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image/io.micronaut.cache/micronaut-cache-core/native-image.properties

```

1.2 junit-platform-junit-platform-engine 1.8.2

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1.3 micronaut-kubernetes 3.4.0

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```
* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-
jar/io/micronaut/kubernetes/client/PodNameResolver.java
* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-
jar/io/micronaut/kubernetes/client/NamespaceResolver.java
* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-
jar/io/micronaut/kubernetes/client/Apis.java
* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-
jar/io/micronaut/kubernetes/client/OkHttpClientLogging.java
* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-
jar/io/micronaut/kubernetes/client/ApisAutomaticFeatureMetadata.java
* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-
jar/io/micronaut/kubernetes/client/ApiClientConfiguration.java
* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-
jar/io/micronaut/kubernetes/client/DefaultNamespaceResolver.java
* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-
jar/io/micronaut/kubernetes/client/ApiClientFactory.java
* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-
jar/io/micronaut/kubernetes/client/DiscoveryFactory.java
* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-
jar/io/micronaut/kubernetes/client/graalvm/KubernetesClientFeature.java
* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-
jar/io/micronaut/kubernetes/client/ModelMapper.java
* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-
jar/io/micronaut/kubernetes/client/DefaultPodNameResolver.java
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```
* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-  
jar/io/micronaut/kubernetes/client/DiscoveryCache.java
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1.4 apache-httpcomponents-core 4.4.13

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io.micronaut.coherence.config.MicronautSystemPropertyResolver

Found in path(s):

```
* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/META-INF/services/com.tangosol.coherence.config.SystemPropertyResolver
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* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/config/CoherenceDefaultProperties.java
* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/namespace/BeanBuilder.java
* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/messaging/package-info.java
* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/CoherenceContext.java
* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/grpc/GrpcServerBuilder.java
* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/SessionType.java
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* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/JsonSerializerFactory.java
* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-

jar/io/micronaut/coherence/grpc/GrpcServerConfigurer.java
* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/grpc/package-info.java
* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/SerializerFactories.java
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```

io.micronaut.coherence.grpc.GrpcServerBuilder\$GrpcServerBuilderProviderBean

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Found in path(s):

- * /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/FilterFactories.java
- * /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/ExtractorFactory.java
- * /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Updated.java
- * /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/WhereFilter.java
- * /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/event/EventArgumentBinder.java
- * /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/NamedTopicFactories.java
- * /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Activated.java
- * /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/MapEventTransformerBinding.java
- * /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Committed.java
- * /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/CoherenceEventListener.java
- * /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/messaging/binders/ElementBinder.java
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- * /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Utils.java
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- * /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/ChainedExtractor.java
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```

io.micronaut.coherence.grpc.GrpcServerConfigurer\$GrpcServerConfigurationBean

```
Found in path(s):
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INF/services/com.oracle.coherence.grpc.proxy.GrpcServerConfiguration
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io.micronaut.coherence.InjectorImpl

Found in path(s):

* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/META-INF/services/com.oracle.coherence.inject.Injector

1.6 junit-jupiter-aggregator 5.8.2

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1.7 byte-buddy-agent 1.12.7

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1.8 micronaut 3.2.7

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1.10 testcontainers-junit-jupiter-extension

1.16.3

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1.11 bean-validation-api 2.0.2

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1.12 micronaut-rxjava-3 2.2.1

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Found in path(s):

```
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-  
jar/io/micronaut/rxjava3/instrument/RxInstrumentedComponent.java  
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-  
jar/io/micronaut/rxjava3/instrument/RxInstrumentedCompletableObserver.java  
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-  
jar/io/micronaut/rxjava3/converters/RxJava2ToRxJava3ConveterRegistrar.java  
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
```

```

jar/io/micronaut/rxjava3/instrument/RxInstrumentedParallelFlowable.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedSingleObserver.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedConnectableFlowable.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedObserver.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedObservable.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/converters/RxJava3ConverterRegistrar.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedCompletable.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedMaybeObserver.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedConnectableObservable.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxJava3Instrumentation.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedWrappers.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedFlowableSubscriber.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedFlowable.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedSubscriber.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedMaybe.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedSingle.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumenterFactory.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/package-info.java

```

1.13 j2objc-annotations 1.3

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* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-jar/com/google/j2objc/annotations/Property.java
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-jar/com/google/j2objc/annotations/LoopTranslation.java
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-jar/com/google/j2objc/annotations/ObjectiveCName.java
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-jar/com/google/j2objc/annotations/ReflectionSupport.java
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-jar/com/google/j2objc/annotations/RetainedLocalRef.java
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-jar/com/google/j2objc/annotations/J2ObjCIncompatible.java

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* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-jar/com/google/j2objc/annotations/Weak.java
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-jar/com/google/j2objc/annotations/AutoreleasePool.java
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-jar/com/google/j2objc/annotations/WeakOuter.java

1.14 apache-log4j-2-bom 2.17.1

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1.15 jakarta-dependency-injection 2.0.1

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1.16 azure-java-sdk-bom-(bill-of-materials)

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1.17 slf4j-api-module 1.7.32

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- * /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/MDC.java
- * /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/Logger.java
- * /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/impl/StaticMDCBinder.java
- * /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/spi/MarkerFactoryBinder.java
- * /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/BasicMarkerFactory.java
- * /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/SubstituteLogger.java
- * /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/LoggerFactory.java
- * /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/BasicMDCAdapter.java
- * /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/MarkerFactory.java
- * /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/SubstituteLoggerFactory.java
- * /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/Marker.java
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- * /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/NOPMDCAdapter.java
- * /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/NOPLoggerFactory.java
- * /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/impl/StaticMarkerBinder.java
- * /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/impl/StaticLoggerBinder.java
- * /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/spi/LoggerFactoryBinder.java
- * /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/IMarkerFactory.java
- * /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/ILoggerFactory.java
- * /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/Util.java
- * /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/MessageFormatter.java
- * /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/spi/MDCAdapter.java
- * /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/NamedLoggerBase.java
- * /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/FormattingTuple.java

1.18 micronaut-gcp 4.1.1

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```

Found in path(s):

```
* /opt/cola/permits/1331473977_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-
jar/io/micronaut/gcp/GoogleCloudConfiguration.java
* /opt/cola/permits/1331473977_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-
jar/io/micronaut/discovery/cloud/gcp/GoogleComputeMetadataKeys.java
* /opt/cola/permits/1331473977_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-
jar/io/micronaut/gcp/credentials/GoogleCredentialsConfiguration.java
* /opt/cola/permits/1331473977_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-
jar/io/micronaut/discovery/cloud/gcp/GoogleComputeInstanceMetadataResolver.java
* /opt/cola/permits/1331473977_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-
jar/io/micronaut/gcp/UserAgentHeaderProvider.java
* /opt/cola/permits/1331473977_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-
jar/io/micronaut/gcp/condition/RequiresProjectIdCondition.java
* /opt/cola/permits/1331473977_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-
jar/io/micronaut/discovery/cloud/gcp/package-info.java
* /opt/cola/permits/1331473977_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-
jar/io/micronaut/gcp/Modules.java
* /opt/cola/permits/1331473977_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-
jar/io/micronaut/discovery/cloud/gcp/GoogleComputeNetworkInterface.java
* /opt/cola/permits/1331473977_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-
jar/io/micronaut/discovery/cloud/gcp/GoogleComputeInstanceMetadata.java
* /opt/cola/permits/1331473977_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-
jar/io/micronaut/discovery/cloud/gcp/GoogleComputeMetadataConfiguration.java
* /opt/cola/permits/1331473977_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-
jar/io/micronaut/gcp/credentials/GoogleCredentialsFactory.java
* /opt/cola/permits/1331473977_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-
```

1.19 commons-logging 1.2

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1.20 checkstyle 8.37

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1.21 snake-yaml 1.30

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1.22 error_prone_annotations 2.7.1

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```
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jar/com/google/errorprone/annotations/NoAllocation.java
* /opt/cola/permits/1288519880_1647351834.56/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/concurrent/LockMethod.java
* /opt/cola/permits/1288519880_1647351834.56/0/error-prone-annotations-2-7-1-sources-
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* /opt/cola/permits/1288519880_1647351834.56/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
* /opt/cola/permits/1288519880_1647351834.56/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/DoNotCall.java
* /opt/cola/permits/1288519880_1647351834.56/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
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* /opt/cola/permits/1288519880_1647351834.56/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/cola/permits/1288519880_1647351834.56/0/error-prone-annotations-2-7-1-sources-

jar/com/google/errorprone/annotations/MustBeClosed.java

* /opt/cola/permits/1288519880_1647351834.56/0/error-prone-annotations-2-7-1-sources-

jar/com/google/errorprone/annotations/DoNotMock.java

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jar/com/google/errorprone/annotations/Var.java

* /opt/cola/permits/1288519880_1647351834.56/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/concurrent/LazyInit.java

* /opt/cola/permits/1288519880_1647351834.56/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/IncompatibleModifiers.java

* /opt/cola/permits/1288519880_1647351834.56/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/RequiredModifiers.java

* /opt/cola/permits/1288519880_1647351834.56/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/Immutable.java

* /opt/cola/permits/1288519880_1647351834.56/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/CompileTimeConstant.java

* /opt/cola/permits/1288519880_1647351834.56/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/SuppressPackageLocation.java

* /opt/cola/permits/1288519880_1647351834.56/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/ForOverride.java

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Found in path(s):

* /opt/cola/permits/1288519880_1647351834.56/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/InlineMeValidationDisabled.java
* /opt/cola/permits/1288519880_1647351834.56/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/InlineMe.java

1.23 netty-codec-redis 4.1.73.Final

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* /opt/cola/permits/1290493630_1647560253.57/0/netty-codec-redis-4-1-73-final-sources-jar/io/netty/handler/codec/redis/InlineCommandRedisMessage.java

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* /opt/cola/permits/1290493630_1647560253.57/0/netty-codec-redis-4-1-73-final-sources-jar/META-INF/maven/io.netty/netty-codec-redis/pom.xml

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* /opt/cola/permits/1290493630_1647560253.57/0/netty-codec-redis-4-1-73-final-sources-jar/io/netty/handler/codec/redis/RedisArrayAggregator.java

* /opt/cola/permits/1290493630_1647560253.57/0/netty-codec-redis-4-1-73-final-sources-jar/io/netty/handler/codec/redis/RedisEncoder.java

* /opt/cola/permits/1290493630_1647560253.57/0/netty-codec-redis-4-1-73-final-sources-jar/io/netty/handler/codec/redis/LastBulkStringRedisContent.java

* /opt/cola/permits/1290493630_1647560253.57/0/netty-codec-redis-4-1-73-final-sources-jar/io/netty/handler/codec/redis/IntegerRedisMessage.java

* /opt/cola/permits/1290493630_1647560253.57/0/netty-codec-redis-4-1-73-final-sources-jar/io/netty/handler/codec/redis/FixedRedisMessagePool.java

* /opt/cola/permits/1290493630_1647560253.57/0/netty-codec-redis-4-1-73-final-sources-jar/io/netty/handler/codec/redis/AbstractStringRedisMessage.java

* /opt/cola/permits/1290493630_1647560253.57/0/netty-codec-redis-4-1-73-final-sources-jar/io/netty/handler/codec/redis/RedisBulkStringAggregator.java

* /opt/cola/permits/1290493630_1647560253.57/0/netty-codec-redis-4-1-73-final-sources-jar/io/netty/handler/codec/redis/DefaultBulkStringRedisContent.java
* /opt/cola/permits/1290493630_1647560253.57/0/netty-codec-redis-4-1-73-final-sources-jar/io/netty/handler/codec/redis/DefaultLastBulkStringRedisContent.java
* /opt/cola/permits/1290493630_1647560253.57/0/netty-codec-redis-4-1-73-final-sources-jar/io/netty/handler/codec/redis/RedisDecoder.java
* /opt/cola/permits/1290493630_1647560253.57/0/netty-codec-redis-4-1-73-final-sources-jar/io/netty/handler/codec/redis/BulkStringRedisContent.java
* /opt/cola/permits/1290493630_1647560253.57/0/netty-codec-redis-4-1-73-final-sources-jar/io/netty/handler/codec/redis/RedisCodecException.java
* /opt/cola/permits/1290493630_1647560253.57/0/netty-codec-redis-4-1-73-final-sources-jar/io/netty/handler/codec/redis/ArrayRedisMessage.java
* /opt/cola/permits/1290493630_1647560253.57/0/netty-codec-redis-4-1-73-final-sources-jar/io/netty/handler/codec/redis/RedisMessagePool.java
* /opt/cola/permits/1290493630_1647560253.57/0/netty-codec-redis-4-1-73-final-sources-jar/io/netty/handler/codec/redis/ArrayHeaderRedisMessage.java
* /opt/cola/permits/1290493630_1647560253.57/0/netty-codec-redis-4-1-73-final-sources-jar/io/netty/handler/codec/redis/RedisCodecUtil.java
* /opt/cola/permits/1290493630_1647560253.57/0/netty-codec-redis-4-1-73-final-sources-jar/io/netty/handler/codec/redis/RedisMessageType.java
* /opt/cola/permits/1290493630_1647560253.57/0/netty-codec-redis-4-1-73-final-sources-jar/io/netty/handler/codec/redis/SimpleStringRedisMessage.java
* /opt/cola/permits/1290493630_1647560253.57/0/netty-codec-redis-4-1-73-final-sources-jar/io/netty/handler/codec/redis/package-info.java
* /opt/cola/permits/1290493630_1647560253.57/0/netty-codec-redis-4-1-73-final-sources-jar/io/netty/handler/codec/redis/ErrorMessage.java
* /opt/cola/permits/1290493630_1647560253.57/0/netty-codec-redis-4-1-73-final-sources-jar/io/netty/handler/codec/redis/RedisMessage.java
* /opt/cola/permits/1290493630_1647560253.57/0/netty-codec-redis-4-1-73-final-sources-jar/io/netty/handler/codec/redis/FullBulkStringRedisMessage.java
* /opt/cola/permits/1290493630_1647560253.57/0/netty-codec-redis-4-1-73-final-sources-jar/io/netty/handler/codec/redis/RedisConstants.java
* /opt/cola/permits/1290493630_1647560253.57/0/netty-codec-redis-4-1-73-final-sources-jar/io/netty/handler/codec/redis/BulkStringHeaderRedisMessage.java

1.24 asm-tree 9.1

1.24.1 Available under license :

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Manifest-Version: 1.0

Bundle-DocURL: <http://asm.ow2.org>

Bundle-License: BSD-3-Clause;link=<https://asm.ow2.io/LICENSE.txt>

Bundle-ManifestVersion: 2

Bundle-Name: org.objectweb.asm.tree

Bundle-RequiredExecutionEnvironment: J2SE-1.5

Bundle-SymbolicName: org.objectweb.asm.tree

Bundle-Version: 9.1.0
Export-Package: org.objectweb.asm.tree;version="9.1";uses:="org.objectweb.asm"
Implementation-Title: Tree API of ASM, a very small and fast Java byte code manipulation framework
Implementation-Version: 9.1
Import-Package: org.objectweb.asm;version="[9.1,10)"
Module-Requires: org.objectweb.asm;transitive=true

Found in path(s):

* /opt/cola/permits/1183890441_1627493647.83/0/asm-tree-9-1-jar/META-INF/MANIFEST.MF

1.25 mac-os 4.1.73.Final

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* /opt/cola/permits/1290493692_1654817551.0751843/0/netty-resolver-dns-classes-macos-4-1-73-final-sources-jar/io/netty/resolver/dns/macos/package-info.java
* /opt/cola/permits/1290493692_1654817551.0751843/0/netty-resolver-dns-classes-macos-4-1-73-final-sources-jar/io/netty/resolver/dns/macos/MacOSDnsServerAddressStreamProvider.java
* /opt/cola/permits/1290493692_1654817551.0751843/0/netty-resolver-dns-classes-macos-4-1-73-final-sources-jar/io/netty/resolver/dns/macos/DnsResolver.java

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* /opt/cola/permits/1290493692_1654817551.0751843/0/netty-resolver-dns-classes-macos-4-1-73-final-sources-jar/META-INF/maven/io.netty/netty-resolver-dns-classes-macos/pom.xml

1.26 kotlinox-coroutines-bom 1.5.1

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1.27 junit-jupiter-junit-jupiter-engine 5.8.2

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1.28 micronaut-oracle-cloud 2.1.1

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1.29 reactive-relational-database-connectivity-bill-of-materials Arabba-SR11

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1.30 byte-buddy 1.12.7

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1.31 mockito 4.3.1

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1.32 reactor-core 3.4.15

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reactor.core.scheduler.ReactorBlockHoundIntegration
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1.33 opentracing-api 0.33.0

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-->

Found in path(s):

* /opt/cola/permits/1340188637_1654650533.6628933/0/opentracing-api-0-33-0-sources-3-jar/META-INF/maven/io.opentracing/opentracing-api/pom.xml

1.34 launchdarkly-sdk-for-java 5.7.1

1.34.1 Available under license :

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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java

contains test data from <http://aspell.net/test/orig/batch0.tab>.

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The content of package org.apache.commons.codec.language.bm has been translated from the original php source code available at <http://stevemorse.org/phoneticinfo.htm> with permission from the original authors.

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1.35 antlr 4.9.2

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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"

Found in path(s):

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/templates/messages/formats/antlr.stg

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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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```

```

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```

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*/

```
package org.antlr.v4.parse;
import org.antlr.v4.Tool;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
}

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

public GrammarTreeVisitor() { this(null); }

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



```

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

```

```

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

```

```

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

```

```

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

```

```

public void discoverRules(GrammarAST rules) { }
public void finishRules(GrammarAST rule) { }
public void discoverRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
    ActionAST arg, ActionAST returns, GrammarAST thrws,
    GrammarAST options, ActionAST locals,
    List<GrammarAST> actions,
    GrammarAST block) { }
public void finishRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void discoverLexerRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
    GrammarAST block) { }

```

```

public void finishLexerRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void ruleCatch(GrammarAST arg, ActionAST action) { }
public void finallyAction(ActionAST action) { }
public void discoverOuterAlt(AltAST alt) { }
public void finishOuterAlt(AltAST alt) { }
public void discoverAlt(AltAST alt) { }
public void finishAlt(AltAST alt) { }

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

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

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

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

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

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

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

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

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

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

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

```

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

```
@Override
```

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

```
@Override
```

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

```

}
}

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

```

prequelConstructs returns [GrammarAST firstOne=null]

```

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

```

```

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

```

```

optionsSpec
@init {
enterOptionsSpec($start);
}

```

```

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

```

```

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

```

optionValue returns [String v]

```

@init {
    enterOptionValue($start);
    $v = $start.token.getText();
}
@after {
    exitOptionValue($start);
}
: ID
| STRING_LITERAL
| INT
;

```

delegateGrammars

```

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

```

delegateGrammar

```

@init {

```

```

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

```

```

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

```

```

tokenSpec
@init {
enterTokenSpec($start);
}
@after {
exitTokenSpec($start);
}
: ID {defineToken($ID);}
;

```

```

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

```

```

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

```



```

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

```

```

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

```

```

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

```

```

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

```

```

    }
  )
;

rule
@init {
  enterRule($start);
  List<GrammarAST> mods = new ArrayList<GrammarAST>();
  List<GrammarAST> actions = new ArrayList<GrammarAST>(); // track roots
  currentOuterAltNumber=0;
}
@after {
  exitRule($start);
}
: ^( RULE RULE_REF {currentRuleName=$RULE_REF.text; currentRuleAST=$RULE;}
  (^RULEMODIFIERS (m=ruleModifier{mods.add($m.start);})+)?
  ARG_ACTION?
  ret=ruleReturns?
  thr=throwsSpec?
  loc=locals?
  ( opts=optionsSpec
  | a=ruleAction {actions.add($a.start);}
  )*
  {discoverRule((RuleAST)$RULE, $RULE_REF, mods, (ActionAST)$ARG_ACTION,
    $ret.start!=null?(ActionAST)$ret.start.getChild(0):null,
    $thr.start, $opts.start,
    $loc.start!=null?(ActionAST)$loc.start.getChild(0):null,
    actions, (GrammarAST)input.LT(1));}
  ruleBlock exceptionGroup
  {finishRule((RuleAST)$RULE, $RULE_REF, $ruleBlock.start); currentRuleName=null; currentRuleAST=null;}
  )
;

