacceptable
tutor
serum
scuse
pajamas
mouths
lure
irrational
doom
cries
beautifully
arresting
approaching
traitor

sympathetic
smug
smash
rental
prostitute
premonitions
jumps
inventory
darlin
committing
banging
asap
worms
violated
vent
traumatic
traced
sweaty
shaft
overboard
insight
healed
grasp
experiencing
crappy
crab
chunk
awww
stain
shack
reacted
pronounce
poured
moms
marriages
jabez
handful
flipped
fireplace
embarrassment
disappears
concussion
bruises
brakes
twisting
swept
summon
splitting

sloppy
settling
reschedule
notch
hooray
grabbing
exquisite
disrespect
thornhart
straw
slapped
shipped
shattered
ruthless
refill
payroll
numb
mourning
manly
hunk
entertain
drift
dreadful
doorstep
confirmation
chops
appreciates
vague
tires
stressful
stashed
stash
sensed
preoccupied
predictable
noticing
madly
gunshot
dozens
dork
confuse
cleaners
charade
chalk
cappuccino
bouquet
amulet
addiction

who've
warming
unlock
satisfy
sacrificed
relaxing
lone
blocking
blend
blankets
addicted
yuck
hunger
hamburger
greeting
greet
gravy
gram
dreamt
dice
caution
backpack
agreeing
whale
taller
supervisor
sacrifices
phew
ounce
irrelevant
gran
felon
favorites
farther
fade
erased
easiest
convenience
compassionate
cane
backstage
agony
adores
veins
tweek
thieves
surgical
strangely

stetson
recital
proposing
productive
meaningful
immunity
hassle
goddamned
frighten
dearly
cease
ambition
wage
unstable
salvage
richer
refusing
raging
pumping
pressuring
mortals
lowlife
intimidated
intentionally
inspire
forgave
devotion
despicable
deciding
dash
comfy
breach
bark
aaaah
switching
swallowed
stove
screamed
scars
russians
pounding
poof
pipes
pawn
legit
invest
farewell
curtains

civilized
caviar
boost
token
superstition
supernatural
sadness
recorder
psyched
motivated
microwave
hallelujah
fraternity
dryer
cocoa
chewing
acceptable
unbelievably
smiled
smelling
simpler
respectable
remarks
khasinau
indication
gutter
grabs
fulfill
flashlight
ellenor
blooded
blink
blessings
beware
uhhh
turf
swings
slips
shovel
shocking
puff
mirrors
locking
heartless
fras
childish
cardiac
utterly

tuscany
ticked
stunned
statesville
sadly
purely
kiddin
jerks
hitch
flirt
fare
equals
dismiss
christening
casket
c'mere
breakup
biting
antibiotics
accusation
abducted
witchcraft
thread
runnin
punching
paramedics
newest
murdering
masks
lawndale
initials
grampa
choking
charms
careless
bushes
buns
bummed
shred
saves
saddle
rethink
regards
precinct
persuade
meds
manipulating
llanfair

leash
hearted
guarantees
fucks
disgrace
deposition
bookstore
boil
vitals
veil
trespassing
sidewalk
sensible
punishing
overtime
optimistic
obsessing
notify
mornin
jeopardy
jaffa
injection
hilarious
desires
confide
cautious
yada
where're
vindictive
vial
teeny
stroll
sittin
scrub
rebuild
posters
ordeal
nuns
intimacy
inheritance
exploded
donate
distracting
despair
crackers
wildwind
virtue
thoroughly

tails
spicy
sketches
sights
sheer
shaving
seize
scarecrow
refreshing
prosecute
platter
napkin
misplaced
merchandise
loony
jinx
heroic
frankenstein
ambitious
syrup
solitary
resemblance
reacting
premature
lavery
flashes
cheque
awright
acquainted
wrapping
untie
salute
realised
priceless
partying
lightly
lifting
kasnoff
insisting
glowing
generator
explosives
cutie
confronted
buts
blouse
ballistic
antidote

analyze
allowance
adjourned
unto
understatement
tucked
touchy
subconscious
screws
sarge
roommates
rambaldi
offend
nerd
knives
irresistible
incapable
hostility
goddammit
fuse
frat
curfew
blackmailed
walkin
starve
sleigh
sarcastic
recess
rebound
pinned
parlor
outfits
livin
heartache
haired
fundraiser
doorman
discreet
dilucca
cracks
considerate
climbed
catering
apophis
zoey
urine
strung
stitches

sordid
sark
protector
phoned
pets
hostess
flaw
flavor
deveraux
consumed
confidentiality
bourbon
straightened
specials
spaghetti
prettier
powerless
playin
playground
paranoia
instantly
havoc
exaggerating
eavesdropping
doughnuts
diversion
deepest
cutest
comb
bela
behaving
anyplace
accessory
workout
translate
stuffing
speeding
slime
royalty
polls
marital
lurking
lottery
imaginary
greetings
fairwinds
elegant
elbow

credibility
credentials
claws
chopped
bridal
bedside
babysitting
witty
unforgivable
underworld
tempt
tabs
sophomore
selfless
secrecy
restless
okey
movin
metaphor
messes
meltdown
lecter
incoming
gasoline
diefenbaker
buckle
admired
adjustment
warmth
throats
seduced
queer
parenting
noses
luckiest
graveyard
gifted
footsteps
dimeras
cynical
wedded
verbal
unpredictable
tuned
stoop
slides
sinking
rigged

