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

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1.3 gdal 3.1.4

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1.5 docker-ce 19.03.13

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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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A. HISTORY OF THE SOFTWARE

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.
Zope Corporation was 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
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* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/DerivedColumnList22.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/AlterSchemaFinalStep.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/tools/jdbc/MockExecuteContext.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/MergeNotMatchedValuesStep10.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/tools/jdbc/MockConfiguration.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/BindingGetStatementContext.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/IdentityImpl.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/util/hsqldb/HSQldbDSL.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/Random.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/RecordDelegate.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/RowImpl4.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/AbstractQueryPartMap.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/SelectUnionStep.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/AbstractCursor.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/TableOnStep.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/Ln.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/AbstractQueryPartMap.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/SelectUnionStep.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/AbstractCursor.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/TableOnStep.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/DropDatabaseFinalStep.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/MergeNotMatchedSetMoreStep.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/DerivedColumnList9.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/AbstractVarcharBinding.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/XMLQueryPassingStep.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/ConstraintForeignKeyReferencesStep3.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/ConstraintForeignKeyReferencesStep13.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/ConstraintForeignKeyReferencesStep9.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/Plus.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/SelectSeekStep7.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/RowImpl6.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/DefaultVersionProvider.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/Identity.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/QueryPartList.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/CreateTableCommentStep.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/DDLQuery.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/Meta.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/WithTable.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/Binding.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/SelectForUpdateOfStep.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/FutureResult.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/MergeUsingStep.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/DDLQuery.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/CustomQueryPart.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/ConditionProvider.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/ExplainQuery.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/CatalogMetaProvider.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/DateToLocalDateConverter.java
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* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/FieldCondition.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/LoaderFieldMapper.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/impl/Fields.java
* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/VisitListener.java
* /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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/*
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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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* /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, clobes and the local configuration.

BLOBS and CLOBS

[#1326] This is necessary in those dialects that have long-lived temporary lob objects, which can cause memory leaks in certain contexts, where the lobes' underlying session / connection is long-lived as well. Specifically, Oracle and ojdbc have some trouble when streaming temporary lobs to UDTs:

- The lob cannot have a call-scoped life time with UDTs
- Freeing the lob after binding will cause an ORA-22275
- Not freeing the lob after execution will cause an OutOfMemoryError

Local configuration

[#1544] There exist some corner-cases regarding the SQLOutput API, used for UDT serialisation / deserialisation, which have no elegant solutions of obtaining a Configuration and thus a JDBC Connection object short of:

- Making assumptions about the JDBC driver and using proprietary API, e.g. that of ojdbc
- Dealing with this problem globally by using such a local configuration

@see [http://stackoverflow.com/q/11439543/521799](http://stackoverflow.com/q/11439543/521799)

Found in path(s):

/opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/implementations/DefaultExecuteContext.java

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/**
 * This package contains parts of OpenCSV.
 * 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>
 */

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public DomainConstraint createDomainConstraint() {
public Domain createDomain() {

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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=
 * */

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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

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* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/tools/json/JSONValue.java
* /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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 * <p>
 * jOOR has no external dependencies. Nevertheless, some libraries that are
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 * <p>
 */

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* /opt/cola/permits/1195288340_1629742779.98/0/jooq-3-14-4-sources-jar/org/jooq/tools/reflect/Compile.java
* /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
 */

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* /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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jar/javax/validation/metadata/ParameterDescriptor.java
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* /opt/cola/permits/1195287814_1629742743.83/0/validation-api-1-1-0-final-sources-19.jar/javax/validation/constraints/Max.java
* /opt/cola/permits/1195287814_1629742743.83/0/validation-api-1-1-0-final-sources-19.jar/javax/validation/groups/Default.java
* /opt/cola/permits/1195287814_1629742743.83/0/validation-api-1-1-0-final-sources-19-jar/javax/validation/spi/BootstrapState.java
* /opt/cola/permits/1195287814_1629742743.83/0/validation-api-1-1-0-final-sources-19-jar/javax/validation/Validation.java
* /opt/cola/permits/1195287814_1629742743.83/0/validation-api-1-1-0-final-sources-19-jar/javax/validation/ConstraintDeclarationException.java
* /opt/cola/permits/1195287814_1629742743.83/0/validation-api-1-1-0-final-sources-19-jar/javax/validation/constraints/AssertTrue.java
* /opt/cola/permits/1195287814_1629742743.83/0/validation-api-1-1-0-final-sources-19-jar/javax/validation/Valid.java
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* /opt/cola/permits/1195287814_1629742743.83/0/validation-api-1-1-0-final-sources-19-jar/javax/validation/ConstraintDefinitionException.java
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  jar/javax/validation/Path.java
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  jar/javax/validation/ConstraintViolation.java
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  jar/javax/validation/constraints/DecimalMin.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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1.26 dayjs 1.10.2

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1.30 pycparser 2.2
1.30.1 Available under license:
pycparser -- A C parser in Python

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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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to the source code.
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 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] ;

  :=^ (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 = $atom.omos;}
  |subrule[null][]{${omos = $subrule.omos;}
  | ACTION[null][]{${omos = controller.action((ActionAST)$ACTION);}
  | SEMPRED[null][]{${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;}

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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, $label);} | ^(TOKEN_REF ARG_ACTION .){$omos = controller.tokenRef($TOKEN_REF, $label, $ARG_ACTION);} | ^(TOKEN_REF .){$omos = controller.tokenRef($TOKEN_REF, $label, null);} | $omos = controller.tokenRef($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<Tokeng> getActionTokens() {
    List<Tokeng> chunks = new ArrayList<Tokeng>();
    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)$c);}
[\n\s~(~\$) {buf.append((char)$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)>
void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
}
>
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<ifndef(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) { 
}}
/**
 * {@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) { }
*/
@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); 
}
}
>>

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

---

Open Source Used In Cisco Crosswork MRE/HCO 5.0 183
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}
         *
         * The default implementation returns the result of calling
         * `{@link #visitChildren} on `{@code ctx}`.
         */
        @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>:
public static final int RULE_<r.name> = <r.index>; separator="", wrap, anchor;

private static String[] makeRuleNames() {
    return new String[] {
        RULE_<r.name>; separator="", wrap, anchor
    };
}

public static final String[] ruleNames = makeRuleNames();

@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; }

vocabulary(literalNames, symbolicNames) ::= <<

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

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);<invalid>
        }
        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;
}
</if(sempredFuncs)>

/* 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 _sempred(<r.name> _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="\",<a.name>}>) 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:[1 | <altLabelCtxs.(I)>]; separator="\n">

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

private <currentRule.ctxType> <currentRule.name>({_p<args:{a | , a}>}) throws RecognitionException {
ParserRuleContext _parentctx = _ctx;
int _parentState = getState();
<currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, _parentState<{currentRule.args:{a | , a}>});
<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>
enterAlt(_localctx, <currentOuterMostAltCodeBlock.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="un">
while (<loopExpr>) {
<alts; separator="un">
setState(<choice.loopBackStateNumber>);
_errHandler.sync(this);
<iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
_setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
<preamble; separator="un">
do {
<alts; separator="un">
_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="un">
switch ( getInterpreter().adaptivePredict(_input, <choice.decision>, _ctx) ) {
<alts:{alt |
<case <i>
<alt>
break;}; separator="un">
}
>>

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="un">
}
>>
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)> = }>_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 {
      >>
    }
  >>

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

MatchSet(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)

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

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>() { }
    </if(struct.provideCopyFrom)> </if(struct.provideCopyFrom)> </if(struct.provideCopyFrom)>
  }
}>
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)>
    _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>
  <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",
            <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)>

<lexer>
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[] 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.