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

exceptionHandler
@init {
  enterExceptionHandler($start);
}
@after {

```

```
exitExceptionHandler($start);
}
: ^(CATCH ARG_ACTION ACTION) {ruleCatch($ARG_ACTION, (ActionAST)$ACTION);}
;
```

finallyClause

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

locals

```
@init {
  enterLocals($start);
}
@after {
  exitLocals($start);
}
: ^(LOCALS ARG_ACTION)
;
```

ruleReturns

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

throwsSpec

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

ruleAction

```
@init {
  enterRuleAction($start);
}
```

```

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

```

```

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

```

```

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

```

```

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

```

```
    }  
    outerAlternative  
  )+  
)  
;
```

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

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

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

```
lexerElements  
@init {  
  enterLexerElements($start);  
}  
@after {  
  exitLexerElements($start);  
}
```

```

}
: ^(ALT lexerElement+)
;

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

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

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

lexerAtom
@init {
enterLexerAtom($start);
}
@after {
exitLexerAtom($start);
}

```

```

: terminal
| ^(NOT blockSet)
| blockSet
| ^(WILDCARD elementOptions)
| WILDCARD
| LEXER_CHAR_SET
| range
| ruleref
;

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

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

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

```

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

```
element
@init {
  enterElement($start);
}
@after {
  exitElement($start);
}
: labeledElement
| atom
| subrule
| ACTION {actionInAlt((ActionAST)$ACTION);}
| SEMPRED {sempredInAlt((PredAST)$SEMPRED);}
| ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
| ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
| range
| ^(NOT blockSet)
| ^(NOT block)
;
```

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

```
labeledElement
@init {
  enterLabeledElement($start);
}
@after {
```



```
exitLabeledElement($start);
}
: ^((ASSIGN|PLUS_ASSIGN) ID element) {label($start, $ID, $element.start);}
;
```

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

```
lexerSubrule
@init {
  enterLexerSubrule($start);
}
@after {
  exitLexerSubrule($start);
}
: ^(blockSuffix lexerBlock)
| lexerBlock
;
```

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

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

```

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

```

```

blockSet
@init {
  enterBlockSet($start);
}
@after {
  exitBlockSet($start);
}
: ^(SET setElement+)
;

```

```

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

```

```

block
@init {

```

```

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

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

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

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

elementOptions
@init {

```

```

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

```

```

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

```

Found in path(s):

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/parse/GrammarTreeVisitor.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.
```

```
*/
```

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

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

```
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
```

```
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
```

```
# encoding: utf-8
```

```
from antlr4 import *
```

```
from io import StringIO
```

```
import sys
```

```
if sys.version_info[1] > 5:
```

```
    from typing import TextIO
```

```
else:
```

```
    from typing.io import TextIO
```

```
<namedActions.header>
```

```
<parser>
```

```
>>
```

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

```
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
```

```
from antlr4 import *
```

```
if __name__ is not None and "." in __name__:
```

```
    from <file.parserName> import <file.parserName>
```

```

else:
    from <file.parserName> import <file.parserName>
<header>

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

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

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

}; separator="\n">

del <file.parserName>
>>

```

```

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if __name__ is not None and "." in __name__:
    from .<file.parserName> import <file.parserName>
else:
    from <file.parserName> import <file.parserName>
<header>

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

class <file.grammarName>Visitor(ParseTreeVisitor):

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

}; separator="\n">

del <file.parserName>
>>

```

```

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

```

>>

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

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

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

```
    grammarFileName = "<parser.grammarFileName>"
```

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

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

```
    sharedContextCache = PredictionContextCache()
```

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

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

```
    <if(parser.rules)>
```

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

```
    <endif>
```

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

```
    EOF = <TokenLabelType().EOF
```

```
    <if(parser.tokens)>
```

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

```
    <endif>
```

```
    <parser:(ctor)()>
```

```
    <namedActions.members>
```

```
    <funcs; separator="\n">
```

```

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

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

```

```
>>
```

```

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx:RuleContext, ruleIndex:int, actionIndex:int):
  if self._actions is None:
    actions = dict()
<recog.actionFuncs.values:{ f |
  actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
  self._actions = actions
  action = self._actions.get(ruleIndex, None)
  if action is not None:
    action(localctx, actionIndex)
  else:
    raise Exception("No registered action for:" + str(ruleIndex))

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

<endif>

```

```

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

```



```

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

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

>>

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

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

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

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

```

```

<ruleCtx>

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

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

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

>>

```

```

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

```

```

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

def <currentRule.name>(self, _p:int=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
    _parentctx = self._ctx
    _parentState = self.state
    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.name>}>)
    _prevctx = localctx
    _startState = <currentRule.startState>
    self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
    <namedActions.init>
    <locals; separator="\n">
    try:
        <code>

```

```

    <postamble; separator="\n">
    <namedActions.after>
except RecognitionException as re:
    localctx.exception = re
    self._errHandler.reportError(self, re)
    self._errHandler.recover(self, re)
finally:
    <finallyAction>
    self.unrollRecursionContexts(_parentctx)
return localctx

>>

```

```

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

```

```

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

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
    <alt>
    pass}; separator="\n1">
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="\n1">
else:

```

```

    pass
  >>

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

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

```

```

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

>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
    <alts; separator="\n">
    self.state = <choice.stateNumber> <! loopback/exit decision !>
    self._errHandler.sync(self)
    <iteration>
    if not (<loopExpr>):
        break

>>

```

```
// LL(*) stuff
```

```

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

```

```

<alts:{ alt |
if la_ == <i>:
  <alt>
  pass
}; separator="\nel">

```

```
>>
```

```

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

```

```
>>
```

```

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

```

```
>>
```

```

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

```

>>

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

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

TestSetInline(s) ::= <<

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

>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test

testShiftInRange(shiftAmount) ::= <<

((<shiftAmount>) & ~0x3f) == 0

>>

// produces smaller bytecode only when bits.ttypes contains more than two items

bitsetBitfieldComparison(s, bits) ::= <%

(<testShiftInRange({ <offsetShiftVar(s.varName, bits.shift)> })> and ((1 <|< <offsetShiftVar(s.varName, bits.shift)>) & (<bits.ttypes:{ ttype | (1 <|< <offsetShiftType(ttype, bits.shift)>)}); separator=" | ">) != 0)
%>

isZero ::= [

"0":true,

default:false

]

offsetShiftVar(shiftAmount, offset) ::= <%

<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>

%>

offsetShiftType(shiftAmount, offset) ::= <%

<if(!isZero.(offset))><parser.name>.<shiftAmount> - <offset><else><parser.name>.<shiftAmount><endif>

%>

// produces more efficient bytecode when bits.ttypes contains at most two items

bitsetInlineComparison(s, bits) ::= <%

<bits.ttypes:{ ttype | <s.varName>==<parser.name>.<ttype>} ; separator=" or ">

%>

cases(ttypes) ::= <<

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

>>

InvokeRule(r, argExprsChunks) ::= <<

self.state = <r.stateNumber>

<if(r.labels)><r.labels:{ l | <labelref(l)> =

```

nks>)
>>

MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{1 | <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:{1 | <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:{1 | <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:{1 | <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>"
RetValRef(a) ::= "localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

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

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

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

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

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

```



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

```
TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>"
```

```
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType()> type"
```

```
TokenListDecl(t) ::= "self.<t.name> = list() # of <TokenLabelType()>s"
```

```
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
```

```
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"
```

```
ContextTokenGetterDecl(t) ::= <<
```

```
def <t.name>(self):
```

```
    return self.getToken(<parser.name>.<t.name>, 0)
```

```
>>
```

```
// should never be called
```

```
ContextTokenListGetterDecl(t) ::= <<
```

```
def <t.name>_list(self):
```

```
    return self.getTokens(<parser.name>.<t.name>)
```

```
>>
```

```
ContextTokenListIndexedGetterDecl(t) ::= <<
```

```
def <t.name>(self, i:int=None):
```

```
    if i is None:
```

```
        return self.getTokens(<parser.name>.<t.name>)
```

```
    else:
```

```
        return self.getToken(<parser.name>.<t.name>, i)
```

```
>>
```

```
ContextRuleGetterDecl(r) ::= <<
```

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

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

```
>>
```

```
// should never be called
```

```
ContextRuleListGetterDecl(r) ::= <<
```

```
def <r.name>_list(self):
```

```
    return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
```

```
>>
```

```
ContextRuleListIndexedGetterDecl(r) ::= <<
```

```
def <r.name>(self, i:int=None):
```

```
    if i is None:
```

```
        return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
```

```
    else:
```

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

>>

```
LexerRuleContext() ::= "RuleContext"
```

```
/** The rule context name is the rule followed by a suffix; e.g.,  
 * r becomes rContext.  
 */
```

```
RuleContextNameSuffix() ::= "Context"
```

```
ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
```

```
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
```

```
ImplicitSetLabel(id) ::= "_tset<id>"
```

```
ListLabelName(label) ::= "<label>"
```

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

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

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

```
  def __init__(self, parser, parent:ParserRuleContext=None, invokingState:int=-1<struct.ctorAttrs:{ a | ,  
<a.name><if(a.type)>:<a.type><endif>=None }>):
```

```
    super().__init__(parent, invokingState)
```

```
    self.parser = parser
```

```
    <attrs:{ a | <a> }; separator="\n">
```

```
    <struct.ctorAttrs:{ a | self.<a.name> = <a.name> }; separator="\n">
```

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

```
    def getRuleIndex(self):
```

```
        return <parser.name>.RULE_<struct.derivedFromName>
```

```
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
```

```
    def copyFrom(self, ctx:ParserRuleContext):
```

```
        super().copyFrom(ctx)
```

```
        <struct.attrs:{ a | self.<a.name> = ctx.<a.name> }; separator="\n">
```

```
<endif>
```

```
    <dispatchMethods; separator="\n">
```

```
    <extensionMembers; separator="\n">
```

>>

```
AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
```

```
class <struct.name>(<currentRule.name; format="cap">Context):
```

```
    def __init__(self, parser, ctx:ParserRuleContext): # actually a <parser.name>.<currentRule.name;
```

```

format="cap">Context
  super().__init__(parser)
  <attrs:{ a | <a>}; separator="\n">
  self.copyFrom(ctx)

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

  <dispatchMethods; separator="\n">

>>

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

>>

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

>>

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

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

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

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

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

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName>

```

```

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

```

```

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

```

```

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

```

```

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
from antlr4 import *
from io import StringIO
import sys
if sys.version_info[1] > 5:
    from typing import TextIO
else:
    from typing.io import TextIO

<namedActions.header>

<lexer>
>>

```

```

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

<endif>
<atn>

```

```

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

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

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

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

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

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

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

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

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

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

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

    grammarFileName = "<lexer.grammarFileName>"

    def __init__(self, input=None, output:TextIO = sys.stdout):
        super().__init__(input, output)
        self.checkVersion("<lexerFile.ANTLRVersion>")
        self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
        self._actions = None
        self._predicates = None

    <namedActions.members>

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

>>

SerializedATN(model) ::= <<

```

<! only one segment, can be inlined !>

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

>>

```
/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
```

```
initValue(typeName) ::= <<
<pythonTypeInitMap.(typeName)>
>>
```

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

Found in path(s):

```
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
* [The "BSD license"]
* Copyright (c) 2012-2016 Terence Parr
* Copyright (c) 2012-2016 Sam Harwell
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
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* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
```

```

* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

```

```

/** Find left-recursive rules */

```

```

tree grammar LeftRecursiveRuleWalker;

```

```

options {
  tokenVocab=ANTLRParser;
  ASTLabelType=GrammarAST;
}

```

```

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

```

```

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

```

```

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

```

```

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

```

```

@rulecatch { }

```

```

// TODO: can get parser errors for not matching pattern; make them go away

```

```

public
rec_rule returns [boolean isLeftRec]
@init
{
  currentOuterAltNumber = 1;
}
: ^( r=RULE id=RULE_REF {ruleName=$id.getText();}
  ruleModifier?
// (ARG_ACTION)? shouldn't allow args, right?
  (^ (RETURNS a=ARG_ACTION {setReturnValues($a);}))?
// ( ^ (THROWS .+) )? don't allow

```

```

    (^(LOCALS ARG_ACTION) )? // TODO: copy these to gen'd code
    (^(OPTIONS .*)
    |^(AT ID ACTION) // TODO: copy
    )*
ruleBlock { $isLeftRec = $ruleBlock.isLeftRec;}
exceptionGroup
)
;

exceptionGroup
: exceptionHandler* finallyClause?
;

exceptionHandler
:^(CATCH ARG_ACTION ACTION)
;

finallyClause
:^(FINALLY ACTION)
;

ruleModifier
: PUBLIC
| PRIVATE
| PROTECTED
;

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

/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
outerAlternative returns [boolean isLeftRec]
: (binary)=>    binary
                {binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
| (prefix)=>    prefix
                {prefixAlt((AltAST)$start, currentOuterAltNumber);}
| (suffix)=>    suffix
                {suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
| nonLeftRecur {otherAlt((AltAST)$start, currentOuterAltNumber);}
;

```



```

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

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

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

nonLeftRecur
: ^(ALT elementOptions? element+)
;

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

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

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

elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;

elementOption
: ID
| ^(ASSIGN ID ID)
| ^(ASSIGN ID STRING_LITERAL)

```

```
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;
```

element

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

epsilonElement

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

setElement

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

ebnf: block

```
| ^( OPTIONAL block )
| ^( CLOSURE block )
| ^( POSITIVE_CLOSURE block )
;
```

block

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

alternative

```
: ^(ALT elementOptions? element+)
;
```

atom

```
: ^(RULE_REF ARG_ACTION? elementOptions?)
| ^(STRING_LITERAL elementOptions)
```

```
| STRING_LITERAL
| ^(TOKEN_REF elementOptions)
| TOKEN_REF
| ^(WILDCARD elementOptions)
| WILDCARD
| ^(DOT ID element)
;
```

Found in path(s):

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g

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* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/parse/ANTLRParser.g

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 */

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

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

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

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

```
<if(file.genListener)>
part '<file.grammarName>Listener.dart';
part '<file.grammarName>BaseListener.dart';
<endif>
```

```

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

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

<namedActions.header>
<parser>
>>

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

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

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

```

```

    /// labeled alternative in [<file.parserName>.<file.listenerLabelRuleNames.(lname)>].
    <else>
    /// Exit a parse tree produced by [<file.parserName>.<lname>].
    <endif>
    /// [ctx] the parse tree
    void exit<lname; format="cap">(<lname; format="cap">Context ctx);}; separator="\n">
    }
    >>

```

```

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

```

```

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

```

```

<header>

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

>>

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

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

/// This abstract class defines a complete generic visitor for a parse tree
/// produced by [<file.parserName>].
///
/// [T] is the 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)>}.
  <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>
<if(parser.rules)>
const int <parser.rules>:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
<endif>
class <parser.name> extends <superClass; null="Parser"> {
    static final checkVersion = () => RuntimeMetaData.checkVersion('<file.ANTLRVersion>',
RuntimeMetaData.VERSION);
    static const int TOKEN_EOF = IntStream.EOF;

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

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

```



```

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

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

@Override
String get serializedATN => _serializedATN;

@Override
ATN getATN() {
    return _ATN;
}

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

<if(semanticPredFuncs)>
@Override
bool semanticPred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
        <parser.semanticPredFuncs.values:{f}
    case <f.ruleIndex>:
        return _<f.name>_semanticPred(_localctx, predIndex);}; separator="\n">
    }
    return true;
}
<semanticPredFuncs.values; separator="\n">
<endif>

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

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

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

@Override

```

```
Vocabulary get vocabulary {
    return VOCABULARY;
}
>>
```

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

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

/// This generates a private method since the actionIndex is generated, making an
/// overriding implementation impossible to maintain.

```
RuleActionFunction(r, actions) ::= <<
void _<r.name>_action(<r.ctxType> _localctx, int actionIndex) {
    switch (actionIndex) {
        <actions: {index|case <index>: <actions.(index)> break;}; separator="\n">
    }
}
>>
```

/// This generates a private method since the predIndex is generated, making an
/// overriding implementation impossible to maintain.

```

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

```

```

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

```

```

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

```

```

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

```

```

<currentRule.ctxType> <currentRule.name>([int _p = 0]<args:{a | , <a>}>) {
    final _parentctx = context;
    final _parentState = state;
    dynamic _localctx = <currentRule.ctxType>(context, _parentState<currentRule.args:{a | , <a.name>}>);
    var _prevctx = _localctx;
    var _startState = <currentRule.startState>;
    enterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);

```

```

<namedActions.init>
<locals; separator="\n">
try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
} on RecognitionException catch (re) {
  _localctx.exception = re;
  errorHandler.reportError(this, re);
  errorHandler.recover(this, re);
} finally {
  <finallyAction>
  unrollRecursionContexts(_parentctx);
}
return _localctx;
}
>>

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

// LL(*) stuff

```

```

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

```

```

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

```

```

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

```

```

PlusBlock(choice, alts, error) ::= <<
state = <choice.blockStartStateNumber>; <! alt block decision !>
errorHandler.sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
switch (_alt) {
<alts:{ alt|
case <i><if(!choice.ast.greedy)> + 1<endif>:
<alt>

```

```

break;}; separator="\n">
default:
  <error>
}
state = <choice.loopBackStateNumber>; <! loopback/exit decision !>
errorHandler.sync(this);
_alt = interpreter.adaptivePredict(tokenStream, <choice.decision>, context);
} while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER);
>>

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

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

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

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

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

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

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

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

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

```

```

InvokeRule(r, argExprsChunks) ::= <<
state = <r.stateNumber>;
<if(r.labels)><r.labels:{1 | <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:{1 | <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:{1 | <labelref(l)> = }>tokenStream.LT(1);<endif>
<capture>
if (<if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>)) {
<if(m.labels)><m.labels:{1 | <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:{1 | <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>"
RetValRef(a) ::= "_localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>";

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

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

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

```

```

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

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

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

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

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

LexerRuleContext() ::= "RuleContext"

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

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

```

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

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

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

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

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

```
VisitorDispatchMethod(method) ::= <<
@override
```

```

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

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

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

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

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

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

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

recRuleReplaceContext(ctxName) ::= <<

```

```

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

```

```

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

```

```

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

<lexer>
>>

```

```

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

```

```

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

```

```

static final List<DFA> _decisionToDFA = List.generate(
  _ATN.numberOfDecisions, (i) => DFA(_ATN.getDecisionState(i), i));
static final PredictionContextCache _sharedContextCache = PredictionContextCache();
<if(lexer.tokens)>
static const int
  <lexer.tokens:{k | TOKEN_<k> = <lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
<endif>
<if(lexer.channels)>
static const int
  <lexer.channels:{c | <c> = <lexer.channels.(c)>}; separator=", ", wrap, anchor>;
<endif>
<if(rest(lexer.modes))>
static const int
  <rest(lexer.modes){m | <m> = <i>}; separator=", ", wrap, anchor>;
<endif>

```

```

@override
final List<String> channelNames = [

```

```

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

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

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

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

<namedActions.members>

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

@Override
String get serializedATN => _serializedATN;

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

@Override
ATN getATN() { return _ATN; }

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

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

```

```

<endif>
static final ATN_ATN =
    ATNDeserializer().deserialize(_serializedATN.codeUnits);
>>

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

codeFileExtension() ::= ".dart"

```

Found in path(s):

```

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/tool/templates/codegen/Dart/Dart.stg

```

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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/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
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*/

/** ANTLR tool checks output templates are compatible with tool code generation.

* For now, a simple string match used on x.y of x.y.z scheme.