plumbing
lingerie
hankey
greed
everwood
elope
dresser
chauffeur
bulletin
bugged
bouncing
temptation
strangest
slammed
sarcasm
pending
packages
orderly
obsessive
murderers
meteor
inconvenience
glimpse
froze
execute
courageous
consulate
closes
bosses
bees
amends
wuss
wolfram
wacky
unemployed
testifying
syringe
stew
startled
sorrow
sleazy
shaky
screams
rsquo
remark
poke
nutty
mentioning

mend
inspiring
impulsive
housekeeper
foam
fingernails
conditioning
baking
whine
thug
starved
sniffing
sedative
programmed
picket
paged
hound
homosexual
homo
hips
forgets
flipping
flea
flatter
dwell
dumpster
choo
assignments
ants
vile
unreasonable
tossing
thanked
steals
souvenir
scratched
psychopath
outs
obstruction
obey
lump
insists
harass
gloat
filth
edgy
didn
coroner

confessing
bruise
betraying
bailing
appealing
adebisi
wrath
wandered
waist
vain
traps
stepfather
poking
obligated
heavenly
dilemma
crazed
contagious
coaster
cheering
bundle
vomit
thingy
speeches
robbing
raft
pumped
pillows
peep
packs
neglected
m'kay
loneliness
intrude
helluva
gardener
forresters
drooling
betcha
vase
supermarket
squat
spitting
rhyme
relieve
receipts
racket
pictured

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overdue
motivation
morgendorffer
kidnapper
insect
horns
feminine
eyeballs
dumps
disappointing
crock
convertible
claw
clamp
canned
cambias
bathtub
avanya
artery
weep
warmer
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summoned
spiders
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raving
pushy
postponed
ohhhh
noooo
mold
laughter
incompetent
hugging
groceries
drip
communicating
auntie
adios
wraps
wiser
willingly
weirdest
timmih
thinner
swelling
swat

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scrape
rehearse
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ledge
justified
insults
hateful
handles
doorway
chatting
buyer
buckaroo
bedrooms
askin
ammo
tutoring
subpoena
scratching
privileges
pager
mart
intriguing
idiotic
grape
enlighten
corrupt
brunch
bridesmaid
barking
applause
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superficial
soak
smoothly
sensing
restraint
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payoff
oprah
nemo
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loaf
jumpy
ignorant

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hangin
germs
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flashing
doughnut
clumsy
chocolates
captive
behaved
apologise
vanity
stumbled
preview
poisonous
perjury
parental
onboard
mugged
minding
linen
knots
interviewing
humour
grind
greasy
goons
drastic
coop
comparing
cocky
clearer
bruised
brag
bind
worthwhile
whoop
vanquishing
tabloids
sprung
spotlight
sentencing
racist
provoke
pining
overly
locket
imply

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hovering
hotter
fest
endure
dots
doren
debts
crawled
chained
brit
breaths
weirdo
warmed
wand
troubling
tok'ra
strapped
soaked
skipping
scrambled
rattle
profound
musta
mocking
misunderstand
limousine
kacl
hustle
forensic
enthusiastic
duct
drawers
devastating
conquer
clarify
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cheaper
callin
blushing
barging
abused
yoga
wrecking
wits
waffles
virginity

vibes
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unfaithful
teller
strangled
scheming
ropes
rescuing
rave
postcard
o'reily
morphine
lotion
lads
kidneys
judgement
itch
indefinitely
grenade
glamorous
genetically
freud
discretion
delusions
crate
competent
bakery
argh
ahhhh
wedge
wager
unfit
tripping
torment
superhero
stirring
spinal
sorority
seminar
scenery
rabble
pneumonia
perks
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ooooh
mija
manslaughter
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lime
lettuce
intimidate
guarded
grieve
grad
frustration
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chinatown
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allergies
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vegetarian
tighter
telegram
stalk
spared
shoo
satisfying
saddam
requesting
pens
overprotective
obstacles
notified
nasedo
grandchild
genuinely
flushed
fluids
floss
escaping
ditched
cramp
corny
bunk
bitten
billions
bankrupt
yikes
wrists
ultrasound
ultimatum
thirst
sniff

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salsa
retrieve
reassuring
pumps
neurotic
negotiating
needn't
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millionaire
lydecker
limp
incriminating
hatchet
gracias
gordie
fills
feeds
doubting
decaf
biopsy
whiz
voluntarily
ventilator
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snitch
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reassure
persuasive
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ambush
adolescent
abort
yank
whit
vaguely
undermine
tying
swamped
stabbing
slippers
slash
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sigh
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secondly
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hots
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fury
felicity
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earring
dreidel
dory
donut
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backfired
backfire
apron
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vous
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slimy
sibling
shhhh
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peculiar
parasite
paddington
marries
mailbox
magically
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exits
drazen
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dashwood
crooked
conveniently
wink
warped
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tacky
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pushes
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mornings
mash
invent
indulge
horribly
hallucinating
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eyebrows
enjoys
desperation
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darkest
daph
boragora
belts
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agitated
wishful
wimp
vanish
unbearable
tonic
suffice
suction
slaying
safest
rocking
relive
puttin
prettiest
noisy
newlyweds
nauseous
misguided
mildly
midst
liable
judgmental
indy
hunted
givin
fascinated
elephants
dislike
deluded
decorate
crummy
contractions
carve
bottled
bonded
bahamas
unavailable
twenties
trustworthy
surgeons
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skies
remorse
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pies
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mule
mourn
melted
mashed
inherit
greatness
golly
excused
dumbo
drifting
delirious
damaging
cubicle
compelled
comm
chooses
checkup
boredom
bandages
alarms
windshield
who're
whaddya
transparent
surprisingly
sunglasses
slit
roar
reade
prognosis
probe
pitiful
persistent
peas
nosy
nagging
morons
masterpiece
martinis
limbo
liars
irritating
inclined
hump
hoynes
fiasco
eatin