/*
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* 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>

--------------------
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public interface I<file.grammarName>Listener : IParseTreeListener {
    <file.listenerNames:{ lname |
    /// \<summary>
    /// Enter a parse tree produced by the \<c>lname</c>\</summary>
    /// labeled alternative in \<see cref="file.parserName>.lname\</see>.\<summary>
    /// Enter a parse tree produced by \<c>lname</c>.\</summary>
    void Enter<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.’<lname; format="cap">Context context);
    /// \<summary>
    /// Exit a parse tree produced by the \<c>lname</c>\</summary>
    /// labeled alternative in \<see cref="file.parserName>.lname\</see>.\<summary>
    /// Exit a parse tree produced by \<see cref="file.parserName>.lname\</see>.\</summary>
    void Exit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.’<lname; format="cap">Context context);}; separator="n">

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;

        /// \<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.Diagnostics.DebuggerNonUserCode]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseListener : I<file.grammarName>Listener {
/// \</summary>
/// 
public virtual void Enter<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context context) { 
}
/// \</summary>
/// 
public virtual void Exit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context context) { 
}
/// \</summary>
/// 
public virtual void EnterEveryRule([NotNull] ParserRuleContext context) { 
}
/// \</summary>
/// 
public virtual void ExitEveryRule([NotNull] ParserRuleContext context) { 
}
/// \</summary>
/// 
public virtual void VisitTerminal([NotNull] ITerminalNode node) { 
}
/// \</summary>
/// 
public virtual void VisitErrorNode([NotNull] IErrorNode node) { 
}
} // namespace <file.genPackage>
@end
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)"/\.
/// \return The visitor result.
/// \param context The parse tree.

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;
/// <summary>
/// This class provides an empty implementation of <see cref="I{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.Diagnostics.DebuggerNonUserCode]
[System.CLSCompliant(false)]
public partial class {grammarName}BaseVisitor<Result> : AbstractParseTreeVisitor<Result>,
I{grammarName}Visitor<Result> {
    /// <summary>
    /// Visit a parse tree produced by the <c>{visitorLabelRuleNames.(lname)}</c>
    /// labeled alternative in <see cref="{parserName}.{visitorLabelRuleNames.(lname)}="/">
    /// </summary>
    /// <param name="context">The parse tree.</param>
    /// <return>The visitor result.</return>
    public virtual Result Visit{name; format="cap">([NotNull] {identifier.(parserName)}.name; format="cap">Context context) { return VisitChildren(context); };

} // namespace {genPackage}

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>
<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;
  }
>>
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>

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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(currentOuterMostAltCodeBlock=currentOuterMostAltCodeBlock, ...)>}
CodeBlockForAlt(currentOuterMostAltCodeBlock, 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">
<error>
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">
<error>
default:
<error>
}
>>
LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
State = <choice.stateNumber>
ErrorHandler.Sync(this);
if (<expr>) {
    <alts; separator="\n">
} else if (!(<followExpr>)) <error/>
>>

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

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.blockStartStateNumber>
do {
    <alts; separator="\n">
    State = <choice.stateNumber>
    ErrorHandler.Sync(this);
} 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>
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);
_alts = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
while ( _alts!=<choice.exitAlt> && _alts!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER ) {
  if ( _alts==<choice.ast.greedy> ) {
    <iteration>
  }<alts> <! should only be one !>
State = <choice.loopBackStateNumber>;
ErrorHandler.Sync(this);
_alts = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
} >>

PlusBlock(choice, alts, error) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
_alts = 1<if(!choice.ast.greedy)>+1<endif>;
do {
  switch (_alts) {
  <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);
  _alts = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
} while ( _alts!=<choice.exitAlt> && _alts!=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(tokenType.(ttype), bits.shift)))
%>

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<r if(argExprsChunks),<endif><argExprsChunks>);
>>

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> \leq 0 || <else>!(<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)>);"
** How to translate $tokenLabel */

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); }
  >>

ContextRuleContextGetterDecl(r) ::= <<
  [System.Diagnostics.DebuggerNonUserCode] public <r.ctxName> <csIdentifier.(r.name)>() { return GetRuleContext<<r.ctxName>>(0); }
  >>

RuleContextListGetterDecl(r) ::= <<
  [System.Diagnostics.DebuggerNonUserCode] public <contextGetterCollection({<r.ctxName>})> <csIdentifier.(r.name)>() { return GetRuleContexts<<r.ctxName>(); }
  >>

RuleContextListIndexedGetterDecl(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) ::= "\_<set{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) {
          <ctorAttrs:{a | , <a>}> 
        }<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)>
        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(label)>{
  _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>
  _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>
  _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.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>
};

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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*