* Must match Tool.VERSION during load to templates.

```

*
* REQUIRED.
*/

javascriptTypeInitMap ::= [
  "bool":"false",
  "int":"0",
  "float":"0.0",
  "str": "",
  default:"{}" // anything other than a primitive type is an object
]

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

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';
<if(file.genListener)>
import <file.grammarName>Listener from './<file.grammarName>Listener.js';
<endif>
<if(file.genVisitor)>
import <file.grammarName>Visitor from './<file.grammarName>Visitor.js';
<endif>

<namedActions.header>
<parser>
>>

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

// This class defines a complete listener for a parse tree produced by <file.parserName>.
export default class <file.grammarName>Listener extends antlr4.tree.ParseTreeListener {

<file.listenerNames:{Iname |
// Enter a parse tree produced by <file.parserName>#<Iname>.
enter<Iname; format="cap">(ctx) {
  \}

// Exit a parse tree produced by <file.parserName>#<Iname>.
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);
}

}; separator="\n">

}
>>

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

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<if(superClass)>
import <superClass> from './<superClass>.js';
<endif>

<atn>

const atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

const decisionsToDFA = atn.decisionToState.map( (ds, index) => new antlr4.dfa.DFA(ds, index) );

const sharedContextCache = new antlr4.PredictionContextCache();

export default class <parser.name> extends <superClass; null="antlr4.Parser"> {

  static grammarFileName = "<parser.grammarFileName; format="java-escape">";
  static literalNames = [ <parser.literalNames: {t | <t>} ; null="null", separator=", ", wrap, anchor> ];
  static symbolicNames = [ <parser.symbolicNames: {t | <t>} ; null="null", separator=", ", wrap, anchor> ];
  static ruleNames = [ <parser.ruleNames: {r | "<r>"} ; separator=", ", wrap, anchor> ];

  constructor(input) {

```

```

    super(input);
    this._interp = new antlr4.atn.ParserATNSimulator(this, atn, decisionsToDFA, sharedContextCache);
    this.ruleNames = <parser.name>.ruleNames;
    this.literalNames = <parser.name>.literalNames;
    this.symbolicNames = <parser.name>.symbolicNames;
    <namedActions.members>
}

get atn() {
    return atn;
}

<if(sempredFuncs)>
sempred(localctx, ruleIndex, predIndex) {
    switch(ruleIndex) {
    <parser.sempredFuncs.values:{f | case <f.ruleIndex>:
    return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
    default:
        throw "No predicate with index:" + ruleIndex;
    }
}
}

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

<funcs; separator="\n">

}

<parser.name>.EOF = antlr4.Token.EOF;
<if(parser.tokens)>
<parser.tokens:{k | <parser.name>.<k> = <parser.tokens.(k)>}; separator="\n", wrap, anchor>
<endif>

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

<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:{1 | <currentRule.altLabelCtxs.(1)>}; separator="\n">
```

```
>>
```

```
dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
```

```
<if(actionFuncs)>
```

```
<lexer.name>.prototype.action = function(localctx, ruleIndex, actionIndex) {
```

```
  switch (ruleIndex) {
```

```
    <recog.actionFuncs.values:{f|
```

```
case <f.ruleIndex>:
```

```
  this.<f.name>_action(localctx, actionIndex);
```

```
  break;}; separator="\n">
```

```
  default:
```

```
    throw "No registered action for:" + ruleIndex;
```

```
  }
```

```
};
```

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

```
<endif>
```

```
<if(sempredFuncs)>
```

```
<lexer.name>.prototype.sempred = function(localctx, ruleIndex, predIndex) {
```

```
  switch (ruleIndex) {
```

```
    <recog.sempredFuncs.values:{f| case <f.ruleIndex>:
```

```
  return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
```

```
  default:
```

```
    throw "No registered predicate for:" + ruleIndex;
```

```
  }
```

```
};
```

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

```
<endif>
```

```
>>
```

```
/* This generates a private method since the actionIndex is generated, making an
```

```
* overriding implementation impossible to maintain.
```

```
*/
```

```
RuleActionFunction(r, actions) ::= <<
```

```
<lexer.name>.prototype.<r.name>_action = function(localctx , actionIndex) {
```

```
  switch (actionIndex) {
```

```
    <actions:{index|
```

```
case <index>:
```

```
  <actions.(index)>
```

```
  break;}; separator="\n">
```

```
  default:
```

```
    throw "No registered action for:" + actionIndex;
```

```
  }
```

```
};
```

>>

```
/* This generates a private method since the predIndex is generated, making an
 * overriding implementation impossible to maintain.
 */
```

```
RuleSempredFunction(r, actions) ::= <<
<if (r.factory.g.lexer)><lexer.name>.prototype.<r.name>_sempred =
function<else><r.name>_sempred<endif>(localctx, predIndex) {
  switch(predIndex) {
    <actions:{index| case <index>:
return <actions.(index)>;}; separator="\n">
    default:
      throw "No predicate with index:" + predIndex;
  }
};
```

>>

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

```
<currentRule.name><(currentRule.args:{a | <a.name>}; separator=", ">) {
  let localctx = new <currentRule.ctxType>(this, this._ctx, this.state<currentRule.args:{a | , <a.name>}>);
  this.enterRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>);
  <namedActions.init>
  <locals; separator="\n">
  try {
    <code>
    <postamble; separator="\n">
    <namedActions.after>
  }<if(exceptions)>
  <exceptions; separator="\n">
  <else> catch (re) {
    if(re instanceof antlr4.error.RecognitionException) {
      localctx.exception = re;
      this._errHandler.reportError(this, re);
      this._errHandler.recover(this, re);
    } else {
      throw re;
    }
  }<endif> finally {
    <finallyAction>
    this.exitRule();
  }
  return localctx;
}
```

>>

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

<<

```
<currentRule.name>(_p<if(currentRule.args)>, <args:{ a | , <a>}><endif>) {  
  if(_p===undefined) {  
    _p = 0;  
  }  
  const _parentctx = this._ctx;  
  const _parentState = this.state;  
  let localctx = new <currentRule.ctxType>(this, this._ctx, _parentState<args:{ a | , <a.name>}>);  
  let _prevctx = localctx;  
  const _startState = <currentRule.startState>;  
  this.enterRecursionRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p);  
  <namedActions.init>  
  <locals; separator="\n">  
  try {  
    <code>  
    <postamble; separator="\n">  
    <namedActions.after>  
  } catch( error) {  
    if(error instanceof antlr4.error.RecognitionException) {  
      localctx.exception = error;  
      this._errHandler.reportError(this, error);  
      this._errHandler.recover(this, error);  
    } else {  
      throw error;  
    }  
  } finally {  
    <finallyAction>  
    this.unrollRecursionContexts(_parentctx)  
  }  
  return localctx;  
}
```

>>

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

>>

```
CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
```

```
<locals; separator="\n">
```

```
<preamble; separator="\n">
<ops; separator="\n">
>>
```

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

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

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

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



```

    <iteration>
  }
>>

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

// LL(*) stuff

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

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

StarBlock(choice, alts, sync, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var _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);
var _alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
  switch (_alt) {
    <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break;}; separator="\n">
default:
<error>
}
this.state = <choice.loopBackStateNumber>; <! loopback/exit decision !>
this._errHandler.sync(this);
_alt = this._interp.adaptivePredict(this._input,<choice.decision>, this._ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER );
>>

```

```

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

```

```

ThrowNoViableAlt(t) ::= "throw new antlr4.error.NoViableAltException(this);"

```

```

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

```

```

// Javascript language spec - shift operators are 32 bits long max
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x1f) == 0
>>

```

```

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> && ((1 \<< <offsetShiftVar(s.varName,

```

```

bits.shift>>) & (<bits.ttypes:{ttype | (1 \<< <offsetShiftType(ttype, bits.shift)>)}; separator=" | ">>) != 0)
%>

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

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

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

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

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

InvokeRule(r, argExprsChunks) ::= <<
this.state = <r.stateNumber>;
<if(r.labels)><r.labels:{1 | <labelref(l)> =
}><endif>this.<r.name><(<if(r.ast.options.p)><r.ast.options.p><(<if(argExprsChunks)>,<endif><endif><argExprsChunks>);
>>

MatchToken(m) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>this.match(<parser.name>.<m.name>);
>>

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

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

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

```

```

else {
  this._errHandler.reportMatch(this);
  this.consume();
}
>>

Wildcard(w) ::= <<
this.state = <w.stateNumber>;
<if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>this.matchWildcard();
>>

// ACTION STUFF

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

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

SemPred(p, chunks, failChunks) ::= <<
this.state = <p.stateNumber>;
if (!( <chunks>)) {
  throw new antlr4.error.FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
}
>>

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

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "this.skip()"
LexerMoreCommand() ::= "this.more()"
LexerPopModeCommand() ::= "this.popMode()"
LexerTypeCommand(arg, grammar) ::= "this._type = <arg>"
LexerChannelCommand(arg, grammar) ::= "this._channel = <arg>"
LexerModeCommand(arg, grammar) ::= "this._mode = <arg>"
LexerPushModeCommand(arg, grammar) ::= "this.pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValRef(a) ::= "localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */

```

```

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

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

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label>====null ? null : <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : parseInt(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>====null ? null : <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r) ::= "(<ctx(r)>.<r.label>====null ? null : <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "(<ctx(r)>.<r.label>====null ? null : this._input.getText(new antlr4.Interval(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "this"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
ThisRulePropertyRef_text(r) ::= "this._input.getText(new antlr4.Interval(localctx.start, this._input.LT(-1)))"
ThisRulePropertyRef_ctx(r) ::= "localctx"
ThisRulePropertyRef_parser(r) ::= "this"

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

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

TokenDecl(t) ::= "this.<t.name> = null; // <TokenLabelType()>"
TokenTypeDecl(t) ::= "var <t.name> = 0; // <TokenLabelType()> type"
TokenListDecl(t) ::= "this.<t.name> = []; // of <TokenLabelType()>s"
RuleContextDecl(r) ::= "this.<r.name> = null; // <r.ctxName>"
RuleContextListDecl(rdecl) ::= "this.<rdecl.name> = []; // of <rdecl.ctxName>s"

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

// should never be called
ContextTokenListGetterDecl(t) ::= <<

```

```

<t.name>_list() {
    return this.getTokens(<parser.name>.<t.name>);
}
>>

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

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

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

ContextRuleListIndexedGetterDecl(r) ::= <<
<r.name> = function(i) {
    if(i===undefined) {
        i = null;
    }
    if(i===null) {
        return this.getTypedRuleContexts(<r.ctxName>);
    } else {
        return this.getTypedRuleContext(<r.ctxName>,i);
    }
};
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,

```

```

* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

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

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

StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers) ::= <<
class <struct.name> extends <if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif> {

    constructor(parser, parent, invokingState<struct.ctorAttrs:{ a | , <a.name>}>) {
        if(parent===undefined) {
            parent = null;
        }
        if(invokingState===undefined || invokingState===null) {
            invokingState = -1;
        }
        super(parent, invokingState);
        this.parser = parser;
        this.ruleIndex = <parser.name>.RULE_<struct.derivedFromName>;
        <attrs:{ a | <a>}; separator="\n">
        <struct.ctorAttrs:{ a | this.<a.name> = <a.name> || null;}; separator="\n">
    }

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

    <if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
    copyFrom(ctx) {
        super.copyFrom(ctx);
        <struct.attrs:{ a | this.<a.name> = ctx.<a.name>;}; separator="\n">
    }
    <endif>
    <dispatchMethods; separator="\n">
    <extensionMembers; separator="\n">

}

>>

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

    constructor(parser, ctx) {

```

```

    super(parser);
    <attrs:{ a | <a>;}; separator="\n">
    super.copyFrom(ctx);
  }

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

<dispatchMethods; separator="\n">

}

<! Define fields of this parser to export this struct/context class !>
<parser.name>.<struct.name> = <struct.name>;

>>

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

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

AttributeDecl(d) ::= "this.<d.name> = <if(d.initValue)><d.initValue><else>null<endif>"

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

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

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

```



```

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

```

```

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

```

```

recRuleReplaceContext(ctxName) ::= <<
localctx = new <ctxName>Context(this, localctx);
this._ctx = localctx;
_prevctx = localctx;
>>

```

```

recRuleSetPrevCtx() ::= <<
if(this._parseListeners!=null) {
    this.triggerExitRuleEvent();
}
_prevctx = localctx;
>>

```

```

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
import antlr4 from 'antlr4';

<namedActions.header>

<lexer>

>>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
import <superClass> from './<superClass>.js';
<endif>

```

```

<atn>

const atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

const decisionsToDFA = atn.decisionToState.map( (ds, index) => new antlr4.dfa.DFA(ds, index) );

export default class <lexer.name> extends <if(superClass)><superClass><else>antlr4.Lexer<endif> {

    static grammarFileName = "<lexer.grammarFileName>";
    static channelNames = [ "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channels)>,
<lexer.channels: {c| "<c>"}; separator=", ", wrap, anchor><endif> ];
    static modeNames = [ <lexer.modes: {m| "<m>"}; separator=", ", wrap, anchor> ];
    static literalNames = [ <lexer.literalNames: {t| <t>}; null="null", separator=", ", wrap, anchor> ];
    static symbolicNames = [ <lexer.symbolicNames: {t| <t>}; null="null", separator=", ", wrap, anchor> ];
    static ruleNames = [ <lexer.ruleNames: {r| "<r>"}; separator=", ", wrap, anchor> ];

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

    get atn() {
        return atn;
    }
}

<lexer.name>.EOF = antlr4.Token.EOF;
<if(lexer.tokens)>
<lexer.tokens: {k| <lexer.name>.<k> = <lexer.tokens.(k)>;}; separator="\n", wrap, anchor>
<endif>

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

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

<endif>

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

>>

```

```

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

const serializedATN = ["<model.serialized; wrap={",<n>  "}>"].join("");

>>

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

codeFileExtension() ::= ".js"

```

Found in path(s):

```

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-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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```

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*/

```
SwiftTypeInitMap ::= [  
  "Int":"0",  
  "Int64":"0",  
  "Float":"0.0",  
  "Double":"0.0",  
  "Bool":"false",  
  default:"nil" // anything other than a primitive type is an object  
]  
SwiftTypeMap ::= [  
  "int":"Int",  
  "float":"Float",  
  "long":"Int64",  
  "double":"Double",  
  "bool":"Bool",  
  "boolean":"Bool",  
  default : key  
]  
// args must be <object-model-object>, <fields-resulting-in-STs>
```

```
accessLevelOpenOK(obj) ::= "<obj.accessLevel; null=\"open\">"  
accessLevelNotOpen(obj) ::= "<obj.accessLevel; null=\"public\">"
```

```
ParserFile(file, parser, namedActions,contextSuperClass) ::= <<  
<fileHeader(file.grammarFileName, file.ANTLRVersion)>  
<if(file.genPackage)>  
<!package <file.genPackage>;!>  
<endif>  
<namedActions.header>  
import Antlr4  
  
<parser>  
>>
```

```
ListenerFile(file, header, namedActions) ::= <<  
<fileHeader(file.grammarFileName, file.ANTLRVersion)>  
<if(file.genPackage)>  
<!package <file.genPackage>;!>  
<endif>  
<header>  
import Antlr4
```

```
/**  
* This interface defines a complete listener for a parse tree produced by  
* { @link <file.parserName> }.
```

```

*/
<accessLevelNotOpen(file)> protocol <file.grammarName>Listener: ParseTreeListener {
  <file.listenerNames: {lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the { @code <lname>\}
* labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Enter a parse tree produced by { @link <file.parserName>#<lname>\}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the { @code <lname>\}
* labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Exit a parse tree produced by { @link <file.parserName>#<lname>\}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context); separator="\n"
}
>>

```

```

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

```

```
import Antlr4
```

```

/**
* This class provides an empty implementation of { @link <file.grammarName>Listener},
* which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
<accessLevelOpenOK(file)> class <file.grammarName>BaseListener: <file.grammarName>Listener {
  <accessLevelNotOpen(file)> init() { \}
  <file.listenerNames: {lname |

/**

```

```

* { @inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
<accessLevelOpenOK(file)> func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) { \}
/**
* { @inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
<accessLevelOpenOK(file)> func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) { \} }; separator="\n">

/**
* { @inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
<accessLevelOpenOK(file)> func enterEveryRule(_ ctx: ParserRuleContext) throws { }
/**
* { @inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
<accessLevelOpenOK(file)> func exitEveryRule(_ ctx: ParserRuleContext) throws { }
/**
* { @inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
<accessLevelOpenOK(file)> func visitTerminal(_ node: TerminalNode) { }
/**
* { @inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
<accessLevelOpenOK(file)> func visitErrorNode(_ node: ErrorNode) { }
}
>>

```

```

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

```

```

/**
 * This interface defines a complete generic visitor for a parse tree produced
 * by { @link <file.parserName>}.
 *
 * @param \<T> The return type of the visit operation. Use { @link Void} for
 * operations with no return type.
 */
<accessLevelOpenOK(file)> class <file.grammarName>Visitor\<T>: ParseTreeVisitor\<T> {
  <file.visitorNames:{Iname |
/**
<if(file.visitorLabelRuleNames.(Iname))>
 * Visit a parse tree produced by the { @code <Iname>\}
 * labeled alternative in { @link <file.parserName>#\<file.visitorLabelRuleNames.(Iname)>\}.
<else>
 * Visit a parse tree produced by { @link <file.parserName>#\<Iname>\}.
<endif>
- Parameters:
- ctx: the parse tree
- returns: the visitor result
*/
<accessLevelOpenOK(file)> func visit<Iname; format="cap">(_ ctx: <file.parserName>.<Iname;
format="cap">Context) -> T {
  fatalError(#function + " must be overridden")
\}
}; separator="\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
 * This class provides an empty implementation of { @link <file.grammarName>Visitor},
 * which can be extended to create a visitor which only needs to handle a subset
 * of the available methods.
 *
 * @param \<T> The return type of the visit operation. Use { @link Void} for
 * operations with no return type.
 */
<accessLevelOpenOK(file)> class <file.grammarName>BaseVisitor\<T>: AbstractParseTreeVisitor\<T> {
  <file.visitorNames:{Iname |
/**

```

```

* { @inheritDoc\}
*
* \<p>The default implementation returns the result of calling
* { @link #visitChildren\} on { @code ctx\}.\</p>
*/
<accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) -> T? { return visitChildren(ctx) \}}; separator="\n">
}
>>

```

```

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

```

```

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

```

```

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
</*!@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})!>
<accessLevelOpenOK(parser)> class <parser.name>: <superClass; null="Parser"> {

```

```

    internal static var _decisionToDFA: [DFA] = {
        var decisionToDFA = [DFA]()
        let length = <parser.name>._ATN.getNumberOfDecisions()
        for i in 0..\<length {
            </*! decisionToDFA[i] = DFA(<parser.name>._ATN.getDecisionState(i)!, i)!>
            decisionToDFA.append(DFA(<parser.name>._ATN.getDecisionState(i)!, i))
        }
        return decisionToDFA
    }()

```

```

    internal static let _sharedContextCache = PredictionContextCache()

```

```

<if(parser.tokens)>
<accessLevelNotOpen(parser)>
enum Tokens: Int {
    case EOF = -1, <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=", ", wrap, anchor>
}
<endif>

```

```

<accessLevelNotOpen(parser)>
<if(parser.rules)>
static let <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>
<endif>

```

```

<accessLevelNotOpen(parser)>
static let ruleNames: [String] = [

```



```

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

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

override <accessLevelOpenOK(parser)>
func getGrammarFileName() -> String { return "<parser.grammarFileName; format="java-escape">" }

override <accessLevelOpenOK(parser)>
func getRuleNames() -> [String] { return <parser.name>.ruleNames }

override <accessLevelOpenOK(parser)>
func getSerializedATN() -> String { return <parser.name>._serializedATN }

override <accessLevelOpenOK(parser)>
func getATN() -> ATN { return <parser.name>._ATN }