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colorful
clam
cider
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barto
bargaining
wiggle
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vanquished
stains
sooo
snacks
smear
sire
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pint
overhear
morality
landingham
kisser
hoot
holling
handshake
grilled
formality
elevators
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boathouse
accidental
westbridge
wacko
ulterior
thugs
thighs
tangled
stirred
snag
sling
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miraculous
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lockup
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immoral
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gabe
faxed
extortion
downright
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cranberry
bygones
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burying
bikes
weary
taping
takeout
sweeping
stepmother
stale
senor
seaborn
pros
pepperoni
newborn
ludicrous
injected
geeks
forged
faults
drue
dire
dief
desi
deceiving
caterer
calmed
budge
ankles
vending
typing

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there're
squared
snowing
shades
sexist
rewrite
regretted
raises
picky
orphan
mural
misjudged
miscarriage
memorize
leaking
jitters
invade
interruption
illegally
handicapped
glitch
gittes
finer
distraught
dispose
dishonest
digs
dads
cruelty
circling
canceling
butterflies
belongings
barbrady
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unborn
swearing
stables
squeezed
sensational
resisting
radioactive
questionable
privileged

portofino
owning
overlook
orson
oddly
interrogate
imperative
impeccable
hurtful
hors
heap
graders
glance
disgust
devious
destruct
crazier
countdown
chump
cheeseburger
burglar
berries
ballroom
assumptions
annoyed
allergy
admirer
admirable
activate
underpants
twit
tack
strokes
stool
sham
scrap
retarded
resourceful
remarkably
refresh
pressured
precautions
pointy
nightclub
mustache
maui
lace
hunh

hubby
flare
dont
dokey
dangerously
crushing
clinging
choked
chem
cheerleading
checkbook
cashmere
calmly
blush
believer
amazingly
alas
what've
toilets
tacos
stairwell
spirited
sewing
rubbed
punches
protects
nuisance
motherfuckers
mingle
kynaston
knack
kinkle
impose
gullible
godmother
funniest
friggin
folding
fashions
eater
dysfunctional
drool
dripping
ditto
cruising
criticize
conceive
clone

cedars
caliber
brighter
blinded
birthdays
banquet
anticipate
annoy
whim
whichever
volatile
veto
vested
shroud
rests
reindeer
quarantine
pleases
painless
orphans
orphanage
offence
obliged
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mistletoe
meddling
manifest
lookit
lilah
intrigued
injustice
homicidal
gigantic
exposing
elves
disturbance
disastrous
depended
demented
correction
cooped
cheerful
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brownies
beverage
basics
arvin

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unethical
swollen
sweaters
stupidest
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scalpel
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prescribed
pompous
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mushrooms
mulwray
manipulation
lured
internship
insignificant
inmate
incentive
fulfilled
disagreement
crypt
cornered
copied
brightest
beethoven
attendant
amaze
yogurt
wyndemere
vocabulary
tulsa
tactic
stuffy
respirator
pretends
polygraph
pennies
ordinarily
olives
necks
morally
martyr
leftovers
joints
hopping
homey

hints
heartbroken
forge
florist
firsthand
fiend
dandy
crippled
corrected
conniving
conditioner
clears
chemo
bubbly
bladder
beeper
baptism
wiring
wench
weaknesses
volunteering
violating
unlocked
tummy
surrogate
subid
stray
startle
specifics
slowing
scoot
robbers
rightful
richest
qfxmjrie
puffs
pierced
pencils
paralysis
makeover
luncheon
linksynergy
jerky
jacuzzi
hitched
hangover
fracture
flock

firemen
disgusted
darned
clams
borrowing
banged
wildest
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unauthorized
stunts
sleeves
sixties
shush
shalt
retro
quits
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painfully
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omelet
memorized
lawfully
jackets
intercept
ingredient
grownup
glued
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enchanted
delusion
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compelling
carton
bridesmaids
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ainsley
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stabilized

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psyche
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mantan
lorne
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hepatitis
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dumbest
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compulsive
compromising
burglary
bumpy
brainwashed
benes
arnie
affirmative
adrenaline
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toughest
tainted
surround
stormed
spree
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sewers
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arsonist
adored
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thigh
terminate
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sneeze
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salty
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patronize
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morbid
mamma
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holed
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bossy
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zende
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telesave
sympathize
sweeter
startin
spades
sodas
snowed
sleepover
signor
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retainer
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rested
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overreact
o'neil
noose
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hectic
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disregard
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chevron
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bitty
beads
battling
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anticipation
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unprofessional
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thoughtless
tagataya
shooters
senseless
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propane
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hearst

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crust
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peeking
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kovich
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weave
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cuddle
crashes
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baskets
attacker
aplastic
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affectionate
zapped
wormhole
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unimportant
unforgettable
twain
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superbowl
stutter
stewardess
stepson
standin
spandex
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sociopath
skeletons
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scrapbook
ritalin
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padded
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bonfire
blurt
bloated
blackmailer
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bathe
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badges
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wrinkled
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whisk
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unselfish
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striped
stamina
stalled
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snooty
snide
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secretaries
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hmmmm
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matata
marys