/** 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
trec_rule returns [boolean isLeftRec]
```java
@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;}

| nonLeftRecurr  {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);}

;

nonLeftRecurr
:^(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 {St = $s.t;})
|^(PLUS_ASSIGN ID s=token {St = $s.t;})
|b=STRING_LITERAL   {St = $b;}
   |^(b=STRING_LITERAL elementOptions){St = $b;}
|c=TOKEN_REF elementOptions){St = $c;}
|c=TOKEN_REF       {St = $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($start);
prequelConstruct
@init {
enterPrequelConstructs($start);
}
@after {
exitPrequelConstructs($start);
}
: {$firstOne=$start;} prequelConstruct+
|
|

optionsSpec
| delegateGrammars
| tokensSpec
| channelsSpec
| action
|

option
@init {
enterOption($start);
boolean rule = inContext("RULE ...");
boolean block = inContext("BLOCK ..."};
}
@after {
exitOption($start);
}
: ^(OPTIONS option*)
|

@after {
exitOptionsSpec($start);
}

@init {
enterOptionsSpec($start);
}
@after {
exitOptionsSpec($start);
}

@after {
exitOptionsSpec($start);
}

: ^(OPTION option)
|


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

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

Finally Clause
@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);
}
:^((ACTION elementOptions)
   actionInAlt((ActionAST)$ACTION);
   SEMPRED elementOptions
   sempredInAlt((PredAST)$SEMPRED);
   ^(ACTION elementOptions)
   actionInAlt((ActionAST)$ACTION);
   ^(SEMPRED elementOptions)
   sempredInAlt((PredAST)$SEMPRED);
   EPSILON

labeledLexerElement
| lexAtom
| lexSubrule
| 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 \text{ elementOptions})}\{actionInAlt((ActionAST)$ACTION);\}
\(^{(SEMPRED \text{ elementOptions})}\{sempredInAlt((PredAST)$SEMPRED);\}
\]
\range
\[^{(NOT \text{ blockSet})}\]
\[^{(NOT \text{ block})}\]
;

astOperand
\@init {
EnterAstOperand($start);
}
\@after {
ExitAstOperand($start);
}
:atom
\[^{(NOT \text{ blockSet})}\]
\[^{(NOT \text{ block})}\]
;

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);
}
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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);
}

:^\(BLOCK optionsSpec? ruleAction* ACTION? alternative+\)
;

eruleRef
@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
No license file was found, but licenses were detected in source scan.

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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.java
No license file was found, but licenses were detected in source scan.

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

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

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

wantsSingleLineMessage() ::= "true"

*/

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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.Util;
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 Grammar currentAlt;
public Grammar g;
public BlockSetTransformer(TreeNodeStream input, Grammar g) {
    this(input, new RecognizerSharedState());
    this.g = g;
}
}

topdown
: ^RULE (id=TOOKEN_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, $tree);
}
:^ebnfSuffix blockSet) -> ^(ebnfSuffix ^BLOCK<BlockAST> ^ALI<AltAST> blockSet))
ebnfSuffix
@after {$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)
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>;
<endif>

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>
abstract class <file.grammarName>Listener extends ParseTreeListener {
  <file.listenerNames:{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) {}

/// 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>
<br>}

/// This abstract class defines a complete generic visitor for a parse tree
/// produced by [<file.parserName>].
/// /// [T] is the return 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)>\}.n]
  <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;

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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)>};

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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><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>
        <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) ::= <<

---

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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);
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 (<>(invert)<m.varName> \= 0 || <else>!(<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>"
RefValueRef(a) ::= "_localctx.<a.name>"
QRefValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"

/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.label>"
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> !is 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 ? 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>() => getRuleContext\<r.ctxName\>(0);
RuleContextListDecl(rdecl) ::= "List<\<rctxName\>> <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<\<rctxName\>> <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) ::= "_set<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)>ParserRuleContext<else>RuleContext<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)>ParserRuleContext<else>RuleContext<endif> ctx) {
      super.copyFrom(ctx);
      <struct.attrs:{a | this.<a.name> = (ctx as <struct.name>).<a.name>;}; separator="\n"><dispatchMethods; separator="\n"><extensionMembers; separator="\n>
   }<endif>
   <dispatchMethods; separator="\n"><extensionMembers; separator="\n>
   }<else>;<endif>
   >>
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)>
        _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;
    }
}

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

@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)>

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

@override
String get serializedATN => _serializedATN;

@override
String get 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 = [
 modeledgments:{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
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* /opt/cola/permits/1195287846_1629742743.85/0/antlr4-4-9-sources-jar/org/antlr/v4/parse/ANTLRParser.g

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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.
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 antlr4 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(grammarFileName, 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> }

>>

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

<ruleCtx>

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

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

  localctx = <parser.name>.<currentRule.cxtType>(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"> 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: [1 | <altLabelCtxs.(1)> ]; 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="\n"}> 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="\n"> 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="\n">
    <<<

    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="\n">
    <<<

    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="|el">
    else:
      <error>
    endif
    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 | 1) < <offsetShiftVar(s.varName, bits.shift)>)) and (bits.ttypes:{ttype | (1 | 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

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

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

ContextTokenListIndexedGetterDecl(t) ::= "<t.name>(self, i=None):"
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)
>>

RuleContextGetterDecl(r) ::= "<r.name>(self):"
<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">  

ListenrDispatchMethod(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
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>]

  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) ::= <\n<! 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) ::= <\n<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/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-
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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"

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This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other grammars are derived from this grammar via source code control integration (perforce) or by the gdiff tool.

This grammar and its associated grammars 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 inheritance);
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
*/
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 { SEMPRD; 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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```java
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 also 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.

$qchannel=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
: '[]'
(\w-(\w|\u)
|-(\w|\u)\w]*
)*
;

// --------------
// 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

| ~(T[T'])

)*

T'

;

// -------
// 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);
gramarError(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 inadvertently 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 believe 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 imbalanced { } 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, delimiters, 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..\u200D |
| \u2070..\u218F |
| \u2C00..\u2FDF |
| \u2FEO..\u2FFE |
| \u2FE0..\uFEFF |
| \u3001..\uFFFD |
| // ignores | [\u10000-\u1FFFF] ;

// -----------------------------
// 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 inadvertently 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 inadvertently 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
// inadvertently recognize the end of a string or character when the terminating
// delimiter has been escaped.

fragment ACTION_ESC
  : '\'
  ;

// ------
// Integer
//
// Obviously (I hope) match an arbitrary long sequence of digits.

INT : ('0'..'9')+
  ;

// ------
// Source spec
//
// A fragment rule for picking up information about an originating
// 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 distinction 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_ESCAPE

| // A Swift/Hack style Unicode escape sequence
UNICODE_EXTENDED_ESCAPE

| // An illegal escape sequence
~('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));
}

}:

}:   '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 infinite 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++; }
// (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
// 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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*/

```java
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);}
   | SEMPREDPRED
   {p = factory.sempred((PredAST)$SEMPRED);}
   | ^(ACTION .)
   {p = factory.action((ActionAST)$ACTION);}
   | ^(SEMPREDPRED .)
   {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
| ^(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);\}
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

No license file was found, but licenses were detected in source scan.