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

<if(sempredFuncs)>
override <accessLevelOpenOK(parser)>
func sempred(_ localctx:RuleContext?, _ ruleIndex: Int, _ predIndex: Int)throws -> Bool {
    switch (ruleIndex) {
        <parser.sempredFuncs.values:{f}
    case <f.ruleIndex>:
        return try <f.name>_sempred(_ localctx?.castdown(<f.ctxType>.self), predIndex)); separator="\n">
            default: return true
    }
    <!return true;!>
}
<sempredFuncs.values; separator="\n">
<endif>

<atn>

<accessLevelNotOpen(parser)>
static let _serializedATN = <parser.name>ATN().jsonString

<accessLevelNotOpen(parser)>
static let _ATN = ATNDeserializer().deserializeFromJson(_serializedATN)
}
>>

vocabulary(literalNames, symbolicNames, accessLevel) ::= <<
private static let _LITERAL_NAMES: [String?] = [

```

```

<literalNames:{t | <t>}; null="nil", separator=", ", wrap, anchor>
]
private static let _SYMBOLIC_NAMES: [String?] = [
  <symbolicNames:{t | <t>}; null="nil", separator=", ", wrap, anchor>
]
<accessLevel>
static let VOCABULARY = Vocabulary(_LITERAL_NAMES, _SYMBOLIC_NAMES)
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
override <accessLevelOpenOK(parser)>
func action(_ _localctx: RuleContext?, _ ruleIndex: Int, _ actionIndex: Int) throws {
  switch (ruleIndex) {
    <recog.actionFuncs.values:{f}
  case <f.ruleIndex>:
    <f.name>_action((_localctx as <f.ctxType>?), actionIndex)
    }; separator="\n">
  default: break
  }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
override <accessLevelOpenOK(parser)>
func sempred(_ _localctx: RuleContext?, _ ruleIndex: Int, _ predIndex: Int) throws -> Bool {
  switch (ruleIndex) {
    <recog.sempredFuncs.values:{f}
  case <f.ruleIndex>:
    return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex); separator="\n">
  default: return true
  }
  <!return true;!>
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<

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

override <accessLevelNotOpen(parser)>
init(_ input:TokenStream) throws {
  RuntimeMetaData.checkVersion("4.9.2", RuntimeMetaData.VERSION)
}

```

```

try super.init(input)
_interp = ParserATNSimulator(self,<p.name>._ATN,<p.name>._decisionToDFA,
<parser.name>._sharedContextCache)
}

>>

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

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private func <r.name>_sempred(_ localctx: <r.ctxType>!, _ predIndex: Int) throws -> Bool {
switch (predIndex) {
<actions:{index|
case <index>:return <actions.(index)>}; separator="\n">
default: return true
}
<!return true;!>
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<
<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
@discardableResult
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelOpenOK(parser)> func
<endif><currentRule.name><(if(first(args))>_ <endif><args; separator=", _">) throws -> <currentRule.ctxType> {
var _localctx: <currentRule.ctxType> = <currentRule.ctxType>(_ctx, getState())<currentRule.args:{a | ,
<a.name>}>>)
try enterRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>)
<namedActions.init>
<locals; separator="\n">

```

```

defer {
    <finallyAction>
    try! exitRule()
}
do {
<if(currentRule.hasLookaheadBlock)>
    var _alt:Int
<endif>
    <code>
    <postamble; separator="\n">
    <namedActions.after>
}
<if(exceptions)>
<exceptions; separator="\n">
<else>
catch ANTLRException.recognition(let re) {
    _localctx.exception = re
    _errHandler.reportError(self, re)
    try _errHandler.recover(self, re)
}
<endif>

return _localctx
}
>>

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

<<

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

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelNotOpen(parser)> final <endif>
func <currentRule.name>( <if(first(args))>_ <endif><args; separator=", _">) throws -> <currentRule.ctxType> {
    return try <currentRule.name>(0<currentRule.args:{a | , <a.name>}>)
}
}
@discardableResult
private func <currentRule.name>(_ _p<args:{a | , <a>}>: Int) throws -> <currentRule.ctxType> {
    let _parentctx: ParserRuleContext? = _ctx
    let _parentState: Int = getState()
    var _localctx: <currentRule.ctxType> = <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,
<a.name>}>)
    var _prevctx: <currentRule.ctxType> = _localctx
    let _startState: Int = <currentRule.startState>
    try enterRecursionRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p)
    <namedActions.init>
    <locals; separator="\n">

```

```

defer {
    <finallyAction>
    try! unrollRecursionContexts(_parentctx)
}
do {
<if(currentRule.hasLookaheadBlock)>
    var _alt: Int
<endif>
    <code>
    <postamble; separator="\n">
    <namedActions.after>
}
catch ANTLRException.recognition(let re) {
    _localctx.exception = re
    _errHandler.reportError(self, re)
    try _errHandler.recover(self, re)
}

return _localctx;
}
>>

```

```

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

```

```

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

```

```

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

```

```
}  
>>
```

```
LL1OptionalBlock(choice, alts, error) ::= <<  
  setState(<choice.stateNumber>)  
  try _errHandler.sync(self)  
  switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {  
  <choice.altLook,alts:{look,alt| <cases(ttypes=look)>  
  <alt>  
  break}; separator="\n">  
  default:  
  break  
  }  
>>
```

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

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

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

```

// LL(*) stuff

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

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

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

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
try _errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>;

```

```

repeat {
  switch (_alt) {
    <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
break}; separator="\n">
  default:
    <error>
  }
  setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
  try _errHandler.sync(self)
  _alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
} while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER)
>>

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

ThrowNoViableAlt(t) ::= "throw ANTLRException.recognition(e: NoViableAltException(self))"

TestSetInline(s) ::= <<
<!<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">!>
//closure
{ () -> Bool in
  <if(rest(s.bitsets)>var<else>let<endif> testSet: Bool = <first(s.bitsets):{bits |
<if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s, bits)><endif>}>
  <rest(s.bitsets):{bits | testSet = testSet || <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s,
bits)><else><bitsetInlineComparison(s, bits)><endif>}; separator="\n">
  return testSet
}()
>>

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

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <<
<!(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1 \<< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ttype | (1 \<< <offsetShift(ttype, bits.shift)>}); separator=" | ">)) != 0)!>
{ () -> Bool in
  <! let test: Bool = (<testShiftInRange({<offsetShift(s.varName, bits.shift)>})>)!>
  <!var temp: Int64 = Int64(<offsetShift(s.varName, bits.shift)>)!>
  <!temp = (temp \< 0) ? (64 + (temp % 64)) : (temp % 64)!>
  <!let test1: Int64 = (Int64(1) \<< temp)!>
  <!var test2: Int64 = (<first(bits.ttypes):{ttype | Utils.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)}>)!>
  <!<rest(bits.ttypes):{ttype | test2 = test2 | Utils.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)}>);

```



```

separator="\n">!>
  let testArray: [Int] = [<s.varName>, <bits.ttypes:{ ttype |<parserName(ttype)>} ; separator=", ">]
  <!var test2: Int64 = Utils.testBitLeftShiftArray(testArray)!>
  return  Utils.testBitLeftShiftArray(testArray, <bits.shift>)
}()
>>

isZero ::= [
"0": true,
default: false
]
parserName(ttype) ::= <%
<parser.name>.Tokens.<ttype>.rawValue
%>
offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

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

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

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>)
<if(r.labels)>
try {
  let assignmentValue = try
  <r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>)
  <r.labels:{l | <labelref(l)> = assignmentValue } ; separator="\n">
  }()
<else>try
  <r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>)<endif>
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>)
<if(m.labels)>
try {
  let assignmentValue = try match(<parser.name>.Tokens.<m.name>.rawValue)
  <m.labels:{l | <labelref(l)> = assignmentValue } ; separator="\n">
  }()
<else>try match(<parser.name>.Tokens.<m.name>.rawValue)<endif>

```

>>

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

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

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

```
// ACTION STUFF
```

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

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

```
SemPred(p, chunks, failChunks) ::= <<
  setState(<p.stateNumber>)
  if (!<chunks>) {
    throw ANTLRException.recognition(e:FailedPredicateException(self, <p.predicate><if(failChunks)>,
    <failChunks><elseif(p.msg)>, <p.msg><endif>))
  }
>>
```

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

```
// lexer actions are not associated with model objects
```

```
LexerSkipCommand() ::= "skip()"
```

```

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

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

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

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

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

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.start?.description ?? \"\") : \"\""
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.stop?.description ?? \"\") : \"\""
RulePropertyRef_text(r) ::= "<ctx(r)>.<r.label> != nil ? try
_input.getText(<ctx(r)>.<r.label>!.start,<ctx(r)>.<r.label>!.stop) : \"\""
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "self"

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

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

```

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

```
TokenDecl(t) ::= "<t.name>: <SwiftTypeMap.(TokenLabelType())>!"
```

```
TokenTypeDecl(t) ::= "var <t.name>: Int = 0"
```

```
TokenListDecl(t) ::= "<t.name>: [Token] = [Token]()"
```

```
RuleContextDecl(r) ::= "<r.name>: <r.ctxName>!"
```

```
RuleContextListDecl(rdecl) ::= "<rdecl.name>: [<rdecl.ctxName>] = [<rdecl.ctxName>]()"
```

```
ContextTokenGetterDecl(t) ::= <<
```

```
<accessLevelOpenOK(parser)>
```

```
func <t.name>() -> TerminalNode? {
```

```
    return getToken(<parser.name>.Tokens.<t.name>.rawValue, 0)
```

```
}
```

```
>>
```

```
ContextTokenListGetterDecl(t) ::= <<
```

```
<accessLevelOpenOK(parser)>
```

```
func <t.name>() -> [TerminalNode] {
```

```
    return getTokens(<parser.name>.Tokens.<t.name>.rawValue)
```

```
}
```

```
>>
```

```
ContextTokenListIndexedGetterDecl(t) ::= <<
```

```
<accessLevelOpenOK(parser)>
```

```
func <t.name>(_ i: Int) -> TerminalNode? {
```

```
    return getToken(<parser.name>.Tokens.<t.name>.rawValue, i)
```

```
}
```

```
>>
```

```
ContextRuleGetterDecl(r) ::= <<
```

```
<accessLevelOpenOK(parser)>
```

```
func <r.name>() -> <r.ctxName>? {
```

```
    return getRuleContext(<r.ctxName>.self, 0)
```

```
}
```

```
>>
```

```
ContextRuleListGetterDecl(r) ::= <<
```

```
<accessLevelOpenOK(parser)>
```

```
func <r.name>() -> [<r.ctxName>] {
```

```
    return getRuleContexts(<r.ctxName>.self)
```

```
}
```

```
>>
```

```
ContextRuleListIndexedGetterDecl(r) ::= <<
```

```
<accessLevelOpenOK(parser)>
```

```
func <r.name>(_ i: Int) -> <r.ctxName>? {
```

```
    return getRuleContext(<r.ctxName>.self, i)
```

```
}
```

```
>>
```

```
LexerRuleContext() ::= "RuleContext"
```

```
/** The rule context name is the rule followed by a suffix; e.g.,
```

```

* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

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

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

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,
    superClass={ParserRuleContext}) ::= <<

<accessLevelNotOpen(parser)> class <struct.name>:
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces;
separator=", "><endif> {
  <attrs:{ a | <accessLevelOpenOK(parser)> var <a>}; separator="\n">
  <getters:{ g | <g>}; separator="\n">
  <! <if(ctorAttrs)> <accessLevelNotOpen(parser)> init(_ parent: ParserRuleContext,_ invokingState: Int) {
super.init(parent, invokingState) }<endif> !>
  <if(ctorAttrs)>
  <accessLevelNotOpen(parser)> convenience init(_ parent: ParserRuleContext?, _ invokingState: Int<ctorAttrs:{ a | ,
_ <a>}>}) {
    self.init(parent, invokingState)
  <struct.ctorAttrs:{ a | self.<a.name> = <a.name>;}; separator="\n">
  }
  <endif>

  override <accessLevelOpenOK(parser)>
  func getRuleIndex() -> Int {
    return <parser.name>.RULE_<struct.derivedFromName>
  }
  <if(struct.provideCopyFrom && struct.attrs)> <! don't need copy unless we have subclasses !>
  <accessLevelOpenOK(parser)>
  override func copyFrom(_ ctx_: ParserRuleContext) {
    super.copyFrom(ctx_)
    let ctx = ctx_ as! <struct.name>
    <struct.attrs:{ a | self.<a.name> = ctx.<a.name>;}; separator="\n">
  }
  <endif>
  <dispatchMethods; separator="\n">
  <extensionMembers; separator="\n">
  }
  >>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<

```

```

<accessLevelNotOpen(parser)> class <struct.name>: <currentRule.name; format="cap">Context {
  <attrs:{a | <accessLevelNotOpen(parser)> var <a>}; separator="\n">
  <getters:{g | <g>}; separator="\n">

  <accessLevelNotOpen(parser)>
  init(_ ctx: <currentRule.name; format="cap">Context) {
    super.init()
    copyFrom(ctx)
  }
  <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
override <accessLevelOpenOK(parser)>
func <if(method.isEnter)>enter<else>exit<endif>Rule(_ listener: ParseTreeListener) {
  if let listener = listener as? <parser.grammarName>Listener {
    listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)
  }
}
>>

VisitorDispatchMethod(method) ::= <<
override <accessLevelOpenOK(parser)>
func accept<T>(_ visitor: ParseTreeVisitor<T>) -> T? {
  if let visitor = visitor as? <parser.grammarName>Visitor {
    return visitor.visit<struct.derivedFromName; format="cap">(self)
  }
  else if let visitor = visitor as? <parser.grammarName>BaseVisitor {
    return visitor.visit<struct.derivedFromName; format="cap">(self)
  }
  else {
    return visitor.visitChildren(self)
  }
}
>>

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

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

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

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

```

```

recRuleSetStopToken()          ::= "_ctx!.stop = try _input.LT(-1)"

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

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

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

recRuleSetPrevCtx() ::= <<
  if _parseListeners != nil {
    try triggerExitRuleEvent()
  }
  _prevctx = _localctx
  >>

LexerFile(lexerFile, lexer, namedActions) ::= <<
  <fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
  <if(lexerFile.genPackage)>
  <!package <lexerFile.genPackage>;!>
  <endif>
  <namedActions.header>

```

```

import Antlr4

<lexer>
>>
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<accessLevelOpenOK(lexer)> class <lexer.name>: <superClass; null="Lexer"> {

internal static var _decisionToDFA: [DFA] = {
    var decisionToDFA = [DFA]()
    let length = <lexer.name>._ATN.getNumberOfDecisions()
    for i in 0..<length {
        <! decisionToDFA[i] = DFA(<lexer.name>._ATN.getDecisionState(i)!, i);!>
        decisionToDFA.append(DFA(<lexer.name>._ATN.getDecisionState(i)!, i))
    }
    return decisionToDFA
}()

internal static let _sharedContextCache = PredictionContextCache()

<accessLevelNotOpen(lexer)>
<if(lexer.tokens)>
static let <lexer.tokens>:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>
<endif>

<if(lexer.channels)>
<accessLevelNotOpen(lexer)>
static let <lexer.channels>:{k | <k>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>
<endif>
<if(rest(lexer.modes))>
<accessLevelNotOpen(lexer)>
static let <rest(lexer.modes)>:{m | <m>=<i>}; separator=", ", wrap, anchor>
<endif>
<accessLevelNotOpen(lexer)>
static let channelNames: [String] = [
    "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channels)>, <lexer.channels:{c | "<c>">}; separator=", ",
wrap, anchor><endif>
]

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

<accessLevelNotOpen(lexer)>
static let ruleNames: [String] = [
    <lexer.ruleNames:{r | "<r>">}; separator=", ", wrap, anchor>
]

```



```

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

<namedActions.members>

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

<accessLevelNotOpen(lexer)>
required init(_ input: CharStream) {
    RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION)
    super.init(input)
    _interp = LexerATNSimulator(self, <lexer.name>._ATN, <lexer.name>._decisionToDFA,
<lexer.name>._sharedContextCache)
}

override <accessLevelOpenOK(lexer)>
func getGrammarFileName() -> String { return "<lexer.grammarFileName>" }

override <accessLevelOpenOK(lexer)>
func getRuleNames() -> [String] { return <lexer.name>.ruleNames }

override <accessLevelOpenOK(lexer)>
func getSerializedATN() -> String { return <lexer.name>._serializedATN }

override <accessLevelOpenOK(lexer)>
func getChannelNames() -> [String] { return <lexer.name>.channelNames }

override <accessLevelOpenOK(lexer)>
func getModeNames() -> [String] { return <lexer.name>.modeNames }

override <accessLevelOpenOK(lexer)>
func getATN() -> ATN { return <lexer.name>._ATN }

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

<accessLevelNotOpen(lexer)>
static let _serializedATN: String = <lexer.name>ATN().jsonString

<accessLevelNotOpen(lexer)>
static let _ATN: ATN = ATNDeserializer().deserializeFromJson(_serializedATN)
}
>>

/** Don't need to define anything. The tool generates a XParserATN.swift file (and same for lexer)

```

```
* which is referenced from static field _serializedATN. This json string is passed to
* deserializeFromJson(). Note this is not the "serialization as array of ints" that other targets
* do. It is more or less the output of ATNPrinter which gets read back in.
```

```
*/
```

```
SerializedATN(model) ::= <<
```

```
>>
```

```
/** Using a type to init value map, try to init a type; if not in table
```

```
* must be an object, default value is "null".
```

```
*/
```

```
initValue(typeName) ::= <<
```

```
<SwiftTypeInitMap.(typeName)>
```

```
>>
```

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

```
Found in path(s):
```

```
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/tool/templates/codegen/Swift/Swift.stg
```

```
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```

```
/*
```

```
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```

```
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```
*/
```

```
/*
This file contains the actual layout of the messages emitted by ANTLR.
The text itself is coming out of the languages/*stg files, according to the chosen locale.
This file contains the default format ANTLR uses.
*/
```

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

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

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

```
wantsSingleLineMessage() ::= "true"
```

Found in path(s):

```
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
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```

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```
/*
```

```
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```

```
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```

```
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```
*/
```

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* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-

jar/org/antlr/v4/tool/templates/codegen/Cpp/Files.stg

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Found in path(s):

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/gui/GraphicsSupport.java

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/*

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*

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 */

```
phpTypeInitMap ::= [
  "int": "0",
  "long": "0",
  "float": "0.0",
  "double": "0.0",
  "boolean": "false",
  default: "null"
]
```

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

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

```
ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>
use Antlr\Antlr4\Runtime\Tree\ParseTreeListener;
```

```
/**
```

```
* This interface defines a complete listener for a parse tree produced by
```

```
* { @see <file.parserName> }.
```

```
*/
```

```
interface <file.grammarName>Listener extends ParseTreeListener {
```

```
<file.listenerNames: {Iname |
```

```
/**
```

```
<if(file.listenerLabelRuleNames.(Iname))>
```

```
* Enter a parse tree produced by the `<Iname>`
```

```
* labeled alternative in { @see <file.parserName>::<file.listenerLabelRuleNames.(Iname)>() }.
```

```
<else>
```

```
* Enter a parse tree produced by { @see <file.parserName>::<Iname>() }.
```

```
<endif>
```

```
* @param $context The parse tree.
```

```
*/
```

```

public function enter<lname; format="cap">(Context\<lname; format="cap">Context $context) : void;
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the `<lname>` labeled alternative
* in { @see <file.parserName>::<file.listenerLabelRuleNames.(lname)>() }.
<else>
* Exit a parse tree produced by { @see <file.parserName>::<lname>() }.
<endif>
* @param $context The parse tree.
*/
public function exit<lname; format="cap">(Context\<lname; format="cap">Context $context) : void;
separator="\n">
}
>>

```

```

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

```

```

use Antlr\Antlr4\Runtime\ParserRuleContext;
use Antlr\Antlr4\Runtime\Tree\ErrorNode;
use Antlr\Antlr4\Runtime\Tree\TerminalNode;

```