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magilla
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lindenmeyer
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leapt
laxative
lather
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lamppost
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kegger
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jokin
jesminder
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infallible
industrious
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incinerator
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impart
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hyped
hospitable
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homemaker
hirschmuller
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ethically
ensue
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eluded
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disputing
displeasure
disdain
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consenting
consented
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anyanka
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anemic
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aaand
yoghurt
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winded
widen
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undergrad
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redial
reconnecting
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putrid
puffing
psychopathic
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prayin
pomegranate
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handsomest
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hairless
gwennie
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grungy
goading
glaring
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busier
bullcrap
buggin
brookside
brodski
brassiere
brainwash
brainiac
botrelle
bonbon
boatload
blimey
blaring
blackness
bipartisan
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bigamist
biebe
biding
betrayals
bestow
bellerophon

bedpans
bassinet
basking
barzini
barnyard
barfed
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asinine
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annoys
anchovies
ampule
alameida
aggravate
adage
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wringer
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whorfin
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unsung
unsubstantiated
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unfulfilled
undetectable
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unappreciated
ummmm
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tylenol
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tuatha
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thrives
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thatherton
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tavington
tartar
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stubbins
strutting
strewn
stowaway
stoic
sternin
stabilizing
spiraling
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speedometer
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soiled
sneakin
smithereens
smelt
smacks
slaughterhouse

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skids
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sizzling
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shouts
shorted
shoelace
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masbath
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kundun
kozinski
knockoff
kissin
kiosk
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kellman
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jeffy
jaywalking
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informer
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impulsively
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impersonated
impeach
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hyperbole
hurray
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huhuh
hsing
hordes
hoodlums
honky

hitchhiker
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heaving
heathcliff
headgear
headboard
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harem
handprint
hairspray
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gasping
frolic
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disobeying
disinfectant
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derriere
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deathwok
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cuppa
cumin
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chomp

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cauliflower
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buries
burgel
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brogna
bragged
boutros
bogeyman
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blurb
blowup
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blissful
birthmark
bigot
bestest
belted
belligerent
beggin
befall
beeswax
beatnik
beaming
barricade
baggoli
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aroun
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arming

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wrongfully
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womanly
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unruly
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ungodly

undue
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uncontrollably
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smoldering
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sickest
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profess
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petrak
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overqualified
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nubile
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misconstrued
miscalculated
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marmalade
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knobs
knitted
kittridge
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kerosene
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insincere
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inhumane
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ingrates
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indeterminate
incomprehensible
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honeymooning
honed
hoist
hoarding
hitching
hiker
hightail
hemoglobin
hell'd
heinie
growin
grasped
grandparent
granddaughters
gouged
goblins
gleam
glades
gigantor
get'em
geriatric
gatekeeper
gargoyles
gardenias
garcon
garbo
gallows
gabbing
futon
fulla

frightful
freshener
fortuitous
forceps
fogged
fodder
foamy
flogging
flaun
flared
fireplaces
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favell
fattest
fattening
fallow
extraordinaire
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errant
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dussander
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consoling
connoisseur
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cocksuckers
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churn
chugga
chirping
chasin
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chalkboard
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caymans
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capelli
cannolis
cannoli
camogli
camembert
butchers
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busboys
bureaucrats
buckled
bubbe
brownstone

bravely
brackley
bouquets
botox
boozing
boosters
bodhi
blunders
blunder
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biocyte
betrays
bested
beryllium
beheading
beggar
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beamed
bastille
barstool
barricades
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bacarra
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artichoke
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antacid
ansel
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amicable
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adlai
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aaaahhhh

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yuletide
yoyodyne
yengeese
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weigart
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vying
ventricle
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unfriendly
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unappealing
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tought
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strumpet
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stools
stealthy
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stairmaster
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inbred
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impersonator
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henslowe
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haldol
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grindstone

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gribbit
greystone
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bared
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aspirins
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afterthought
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yeller
yakushova
wuzzy
wriggle
worrier
woogyman
womanizer
windpipe
windbag
willin
whisking
whimsy
wendall
weeny
weensy
weasels
watery
watcha
wasteful
waski
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tibia
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teriyaki
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sump'n
succumb
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stumbles
stuffs
stoppin
stipulate
stenographer
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stasis
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splendidly
splashy
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snuggled
snowmobile
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shuffled
shriveled
shorthanded

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shish
shipwrecked
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shawshank
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rosslyn
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reprimanded
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oooooh
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nightstick
negate
neatness

natured
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grabby

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gizzard
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gibarian
geminon
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gairwyn
futterman
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foregone
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floored
flighty
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cranium
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chests
cheapen
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censure
catapult
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calrissian
butlers
busybody
bussing
bunion
bulimic
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brung
browbeat
brokenhearted

brecher
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bhamra
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baste
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yuppies
yodel
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wombosi
wittle
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wisecracks

wiggling
wierd
whittlesley
whipper
whattya
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whatchamacallit
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whad'ya
weakling
warfarin
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vorash
vizzini
virtucon
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vandalized
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udall
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tenuous
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teaspoon
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summarize
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shriek
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shatner
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shapely
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seabea
scuff
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scooch
scolding
schnitzel
schemed
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santy
sankara
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salesperson
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pestering
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paramour
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owatta
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overcrowded
overcompensating
ostracized
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noxious
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nabbit