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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.  
*/

```javascript
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';
    </if>
    <if(file.genVisitor)>
        import <file.grammarName>Visitor from './<file.grammarName>Visitor.js';
    </if>
    <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}.  
```
```javascript
exit<Iname; 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);
            }
        }}
}

}>>

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) {
        case <f.ruleIndex>:
            return this.<f.name>_sempred(localctx, predIndex);
            separator="\n"
        default:
            throw "No predicate with index:" + ruleIndex;
    }
}
<endif>

<sempredFuncs.values; separator="\n">
<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;
}
</if>
<actionFuncs.values; separator="\n">
<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;
}
</if>
<sempredFuncs.values; separator="\n">
<endif>
<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)>}}
<<

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"/>
break;
}
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 {

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>
} while(<loopExpr>);

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} else ">
}}

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>) \& \neg0x1f) == 0

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

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

offsetShiftVar(shiftAmount, offset) ::= <%
\langle isZero.(offset)\rangle\langle shiftAmount\rangle - \langle offset\rangle\langle shiftAmount\rangle \langle endif\rangle
%

offsetShiftType(shiftAmount, offset) ::= <%
\langle isZero.(offset)\rangle\langle parser.name\rangle.\langle shiftAmount\rangle - \langle offset\rangle\langle shiftAmount\rangle \langle endif\rangle
%

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

cases(ttypes) ::= <<
\langle ttypes:{t | case \langle parser.name\rangle.\langle t\rangle\rangle; separator="\n"
>>

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

MatchToken(m) ::= <<
this.state = \langle m.stateNumber\rangle;
\langle if(m.labels)\rangle\langle m.labels:{l | <labelref(l)> = }\rangle\langle endif\rangle this.match(\langle parser.name\rangle.\langle m.name\rangle);
>>

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><expr>)<else>! (<expr>)<endif> { 
  <if(m.labels)> <m.labels:{l | <labelref(l)> = }><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)> = }><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_post(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()>
RuleContextDecl(r) ::= "this.<r.name> = null; // <r.ctxName>
RuleContextListDecl(rdecl) ::= "this.<rdecl.name> = []; // of <rdecl.ctxName>

ContextTokenGetterDecl(t) ::= "<<
<name>() {}"
return this.getToken(<parser.name>.<t.name>, 0);
};
>>

// should never be called
ContextTokenListGetterDecl(t) ::= <<
<stdio>._list() {
    return this.getTokens(<parser.name>.<stdio>);
}
>>

ContextTokenListIndexedGetterDecl(t) ::= <<
<stdio> = function(i) {
    if(i===undefined) {
        i = null;
    }
    if(i===null) {
        return this.getTokens(<parser.name>.<stdio>);
    } else {
        return this.getToken(<parser.name>.<stdio>, i);
    }
};
>>

ContextRuleGetterDecl(r)       ::= <<
<stdio>() {
    return this.getTypedRuleContext(<r.ctxName>,0);
};
>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
<stdio>_list() {
    return this.getTypedRuleContexts(<parser.name>.<stdio>);
}
>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
<stdio> = function(i) {
    if(i===undefined) {
        i = null;
    }
    if(i===null) {
        return this.getTypedRuleContexts(<parser.name>.<stdio>);
    } else {
        return this.getTypedRuleContext(<parser.name>.<stdio>, 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)\langlecontextSuperClass\rangle\elseantlr4.ParserRuleContext\rangle{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"
  ];
  static literalNames = [
    "<lexer.literalNames>
  ];
  static ruleNames = [
    "<lexer.ruleNames>
  ];

  constructor(input) {
    super(input)
    this._interp = new antlr4.atn.LexerATNSimulator(this, atn, decisionsToDFA, new antlr4.PredictionContextCache());
  
  }

  get atn() {
    return atn;
  }

}

<lexer.name>.EOF = antlr4.Token.EOF;
<lexer.tokens">
<lexer.name>.<k> = <lexer.tokens.(k)>;

<if(lexer.channels)>
<lexer.channels:>{c} <lexer.name>.<c> = <lexer.channels.(c)>;

<endif>
<if(rest(lexer.modes))>
<rest(lexer.modes):>{m} <lexer.name>.<m> = <lexer.modes.(m)>;

<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) ::= <<
<javascriptTypeInitMap.(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.

/*
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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.
*/

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 |
/**
 * Enter a parse tree produced by the {@code <lname>} labeled alternative in
 * {@link <file.parserName>#{file.listenerLabelRuleNames.(lname)}}.
 */
-func enter<lname; format="cap">(_ctx: <file.parserName>.<lname; format="cap">Context)
/**
 * Exit a parse tree produced by the {@code <lname>}
 * labeled alternative in {@link <file.parserName>#{file.listenerLabelRuleNames.(lname)}}.
 */
-func exit<lname; format="cap">(_ctx: <file.parserName>.<lname; format="cap">Context)}; separator="\n">
}

>>

BaseListenerFile(file, header, namedActions) ::= <<
$fileHeader(file.grammarFileName, file.ANTLRVersion)>
<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 {
VisitorFile(file, header, namedActions) ::= <<
[fileHeader(file.grammarFileName, file.ANTLRVersion)]
[if(file.genPackage)]

<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) { }

/**
 * @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)]
/**
   * 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 \{@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.
*/
<file.grammarName>BaseVisitor\<T\>: AbstractParseTreeVisitor\<T\> { 
<file.parserName>: BaseParser<\<\<T\\>}> 
/**
* @inheritdoc
* The default implementation returns the result of calling
* visitChildren on ctx.
*/
<accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context) -> T? { return visitChildren(ctx) }
}

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

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

Parser_(ctor="parser_ctor", ...)::= <<
<class name="?<superClass; null="Parser">" internal static var _decisionToDFA: [DFA] = {
    var decisionToDFA = [DFA]();
    let length = <parser.name>._ATN.getNumberOfDecisions();
    for i in 0..<length {
        decisionToDFA.append(DFA(<parser.name>._ATN.getDecisionState(i)!, i))
    }
    return decisionToDFA
}()

internal static let _sharedContextCache = PredictionContextCache()

<if(parser.tokens)> 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>
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">}; 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>)
}
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)))! {<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)
<i> <labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch(try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)) {
<alts: [alt] 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] 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:{type | (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)>

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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.types contains at most two items
bitsetInlineComparison(s, bits) ::= <%
  <bits.types:{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
  <parser.name>().Tokens.<m.name>.rawValue
  >>
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(invert)<m.varName> \<= 0 || !<else>!(<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)> = }><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_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_ctxt(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_ctxt(r) ::= "_localctx"
ThisRulePropertyRef_parser(r) ::= "self"

SetNonLocalAttr(s, rhsChunks) ::= "((<s.ruleName; format="cap">Context)getitemInvokingContext(<s.ruleIndex>)).<s.name>"
"((<s.ruleName; format="cap">Context)\getInvokingContext(<s.ruleIndex>)).<s.name> = <rhsChunks>"
/** 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"><getter:{g | <g>}; separator="\n">!
<if(ctorAttrs)> <accessLevelNotOpen(parser)> convenience init(_ parent: ParserRuleContext,_ invokingState: Int) {
super.init(parent, invokingState)  }<endif> !>
<if(ctorAttrs)>
<accessLevelNotOpen(parser)> <accessLevelNotOpen(parser)> init(_ parent: ParserRuleContext,_ invokingState: Int) {
super.init(parent, invokingState)  }<endif> !>
<dispatchMethods; separator="\n"><extensionMembers; separator="\n">}

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
<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>
]

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override <accessLevelOpenOK(lexer)>
func getVocabulary() -> Vocabulary {
    return <lexer.name>.VOCABULARY
}

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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* 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="; ">} 
>>

decision-rank(states) ::= <<
  {rank=same; rankdir=TB; <states:{s | s<s>}; separator="; ">} 
>>

decision-rank(states) ::= <<
  {rank=same; rankdir=TB; <states:{s | s<s>}; separator="; ">} 
>>

decision-rank(states) ::= <<
  {rank=same; rankdir=TB; <states:{s | s<s>}; separator="; ">} 
>>

decision-rank(states) ::= <<
  {rank=same; rankdir=TB; <states:{s | s<s>}; separator="; ">} 
>>

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>];
>>
épsilon-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>
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>
# 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, funcns, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser ctor", ...)>
>>

Parser_(parser, funcns, 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>

<funcns; separator="\n">

<if(sempredFuncs)>
    def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
        if self._predicates == None:
            self._predicates = dict()
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


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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>!>
    <loopExpr>:
        self.state = <choice.loopBackStateNumber>
        self._errHandler.sync(self)
        <iteration>
        while <loopExpr>:
            self.state = <choice.loopBackStateNumber>
            self._errHandler.sync(self)
            <iteration>
        <else if ( !(<followExpr>) ) <error>!>
    <alts; separator="\n">
</alts; separator="\n">
</loopExpr>:
</alts; separator="\n">
</loopExpr>:
</alts; separator="\n">
</preamble; separator="\n">
</if>
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>
      _alt = <alt>
    else:
      <error>
  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":
    if _alt==1<if(!choice.ast.greedy)>+1<endif>:
      <alts:{alt|
        if _alt == <i><if(!choice.ast.greedy)>+1<endif>: 
      <alt>
    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) ::= <<

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

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)> = }><endif>
self.match(<parser.name>, <m.name>)
<if(invert)> <expr> <if(m.labels)> <m.labels:{l | <labelref(l)> = }><else> self._input.LT(1) </if> <endif>
<capture>
<if(invert)> if <m.varName> <= 0 or <expr> <else> if not(<expr>) <endif>:
<if(m.labels)> <m.labels:{l | <labelref(l)> = }><else> self._errHandler.recoverInline(self) <endif>
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()>

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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) ::= "_<set_<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 | self.<a.name> = <a.name>}; separator="\n"> 
            <struct.ctorAttrs:{a | self.<a.name> = <a.name>}; separator="\n"> 
            <getters:{g | <g>}; separator="\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)
>>
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(localctx, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>,<currentAltLabel; format="cap">Context(self, <parser.name>,<ruleName; format="cap">)
<if(label)>Context(self, _parentctx, _parentState))
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>

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

<<
localctx.<label> = _prevctx
@endef
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)>


channelNames = [ u"DEFAULT_TOKEN_CHANNEL", u"HIDDEN"
channelNames = [ u"DEFAULT_TOKEN_CHANNEL", u"HIDDEN"
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must be an object, default value is "null".