```

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

/**
* { @inheritdoc }
*
* The default implementation does nothing.
*/
public function exit<lname; format="cap">(Context\<lname; format="cap">Context $context) : void {} };
separator="\n">

```

```

/**
 * {@inheritDoc}
 *
 * The default implementation does nothing.
 */
public function enterEveryRule(ParserRuleContext $context) : void {}

/**
 * {@inheritDoc}
 *
 * The default implementation does nothing.
 */
public function exitEveryRule(ParserRuleContext $context) : void {}

/**
 * {@inheritDoc}
 *
 * The default implementation does nothing.
 */
public function visitTerminal(TerminalNode $node) : void {}

/**
 * {@inheritDoc}
 *
 * The default implementation does nothing.
 */
public function visitErrorNode(ErrorNode $node) : void {}
}
>>

```

```

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

```

```

<header>
use Antlr\Antlr4\Runtime\Tree\ParseTreeVisitor;

```

```

/**
 * This interface defines a complete generic visitor for a parse tree produced by {@see <file.parserName>}.
 */
interface <file.grammarName>Visitor extends ParseTreeVisitor
{
    <file.visitorNames> { Iname |
/**
    <if(file.visitorLabelRuleNames.(Iname))>

```



```

* Visit a parse tree produced by the `<Iname>` labeled alternative
* in { @see <file.parserName>::<file.visitorLabelRuleNames.<Iname>()</code>}.
<else>
* Visit a parse tree produced by { @see <file.parserName>::<Iname>()</code>}.
<endif>
*
* @param Context\<Iname; format="cap">Context $context The parse tree.
*
* @return mixed The visitor result.
*/
public function visit<Iname; format="cap">(Context\<Iname; format="cap">Context $context);
separator="\n\n"
}
>>

```

```

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>
use Antlr\Antlr4\Runtime\Tree\AbstractParseTreeVisitor;

/**
 * This class provides an empty implementation of { @see <file.grammarName>Visitor</code>},
 * which can be extended to create a visitor which only needs to handle a subset
 * of the available methods.
 */
class <file.grammarName>BaseVisitor extends AbstractParseTreeVisitor implements <file.grammarName>Visitor
{
    <file.visitorNames:{ Iname |
/**
 * { @inheritdoc }
 *
 * The default implementation returns the result of calling
 * { @see self::visitChildren() } on `context`.
 */
public function visit<Iname; format="cap">(Context\<Iname; format="cap">Context $context)
{
    return $this->visitChildren($context);
}}; separator="\n\n"
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
<?php

/*

```

```

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

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

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
namespace<if(file.genPackage)> <file.genPackage><endif> {
<if(namedActions.header)><namedActions.header><endif>
use Antlr\\Antlr4\\Runtime\\Atn\\ATN;
use Antlr\\Antlr4\\Runtime\\Atn\\ATNDeserializer;
use Antlr\\Antlr4\\Runtime\\Atn\\ParserATNSimulator;
use Antlr\\Antlr4\\Runtime\\Dfa\\DFA;
use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\FailedPredicateException;
use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\NoViableAltException;
use Antlr\\Antlr4\\Runtime\\PredictionContexts\\PredictionContextCache;
use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\RecognitionException;
use Antlr\\Antlr4\\Runtime\\RuleContext;
use Antlr\\Antlr4\\Runtime\\Token;
use Antlr\\Antlr4\\Runtime\\TokenStream;
use Antlr\\Antlr4\\Runtime\\Vocabulary;
use Antlr\\Antlr4\\Runtime\\VocabularyImpl;
use Antlr\\Antlr4\\Runtime\\RuntimeMetaData;
use Antlr\\Antlr4\\Runtime\\Parser;
<if(namedActions.definitions)><namedActions.definitions><endif>

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

<if(parser.rules)>
public const <parser.rules>:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
<endif>

/**
 * @var array<string>
 */
public const RULE_NAMES = [
<parser.ruleNames>:{r | '<r>'}; separator=", ", wrap, anchor>
];

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

<atn>

```

```

protected static $atn;
protected static $decisionToDFA;
protected static $sharedContextCache;
<if(namedActions.members)>

<namedActions.members>
<endif>

<parser:(ctor())>

private static function initialize() : void
{
    if (self::$atn !== null) {
        return;
    }

    RuntimeMetaData::checkVersion('<file.ANTLRVersion>', RuntimeMetaData::VERSION);

    $atn = (new ATNDeserializer()->deserialize(self::SERIALIZED_ATN);

    $decisionToDFA = [];
    for ($i = 0, $count = $atn->getNumberOfDecisions(); $i < $count; $i++) {
        $decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
    }

    self::$atn = $atn;
    self::$decisionToDFA = $decisionToDFA;
    self::$sharedContextCache = new PredictionContextCache();
}

public function getGrammarFileName() : string
{
    return "<parser.grammarFileName>";
}

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

public function getSerializedATN() : string
{
    return self::SERIALIZED_ATN;
}

public function getATN() : ATN
{

```

```

    return self::$satn;
}

public function getVocabulary() : Vocabulary
{
    static $vocabulary;

    return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES, self::SYMBOLIC_NAMES);
}
<endif(funcs)>

<funcs; separator="\n\n">
<endif>
<if(sempredFuncs)>

public function sempred(?RuleContext $localContext, int $ruleIndex, int $predicateIndex) : bool
{
    switch ($ruleIndex) {
    <parser.sempredFuncs.values: {f}
    case <f.ruleIndex>:
        return $this->sempred<f.name; format="cap">($localContext, $predicateIndex);; separator="\n\n">

    default:
        return true;
    }
}

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

namespace <if(file.genPackage)><file.genPackage>\\<endif>Context {
    use Antlr\\Antlr4\\Runtime\\ParserRuleContext;
    use Antlr\\Antlr4\\Runtime\\Token;
    use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeVisitor;
    use Antlr\\Antlr4\\Runtime\\Tree\\TerminalNode;
    use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeListener;
    use <if(file.genPackage)><file.genPackage>\\<endif><parser.name>;
    <if (file.genVisitor)>use <if(file.genPackage)><file.genPackage>\\<endif><file.grammarName>Visitor;<endif>
    <if (file.genListener)>use <if(file.genPackage)><file.genPackage>\\<endif><file.grammarName>Listener;<endif>
    <namedActions.contexts>

    <funcs :{ func | <func.ruleCtx><if(func.altLabelCtxs)>

    <func.altLabelCtxs: {1 | <func.altLabelCtxs.(1)>}; separator="\n\n"><endif> }; separator="\n\n">
    }
}>>

```

```

vocabulary(literalNames, symbolicNames) ::= <<
/**
 * @var array<string|null>
 */
private const LITERAL_NAMES = [
  <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
];

/**
 * @var array<string>
 */
private const SYMBOLIC_NAMES = [
  <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
];
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>

public function action(?RuleContext $localContext, int $ruleIndex, int $actionIndex) : void
{
  switch ($ruleIndex) {
    <recog.actionFuncs.values:{f}
    case <f.ruleIndex>:
      $this->action<f.name; format="cap">($localContext, $actionIndex);
      break;}; separator="\n\n">
  }
}

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

public function sempred(?RuleContext $localContext, int $ruleIndex, int $predicateIndex) : bool
{
  switch ($ruleIndex) {
    <recog.sempredFuncs.values:{f}
    case <f.ruleIndex>:
      return $this->sempred<f.name; format="cap">($localContext, $predicateIndex);}; separator="\n\n">
  }

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

```

```

parser_ctor(p) ::= <<
public function __construct(TokenStream $input)
{
    parent::__construct($input);

    self::initialize();

    $this->interp = new ParserATNSimulator($this, self::$atn, self::$decisionToDFA, self::$sharedContextCache);
}
>>

/**
 * This generates a private method since the actionIndex is generated, making
 * an overriding implementation impossible to maintain.
 */
RuleActionFunction(r, actions) ::= <<
private function action<r.name; format="cap">(?<r.ctxType> $localContext, int $actionIndex) : void
{
    switch ($actionIndex) {
        <actions:{index|
        case <index>:
            <actions.(index)>

            break;}; separator="\n\n">
    }
}
>>

/**
 * This generates a private method since the predicateIndex is generated, making
 * an overriding implementation impossible to maintain.
 */
RuleSempredFunction(r, actions) ::= <<
private function sempred<r.name; format="cap">(Context\<r.ctxType> $localContext, int $predicateIndex) : bool
{
    switch ($predicateIndex) {
        <actions:{index|
        case <index>:
            return <actions.(index)>}; separator="\n\n">
    }

    return true;
}
>>

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

```

```

* @throws RecognitionException
*/
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function <currentRule.name>(<args;
separator=", ">) : Context\<currentRule.ctxType>
{
    $localContext = new Context\<currentRule.ctxType>($this->ctx, $this->getState()<currentRule.args:{a | ,
$a.name}>>);

    $this->enterRule($localContext, <currentRule.startState>, self::RULE_<currentRule.name>);
    <namedActions.init>
    <locals; separator="\n">

    try {
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    }<if(exceptions)><exceptions; separator="\n"><else> catch (RecognitionException $exception) {
        $localContext->exception = $exception;
        $this->errorHandler->reportError($this, $exception);
        $this->errorHandler->recover($this, $exception);
    }<endif> finally {
        <finallyAction>
        $this->exitRule();
    }

    return $localContext;
}
>>

```

```

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

```

```

/**

```

```

* @throws RecognitionException

```

```

*/

```

```

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function <currentRule.name>(<args;
separator=", ">) : Context\<currentRule.ctxType>

```

```

{

```

```

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

```

```

}

```

```

/**

```

```

* @throws RecognitionException

```

```

*/

```

```

private function recursive<currentRule.name; format="cap">(int $precedence<args:{a | , <a>}>) :
Context\<currentRule.ctxType>

```

```

{

```

```

    $parentContext = $this->ctx;

```

```

    $parentState = $this->getState();

```

```

$localContext = new Context(\<currentRule.ctxType>($this->ctx, $parentState<currentRule.args: {a | ,
<a.name>}>);
$previousContext = $localContext;
$startState = <currentRule.startState>;
$this->enterRecursionRule($localContext, <currentRule.startState>, self::RULE_<currentRule.name>,
$precedence);
<namedActions.init>
<locals; separator="\n">

try {
<code>
<postamble; separator="\n">
<namedActions.after>
} catch (RecognitionException $exception) {
$localContext->exception = $exception;
$this->errorHandler->reportError($this, $exception);
$this->errorHandler->recover($this, $exception);
} finally {
<finallyAction>
$this->unrollRecursionContexts($parentContext);
}

return $localContext;
}
>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>$localContext = new
Context(\<currentOuterMostAltCodeBlock.altLabel; format="cap">Context($localContext);<endif>
$this->enterOuterAlt($localContext, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

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

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>
<preamble; separator="\n">

switch ($this->input->LA(1)) {
<choice.altLook,alts: {look,alt| <cases(ttypes=look)>
<alt>

```



```
break;}; separator="\n\n">
```

```
default:
```

```
<error>
```

```
}
```

```
>>
```

```
LL1OptionalBlock(choice, alts, error) ::= <<
```

```
$this->setState(<choice.stateNumber>);
```

```
$this->errorHandler->sync($this);
```

```
switch ($this->input->LA(1)) {
```

```
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
```

```
<alt>
```

```
break;}; separator="\n\n">
```

```
default:
```

```
break;
```

```
}
```

```
>>
```

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

```
$this->setState(<choice.stateNumber>);
```

```
$this->errorHandler->sync($this);
```

```
<preamble; separator="\n">
```

```
if (<expr>) {
```

```
<alts; separator="\n">
```

```
}
```

```
>>
```

```
LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
```

```
$this->setState(<choice.stateNumber>);
```

```
$this->errorHandler->sync($this);
```

```
<preamble; separator="\n">
```

```
while (<loopExpr>) {
```

```
<alts; separator="\n">
```

```
$this->setState(<choice.loopBackStateNumber>);
```

```
$this->errorHandler->sync($this);
```

```
<iteration>
```

```
}
```

```
>>
```

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

```
$this->setState(<choice.blockStartStateNumber>); <! alt block decision !>
```

```
$this->errorHandler->sync($this);
```

```

<preamble; separator="\n">
do {
  <alts; separator="\n">
  $this->setState(<choice.stateNumber>); <! loopback/exit decision !>
  $this->errorHandler->sync($this);
  <iteration>
} while (<loopExpr>);
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>
<preamble; separator="\n">

switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {
  <alts:{ alt |
case <i>:
  <alt>
break; }; separator="\n\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {
<alts:{ alt |
  case <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
break; }; separator="\n\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

$alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);

while ($alt !== <choice.exitAlt> && $alt !== ATN::INVALID_ALT_NUMBER) {
  if ($alt === 1<if(!choice.ast.greedy)>+1<endif>) {
    <iteration>
    <alts> <! should only be one !>
  }
}

```

```

$this->setState(<choice.loopBackStateNumber>);
$this->errorHandler->sync($this);

    $alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
    }
    >>

PlusBlock(choice, alts, error) ::= <<
$this->setState(<choice.blockStartStateNumber>); <! alt block decision !>
$this->errorHandler->sync($this);

    $alt = 1<if(!choice.ast.greedy)>+1<endif>;

do {
    switch ($alt) {
    <alts:{alt|
    case <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
    break;}; separator="\n\n">
    default:
    <error>
    }
}

$this->setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
$this->errorHandler->sync($this);

    $alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
    } while ($alt !== <choice.exitAlt> && $alt !== ATN::INVALID_ALT_NUMBER);
    >>

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

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

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

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

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> && ((1 \<< <offsetShiftVar(s.varName,

```

```

bits.shift>> & (<bits.ttypes:{ttype | (1 \<< <offsetShiftConst(ttype, bits.shift)>>)}; separator=" | ">>) !== 0)
%>

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

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

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

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

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

InvokeRule(r, argExprsChunks) ::= <<
$this->setState(<r.stateNumber>);
<if(r.labels)><r.labels:{1 | <labelref(1)> = }><endif>$this-><if(r.ast.options.p)>recursive<r.name>;
format="cap"><else><r.name><endif>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif>
<argExprsChunks>);
>>

MatchToken(m) ::= <<
$this->setState(<m.stateNumber>);
<if(m.labels)><m.labels:{1 | <labelref(1)> = }><endif>$this->match(self::<m.name>);
>>

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

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

CommonSetStuff(m, expr, capture, invert) ::= <<
$this->setState(<m.stateNumber>);

<if(m.labels)><m.labels:{1 | <labelref(1)> = }>$this->input->LT(1);<endif>
<capture>

if (<if(invert)>$<m.varName> \<= 0 || <else>!<endif>(<expr>)) {
    <if(m.labels)><m.labels:{1 | <labelref(1)> = }><endif>$this->errorHandler->recoverInline($this);
}

```

```

} else {
if ($this->input->LA(1) === Token::EOF) {
    $this->matchedEOF = true;
}

$this->errorHandler->reportMatch($this);
$this->consume();
}
>>

Wildcard(w) ::= <<
$this->setState(<w.stateNumber>);
<if(w.labels)><w.labels:{1 | <labelref(1)> = }><endif>$this->matchWildcard();
>>

// ACTION STUFF

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

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

SemPred(p, chunks, failChunks) ::= <<
$this->setState(<p.stateNumber>);

if (!(<chunks>)) {
    throw new FailedPredicateException($this, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
    <p.msg><endif>);
}
>>

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

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "$this->skip();"
LexerMoreCommand() ::= "$this->more();"
LexerPopModeCommand() ::= "$this->popMode();"

LexerTypeCommand(arg, grammar) ::= "$this->type = <arg>);"
LexerChannelCommand(arg, grammar) ::= "$this->channel = <arg>);"
LexerModeCommand(arg, grammar) ::= "$this->mode = <arg>);"
LexerPushModeCommand(arg, grammar) ::= "$this->pushMode(<arg>);"

ActionText(t) ::= "<t.text>"

```

```

ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "$localContext-><a.name>"
LocalRef(a) ::= "$localContext-><a.name>"
RetValRef(a) ::= "$localContext-><a.name>"
QRetValRef(a) ::= "<ctx(a)-><a.dict-><a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)-><t.name>"
LabelRef(t) ::= "<ctx(t)-><t.name>"
ListLabelRef(t) ::= "<ctx(t)-><ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)-><s.name> = <rhsChunks>";

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

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

RulePropertyRef_start(r) ::= "(<ctx(r)-><r.label> != null ? (<ctx(r)-><r.label->start) : null)"
RulePropertyRef_stop(r) ::= "(<ctx(r)-><r.label> != null ? (<ctx(r)-><r.label->stop) : null)"
RulePropertyRef_text(r) ::= "(<ctx(r)-><r.label> != null ? $this->input->getTextByTokens(<ctx(r)-><r.label->start, <ctx(r)-><r.label->stop) : null)"
RulePropertyRef_ctx(r) ::= "<ctx(r)-><r.label>"
RulePropertyRef_parser(r) ::= "\$this"

ThisRulePropertyRef_start(r) ::= "$localContext->start"
ThisRulePropertyRef_stop(r) ::= "$localContext->stop"
ThisRulePropertyRef_text(r) ::= "$this->input->getTextByTokens($localContext->start, $this->input->LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "$localContext"
ThisRulePropertyRef_parser(r) ::= "$this"

NonLocalAttrRef(s) ::= "\$this->getInvokingContext(<s.ruleIndex>)-><s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "\$this->getInvokingContext(<s.ruleIndex>)-><s.name> = <rhsChunks>";

AddToLabelList(a) ::= "<ctx(a.label)-><a.listName>[] = <labelref(a.label)>";

TokenDecl(t) ::= "<TokenLabelType()> $<t.name>"
TokenTypeDecl(t) ::= ""
TokenListDecl(t) ::= "array $<t.name> = []"
RuleContextDecl(r) ::= "<r.ctxName> $<r.name>"
RuleContextListDecl(rdecl) ::= "array $<rdecl.name> = []"
AttributeDecl(d) ::= "<d.type> $<d.name><if(d.initValue)> = <d.initValue><endif>"

PropertiesDecl(struct) ::= <<

```

```

<if(struct.tokenListDecls)>
  <struct.tokenListDecls : {d | /**
  * @var array<Token>|null $<d.name>
  */
  public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.tokenDecls)>
<if(struct.tokenListDecls)>

<endif>
  <struct.tokenDecls : {d | /**
  * @var <TokenLabelType()>|null $<d.name>
  */
  public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.ruleContextDecls)>
<if(struct.tokenListDecls || struct.tokenDecls)>

<endif>
  <struct.ruleContextDecls : {d | /**
  * @var <d.ctxName>|null $<d.name>
  */
  public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.ruleContextListDecls)>
<if(struct.tokenListDecls || struct.tokenDecls || struct.ruleContextDecls)>

<endif>
  <struct.ruleContextListDecls : {d | /**
  * @var array<<d.ctxName>>|null $<d.name>
  */
  public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.attributeDecls)>
<if(struct.tokenListDecls || struct.tokenDecls || struct.ruleContextDecls || struct.ruleContextListDecls)>

<endif>
  <struct.attributeDecls : {d | /**
  * @var <d.type><if(!d.initValue)>|null<endif> $<d.name>
  */
  public $<d.name><if(d.initValue)> = <d.initValue><endif>;}; separator="\n\n">
<endif>

>>

ContextTokenGetterDecl(t) ::= <<
public function <t.name>() : ?TerminalNode
{

```

```

    return $this->getToken(<parser.name>::<t.name>, 0);
}
>>

ContextTokenListGetterDecl(t) ::= <<
>>

ContextTokenListIndexedGetterDecl(t) ::= <<
/**
 * @return array<TerminalNode>|TerminalNode|null
 */
public function <t.name>(int $index = null)
{
    if ($index === null) {
        return $this->getTokens(<parser.name>::<t.name>);
    }

    return $this->getToken(<parser.name>::<t.name>, $index);
}
>>

ContextRuleGetterDecl(r) ::= <<
public function <r.name>() : ?<r.ctxName>
{
    return $this->getTypedRuleContext(<r.ctxName>::class, 0);
}
>>