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mulroney
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mom'll
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michalchuk
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merman
mensa
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mbwun
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masterminded
marginally
mapuhe
malfunctioning
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macnamara
macinerney
machinations
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lurks
lovelorn
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lighters
liebkind
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letterhead
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layaway
laughlan
lascivious
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kurten
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kirkeby
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jettison
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hurtling
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hunchback
hullo
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headband
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harpies
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hahahahaha
hacer
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ewwww
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earpiece
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drinkers
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comme
comforter
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caddie
buxley
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bulky
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brussel
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brotha
bronck
brisket
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bovary
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berrisford
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berate
bendy
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beikoku
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bawdy
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balthazar
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awkwardly
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apologetic
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albie
alarmist
aiight
adstream
admirably
acquaint
abound
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zekes
zatunica
wussy
worded
wooed

woodrell
wiretap
windowsill
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whisker
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whatiya
whadya
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trouper
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swooped
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sugarcoat
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stunningly
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stoolie
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stocky
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molars
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medevac
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limber
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lazarre
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kenosha
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ironed
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inedible
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griss
grieved
grata
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glowed
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garroway
gangbusters
gamblers
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flowery
flophouse
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crinkle
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constipated
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concoct
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chicka
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cervix
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botticelli
botherin
bookkeeping
bogyman
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blanky
binturong
billable
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bewildered
betas
bequeath
behoove
befriend
bedpost
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baudelaires
barreled
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baltus
bailout
backstabber
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augie
arguillo
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ahhhhhhh
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swarthy
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sunup
sun'll
sulfa
sugarless
sufficed
subside
strolled
stringy
strengthens
straightest
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storefront
stopper
stockpiling
stimulant
stiffed
steyne
sternum
stepladder
stepbrother
steers
steelheads
steakhouse
stathis
stankylecartmankennymr
standoffish
stalwart
squirted
spritz
sprig
sprawl
spousal
sphincter
spenders
spearmint
spatter
spangled
southey
soured
sonuvabitch
somethng
snuffed

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smilin
slobs
sleepwalker
sleds
slays
slayage
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skanks
sixed
siphoned
siphon
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sigfried
sidearm
siddons
sickie
shuteye
shuffleboard
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abuser
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zlotys
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zerzura
zapruder
zantopia
yelburton
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y'knowwhati'msayin
wwhat
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wrenched
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wormser
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wolchek
wishin
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uninvolved
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unintelligible
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queremos
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pungent
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pecks
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oomupwah
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nostradamus
norther
norcom
nooch
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nipped
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nebbleman
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nametag
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mycenae
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mumbled
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bustier
burlap

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brioche
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brays
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bfmid
bfast
bettin
berkshires
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benched
benatar
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beattle
baxworth
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banek
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badder
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whoomp
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unlikable
unleaded
uninsured
uninspired
unicycle
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unfunny
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unencumbered
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swizzle
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swindled
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swerving
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swaddling
swackhammer
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supossed
superdad
sumptuous
sugary
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substantiate
submersible
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strychnine
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straddle
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stifling
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spurt
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spritzer
sprightly
sprays
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spoonful
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speedily
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spastic
sparrin
souvlaki
southie
sourpuss
soupy
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sixpence
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shortsighted
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shoehorn
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saudis
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saleswoman
sagging
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pushers
pusan
purview
pumpin
pubescent
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phillipe
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Found in path(s):
* /opt/cola/permits/1195288221_1629742785.52/0/zxcvbn-1-3-1-1-jar/com/nulabinc/zxcvbn/matchers/dictionarys/us_tv_and_film.txt
No license file was found, but licenses were detected in source scan.

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san
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control
southern
railway
board
popular
continued
free
battle
considered
video
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position
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half
playing
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red
post
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records
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modern
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announced
areas
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others
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term
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schools
originally
lake
developed
race
himself
forces
addition

information
upon
province
match
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songs
result
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win
eastern
track
lead
teams
science
human
construction
minister
germany
awards
available
throughout
training
style
body
museum
australian
health
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signed
chief
eventually
appointed
sea
centre
debut
tour
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media
light
range
character
across
features
families
largest
indian
network
less

performance
players
refer
europe
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festival
usually
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despite
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committee
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return
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institute
stage
followed
performed
japanese
personal
thus
arts
space
low
months
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china
study
middle
magazine
leading
japan
groups
aircraft
featured
federal
civil
rights
model
coach
canadian
books
remained
eight
type
independent
completed

capital
academy
instead
kingdom
organization
countries
studies
competition
sports
size
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systems
industry
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ground
campaign
base
lower
sent
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coast
grand
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valley
conference
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awarded
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russian
shows
native

female
replaced
municipality
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successful
mid
bay
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beginning
provide
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primary
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culture
introduced
texas
related
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parts
governor
reached
ireland
units
senior
decided
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whose
higher
africa
standard
income
professor
placed
regional
los
buildings

championships
active
novel
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generally
interest
via
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previously
stated
itself
channel
below
operation
leader
traditional
trade
structure
limited
runs
prior
regular
famous
saint
navy
foreign
listed
artist
catholic
airport
results
parliament
collection
unit
officer
goal
attended
command
staff
commission
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places
foundation
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older

medal
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scored
companies
highway
activities
programs
wide
musical
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paris
towards
individual
allowed
plant
property
annual
contract
whom
highest
initially
required
earlier
assembly
artists
rural
seat
practice
defeated
ended
soviet
length
spent
manager
press
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author
issues
additional
characters
lord
zealand
policy
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township
noted

historical
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financial
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lines
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youth
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theory
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italy
angeles
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feature
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cultural
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changes
recording
stadium
islands
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basketball
month
uses

port
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fort
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increased
status
earth
subsequently
pacific
cover
variety
certain
goals
remains
upper
congress
becoming
studied
irish
nature
particular
loss
caused
chart
dr.
forced
create
era
retired
material
review
rate
singles
referred
larger
individuals
shown
provides
products
speed
democratic
poland
parish
olympics
cities
themselves

temple
wing
genus
households
serving
cost
wales
stations
passed
supported
view
cases
forms
actor
male
matches
males
stars
tracks
females
administrative
median
effect
biography
train
engineering
camp
offered
chairman
houses
mainly
19th
surface
therefore
nearly
score
ancient
subject
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seasons
claimed
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jewish
failed
overall
believed
plot