```python
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.

/** 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
*/
dependencies(grammarFileName,in,out) ::= <<
  <if(in)> <grammarFileName>: <in; separator=", "> <endif>
  <out: [f | <f> : <grammarFileName>]; separator="\n"> 
>>

No license file was found, but licenses were detected in source scan.

/*
 * [The "BSD license"]
 * Copyright (c) 2012-2016 Terence Parr
 */
phpTypeInitMap ::= [
  "int":"0",
  "long":"0",
  "float":"0.0",
  "double":"0.0",
  "boolean":"false",
  default:"null"
]
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 |
  /**
   * Enter a parse tree produced by the `\<lname>`
   * labeled alternative in [@see <file.parserName>::\<file.listenerLabelRuleNames.(lname)>().]
   */
   public function enter<lname; format="cap">(Context\<lname; format="cap">Context $context) : void;
  /**
   * Exit a parse tree produced by the `\<lname>` labeled alternative
   * in [@see <file.parserName>::\<file.listenerLabelRuleNames.(lname)>().]
   */
   public function exit<lname; format="cap">(Context\<lname; format="cap">Context $context) : void;
};

BaseListenerFile(file, header, namedActions) ::= <<
  <fileHeader(file.grammarFileName, file.ANTLRVersion)>
  <if(file.genPackage)>
  namespace <file.genPackage>;
  </if>
  <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 |
    /**
      * 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);};
  }

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
<?php
/*
* Generated from <grammarFileName> by ANTLR <ANTLRVersion>
*/

final class <parser.name> extends <superClass; null="Parser">
{
}
public const <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=", ", wrap, anchor>;

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>
];

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++) {
    $decisionToDFA[$i] = new DFA($atn->getDecisionState($i), $i);
}
self::$atn = $atn;
self::$decisionToDFA = $decisionToDFA;
self::$sharedContextCache = new PredictionContextCache();
}

public function getGrammarFileName() : string
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);
}

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"
    default:
        return true;
    }
}

<sempredFuncs.values; separator="\n">
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 <if(file.genPackage)><file.genPackage>\<endif><parser.name>;<if (file.genVisitor)>use <if(file.genPackage)><file.genPackage>\<endif><file.grammarName>Visitor;<endif>
use <if(file.genListener)>use <if(file.genPackage)><file.genPackage>\<endif><file.grammarName>Listener;<endif>
use <if(file.genPackage)><file.genPackage>\<endif><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;}
    }

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

<!-- Open Source Used In Cisco Crosswork MRE/HCO 5.0 399 -->
<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) {
        case <actions:{index|>
            return <actions.(index)>; separator="\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>
        <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>
    <finallyAction>
    $this->exitRule();
}
return $localContext;
}
>>

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

public function <currentRule.name>({<a.name>} *) : Context\<currentRule.ctxType>
{
  return $this->recursive<currentRule.name; format="cap">(0<{currentRule.args:{a | , <a.name>} }>);
}

private function recursive<currentRule.name; format="cap">(int $precedence<{currentRule.args:{a | , <a.name>} }> ) : Context\<currentRule.ctxType>
{
  $parentContext = $this->ctx;
  $parentState = $this->getState();
  $localContext = new Context\<currentRule.ctxType>(<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(currentOuterMostAltCodeBlock= 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
  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
  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>) {
 $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 {
 $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>:
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>
        <$alt> <! 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" } 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) ::= <<
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 ($invert
\cdot$ \& \& \$m->varName$ <= 0 || !($invert$ ($expr$))} {
    if ($m->labels$) $m->labels$:{ $l | <labelref($l$)> = } $this->errorHandler->recoverInline($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$)> = } $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, $p->predicate$ <failChunks$), <failChunks$ <elseif($p->msg$>, <p->msg$ <$endif$>;
} else {
    $this->consume();
}

ExceptionClause($e$, $catchArg$, $catchAction$) \::=\ $catchArg$

catch ($catchArg$) {

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// 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) ::= "<TokenType() $<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.tokenDecs)><if(struct.tokenListDecls)><struct.tokenDecs : {d | /**
 * @var <TokenType()>|null $<d.name>
 */
public $<d.name>;}; separator="\n\n"><endif>
@if(struct.ruleContextDecls)><if(struct.tokenListDecls || struct.tokenDecs)><endif>
@if(struct.ruleContextListDecls)><if(struct.tokenListDecls || struct.tokenDecs || struct.ruleContextDecls)><endif>
@if(struct.ruleContextListDecls)><if(struct.tokenListDecls || struct.tokenDecs || struct.ruleContextDecls)><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);
        }
    }
    public function getRuleIndex() : int
    {
        return <parser.name>::RULE_<struct.derivedFromName>;
    }
>>
<getters:{g | <g>}; separator="\n\n">  
</getters>  
<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">  
</dispatchMethods>  
<endif>  
<if(extensionMembers)>  
<extensionMembers; separator="\n\n">  
</extensionMembers>  
<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">  
</getters>  
<endif>  
<if(dispatchMethods)>  
<dispatchMethods; separator="\n\n">  
</dispatchMethods>  
<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>($this-><struct.derivedFromName; format="cap">($this);  
</endif>  
</if(dispatchMethods)>  
</dispatchMethods>  
<endif>  
</if(extensionMembers)>  
<extensionMembers; separator="\n\n">  
</extensionMembers>  
<endif>  
}  
>>
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>);>>
$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;
    use Antlr\Antlr4\Runtime\Dfa\DFA;
    use Antlr\Antlr4\Runtime\Vocabulary;
    use Antlr\Antlr4\Runtime\MetaData;
    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();
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++) {
        $decisionToDFA[$i] = new DFA($atn->getDecisionState($i), $i);
    }