ContextRuleListGetterDecl(r) ::= <<
>>

ContextRuleListIndexedGetterDecl(r) ::= <<
/**
 * @return array<<r.ctxName>>|<r.ctxName>|null
 */
public function <r.name>(int $index = null)
{
    if ($index === null) {
        return $this->getTypedRuleContexts(<r.ctxName>::class);
    }

    return $this->getTypedRuleContext(<r.ctxName>::class, $index);
}
>>

LexerRuleContext() ::= "RuleContext"

/**

```


* The rule context name is the rule followed by a suffix; e.g., r becomes rContext.

*/

```
RuleContextNameSuffix() ::= "Context"
```

```
ImplicitTokenLabel(tokenName) ::= "<tokenName>"
```

```
ImplicitRuleLabel(ruleName) ::= "<ruleName>"
```

```
ImplicitSetLabel(id) ::= "_tset<id>"
```

```
ListLabelName(label) ::= "<label>"
```

```
CaptureNextToken(d) ::= "$<d.varName> = \${this->input->LT(1)};"
```

```
CaptureNextTokenType(d) ::= "$<d.varName> = \${this->input->LA(1)};"
```

```
StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers) ::= <<
```

```
class <struct.name> extends
```

```
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
```

```
<interfaces; separator=", "><endif>
```

```
{
```

```
<PropertiesDecl(struct)>
```

```
public function __construct(?ParserRuleContext $parent, ?int $invokingState = null<ctorAttrs:{a | , ?<a> = null}>)
```

```
{
```

```
parent::__construct($parent, $invokingState);
```

```
<if(struct.ctorAttrs)>
```

```
<struct.ctorAttrs:{a | \${this-><a.name> = \${<a.name>} ?? \${this-><a.name>};}; separator="\n">
```

```
<endif>
```

```
}
```

```
public function getRuleIndex() : int
```

```
{
```

```
return <parser.name>::RULE_<struct.derivedFromName>;
```

```
}
```

```
<if(getters)>
```

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

```
<endif>
```

```
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
```

```
public function copyFrom(ParserRuleContext $context) : void
```

```
{
```

```
parent::copyFrom($context);
```

```
<struct.attrs:{a | \${this-><a.name> = \${<context-><a.name>};}; separator="\n">
```

```
}
```

```
<endif>
```

```
<if(dispatchMethods)>
```

```
<dispatchMethods; separator="\n\n">
```

```
<endif>
```

```
<if(extensionMembers)>
```

```

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

```

```

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
class <struct.name> extends <struct.parentRule; format="cap">Context
{
<PropertiesDecl(struct)>
public function __construct(<struct.parentRule; format="cap">Context $context)
{
    parent::__construct($context);

    $this->copyFrom($context);
}
<if(getters)>

```

```

    <getters:{g | <g>}; separator="\n\n">
<endif>
<if(dispatchMethods)>

```

```

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

```

```

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

```

```

VisitorDispatchMethod(method) ::= <<
public function accept(ParseTreeVisitor $visitor)
{
    if ($visitor instanceof <parser.grammarName>Visitor) {
        return $visitor->visit<struct.derivedFromName; format="cap">($this);
    }

    return $visitor->visitChildren($this);
}
>>

```

```

/** If we don't know location of label def x, use this template */

```

```

labelref(x) ::= "<if(!x.isLocal)>$localContext-><endif><x.name>"

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

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "\$this->precpred(\$this->ctx, <opPrec>)"

recRuleSetReturnAction(src,name) ::= "\$<name> = \$<src-><name>;"

recRuleSetStopToken()          ::= "\$this->ctx->stop = \$this->input->LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
$localContext = new Context\\<ctxName>Context($parentContext, $parentState);
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
<else>
$localContext-><label> = $previousContext;
<endif>
<endif>

$this->pushNewRecursionContext($localContext, $startState, self::RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
$localContext = new Context\\<currentAltLabel; format="cap">Context(new Context\\<ruleName;
format="cap">Context($parentContext, $parentState));
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
<else>
$localContext-><label> = $previousContext;
<endif>
<endif>

$this->pushNewRecursionContext($localContext, $startState, self::RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
$localContext = new Context\\<ctxName>Context($localContext);
$this->ctx = $localContext;
$previousContext = $localContext;
>>

recRuleSetPrevCtx() ::= <<
if ($this->getParseListeners() !== null) {
    $this->triggerExitRuleEvent();
}

```

```

}

$previousContext = $localContext;
>>

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
namespace<if(lexerFile.genPackage)> <lexerFile.genPackage><endif> {
<if(namedActions.header)><namedActions.header><endif>
use Antlr\Antlr4\Runtime\Atn\ATNDeserializer;
use Antlr\Antlr4\Runtime\Atn\LexerATNSimulator;
use Antlr\Antlr4\Runtime\Lexer;
use Antlr\Antlr4\Runtime\CharStream;
use Antlr\Antlr4\Runtime\PredictionContexts\PredictionContextCache;
use Antlr\Antlr4\Runtime\RuleContext;
use Antlr\Antlr4\Runtime\Atn\ATN;
use Antlr\Antlr4\Runtime\Dfa\DFA;
use Antlr\Antlr4\Runtime\Vocabulary;
use Antlr\Antlr4\Runtime\RuntimeMetaData;
use Antlr\Antlr4\Runtime\VocabularyImpl;
<if(namedActions.definitions)><namedActions.definitions><endif>

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

<if(lexer.channels)>
public const <lexer.channels:{c | <c> = <lexer.channels.(c)>}; separator=", ", wrap, anchor>;
<endif>

<if(rest(lexer.modes))>
public const <rest(lexer.modes){m | <m>=<i>}; separator=", ", wrap, anchor>;
<endif>

/**
 * @var array<string>
 */
public const CHANNEL_NAMES = [
'DEFAULT_TOKEN_CHANNEL', 'HIDDEN'<if (lexer.channels)>, <lexer.channels:{c | <c>}; separator=", ",
wrap, anchor><endif>
];

```

```

/**
 * @var array<string>
 */
public const MODE_NAMES = [
<lexer.modes:{m|'<m>'}; separator=", ", wrap, anchor>
];

/**
 * @var array<string>
 */
public const RULE_NAMES = [
<lexer.ruleNames:{r|'<r>'}; separator=", ", wrap, anchor>
];

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

<atn>
protected static $atn;
protected static $decisionToDFA;
protected static $sharedContextCache;
<if(namedActions.members)>

<namedActions.members>
<endif>

public function __construct(CharStream $input)
{
parent::__construct($input);

self::initialize();

$this->interp = new LexerATNSimulator($this, self::$atn, self::$decisionToDFA, self::$sharedContextCache);
}

private static function initialize() : void
{
{
if (self::$atn !== null) {
return;
}

RuntimeMetaData::checkVersion('<lexerFile.ANTLRVersion>', RuntimeMetaData::VERSION);

$atn = (new ATNDeserializer()->deserialize(self::SERIALIZED_ATN);

$decisionToDFA = [];
for ($i = 0, $count = $atn->getNumberOfDecisions(); $i < $count; $i++) {
$decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
}
}
}

```

```

}

self::$atn = $atn;
self::$decisionToDFA = $decisionToDFA;
self::$sharedContextCache = new PredictionContextCache();
}

public static function vocabulary() : Vocabulary
{
    static $vocabulary;

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

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

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

public function getSerializedATN() : string
{
    return self::SERIALIZED_ATN;
}

/**
 * @return array<string>
 */
public function getChannelNames() : array
{
    return self::CHANNEL_NAMES;
}

/**
 * @return array<string>
 */
public function getModeNames() : array
{
    return self::MODE_NAMES;
}

public function getATN() : ATN
{
    return self::$atn;
}

```

```

}

public function getVocabulary() : Vocabulary
{
    return self::vocabulary();
}
<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
}
}
>>

SerializedATN(model) ::= <<
<if(rest(model.segments))>
/**
 * @var string
 */
private const SERIALIZED_ATN =
    <model.segments:{segment| "<segment; wrap={ " .<n>" }>"}; separator=" .\n">;
<else>
/**
 * @var string
 */
private const SERIALIZED_ATN =
    "<model.serialized; wrap={ " .<n>  " }>";
<endif>
>>

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

codeFileExtension() ::= ".php"

```

Found in path(s):

```

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/tool/templates/codegen/PHP/PHP.stg

```

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- */

```
tree grammar BlockSetTransformer;
options {
    language = Java;
    tokenVocab = ANTLRParser;
    ASTLabelType = GrammarAST;
    output = AST;
    filter = true;
}

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

@members {
public String currentRuleName;
```



```

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

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

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

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

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

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

```

```

^(BLOCK ^(ALT elementOptions? setElement[inLexer]) ( ^(ALT elementOptions? setElement[inLexer]) )+
-> ^(SET[$BLOCK.token, "SET"] setElement+)
;

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

```

```

elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;

```

```

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

```

Found in path(s):

```

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/parse/BlockSetTransformer.g

```

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* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

```

```

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

```

```

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

```

```

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

```

```

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

```

```

# encoding: utf-8

```

```

from __future__ import print_function

```

```

from antlr4 import *

```

```

from io import StringIO

```

```

import sys

```

```

<namedActions.header>

```

```

<parser>

```

```

>>

```

```

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

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

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

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

}; separator="\n">

>>

```

```

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

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

class <file.grammarName>Visitor(ParseTreeVisitor):

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

}; separator="\n">

>>

```

```

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

```

```

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

```

>>

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

<endif>
<atn>

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

    grammarFileName = "<parser.grammarFileName>"

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

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

    sharedContextCache = PredictionContextCache()

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

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

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

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

    EOF = <TokenLabelType().EOF

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

    <parser:(ctor)()>

    <namedActions.members>

    <funcs; separator="\n">

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

```

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

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

>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx, ruleIndex, actionIndex):
    if self._actions is None:
        actions = dict()
<recog.actionFuncs.values:{f|
    actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
    self._actions = actions
    action = self._actions.get(ruleIndex, None)
    if action is not None:
        action(localctx, actionIndex)
    else:
        raise Exception("No registered action for:" + str(ruleIndex))

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

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

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

```

```

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

>>

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

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

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

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

<ruleCtx>

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

```

```

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

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

```

```
>>
```

```

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

```

```
<<
```

```

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

```

```

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

```



```

        self._errHandler.reportError(self, re)
        self._errHandler.recover(self, re)
    finally:
        <finallyAction>
        self.unrollRecursionContexts(_parentctx)
    return localctx

>>

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

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

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
    <alt>
    pass}; separator="\n1">
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="\n1">
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="\nел">
```

```
>>
```

```
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="\nел">
```

```
>>
```

```
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="\nел">  
else:  
  <error>  
self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>  
self._errHandler.sync(self)  
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
```

```
>>
```

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

```

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

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

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

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

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

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

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

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

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

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

MatchToken(m) ::= <<

```

```

self.state = <m.stateNumber>
<if(m.labels)><m.labels:{1 | <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:{1 | <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:{1 | <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:{1 | <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>"
RetValRef(a) ::= "localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

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

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

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

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

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

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

TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>"

```

```

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

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

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

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

ContextRuleGetterDecl(r) ::= <<
def <r.name>(self):
    return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)

>>

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

>>

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

>>

LexerRuleContext() ::= "RuleContext"

```

```

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

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

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

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

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

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

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

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

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

>>

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

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

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

```



```

    <dispatchMethods; separator="\n">

>>

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

>>

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

>>

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

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

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

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

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

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

```

```

<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

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

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

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

<namedActions.header>

<lexer>
>>

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

<endif>

<atn>

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

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

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

```

```

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

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

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

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

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

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

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

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

  grammarFileName = u"<lexer.grammarFileName>"

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

  <namedActions.members>

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

>>

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

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

```

>>

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

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

Found in path(s):

```
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg
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```

```
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 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */
```

```
tree grammar SourceGenTriggers;
options {
```

```

language = Java;
tokenVocab = ANTLRParser;
ASTLabelType = GrammarAST;
}

```

```

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

```

```

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

```

```

dummy : block[null, null] ;

```

```

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

```

```

alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]

```

```

@init {

```

```

    boolean outerMost = inContext("RULE BLOCK");
}
@after {
    controller.finishAlternative($altCodeBlock, $ops, outerMost);
}
: a=alt[outerMost] {$altCodeBlock=$a.altCodeBlock; $ops=$a.ops;}
;

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

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

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

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

subrule returns [List<? extends SrcOp> omos]
: ^(OPTIONAL b=block[null,$OPTIONAL])
{
    $omos = $block.omos;
}

```

```

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

blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
: ^(SET atom[label,invert]+) {$somos = controller.set($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[$label, true]) {$somos = $a.omos;}
| range[label]    {$somos = $range.omos;}
| ^(DOT ID terminal[$label])
| ^(DOT ID ruleref[$label])
| ^(WILDCARD .)    {$somos = controller.wildcard($WILDCARD, $label);}
| WILDCARD        {$somos = controller.wildcard($WILDCARD, $label);}
| terminal[label]  {$somos = $terminal.omos;}
| ruleref[label]  {$somos = $ruleref.omos;}
| blockSet[$label, invert] {$somos = $blockSet.omos;}
;

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

```

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

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

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

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

Found in path(s):

```
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/SourceGenTriggers.g
```

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```
/*
```

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*/

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* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/parse/ATNBuilder.java

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* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/AttributeResolver.java

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/target/JavaScriptTarget.java

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/analysis/LeftRecursionDetector.java

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/ArgRef.java

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ast/RuleRefAST.java

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/decl/TokenDecl.java

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_int.java

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/SemPred.java

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ast/RuleElementAST.java

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ToolMessage.java

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_parser.java

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_index.java

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/target/SwiftTarget.java

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ast/GrammarASTWithOptions.java

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/LabelType.java

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/parse/ScopeParser.java

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/semantics/SymbolCollector.java

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-

jar/org/antlr/v4/codegen/model/decl/ContextRuleListIndexedGetterDecl.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/model/RuleFunction.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/semantics/RuleCollector.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/model/LabeledOp.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/model/Wildcard.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/automata/LexerATNFactory.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/model/decl/ContextRuleListGetterDecl.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/model/VisitorDispatchMethod.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ast/RangeAST.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/parse/v3TreeGrammarException.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/model/OptionalBlock.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/model/ThrowEarlyExitException.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/analysis/LeftRecursiveRuleTransformer.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ErrorMessageManager.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/model/decl/AltLabelStructDecl.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/tool/GrammarInterpreterRuleContext.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/model/chunk/ActionText.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/tool/BuildDependencyGenerator.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/automata/ATNVisitor.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/model/decl/RuleContextDecl.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/model/chunk/NonLocalAttrRef.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/gui/PostScriptDocument.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/OutputModelFactory.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/tool/ANTLRToolListener.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/CodeGenPipeline.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/model/RuleElement.java

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/Alternative.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/Target.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/AltBlock.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/LL1Choice.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/automata/TailEpsilonRemover.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/semantics/BlankActionSplitterListener.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/analysis/LeftRecursiveRuleAltInfo.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/AttributeDict.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/target/Python2Target.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/ArgAction.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_line.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_stop.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_text.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ast/PredAST.java
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* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/ActionTranslator.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_text.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/CodeGenerator.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/analysis/LeftRecursiveRuleAnalyzer.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/LL1PlusBlockSingleAlt.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/VisitorFile.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ast/PlusBlockAST.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ast/GrammarRootAST.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/parse/GrammarASTAdaptor.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/gui/Trees.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/gui/TreeTextProvider.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/target/CppTarget.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/SetAttr.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ast/TerminalAST.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/misc/Utils.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/target/GoTarget.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/decl/CodeBlock.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/StarBlock.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/decl/ContextTokenGetterDecl.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-

jar/org/antlr/v4/codegen/model/decl/AttributeDecl.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_start.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/automata/ParserATNFactory.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/Parser.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/model/chunk/TokenRef.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/misc/OrderedHashMap.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ANTLRMessage.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/target/PHPTarget.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/misc/FrequencySet.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/LexerGrammar.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/Grammar.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ast/BlockAST.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/tool/ast/GrammarASTErrorNode.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/model/LL1StarBlockSingleAlt.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/model/LL1OptionalBlock.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ast/GrammarAST.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/model/TestSetInline.java
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*/
```

```
tree grammar ATNBuilder;  
options {  
  language = Java;  
  tokenVocab = ANTLRParser;  
  ASTLabelType = GrammarAST;  
  // filter = true;  
}
```

```
// Include the copyright in this source and also the generated source
```

```
@header {
```

```
/*
```

```
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```

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```

```
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```

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*/
```

```
package org.antlr.v4.parse;  
import org.antlr.v4.tool.*;  
import org.antlr.v4.tool.ast.*;  
import org.antlr.v4.automata.ATNFactory;
```

```

}

@members {
    ATNFactory factory;
    public ATNBuilder(TreeNodeStream input, ATNFactory factory) {
        this(input);
        this.factory = factory;
    }
}

dummy : block[null] ; // avoid error about no start rule

ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {
    List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();
    int alt = 1;
    factory.setCurrentOuterAlt(alt);
}
: ^(BLOCK
    (^ (OPTIONS .*)?
    ( a=alternative
        {alts.add($a.p); factory.setCurrentOuterAlt(++alt);}
    )+
    )
    {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
;

block[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();}
: ^(BLOCK (^ (OPTIONS .*)? (a=alternative {alts.add($a.p);}))+
    {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
;

alternative returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> els = new ArrayList<ATNFactory.Handle>();}
: ^(LEXER_ALT_ACTION a=alternative lexerCommands
    {$p = factory.lexerAltCommands($a.p,$lexerCommands.p);}
| ^(ALT elementOptions? EPSILON)    {$p = factory.epsilon($EPSILON);}
| ^(ALT elementOptions? (e=element {els.add($e.p);}))+ {$p = factory.alt(els);}
;

lexerCommands returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> cmds = new ArrayList<ATNFactory.Handle>();}
: (c=lexerCommand {if ($c.cmd != null) cmds.add($c.cmd);}+
    {
        $p = factory.alt(cmds);
    }
;