troops
greater
spain
consists
broadcast
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increase
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separate
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appears
presented
lies
composed
recently
influence
fifth
nations
creek
references
elections
britain
double
cast
meaning
earned
carried
producer
latter
housing
brothers
attempt
article
response
border
remaining
nearby
direct
ships
value
workers
politician
academic
label
1970s
commander
rule

fellow
residents
authority
editor
transport
dutch
projects
responsible
covered
territory
flight
races
defense
tower
emperor
albums
facilities
daily
stories
assistant
managed
primarily
quality
function
proposed
distribution
conditions
prize
journal
code
vice
newspaper
corps
highly
constructed
mayor
critical
secondary
corporation
rugby
regiment
ohio
appearances
serve
allow
nation
multiple
discovered

directly
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levels
growth
elements
acquired
1990s
officers
physical
20th
latin
host
jersey
graduated
arrived
issued
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estate
vote
immediately
quickly
asian
competed
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produce
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1960s
promoted
contemporary
global
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types
opera
ministry
soldiers
commonly
mass
formation
smaller
typically
drama
shortly
density
senate
effects

iran
polish
prominent
naval
settlement
divided
basis
republican
languages
distance
treatment
continue
product
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sources
footballer
format
clubs
leadership
initial
offers
operating
avenue
officially
columbia
grade
squadron
fleet
percent
farm
leaders
agreement
likely
equipment
website
mount
grew
method
transferred
intended
renamed
iron
asia
reserve
capacity
politics
widely
activity

advanced
relations
scottish
dedicated
crew
founder
episodes
lack
amount
build
efforts
concept
follows
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leaves
positive
economy
entertainment
affairs
memorial
ability
illinois
communities
color
text
railroad
scientific
focus
comedy
serves
exchange
environment
cars
direction
organized
firm
description
agency
analysis
purpose
destroyed
reception
planned
revealed
infantry
architecture
growing
featuring

household
candidate
removed
situated
models
knowledge
solo
technical
organizations
assigned
conducted
participated
largely
purchased
register
gained
combined
headquarters
adopted
potential
protection
scale
approach
spread
independence
mountains
titled
geography
applied
safety
mixed
accepted
continues
captured
rail
defeat
principal
recognized
lieutenant
mentioned
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owner
joint
liberal
actress
traffic
creation
basic

notes
unique
supreme
declared
simply
plants
sales
massachusetts
designated
parties
jazz
compared
becomes
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titles
concert
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remain
teaching
versions
content
alongside
revolution
sons
block
premier
impact
champions
districts
generation
estimated
volume
image
sites
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roles
sport
quarter
providing
zone
yard
scoring
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presence
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representatives
hosted
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climate
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surrounding
performing
reduced
ranked
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birth
nominated
younger
newly
kong
positions
theater
philadelphia
heritage
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disease
sixth
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reviews
constitution
tradition
swedish
theme
fiction
rome

medicine
trains
resulting
existing
deputy
environmental
labour
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fans
granted
receive
alternative
begins
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fame
buried
connected
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palace
falls
letters
combat
sciences
effort
villages
inspired
regions
towns
conservative
chosen
animals
labor
attacks
materials
yards
steel
representative
orchestra
peak
entitled
officials
returning
reference
northwest
imperial
convention
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subsequent
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brigade
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sides
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authorities
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edge
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expansion
billboard
rank
battalion
multi
vehicle
fought
alliance

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federation
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bronze
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commissioned
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supporting
pilot
mobile
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provincial
sets
defence
offices
agricultural
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centuries
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comic
establishment
exhibition
southwest
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cape
converted
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hits
wins
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norway
slightly
occur
surname
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constituency
funds
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contest
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poet
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passenger
contributed
toward
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inhabitants
architect

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maryland
jews
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budget
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missouri
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pair
chapel
reform
height
vietnam
occurs
motor
cambridge
lands
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sought
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shape
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importance
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selection
regarding
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voivodeship
maintained
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failure
aged
passing
agriculture
oregon
teachers

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trail
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portuguese
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engines
decades
composition
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chain
inc.
austria
sale
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chamber
regarded
winners
registered
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investment
colonial
swiss
user
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flag
stores
closely
entrance
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coal
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techniques
promote
junction
easily
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singapore
residence
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racial

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comics
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persons
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processes
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gradually
preserved
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throne
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researchers
remainder
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clan
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muhammad
tenure
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venture
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mines
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magazines
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conventional
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capita
settlements
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involves
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belonged
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abuse
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serbia
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harbour
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peru
sporting
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cuba
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manufacturer
responded
suitable
distinction
calendar
dominant
tourist
earning
prefecture
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yeshiva
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powerhouse
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fredrik
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floated
consequent
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olsztyn
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uzbek
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falkirk
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ashok
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westernmost
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medallion
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translucent
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protracted
coburg
wreath
guelph
adventurer
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biochemical
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starch
costal
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superstars
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purana
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retracted
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quang
andersson
danville
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limburg
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challengers
subic
selangor
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frontline
shutter
validated
normalized
entertainers
molluscs
maharaj
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youngstown
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transcontinental
pedagogical
riemann
colonia
easternmost
tentatively
profiled
herefordshire
nativity
meuse
nucleotide
inhibits
huntingdon
throughput
recorders
conceding

domed
homeowners
centric
gabled
canoes
fringes
breeder
subtitled
fluoride
haplogroup
zionism
izmir
phylogeny
kharkiv
romanticism
adhesion
usaaf
delegations
lorestan
whalers
biathlon
vaulted
mathematically
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heisman
kalamazoo
gesellschaft
launceston
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quadruple
kowloon
psychoanalysis
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induces
lesotho
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eucharist
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virtuoso
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subterranean
sizeable
herodotus
subscriber
huxley
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forewing
warring
boleslaw
bharatiya
suffixes
trois
percussionist
downturn
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mentored
dramatist
guilds
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venomous
mehmed
assembling
rabbinic
hegemony
replicas
enlargement
claimant
retitled
utica
dumfries
metis
deter
assortment
tubing
afflicted
weavers
rupture
ornamentation
transept
salvaged
upkeep
callsign
rajput
stevenage