    self::$_atn = $atn;
    self::$_decisionToDFA = $decisionToDFA;
    self::$_sharedContextCache = new PredictionContextCache();
}

function vocabulary() : Vocabulary
{
    static $vocabulary;
    return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES, self::SYMBOLIC_NAMES);
}

function getGrammarFileName() : string
{
    return '<lexer.grammarFileName>';    
}

function getRuleNames() : array
{
    return self::RULE_NAMES;
}

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) ::= <<
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:
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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| image:: https://api.travis-ci.org/jonathaneunice/textwrap3.svg
   :target: http://travis-ci.org/jonathaneunice/textwrap3

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``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:

```python
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 `\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
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Text Processing
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
1.41.1 Available under license :

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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  envelope.hpp
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  multi_line_string.hpp
  multi_point.hpp
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      bound.hpp
      bubble_sort.hpp
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      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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1.56 reflections 0.9.12

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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
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* /opt/cola/permits/1195288354_1629742777.65/0/slf4j-api-1-8-0-beta4-sources-4-jar/org/slf4j/spi/MarkerFactoryBinder.java
* /opt/cola/permits/1195288354_1629742777.65/0/slf4j-api-1-8-0-beta4-sources-4-jar/org/slf4j/LoggerFactory.java
* /opt/cola/permits/1195288354_1629742777.65/0/slf4j-api-1-8-0-beta4-sources-4-jar/org/slf4j/spi/MarkerFactoryBinder.java
* /opt/cola/permits/1195288354_1629742777.65/0/slf4j-api-1-8-0-beta4-sources-4-jar/org/slf4j/MarkerIgnoringBase.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/IMarkerFactory.java
* /opt/cola/permits/1195288354_1629742777.65/0/slf4j-api-1-8-0-beta4-sources-4-jar/org/slf4j/MDC.java
* /opt/cola/permits/1195288354_1629742777.65/0/slf4j-api-1-8-0-beta4-sources-4-jar/org/slf4j/helpers/SubstituteLoggerFactory.java
1.58 log4j 2.14.0

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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//V}" ]; then
            eval $1="!{1/%V*}"!{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 [[ "$executable" == python* ]]; then
    if [[ "$executable" == python* ]]; then
      if __python_argcomplete_run "$executable" -m argcomplete._check_module "${COMP_WORDS[2]}"; then
        ARGCOMPLETE=3
      else
        return
      fi
    else
      return
    fi
  fi
  elif [[ "$executable" == python* ]]; then
    if __python_argcomplete_run "$executable" -m argcomplete._check_module "${COMP_WORDS[2]}"; then
      ARGCOMPLETE=3
    else
      return
    fi
  fi
  elif type -P "$executable" >/dev/null 2>&1; then
    local SCRIPT_NAME=$(type -P "$executable")
    if (type -t pyenv & & [[ "$SCRIPT_NAME" = $(pyenv root)/shims/* ]]; then
      local SCRIPT_NAME=$(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="$\argcomplete" \ 
        \_argcomplete\_suppress\_space=1 \ 
        __python\_argcomplete\_run "$\executableViewable" "$\\{\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
Author-email: kislyuk@gmail.com
License: Apache Software License
Project-URL: Documentation, https://kislyuk.github.io/argcomplete
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

    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/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 SBASH_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 rules apply: namely, the script name is passed directly to `complete`, meaning it is only 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`:

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 )"
eval `register-python-argcomplete --shell tsh my-awesome-script`

The `python-argcomplete-tsh` script provides completions for tsh.
The following is an example of the tsh completion syntax for
``my-awesome-script`` emitted by `register-python-argcomplete``::

    complete my-awesome-script 'p@*@`python-argcomplete-tsh 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`

Bugs
~~~
Please report bugs, issues, feature requests, etc. on `GitHub <https://github.com/kislyuk/argcomplete/issues>`_.

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   :target: https://travis-ci.org/kislyuk/argcomplete

.. image:: https://codecov.io/github/kislyuk/argcomplete/coverage.svg?branch=master
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Platform: MacOS X
Platform: Posix
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: Apache Software License
Classifier: Operating System :: MacOS :: MacOS X
Classifier: Operating System :: POSIX
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.5
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.

# Licensed under the Apache License. See https://github.com/kislyuk/argcomplete for more info.

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
1.70 express-rate-limit 5.2.3

1.70.1 Available under license:

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1.71 py3-pip 20.1.1

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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
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(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCA CertificateFile. #

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1.74 java-uuid-generator 4.0.1

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1.75 six 1.15.0

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1.79 ssh2-python 0.23.0
1.79.1 Available under license:

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Version 2.1, February 1999

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    analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of
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Otherwise, if the work is a derivative of the Library, you may
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Posted Date: December 19, 2018

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1.96 python-devel 2.7.5

1.96.1 Available under license:

A. HISTORY OF THE SOFTWARE

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
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the PSF.

All Python releases are Open Source (see http://www.opensource.org for
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releases have also been GPL-compatible; the table below summarizes
the various releases.

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1.101 python2-pip 8.1.2

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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.

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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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 */
/**
 * 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-
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 * 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.
 */
/**
 * 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-
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1.103 vavr 0.10.3
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1.104 protobuf 3.12.2

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* Added generation of field number constants.
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Will Pierce <willp@nuclei.com>
* Small patch improving performance of in Python serialization.
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* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
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* HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only
  once per string per serialization call.
* Clean up some Java warnings.
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* Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xIC compiler build issues
* 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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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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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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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.

```python
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',
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            'Programming Language :: Python',
            'Programming Language :: Python :: 2',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
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            'Programming Language :: Python :: 3.5',
```
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

![](https://github.com/lidatong/dataclasses-json/workflows/dataclasses-json/badge.svg)

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

```
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

```
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?

```
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**

```
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']`).

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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, i.e. `.load(...) / .dump(...)`.