```

```
lexerCommand returns [ATNFactory.Handle cmd]
: ^(LEXER_ACTION_CALL ID lexerCommandExpr)
  {$cmd = factory.lexerCallCommand($ID, $lexerCommandExpr.start);}
| ID
  {$cmd = factory.lexerCommand($ID);}
;
```

```
lexerCommandExpr
: ID
| INT
;
```

```
element returns [ATNFactory.Handle p]
: labeledElement {$p = $labeledElement.p;}
| atom {$p = $atom.p;}
| subrule {$p = $subrule.p;}
| ACTION {$p = factory.action((ActionAST)$ACTION);}
| SEMPRED {$p = factory.sempred((PredAST)$SEMPRED);}
| ^(ACTION .) {$p = factory.action((ActionAST)$ACTION);}
| ^(SEMPRED .) {$p = factory.sempred((PredAST)$SEMPRED);}
| ^(NOT b=blockSet[true]) {$p = $b.p;}
| LEXER_CHAR_SET {$p = factory.charSetLiteral($start);}
;
```

```
astOperand returns [ATNFactory.Handle p]
: atom {$p = $atom.p;}
| ^(NOT blockSet[true]) {$p = $blockSet.p;}
;
```

```
labeledElement returns [ATNFactory.Handle p]
: ^(ASSIGN ID element) {$p = factory.label($element.p);}
| ^(PLUS_ASSIGN ID element) {$p = factory.listLabel($element.p);}
;
```

```
subrule returns [ATNFactory.Handle p]
: ^(OPTIONAL block[$start]) {$p = $block.p;}
| ^(CLOSURE block[$start]) {$p = $block.p;}
| ^(POSITIVE_CLOSURE block[$start]) {$p = $block.p;}
| block[null] {$p = $block.p;}
;
```

```
blockSet[boolean invert] returns [ATNFactory.Handle p]
@init {List<GrammarAST> alts = new ArrayList<GrammarAST>();}
: ^(SET (setElement {alts.add($setElement.start);})+) {$p = factory.set($start, alts, $invert);}
;
```

```
/** Don't combine with atom otherwise it will build spurious ATN nodes */
```

```

setElement
: ^(STRING_LITERAL .)
| ^(TOKEN_REF .)
| STRING_LITERAL
| TOKEN_REF
| ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
| LEXER_CHAR_SET
;

atom returns [ATNFactory.Handle p]
: range {$p = $range.p;}
| ^(DOT ID terminal) {$p = $terminal.p;}
| ^(DOT ID ruleref) {$p = $ruleref.p;}
| ^(WILDCARD .) {$p = factory.wildcard($start);}
| WILDCARD {$p = factory.wildcard($start);}
| blockSet[false] {$p = $blockSet.p;}
| terminal {$p = $terminal.p;}
| ruleref {$p = $ruleref.p;}
;

ruleref returns [ATNFactory.Handle p]
: ^(RULE_REF ARG_ACTION? ^(ELEMENT_OPTIONS .*)) {$p = factory.ruleRef($RULE_REF);}
| ^(RULE_REF ARG_ACTION?) {$p = factory.ruleRef($RULE_REF);}
| RULE_REF {$p = factory.ruleRef($RULE_REF);}
;

range returns [ATNFactory.Handle p]
: ^(RANGE a=STRING_LITERAL b=STRING_LITERAL) {$p = factory.range($a,$b);}
;

terminal returns [ATNFactory.Handle p]
: ^(STRING_LITERAL .) {$p = factory.stringLiteral((TerminalAST)$start);}
| STRING_LITERAL {$p = factory.stringLiteral((TerminalAST)$start);}
| ^(TOKEN_REF ARG_ACTION .) {$p = factory.tokenRef((TerminalAST)$start);}
| ^(TOKEN_REF .) {$p = factory.tokenRef((TerminalAST)$start);}
| TOKEN_REF {$p = factory.tokenRef((TerminalAST)$start);}
;

elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;

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

```

;

Found in path(s):

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/parse/ATNBuilder.g

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*/

```
atn(startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
```

```
digraph ATN {
```

```
rankdir=LR;
```

```
<decisionRanks; separator="\n">
```

```
<states; separator="\n">
```

```
<edges; separator="\n">
```

```
}
```

```
>>
```

```
dfa(name, startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
```

```
digraph <name> {
```

```
<if(rankdir)>rankdir=<rankdir>;<endif>
```

```

<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>

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

edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

action-edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

epsilon-edge(src,label,target,arrowhead,transitionIndex,loopback=false) ::= <<
<src><if(transitionIndex)>p<transitionIndex><endif> -> <target> [fontname="Times-Italic",
label="&epsilon;"<if(loopback)>, style="dashed"<endif>];
>>

state(state, label, name, transitions) ::= <%
<name>[fontsize=11,
label="
    <! rest(transition) tests for decision states: these nodes have a non-empty set of transitions after the first one. !>
    <if(rest(transitions))>
        {
            <! Label on the left side of the record node. !>
            <label>
            |
            <! Named ports in order on right side of record node, no display text. !>
            {<transitions:{t|\<p<i0>>}; separator="|">}}
        <else>
            <label>
        <endif>
        "
    <if(rest(transitions))>
        , shape=record, fixedsize=false
    <else>
        , shape=circle, fixedsize=true, width=.55
    <endif>
    , peripheries=1];
%>

```

```
stopstate(name,label,actionIndex,useBox) ::= <<
<name>[fontsize=11, label="<label><if(actionIndex)>,\naction:<actionIndex><endif>",
<if(useBox)>shape=polygon,sides=4,peripheries=2,fixedsized=false<else>shape=doublecircle, fixedsized=true,
width=.6<endif>];
>>
```

Found in path(s):

```
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/tool/templates/dot/graphs.stg
```

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*/

/** templates used to generate make-compatible dependencies */

/** Generate "f : x, y, z" dependencies for input
* dependencies and generated files. in and out
* are File objects. For example, you can say
* <f.canonicalPath>
*/
```



```
dependencies(grammarFileName,in,out) ::= <<
<if(in)><grammarFileName>: <in; separator=", "><endif>
<out:{f | <f> : <grammarFileName>}; separator="\n">
>>
```

Found in path(s):

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*/
```

```
javaTypeInitMap ::= [
  "int": "0",
  "long": "0",
  "float": "0.0f",
  "double": "0.0",
  "boolean": "false",
  "byte": "0",
  "short": "0",
  "char": "0",
```

```

default:"null" // anything other than a primitive type is an object
]

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

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.atn.*;
import org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.misc.*;
import org.antlr.v4.runtime.tree.*;
import java.util.List;
import java.util.Iterator;
import java.util.ArrayList;

<parser>
>>

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

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

```

```

<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the { @code <lname>\}
* labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Exit a parse tree produced by { @link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
*/
void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);; separator="\n">
}
>>

```

```

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

```

```

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

```

```
/**
```

```

* This class provides an empty implementation of { @link <file.grammarName>Listener},
* which can be extended to create a listener which only needs to handle a subset
* of the available methods.

```

```
*/
```

```

public class <file.grammarName>BaseListener implements <file.grammarName>Listener {
<file.listenerNames: {lname |

```

```
/**
```

```

* { @inheritDoc\}

```

```
*
```

```

* \<p>The default implementation does nothing.\</p>

```

```
*/
```

```

@Override public void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}

```

```
/**
```

```

* { @inheritDoc\}

```

```
*
```

```

* \<p>The default implementation does nothing.\</p>

```

```
*/
```

```

@Override public void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \};
separator="\n">

```

```
/**
```

```

* { @inheritDoc\}

```

```
*
```

```

* \<p>The default implementation does nothing.\</p>

```

```

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

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

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

```

```

* @return the visitor result
*/
T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
}
>>

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

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

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

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

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

```

```

protected static final DFA[] _decisionToDFA;
protected static final PredictionContextCache _sharedContextCache =
    new PredictionContextCache();
<if(parser.tokens)>
public static final int
    <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
<endif>
<if(parser.rules)>
public static final int
    <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
<endif>
private static String[] makeRuleNames() {
    return new String[] {
        <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
    };
}
public static final String[] ruleNames = makeRuleNames();

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

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

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

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

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

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

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

```

```

<atn>
}
>>

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

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

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

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

@Override

```

```

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

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

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

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

```



```

break;}; separator="\n">
}
}
>>

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

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

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

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

```

```

<endif>
finally {
  <finallyAction>
  exitRule();
}
return _localctx;
}
>>

```

```

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

```

```

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

```

```

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

```

```

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

```

```
return _localctx;
}
>>
```

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

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

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

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

```
LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
```

```

<preamble; separator="\n">
if (<expr> ) {
  <alts; separator="\n">
}
<!else if ( !(<followExpr> ) <error>!>
>>

```

```

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

```

```

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

```

```

// LL(*) stuff

```

```

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

```

```

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

TestSetInline(s) ::= <<

```

```

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

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

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

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

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

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

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

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>);
<if(r.labels)><r.labels:{1 | <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:{1 | <labelref(l)> = }><endif>match(<m.name>);
>>

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

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

```

```

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{1 | <labelref(1)> = }>_input.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>)) {
  <if(m.labels)><m.labels:{1 | <labelref(1)> = (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:{1 | <labelref(1)> = }><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>"
RetValRef(a) ::= "_localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>;"

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

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

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

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

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

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

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

```



```

ContextTokenGetterDecl(t) ::=
    "public TerminalNode <t.name>() { return getToken(<parser.name>.<t.name>, 0); }"
ContextTokenListGetterDecl(t) ::=
    "public List<TerminalNode> <t.name>() { return getTokens(<parser.name>.<t.name>); }"
ContextTokenListIndexedGetterDecl(t) ::= <<
public TerminalNode <t.name>(int i) {
    return getToken(<parser.name>.<t.name>, i);
}
>>
ContextRuleGetterDecl(r) ::= <<
public <r.ctxName> <r.name>() {
    return getRuleContext(<r.ctxName>.class,0);
}
>>
ContextRuleListGetterDecl(r) ::= <<
public List<<r.ctxName>> <r.name>() {
    return getRuleContexts(<r.ctxName>.class);
}
>>
ContextRuleListIndexedGetterDecl(r) ::= <<
public <r.ctxName> <r.name>(int i) {
    return getRuleContext(<r.ctxName>.class,i);
}
>>

```

```

LexerRuleContext() ::= "RuleContext"

```

```

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */

```

```

RuleContextNameSuffix() ::= "Context"

```

```

ImplicitTokenLabel(tokenName) ::= "<tokenName>"

```

```

ImplicitRuleLabel(ruleName) ::= "<ruleName>"

```

```

ImplicitSetLabel(id) ::= "_tset<id>"

```

```

ListLabelName(label) ::= "<label>"

```

```

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

```

```

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

```

```

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers)

```

```

::= <<

```

```

public static class <struct.name> extends

```

```

<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements

```

```

<interfaces; separator=", "><endif> {

```

```

<attrs:{a | public <a>;}; separator="\n">

```

```

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

```

```

<if(ctorAttrs)>public <struct.name>(ParserRuleContext parent, int invokingState) { super(parent, invokingState);
}<endif>
public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{ a | , <a>}>) {
    super(parent, invokingState);
    <struct.ctorAttrs:{ a | this.<a.name> = <a.name>; separator="\n">
    }
    @Override public int getRuleIndex() { return RULE_<struct.derivedFromName>; }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
public <struct.name>() { }
public void copyFrom(<struct.name> ctx) {
    super.copyFrom(ctx);
    <struct.attrs:{ a | this.<a.name> = ctx.<a.name>; separator="\n">
    }
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">
}
>>

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

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

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

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

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

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

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

```

```

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
package <lexerFile.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.Lexer;
import org.antlr.v4.runtime.CharStream;
import org.antlr.v4.runtime.Token;
import org.antlr.v4.runtime.TokenStream;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.atn.*;
import org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.misc.*;

<lexer>
>>

```

```

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

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

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

```

```

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

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

<namedActions.members>

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

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

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

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

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

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

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

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

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

```

```

    },
    ""
);
<else>
<! only one segment, can be inlined !>
public static final String _serializedATN =
    "<model.serialized; wrap={"+<\n><\t>}>";
<endif>
public static final ATN _ATN =
    new ATNDeserializer().deserialize(_serializedATN.toCharArray());
static {
    _decisionToDFA = new DFA[_ATN.getNumberOfDecisions()];
    for (int i = 0; i < _ATN.getNumberOfDecisions(); i++) {
        _decisionToDFA[i] = new DFA(_ATN.getDecisionState(i), i);
    }
    <! org.antlr.v4.tool.DOTGenerator dot = new org.antlr.v4.tool.DOTGenerator(null);!>
    <! System.out.println(dot.getDOT(_ATN.decisionToState.get(0), ruleNames, false));!>
    <! System.out.println(dot.getDOT(_ATN.ruleToStartState[2], ruleNames, false));!>
}
>>

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

codeFileExtension() ::= ".java"

```

Found in path(s):

```
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/tool/templates/codegen/Java/Java.stg
```

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```
/*
```

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*/

/*

This file contains the actual layout of the messages emitted by ANTLR.

The text itself is coming out of the languages/*stg files, according to the chosen locale.

This file contains the format that mimicks GCC output.

*/

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

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

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

wantsSingleLineMessage() ::= "true"

Found in path(s):

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg

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*/

Found in path(s):

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/parse/ANTLRLexer.java

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Found in path(s):

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/META-

INF/maven/org/antlr/antlr4/pom.xml

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```

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*/

```

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

```

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

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

```

```

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

```

```
/// \<summary>
```

```
/// This interface defines a complete listener for a parse tree produced by
```

```
/// \<see cref="<csIdentifier.(file.parserName)>">.</>
```

```
/// \</summary>
```

```
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
```

```
[System.CLSCompliant(false)]
```

```
public interface I<file.grammarName>Listener : IParseTreeListener {
```

```

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

```

```

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

```

```

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

```

```

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

```

```

[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]

```

```

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

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

```

```

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

```

```

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

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

```

```

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

/// \<summary>

```

```

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

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

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

// Unreachable code detected

```

```

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

>>

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

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

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

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

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

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

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

    <namedActions.members>

```

```

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

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

<atn>
}
>>

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

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

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

```

```

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

```

```

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

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

```

```

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

```

```

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

```



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

```
::= <<
```

```
<if(ruleCtx)>
```

```
<ruleCtx>
```

```
<endif>
```

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

```
[RuleVersion(<namedActions.version; null="0">)]
```

```
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
```

```
<csIdentifier(currentRule.name)><(args; separator=", "> {
```

```
<currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
```

```
<csIdentifier(a.name)>>>);
```

```
EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
```

```
<namedActions.init>
```

```
<locals; separator="\n">
```

```
try {
```

```
<if(currentRule.hasLookaheadBlock)>
```

```
int _alt;
```

```
<endif>
```

```
<code>
```

```
<postamble; separator="\n">
```

```
<namedActions.after>
```

```
}
```

```
<if(exceptions)>
```

```
<exceptions; separator="\n">
```

```
<else>
```

```
catch (RecognitionException re) {
```

```
_localctx.exception = re;
```

```
ErrorHandler.ReportError(this, re);
```

```
ErrorHandler.Recover(this, re);
```

```
}
```

```
<endif>
```

```
finally {
```

```
<finallyAction>
```

```
ExitRule();
```

```
}
```

```
return _localctx;
```

```
}
```

```
>>
```

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

```
<<
```

```
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
```

```
<csIdentifier(currentRule.name)><(args; separator=", "> {
```

```
<currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
```

```
<csIdentifier(a.name)>>>);
```

```

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

```

// This behaves similar to RuleFunction (enterRule is called, and no adjustments
// are made to the parse tree), but since it's still a variant no context class
// needs to be generated.

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

// LL(*) stuff

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

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

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

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

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

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

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

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

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

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

```

```

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

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

Wildcard(w) ::= <<
State = <w.stateNumber>;
<if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>MatchWildcard();
>>

// ACTION STUFF

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

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

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

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

// lexer actions are not associated with model objects

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

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

```



```

LexerPushModeCommand(arg, grammar) ::= "PushMode(<modeName.(arg)>);"

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

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

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

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

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

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

```

```

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

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

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

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

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/

```

```
RuleContextNameSuffix() ::= "Context"
```

```
ImplicitTokenLabel(tokenName) ::= "_<tokenType.(tokenName)>"
```

```
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
```

```
ImplicitSetLabel(id) ::= "_tset<id>"
```

```
ListLabelName(label) ::= "_<label>"
```

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

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

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

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

```
ListenerDispatchMethod(method) ::= <<  
[System.Diagnostics.DebuggerNonUserCode]
```

```

public override void <if(method.isEnter)>Enter<else>Exit<endif>Rule(IParseTreeListener listener) {
    I<parser.grammarName>Listener typedListener = listener as I<parser.grammarName>Listener;
    if (typedListener != null) typedListener.<if(method.isEnter)>Enter<else>Exit<endif><struct.derivedFromName;
format="cap">(this);
}
>>

```

```

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

```

```

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

```

```

/** If we don't know location of label def x, use this template */

```

```

labelref(x) ::= "<if(!x.isLocal)><typedContext(x.ctx)>.<endif><csIdentifier.(x.name)>"

```

```

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

```

```

ctx(actionChunk) ::= "<typedContext(actionChunk.ctx)>"

```

```

// only casts _localctx to the type when the cast isn't redundant (i.e. to a sub-context for a labeled alt)

```

```

typedContext(ctx) ::= "<if(ctx.provideCopyFrom)>((<ctx.name>)_localctx)<else>_localctx<endif>"

```

```

// used for left-recursive rules

```

```

recRuleAltPredicate(ruleName,opPrec) ::= "Precpred(Context, <opPrec>)"

```

```

recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"

```

```

recRuleSetStopToken() ::= "Context.Stop = TokenStream.LT(-1);"

```

```

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<

```

```

    _localctx = new <ctxName>Context(_parentctx, _parentState);

```

```

    <if(label)>

```

```

    <if(isListLabel)>

```

```

        _localctx.<label>.Add(_prevctx);

```

```

    <else>

```

```

        _localctx.<label> = _prevctx;

```

```

    <endif>

```

```

    <endif>

```

```

    PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);

```

```

>>

```

```

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

```

```

    _localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
    _parentState));

```

```

    <if(label)>

```

```

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

```

```

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

```

```

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

```

```

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

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

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <csIdentifier.(lexer.name)> : <superClass; null="Lexer"> {
    protected static DFA[] decisionToDFA;
    protected static PredictionContextCache sharedContextCache = new PredictionContextCache();

```

```

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

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

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

<namedActions.members>

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

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

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

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

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

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

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

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

```

```

static <csIdentifier.(lexer.name)>() {
    decisionToDFA = new DFA[_ATN.NumberOfDecisions];
    for (int i = 0; i < _ATN.NumberOfDecisions; i++) {
        decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
    }
}
<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>
}
>>

```

```

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

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

```

```
>>
```

```

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

```

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

```

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

```

```

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

```

```

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

```

```

csIdentifier ::= [
    "abstract" : "@abstract",
    "as" : "@as",

```

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


```

"readonly" : "@readonly",
"ref" : "@ref",
"return" : "@return",
"sbyte" : "@sbyte",
"sealed" : "@sealed",
"short" : "@short",
"sizeof" : "@sizeof",
"stackalloc" : "@stackalloc",
"static" : "@static",
"string" : "@string",
"struct" : "@struct",
"switch" : "@switch",
"this" : "@this",
"throw" : "@throw",
>true" : "@true",
"try" : "@try",
"typeof" : "@typeof",
"uint" : "@uint",
"ulong" : "@ulong",
"unchecked" : "@unchecked",
"unsafe" : "@unsafe",
"ushort" : "@ushort",
"using" : "@using",
"virtual" : "@virtual",
"values" : "@values",
"void" : "@void",
"volatile" : "@volatile",
"while" : "@while",
default : key
]

```

Found in path(s):

```

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg

```

No license file was found, but licenses were detected in source scan.