trimmed
intracellular
synchronization
consular
unfavorable
royalists
goldwyn
fasting
hussars
doppler
obscurity
currencies
amiens
acorn
tagore
townsville
gaussian
migrations
porta
anjou
graphite
seaport
monographs
gladiators
metrics
calligraphy
sculptural
swietokrzyskie
tolombeh
eredivisie
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queries
carts
exempted
fiberglass
mirrored
bazar
progeny
formalized
mukherjee
professed
amazon.com
cathode
moreton
removable
mountaineers
nagano
transplantation

augustinian
steeply
epilogue
adapter
decisively
accelerating
mediaeval
substituting
tasman
devonshire
litres
enhancements
himmler
nephews
bypassing
imperfect
argentinian
reims
integrates
sochi
ascii
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niches
surgeries
fables
versatility
indra
footpath
afonso
crore
evaporation
encodes
shelling
conformity
simplify
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quotient
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firmware
umpires
architectures
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conservatism
secretion
embroidery
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tuvalu
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prefectural
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grievances
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centerpiece
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jerzy
genital
maidstone
salinity
grumman
signifies
presbytery
meteorology
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amplified
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bulge
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flamenco
coimbatore
refinement
enshrined
grizzlies
capacitor
usefulness
evansville
interscholastic
rhodesian
bulletins
diamondbacks
rockers
platted
medalists
formosa
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slabs
guadeloupe
disparate
concertos
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brampton
srpska
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florentine
epitaph
kanye
rallying
analysed
grandstand
infinitely

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hacienda
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norwalk
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pomona
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darfur
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whorl
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mosul
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olympiacos
stamens
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cults
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tubingen
southerly
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unorganized
hangars
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hails

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woodbridge
pinus
wiesbaden
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fluorescence
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plenary
troublesome
episodic
thrissur
kickboxing
allele
staffing
garda
televisions
philatelic
spacetime
bullpen
oxides
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inventive
truro
compatriot
ruskin
normative
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gotha
murad
illawarra
gendarmerie
strasse
mazraeh
rebounded
fanfare
liaoning
rembrandt
iranians
emirate
governs
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waterfowl
chairmen
katowice
aristocrats
eclipsed
sentient

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sacking
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medicaid
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wuhan
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enthusiastically
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kanpur
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sapporo
finns
calvinist
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sparrows
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cornelis
minster
vuelta
plebiscite
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panchayats
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cavan
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reared
repainted
armaments
bowed
thoracic
balliol
piero
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junkers
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metallurgy
honorific
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namco
springboard
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reichstag
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genesee
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stara
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resupply
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rajiv
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milosevic
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druze
silvery
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shrubland
relaunch
disband
nunatak
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excessively
waned
attaching
luminosity
bugle
encampment
electrostatic
minesweeper
dubrovnik
rufous
greenock
hochschule
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upanishad
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orchestre
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seaward
westpac
separator
perpignan

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oscillating
unregulated
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finnmark
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darshan
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'black
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amarna
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replayed
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nossa
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interregnum
sassoon
kwajalein
greenbrier
caldas
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flavius
increment
shakhtar
nullified
pinfall
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gruppe
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congruent
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pasig
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secessionist
afrikaner
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montezuma
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diwali
quartzite
shabaab
agassiz
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stormwater
luxemburg
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greifswald
campeche
inexplicably
refereeing
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cadastral
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nehemiah
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emcee
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103rd
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hradec
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debrecen
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secede
ludvig
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snippets
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euripides
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moshav
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seabird
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bessemer
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elphinstone
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'white
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'great
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boccaccio
breisgau
southbank
bskyb
adjoined

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aforesaid
sadhu
langue
headship
wozniacki
hangings
regulus
prioritized
dynamism
allier
hannity
shimin
antoninus
gymnopilus
caledon
preponderance
melayu
electrodynamics
syncopated
ibises
krosno
mechanistic
morpeth
harbored
albini
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'real
hyperactivity
haveli
writer/director
minato
nimoy
caerphilly
chitral
amirabad
fanshawe
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lorde
mukti
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spyware
hanbury
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stari
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oromia
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gaeltacht
argentinos
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tokai
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bezirksliga
conceicao
myosin
nellore
500cc
supercomputers
approximating
glyndwr
polypropylene
haugesund
cockerell
tudman
ashbourne
hindemith
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rigveda
etruria
romanos
steyn
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manhunter
laryngeal
fraudulently
janez
wendover
haplotype
janaki
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belizean
mellencamp
cartographic
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tricolour
pseudoscience
satara
bytow
s.p.a.
jagdgeschwader
arcot
omagh
sverdrup
masterplan
surtees
apocrypha
ahvaz
d'amato
socratic
leumit
unnumbered
nandini
witold
marsupial
coalesced
interpolated
gimnasia
karadzic
keratin
mamoru
aldeburgh
speculator
escapement
irfan
kashyap
satyajit
haddington
solver
rothko