**Encode into a single Python dictionary**

```python
```python
person = Person('lidatong')
person.to_dict() # {'name': 'lidatong'}
```

**Encode into a list of Python dictionaries**

```python
```python
people = [Person('lidatong')]
Person.schema().dump(people, many=True) # [{'name': 'lidatong'}]
```

**Decode a dictionary into a single dataclass instance**

```python
```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
```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
```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"}''
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).

```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"}''
```

```python
# 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',

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 import dataclass

@dataclass_json
@dataclass
class Tree():
    value: str
    left: Optional['Tree']
    right: Optional['Tree']
```
Avoid using
```
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

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')
        )
    )
```python
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
```python
```python
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')
        }})
)
```

```python
# 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"
        }
    ]
}"

assert boss.to_json(indent=4) == boss_json
```
```python
assert Boss.from_json(boss_json) == boss
```
1.128 htop 2.2.0

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Possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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Also add information on how to contact you by electronic and paper mail.

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) year 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 is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.138 node-fetch 2.6.1

1.138.1 Available under license:

The MIT License (MIT)

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1.139 zxcvbn 1.3.1

1.139.1 Available under license:

No license file was found, but licenses were detected in source scan.

you
i
to
that
it
me
what
this
god
still
wait
find
nothing
again
things
let's
doesn't
call
told
great
better
ever
night
away
believe
feel
everything
you've
fine
last
keep
does
put
around
stop
they're
i'd
guy
isn't
always
listen
wanted
guys
huh
those
big
lot
happened
thanks
won't
trying
kind
wrong
talking
guess
care
bad
mom
remember
getting
we'll
together
dad
leave
understand
wouldn't
actually
hear
baby
nice
father
else
stay
done
wasn't
course
might
mind
every
enough
try
hell
came
someone
you'll
whole
yourself
idea
ask
must
coming
looking
woman
room
knew
tonight
real
son
hope
went
hmm
happy
pretty
saw
pain
calling
somewhere
throw
straight
cold
fast
words
food
none
drive
feelings
they'll
marry
drop
cannot
dream
protect
twenty
surprise
sweetheart
poor
looked
mad
except
gun
y'know
dance
takes
appreciate
especially
situation
besides
pull
hasn't
worth
sheridan
amazing
expect
swear
piece
busy
happening
movie
we'd
catch
perhaps
step
tess
skin
fifteen
speech
orders
complicated
nowhere
escape
biggest
restaurant
grateful
usual
burn
address
someplace
screw
everywhere
regret
goodness
mistakes
details
responsibility
suspect
corner
hero
dumb
terrific
whoo
hole
memories
o'clock
teeth
ruined
bite
stenbeck
liar
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cards
desperate
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spoke
scare
marah
afford
settle
stayed
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buying
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lexie
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advantage
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roof
marrying
powerful
grown
grandmother
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must've
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exciting
familiar
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bout
harmony
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capable
practically
correct
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forgotten
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criminal
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funeral
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burning
sometime
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laughing
stood
affair
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depends
protecting
jury
brave
fingers
murdered
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picking
blah
stronger
handsome
unbelievable
anytime
shake
oakdale
wherever
pulling
facts
waited
ousy
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disappointed
weak
trusted
license
nothin
trash
understanding
slip
sounded
awake
friendship
stomach
weapon
threatened
mystery
vegas
understood
basically
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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
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
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spoken
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confession
embarrassing
bags
impression
gate
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
bound
charm
pulse
jumping
jokes
boom
occasion
silence
nonsense
frightened
slipped
dimera
blowing
relationships
kidnapping
spin
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
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
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
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
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dull
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deaf
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tore
reservations
pops
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wounds
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ironic
fathers
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anyhow
tearing
sends
rape
laughed
belly
dealer
cooperate
accomplish
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spotted
sorts
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ashes
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supposedly
loft
intentions
integrity
wished
towels
suspected
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suspicion
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smoked
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unacceptable
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pajamas
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cries
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smug
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intentionally
inspire
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devotion
despicable
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dash
comfy
breach
bark
aaaah
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swallowed
stove
screamed
scars
russians
pounding
poof
pipes
pawn
legit
invest
farewell
curtains
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
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
credibility
credentials
claws
chopped
bridal
bedside
babysitting
witty
unforgivable
underworld
tempt	
tabs
sophomore
selfless
secrecy
restless
okey
movin
metaphor
messes
meltdown
lector
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
mend
inspiring
impulsive
housekeeper
foam
fingernails
conditioning
baking
whine
thug
starved
sniffing
sedative
programmed
picket
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homosexual
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hips
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flipping
flea
flatter
dwell
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ants
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tossing
thanked
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souvenir
scratched
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outs
obstruction
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motivation
morgendorffer
kidnapper
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horns
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dumps
disappointing
crock
certifiable
claw
clamp
canned
cambias
bathtub
avanya
artery
weep
warmer
suspense
summoned
spiders
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pushy
postponed
ohhhh
noooo
mold
laughter
incompetent
hugging
groceries
drip
communicating
auntie
adios
wraps
wiser
willingly
weirdest
timmih
thinner
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swat
vibes
uninvited
unfaithful
teller
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scheming
ropes
rescuing
rave
postcard
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lotion
lads
kidneys
judgement
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glamorous
genetically
freud
discretion
delusions
crate
competent
bakery
argh
ahhhh
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tripping
torment
superhero
stirring
spinal
sorority
seminar
scenery
rabble
pneumonia
perks
override
ooooh
mija
manslaughter
mailed
shakes
salsa
retrieve
reassuring
pumps
neurotic
negotiating
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monitors
millionaire
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limp
incriminating
hatchet
gracias
gordie
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doubting
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chem
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cashmere
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amazingly
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tacos
stairwell
spirited
sewing
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punches
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motherfuckers
mingle
kynaston
knack
kinkle
impose
gullible
godmother
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friggin
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stupidest
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wyndemere
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tactic
stuffy
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morally
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homey
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darned
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banged
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unauthorized
stunts
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sixties
shush
shalt
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quilts
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painfully
paging
omelet
memorized
lawfully
jackets
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ingredient
grownup
glued
fulfilling
enchanted
delusion
daring
compelling
carton
bridesmaids
bribed
boiling
bathrooms
bandage
awaiting
assign
arrogance
antiques
ainsley
turkeys
trashing
stockings
stalked
stabilized
skates
sedated
robes
respecting
psyche
presumptuous
prejudice
paragraph
mocha
mints
mating
mantan
lorne
loads
listener
itinerary
hepatitis
heave
guesses
fading
examining
dumbest
dishwasher
deceive
cunning
cripple
convictions
confided
compulsive
compromising
burglary
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brainwashed
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affirmative
adrenaline
adamant
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stormed
spree
spilling
spectacle
soaking
shreds
sewers
severed
scarce
scamming
scalp
rewind
rehearsing
pretentious
potions
overrated
obstacle
nerds
meems
mcmurphy
maternity
maneuver
loathe
fertility
eLOping
ecstatic
ecstasy
divorcing
dignan
costing
clubhouse
clocks
candid
bursting
breather
braces
bending
arsonist
adored
absorb
valiant
uphold
unarmed
topolsky
thrilling
thigh
terminate
sustain
spaceship
snore
sneeze
smuggling
salty
quaint
patronize
patio
morbid
mamma
kettle
joyous
invincible
interpret
insecurities
impulses
illusions
holed
exploit
drivin
defenseless
dedicate
cradle
coupon
countless
conjure
cardboard
booking
backseat
accomplishment
wordsworth
wisely
valet
vaccine
urges
unnatural
unlucky
truths
traumatized
tasting
swears
strawberries
steaks
stats
skank
seducing
secretive
scumbag
screwdriver
schedules
rooting
rightfully
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qualifies
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aplastic
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twain
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stutter
stewardess
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ecktie
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chews
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chaste
cellblock
caving
catered
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hippy
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brasier
brassiere
brainwash
brainiac
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bonbon
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bipartisan
bimbos
bigamist
biebe
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betrayals
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bellerophon
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bassinet
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barzini
barnyard
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shards
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mosey
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harem
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elster
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chessler
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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
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bigot
bestest
belted
belligerent
beggin
befall
beeswax
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beaming
barricade
baggoli