ashkelon
kickapoo
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superbly
bloodiest
greenlandic
lithic
autofocus
yardbirds
poona
keble
javan
sufis
expandable
tumblr
ursuline
swimwear
winwood
counsellors
aberrations
marginalised
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predestination
varietal
siddhartha
dunkeld
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esquimalt
shabab
ajith
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stargard
hoysala
radhakrishnan
sinusoidal
strada
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monoid
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mildura
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ottokar
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stirner
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thymus
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rothesay
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thurrock
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merite
psoriasis
macaw
erigeron
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mudstone
distorting
karlheinz
ramen
tailwheel
vitor
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contagion
cobden
rendezvoused
prokaryotic
deliberative
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starlings
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viticultural
beaverton
overflowed
convener
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michiel
ternopil
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biplanes
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gamespy
ventspils
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profesional
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arusha
scapular
forestall
pyridine
ulema
eurodance
aruna
callus
periodontal
coetzee
immobilized
o'meara
maharani
katipunan
reactants
zainab
microgravity
saintes
britpop
carrefour
constrain
adversarial
firebirds
brahmo
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tocantins
obtainable
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'king
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sulayman
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wilhelmine
pembina
bojan
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pensioner
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1660s
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efendi
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ujjain
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mickiewicz
irvington
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fairlie
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variances
levantine
mariinsky
jadid
jarrow
asia/oceania
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restorer
monarchical
pazar
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cabildo
savannas
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dench
spoonbills
novelette
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hypersensitivity
authorising
montefiore
mladen
qu'appelle
theistic

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conestoga
saare
californica
proboscis
carrickfergus
imprecise
hadassah
baghdadi
jolgeh
deshmukh
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heliopolis
berle
adaptability
partenkirchen
separations
baikonur
cardamom
southeastward
southfield
muzaffar
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rajkot
kiyoshi
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upsurge
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descriptors
oddity
greyfriars
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salmond
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underpowered
transpose
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waratahs
joris
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perfusion
koszalin
mieczyslaw
ayyubid
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sant'angelo
quicktime
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staves
sanyo
melaka
acrocercops
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circassians
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chivalric
pierrepont
alleviating
broadsides
centipede
b.tech
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sudetenland
hussite
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ironclads
gainsbourg
testis
penarth
plantar
azadegan
beano
espn.com
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nbcuniversal
eliade
khamenei
montferrat
undistinguished
ethnological
wenlock
fricatives
polymorphic
biome
joule
sheaths
astrophysicist
salve
neoclassicism
lovat
downwind
belisarius
forma
usurpation
freie
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backbench
ascenso
'high
aagpbl
gdanski
zalman
mouvement
encapsulation
bolshevism
statny
voyageurs
hywel
vizcaya
mazra'eh
narthex

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cerebrospinal
mauretania
fantail
clearinghouse
bolingbroke
pequeno
ansett
remixing
microtubule
wrens
jawahar
palembang
gambian
hillsong
fingerboard
repurposed
sundry
incipient
veolia
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ulaanbaatar
atsushi
foundling
resistivity
myeloma
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mazowiecka
diacritic
urumqi
clontarf
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bridport
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carburetors
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sittings
aspinall
sealift
transferase
boldklub
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predominated
francophonie
ferruginous
castrum
neogene
sakya
madama
precipitous
'love
posix
bithynia
uttara
avestan
thrushes
seiji
memorably
septimius
libri
cibernetico
hyperinflation
dissuaded
cuddalore
peculiarity
vaslui
grojec
albumin
thurles
casks
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buble
casals
terek
gnosticism
cognates
ulnar
radwanska
babylonians
majuro
oxidizer
excavators
rhythmically
liffey
gorakhpur
eurydice
underscored
arborea
lumumba
tuber
catholique
grama
galilei
scrope
centreville
jacobin
bequests
ardeche
polygamous
montauban
terai
weatherboard
readability
attainder
acraea
transversely
rivets
winterbottom
reassures
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chera
andesite
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bandon
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ukiyo
gurdjieff
tethys
sparc
muscogee
grebes
belchatow
mansa
blantyre
palliser
sokolow
fibroblasts
exmoor
misaki
soundscapes
housatonic
middelburg
convenor
leyla
antipope
histidine
okeechobee
alkenes
sombre
alkene
rubik
macaques
calabar
trophee
pinchot
'free
frusciante
chemins
falaise
vasteras
gripped
schwarzenberg
cumann
kanchipuram
acoustically
silverbacks
fangio
inset
plympton
kuril
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recep
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stavropol
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apoptotic
papandreou
wailers
moonstone
assizes
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annapurna
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promiscuity
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caloptilia
anisotropy
quaternions
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awardees
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sigint
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oblasts
gaumont
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commissars
kesteven
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vijayanagar
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watermark
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mamet
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sorkh
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vosta
abbasids
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hedong
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pathet
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bassists
'most
postsecondary
ossory
grampian
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impressionistic
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annesley
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mowat
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ctesiphon
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caxton
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pampas
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arsenio
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passchendaele
searchlights
holywell
mohandas
preventable
gehry
mestizos
ustinov
cliched
'national
heidfeld
tertullian
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stator
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kenrick
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scape
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molesworth
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melanesia
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troon
glycoside
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thomond
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raphaelite
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magnetosphere
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clemenceau
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granitic
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grzegorz
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dockyards
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subroutine
afterword
waterwheel
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nitin
undifferentiated
emacs
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barneveld
tapers
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nigerien
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capistrano
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brienne
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angiotensin
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herbivore
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mahoning
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houten
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heritable
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sarpsborg
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assange
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nacht
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jrotc
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monoamine
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wrasse
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spaceport
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orden
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fleshed
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tuoba
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surrealistic
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mankiewicz
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wallsend
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bluesy
vitruvius
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gujranwala
subprefecture
keelung
goiania
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shi'ite
semitone
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nepomuk
shruti
millstones
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armia
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pasay
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grantee
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brankovic
lapis
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urraca
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elwes
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1.140 libcap 2.27

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