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artsy
artful
aroun
armpits
arming
undue
uncooperative
uncontrollably
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twitchy
tumbler
truest
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squeaks
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nubile
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mushu
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grasped
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bureaucrats
buckled
bubbe
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bravely
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beggar
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deplorable
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cuddled
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cranium
cramming
cowering
couric
cordesh
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chimpanzee
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censure
catapult
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calrissian
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busybody
bussing
bunion
bulimic
budging
brung
browbeat
brokenhearted
wiggling
wierd
whistlesley
whipper
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whatsamatter
whatchamacallit
whassup
whad'ya
weakling
warfarin
waponis
wampum
wadn't
vorash
vizzini
virtucon
viridiana
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ventilated
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varcon
vandalized
vamos
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urinal
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udall
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pestering
periscope
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patronized
paramour
paralyze
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paels
paella
paducci
owatta
overdone
overcrowded
overcompensating
ostracized
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operandi
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okayed
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nuttier
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nunheim
noxious
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notepad
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nibblet
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fleece
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fenceline
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eyesore
expedient
ewwww
eviscerated
erogenous
epidural
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embrassed
embrass
embalming
elude
elspeth
electrocute
eigth
eggshell
echinacea
eases
earpiece
earlobe
dumpsters
dumbshit
dumbasses
duloc
duisberg
donned
drinkers
dressy
dorma
doily
divvy
diverting
dissuade
disrespecting
displace
disorganized
disgustingly
discord
disapproving
diligence
didja
diced
devouring
detach
destructing
desolate
demerits
delude
delirium
degrade
deevak
deemesa
deductions
deduce
debriefed
deadbeats
dateline
darndest
darnnable
dalliance
daiquiri
d'agosta
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paulsson
patty cake
patrolmen
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parachuting
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homebody
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hilarity
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hermaphrodite
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hellhound
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heartbeats
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headstart
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hawkland
contrite
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confound
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conditioners
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comers
combustible
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coldness
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codicil
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cerebrum
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cemetery
caterwauling
cataclysmic
casitas
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carting
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carolling
carolers
carnie
cardiogram
carbuncle
capulets
canines
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caldecott
calamitous
cadillacs
cachet
cabeza
cabdriver
buzzards
butai
businesswomen
bungled
bumpkins
bummers
bulldoze
buffybot
bubut
bubbles
brrrrr
brownout
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bronzing
bronchial
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bernece
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benchley
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whom
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initially
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earlier
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artists
rural
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tank
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coronation
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transfers
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pioneers
unesco
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abundant
tunnels
syndicated
inventor
accreditation
janeiro
exeter
ceremonial
omaha
cadet
predators
resided
prose
slavic
precision
abbot
deity
engaging
Cambodia
exceed
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archipelago
traits
soils
o'connor
vowel
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facto
angola
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logistics
circuits
emergence
kuwait
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emeritus
outcomes
submission
promotes
barack
negotiated
loaned
stripped
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treatments
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participant
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decommissioned
cameo
remarked
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fuselage
mound
undergo
quarry
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occupies
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divisional outreach representations passages undergoing cartridge testified exceeded impacts limiting railroads defeats regain rendering humid retreated reliability governorate antwerp infamous implied packaging lahore trades billed extinction ecole rejoined recognizes projection qualifications stripes forts socially lexington accurately sexuality westward wikipedia pilgrimage abolition choral stuttgart nests expressing strikeouts assessed monasteries
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urdu
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peruvian
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baba
nassau
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extraction
popularly
markings
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contests
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frigate
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outline
regency
chiefly
patrols
secretariat
cliffs
residency
privy
armament
australians
dorset
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genetics
scholarships
fundraising
flats
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documentaries
updates
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blockade
guerrilla
songwriting
administrators
intake
drought
implementing
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refusal
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meditation
announcing
exported
ballots
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basel
arches
flour
subordinate
confrontation
gravel
simplified
berkshire
patriotic
tuition
employing
servers
castile
posting
combinations
discharged
miniature
mutations
constellation
incarnation
ideals
necessity
granting
ancestral
crowds
pioneered
foremost
adopting
solicitor
outright
bihar
reissued
farmland
dissertation
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baton
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kyoto
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rails
histories
linebacker
kilkenny
accelerated
dispersed
handicap
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cites
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bravery
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validity
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prevents
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dartmouth
mongol
hostilities
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veterinary
lenses
texture
prompting
overthrow
excavation
islanders
masovian
battleship
biographer
replay
degradation
departing
luftwaffe
fleeing
oversight
immigrated
serbs
fishermen
strengthening
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italians
denotes
radial
escorted
motif
wiltshire
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protocols
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entirety
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friction
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correlation
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initiation
malaria
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consonants
waived
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transformers
carriages
bombings
revolves
ceded
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celestial
exemption
colchester
maltese
oceanic
ligue
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luton
caretaker
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viaduct
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swimmers
aperture
churchyard
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totals
darts
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fuels
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songwriters
junta
trenches
mounds
proportions
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apostle
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farmhouse
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disrupted
playback
mixes
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relevance
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maize
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kilometre
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sequels
surnames
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stainless
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minas
forerunner
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spaced
integers
causeway
pines
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organise
ptolemy
accessibility
virtues
lesions
iroquois
qur’an
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confederates
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stresses
tariff
koreans
intercity
republics
quintet
baroness
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claremont
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coinage
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bouts
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cultivars
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fermentation
parana
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bhutto
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batsmen
brabant
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echoed
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carniola
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gminas
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reformers
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accelerator
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genechiidae
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darreh
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veneto
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dumfries
metis
deter
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tubing
afflicted
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rupture
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transept
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stevenage
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| undocumented | niigata | thrones | preamble | stave | interment | liiga | ataturk | aphrodite | groupe | indentured | habsburgs | caption | utilitarian | ozark | slovenes | reproductions | plasticity | serbo | dulwich | castel | barbuda | salons | feuding | lenape | wikileaks | swamy | breuning | shedding | afIELD | superficially | operationally | lamented | okanagan | hamadan | accolade | furthering | adolphus | fyodor | abridged | cartoonists | pinkish | suharto | cytochrome | methylation | debit | colspan=9 | refine |
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worsen
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reentry
narvik
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knockouts
bofors
gniezno
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thirdly
domestication
photojournalist
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'black
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dermatology
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babur
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schoolboys
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villers
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vastra
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hexham
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leutnant
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ulsan
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pentateuch
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