```

/*

```

```

* [The "BSD license"]

```

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```

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```

```

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```

```

*

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*/

```
// File   : A3Lexer.g
// Author  : Jim Idle (jimi@temporal-wave.com)
// Copyright : Free BSD - See @header clause below
// Version  : First implemented as part of ANTLR 3.2 this is the self
//           hosting ANTLR 3 Lexer.
//
// Description
// -----
// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other
// grammars are derived from this grammar via source code control integration (perforce)
// or by the gdiff tool.
//
// This grammar and its associated grmmars 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
*
* Terence Parr
* University of San Francisco
* 2005
* Jim Idle (this v3 grammar)
* Temporal Wave LLC
* 2009
*/
lexer grammar ANTLRLexer;

// =====
// Note that while this grammar does not care about order of constructs
// that don't really matter, such as options before @header etc, it must first
// be parsed by the original v2 parser, before it replaces it. That parser does
// care about order of structures. Hence we are constrained by the v2 parser
// for at least the first bootstrap release that causes this parser to replace
// the v2 version.
// =====

// -----
// Options
//
// V3 option directives to tell the tool what we are asking of it for this
// grammar.
//
options {

// Target language is Java, which is the default but being specific
// here as this grammar is also meant as a good example grammar for
// for users.
//
language    = Java;

// The super class that this lexer should expect to inherit from, and
// which contains any and all support routines for the lexer. This is
// commented out in this baseline (definitive or normative grammar)

```

```
// - see the ANTLR tool implementation for hints on how to use the super
// class
//
//superclass = AbstractA3Lexer;
}
```

```
tokens { SEMPRED; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }
```

```
// Include the copyright in this source and also the generated source
```

```
//
```

```
@lexer::header {
```

```
/*
```

```
[The "BSD licence"]
```

```
Copyright (c) 2005-2009 Terence Parr
```

```
All rights reserved.
```

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```
*/
```

```
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.runtime.misc.Interval;
}
```

```
@members {
```

```
public static final int COMMENTS_CHANNEL = 2;
```

```
public CommonTokenStream tokens; // track stream we push to; need for context info
```

```

public boolean isLexerRule = false;

public void grammarError(ErrorType etype, org.antlr.runtime.Token token, Object... args) { }

/** scan backwards from current point in this.tokens list
 * looking for the start of the rule or subrule.
 * Return token or null if for some reason we can't find the start.
 */
public Token getRuleOrSubruleStartToken() {
    if ( tokens==null ) return null;
    int i = tokens.index();
    int n = tokens.size();
    if ( i>=n ) i = n-1; // seems index == n as we lex
    while ( i>=0 && i<n) {
        int ttype = tokens.get(i).getType();
        if ( ttype == LPAREN || ttype == TOKEN_REF || ttype == RULE_REF ) {
            return tokens.get(i);
        }
        i--;
    }
    return null;
}

// -----
// Comments
//
// ANTLR comments can be multi or single line and we don't care
// which particularly. However we also accept Javadoc style comments
// of the form: /** ... */ and we do take care to distinguish those
// from ordinary multi-line comments
// Note how we guide the lexical PATH because we want to issue a decriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We 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 accidentally
  // recognizing a comment /**/ as a documentation comment
  //
  /** (
    { input.LA(2) != '/' }?=> '*' { $type = DOC_COMMENT; }
    | { true }?=> // Required to cover all alts with predicates
  )

  // Should we support embedded multiline comments here?
  //
  (
    // Pick out end of multiline comment and exit the loop
    // if we find it.
    //
    { !(input.LA(1) == '*' && input.LA(2) == '/') }?

    // Anything else other than the non-greedy match of
    // the comment close sequence
    //
    .
  )*
)

// Look for the comment terminator, but if it is accidentally
// unterminated, then we will hit EOF, which will trigger the
// epsilon alt and hence we can issue an error message relative
// to the start of the unterminated multi-line comment
//
/*/'

| // Unterminated comment!
//

```

```

        {
            // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,
offset, $pos, (Object)null);
        }
    )

    |// There was nothing that made sense following the opening '/' and so
    // we issue an error regarding the malformed comment
    //
    {
        // TODO: Insert error message relative to comment start
        //
    }
)
{
    // We do not wish to pass the comments in to the parser. If you are
    // writing a formatter then you will want to preserve the comments off
    // channel, but could just skip and save token space if not.
    //
    $channel=COMMENTS_CHANNEL;
}
;

```

ARG_OR_CHARSET

```

options {k=1;}
: {isLexerRule}?=> LEXER_CHAR_SET {$type=LEXER_CHAR_SET;}
| {!isLexerRule}?=> ARG_ACTION
{
    $type=ARG_ACTION;
    // Set the token text to our gathered string minus outer [ ]
    String t = $text;
    t = t.substring(1,t.length()-1);
    setText(t);
}
;

```

fragment

LEXER_CHAR_SET

```

: '['
  ('\\' ~('\r'|\n)
  | ~('\r'|\n'|\\'|'])
)*
']'
;

```

```

// -----
// Argument specs
//

```

```

// Certain argument lists, such as those specifying call parameters
// to a rule invocation, or input parameters to a rule specification
// are contained within square brackets. In the lexer we consume them
// all at once and sort them out later in the grammar analysis.
//
fragment
ARG_ACTION
: '['
  (
    ARG_ACTION

    | ("")=>ACTION_STRING_LITERAL

    | ("\")=>ACTION_CHAR_LITERAL

    | ~('[!']')
  )*
  ']'
;

// -----
// Actions
//
// Other than making sure to distinguish between { and } embedded
// within what we have assumed to be literals in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by {}) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting {} is no additional overhead.
//
ACTION
: NESTED_ACTION
( '?' { $type = SEMPRED; }
( (WSNLCHARS* '=>') => WSNLCHARS* '=>' // v3 gated sempred
{
Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
t.setLine(state.tokenStartLine);
t.setText(state.text);
t.setCharPositionInLine(state.tokenStartCharPositionInLine);
grammarError(ErrorType.V3_GATED_SEMPRED, t);
}
)?
)?
;

// -----

```



```

// Action structure
//
// Many language targets use {} as block delimiters and so we
// must recursively match {} delimited blocks to balance the
// braces. Additionally, we must make some assumptions about
// literal string representation in the target language. We assume
// that they are delimited by ' or " and so consume these
// in their own alts so as not to 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'..\u02FF'
    | '\u0370'..\u037D'
    | '\u037F'..\u1FFF'

```

```

    | '\u200C'..'u200D'
    | '\u2070'..'u218F'
    | '\u2C00'..'u2FEF'
    | '\u3001'..'uD7FF'
    | '\uF900'..'uFDCF'
    | '\uFDF0'..'uFEFE'
    | '\uFF00'..'uFFFD'
; // ignores | [\u10000-\uEFFFF] ;

// -----
// Literals embedded in actions
//
// Note that we have made the assumption that the language used within
// actions uses the fairly standard " and ' delimiters for literals and
// that within these literals, characters are escaped using the \ character.
// There are some languages which do not conform to this in all cases, such
// as by using /string/ and so on. We will have to deal with such cases if
// if they come up in targets.
//
// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal characters. Within these, we do
// not want to 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.setCharacterPositionInLine(state.tokenStartCharPositionInLine);
        grammarError(ErrorType.UNTERMINATED_STRING_LITERAL, t);
    }
  )
;

```

```

// A valid hex digit specification
//
fragment
HEX_DIGIT : ('0'..'9'|'a'..'f'|'A'..'F') ;

// Any kind of escaped character that we can embed within ANTLR
// literal strings.
//
fragment
ESC_SEQ
: '\\'
(
    // The standard escaped character set such as tab, newline, etc...
    'b'|'t'|'n'|'f'|'r'|'\''|'\"'

    | // A Java style Unicode escape sequence
    UNICODE_ESC

    | // A Swift/Hack style Unicode escape sequence
    UNICODE_EXTENDED_ESC

    | // An illegal escape 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));
    }
)
;

fragment
UNICODE_ESC
@init {

    // Flag to tell us whether we have a valid number of
    // hex digits in the escape sequence
    //
    int hCount = 0;
}
: 'u' // Leadin for unicode escape sequence

    // We now require 4 hex digits. Note though
    // that we accept any number of characters
    // and issue an error if we do not get 4. We cannot

```

```

// use an 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++; }
            (
                // Four valid hex digits, we are good
                //
                HEX_DIGIT { hCount++; }

                | // Three valid digits
            )

                | // Two valid digits
            )

                | // One valid digit
            )
        )
        | // No valid hex digits at all
    )

// Now check the digit count and issue an error if we need to
//
{
    if (hCount < 4) {
        Interval badRange = Interval.of(getCharIndex()-2-hCount, getCharIndex());
        String lastChar = input.substring(badRange.b, badRange.b);
        if ( lastChar.codePointAt(0)=='\'' ) {
            badRange.b--;
        }
        String bad = input.substring(badRange.a, badRange.b);
        Token t = new CommonToken(input, state.type, state.channel, badRange.a, badRange.b);
        t.setLine(input.getLine());
        t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
        grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, bad);
    }
}
;

```

fragment

UNICODE_EXTENDED_ESC


```

: 'u{' // Leadin for unicode extended escape sequence

HEX_DIGIT+ // One or more hexadecimal digits

}' // Leadout for unicode extended escape sequence

// Now check the digit count and issue an error if we need to
{
  int numDigits = getCharIndex()-state.tokenStartCharIndex-6;
  if (numDigits > 6) {
    Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-
1);
    t.setText(t.getText());
    t.setLine(input.getLine());
    t.setCharPositionInLine(input.getCharPositionInLine()-numDigits);
    grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t,
input.substring(state.tokenStartCharIndex,getCharIndex()-1));
  }
}
;

// -----
// Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS
: (
  ''
  | '\t'
  | '\r'
  | '\n'
  | '\f'
)+
  {$channel=HIDDEN;}
;

// A fragment rule for use in recognizing end of line in
// rules like COMMENT.
//
fragment
NLCHARS
: '\n' | '\r'
;

// A fragment rule for recognizing traditional whitespace

```

```

// characters within lexer rules.
//
fragment
WSCHARS
: '"' | '\t' | '\f'
;

// A fragment rule for recognizing both traditional whitespace and
// end of line markers, when we don't care to distinguish but don't
// want any action code going on.
//
fragment
WSNLCHARS
: '"' | '\t' | '\f' | '\n' | '\r'
;

// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a
// byte order mark. Since this Unicode character doesn't appear as a token
// anywhere else in the grammar, we can simply skip all instances of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
// STRING_LITERAL.
UnicodeBOM
: '\uFEFF' {skip();}
;

// -----
// Illegal Character
//
// This is an illegal character trap which is always the last rule in the
// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the grammar file anyway
// but we will not try to analyse or code generate from a file with lexical
// errors.
//
ERRCHAR
: .
{
    Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.setCharPositionInLine(state.tokenStartCharPositionInLine);
    String msg = getTokenErrorDisplay(t) + " came as a complete surprise to me";
    grammarError(ErrorType.SYNTAX_ERROR, t, msg);
    state.syntaxErrors++;
    skip();
}

```

;

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*/

lexer grammar ActionSplitter;

options { filter=true; }

@header {

package org.antlr.v4.parse;

import org.antlr.v4.tool.*;

import org.antlr.v4.tool.ast.*;

}

@members {

ActionSplitterListener delegate;

```

public ActionSplitter(CharStream input, ActionSplitterListener delegate) {
    this(input, new RecognizerSharedState());
    this.delegate = delegate;
}

/** force filtering (and return tokens). triggers all above actions. */
public List<Token> getActionTokens() {
    List<Token> chunks = new ArrayList<Token>();
    Token t = nextToken();
    while ( t.getType()!=Token.EOF ) {
        chunks.add(t);
        t = nextToken();
    }
    return chunks;
}

private boolean isIDStartChar(int c) {
    return c == '_' || Character.isLetter(c);
}

// ignore comments right away

COMMENT
: '/' ( options {greedy=false;} : . )* '*' {delegate.text($text);}
;

LINE_COMMENT
: '/' ~('\n'|'\r')* '\r'? '\n' {delegate.text($text);}
;

SET_NONLOCAL_ATTR
: '$' x=ID ':' y=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
{
    delegate.setNonLocalAttr($text, $x, $y, $expr);
}
;

NONLOCAL_ATTR
: '$' x=ID ':' y=ID {delegate.nonLocalAttr($text, $x, $y);}
;

QUALIFIED_ATTR
: '$' x=ID '!' y=ID {input.LA(1)!='('}? {delegate.qualifiedAttr($text, $x, $y);}
;

SET_ATTR

```

```

: '$' x=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
{
  delegate.setAttr($text, $x, $expr);
}
;

```

ATTR

```

: '$' x=ID {delegate.attr($text, $x);}
;

```

// Anything else is just random text

TEXT

```

@init {StringBuilder buf = new StringBuilder();}
@after {delegate.text(buf.toString());}
: ( c=~('\| '$) {buf.append((char)$c);}
  | '\$' {buf.append('$);}
  | '\| c=~('$) {buf.append('\|').append((char)$c);}
  | {!isIDStartChar(input.LA(2))}? => '$' {buf.append('$);}
)+
;

```

fragment

```

ID : ('a'..'z'|'A'..'Z'|'_') ('a'..'z'|'A'..'Z'|'0'..'9'|'_')*
;

```

/** Don't allow an = as first char to prevent \$x == 3; kind of stuff. */

fragment

```

ATTR_VALUE_EXPR
: ~'=' (~';')*
;

```

fragment

```

WS : ('\t'|\n'|\r')+
;

```

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1.36 guava v29.0

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Doug Lea

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Eclipse

The following artifacts are EPL.

- * org.eclipse.jetty.orbit:org.eclipse.jdt.core

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- * org.eclipse.jetty.orbit:javac.security.auth.message

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- * org.eclipse.jetty.orbit:javac.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- * javax.servlet:javax.servlet-api
- * javax.annotation:javax.annotation-api
- * javax.transaction:javax.transaction-api
- * javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by

Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.
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1.38 netty/transport/classes/epoll 4.1.73.Final

1.38.1 Available under license :

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Manifest-Version: 1.0
Implementation-Title: Netty/Transport/Native/Epoll
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.transport.epoll
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>
Bundle-SymbolicName: io.netty.transport-native-epoll
Implementation-Version: 4.1.73.Final
Built-By: root
Bnd-LastModified: 1641972717827
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/Transport/Native/Epoll
Bundle-Version: 4.1.73.Final
Bundle-NativeCode: META-INF/native/libnetty_transport_native_epoll_aarch_64.so; osname=Linux; processor=aarch_64,*
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_312
Implementation-URL: <https://netty.io/netty-transport-native-epoll/>

Found in path(s):

* /opt/cola/permits/1290493747_1648156873.67/0/netty-transport-native-epoll-4-1-73-final-linux-aarch-64-jar/META-INF/MANIFEST.MF

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* /opt/cola/permits/1290493747_1648156873.67/0/netty-transport-native-epoll-4-1-73-final-linux-aarch-64-jar/META-INF/maven/io.netty/netty-transport-native-epoll/pom.xml

1.39 java-architecture-for-xml-binding 2.3.2

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* Project: <https://testng.org/doc/index.html>

* Source: <https://github.com/cbeust/testng>

wagon-http-lightweight (3.0.0)

* License: Pending

* Project: <https://maven.apache.org/wagon/>

* Source:

<https://mvnrepository.com/artifact/org.apache.maven.wagon/wagon-http-lightweight/3.0.0>

xz for java (1.8)

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1.40 ktor-bom 1.6.1

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1.41 netty-codec-smtp 4.1.73.Final

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- * /opt/cola/permits/1290493564_1647560224.77/0/netty-codec-smtp-4-1-73-final-sources-jar/io/netty/handler/codec/smtp/SntpResponse.java
- * /opt/cola/permits/1290493564_1647560224.77/0/netty-codec-smtp-4-1-73-final-sources-jar/io/netty/handler/codec/smtp/SntpContent.java
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- * /opt/cola/permits/1290493564_1647560224.77/0/netty-codec-smtp-4-1-73-final-sources-jar/io/netty/handler/codec/smtp/DefaultLastSntpContent.java
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- * /opt/cola/permits/1290493564_1647560224.77/0/netty-codec-smtp-4-1-73-final-sources-jar/io/netty/handler/codec/smtp/DefaultSntpRequest.java
- * /opt/cola/permits/1290493564_1647560224.77/0/netty-codec-smtp-4-1-73-final-sources-jar/io/netty/handler/codec/smtp/SntpRequest.java
- * /opt/cola/permits/1290493564_1647560224.77/0/netty-codec-smtp-4-1-73-final-sources-jar/io/netty/handler/codec/smtp/SntpRequests.java
- * /opt/cola/permits/1290493564_1647560224.77/0/netty-codec-smtp-4-1-73-final-sources-jar/io/netty/handler/codec/smtp/SntpRequestEncoder.java
- * /opt/cola/permits/1290493564_1647560224.77/0/netty-codec-smtp-4-1-73-final-sources-jar/io/netty/handler/codec/smtp/LastSntpContent.java
- * /opt/cola/permits/1290493564_1647560224.77/0/netty-codec-smtp-4-1-73-final-sources-jar/io/netty/handler/codec/smtp/SntpUtils.java
- * /opt/cola/permits/1290493564_1647560224.77/0/netty-codec-smtp-4-1-73-final-sources-jar/io/netty/handler/codec/smtp/DefaultSntpContent.java

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1.42 jackson-core 2.13.2

1.42.1 Available under license :

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1.43 javax-annotation-api 1.3.2

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* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
* Added generation of field number constants.
Wink Saville <wink@google.com>
* Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
* Small patch improving performance of in Python serialization.
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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.
* Fix bug with permanent callbacks that delete themselves when run.
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Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.
William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xLC compiler build issues
* Added atomicops for AIX (POWER)

1.49 hamcrest 1.3

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1.50 micronaut-test 3.1.1

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```
* /opt/cola/permits/1331474237_1653506865.917328/0/micronaut-test-junit5-3-1-1-sources-  
jar/io/micronaut/test/extensions/junit5/annotation/MicronautTest.java  
* /opt/cola/permits/1331474237_1653506865.917328/0/micronaut-test-junit5-3-1-1-sources-  
jar/io/micronaut/test/extensions/junit5/MicronautJunit5Extension.java  
* /opt/cola/permits/1331474237_1653506865.917328/0/micronaut-test-junit5-3-1-1-sources-  
jar/io/micronaut/test/extensions/junit5/graal/MicronautJUnit5Graal.java
```

1.51 ratelimitedlogger 2.0.2

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* /opt/cola/permits/1341779082_1654887050.2758746/0/rate-limited-logger-2-0-2-pom-zip/rate-limited-logger-2.0.2.pom.xml

1.52 micronaut-serialization 1.0.1

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* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/util/CustomizableSerializer.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/util/CustomizableDeserializer.java

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- * /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/ObjectMapper.java
- * /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/annotation/SerdeImport.java
- * /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/config/naming/LowerDotCaseStrategy.java
- * /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/Serde.java
- * /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/DeserializerLocator.java
- * /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/config/naming/SnakeCaseStrategy.java
- * /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/NamingStrategyLocator.java
- * /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/Deserializer.java
- * /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/config/naming/KebabCaseStrategy.java
- * /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/config/naming/PropertyNamingStrategy.java
- * /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/SerializerLocator.java
- * /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/exceptions/SerdeException.java
- * /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/Encoder.java
- * /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/config/naming/UpperCamelCaseStrategyWithSpaces.java
- * /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/config/annotation/SerdeConfig.java
- * /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/exceptions/InvalidPropertyFormatException.java
- * /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/reference/AbstractPropertyReferenceManager.java
- * /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/SerdeIntrospections.java
- * /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/config/DeserializationConfiguration.java
- * /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-

jar/io/micronaut/serde/SerdeRegistry.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/Decoder.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/config/SerdeConfiguration.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/util/NullableDeserializer.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/config/naming/LowerCaseStrategy.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/exceptions/InvalidFormatException.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/config/naming/LowerCamelCaseStrategy.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/UpdatingDeserializer.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/config/naming/UpperCamelCaseStrategy.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/reference/PropertyReference.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/config/naming/IdentityStrategy.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/Serializer.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/reference/SerializationReference.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/config/SerializationConfiguration.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/annotation/Serdeable.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-jar/io/micronaut/serde/reference/PropertyReferenceManager.java

1.53 micronaut-groovy 3.1.0

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- * /opt/cola/permits/1331474157_1653512453.5913334/0/micronaut-runtime-groovy-3-1-0-sources-jar/io/micronaut/context/env/groovy/ConfigurationEvaluator.groovy
- * /opt/cola/permits/1331474157_1653512453.5913334/0/micronaut-runtime-groovy-3-1-0-sources-jar/io/micronaut/context/env/groovy/GroovyPropertySourceLoader.java
- * /opt/cola/permits/1331474157_1653512453.5913334/0/micronaut-runtime-groovy-3-1-0-sources-jar/io/micronaut/context/env/groovy/package-info.java

1.54 mockito-inline 4.3.1

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1.55 saxon-xslt-and-xquery-processor 10.5

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1.56 jacoco 0.8.7

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1.57 java-servlet-api 3.1.0

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1.59 mockito-bom 4.3.1

1.59.1 Available under license :

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* /opt/cola/permits/1341779083_1654886951.0419836/0/mockito-bom-4-3-1-pom-zip/mockito-bom-4.3.1.pom.xml

1.60 guava 31.0.1-jre

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/**

* Holder for web specializations of methods of { @code Floats }. Intended to be empty for regular
* version.

*/

Found in path(s):

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/primitives/FloatsMethodsForWeb.java

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*/

/*

* This following method is a modified version of one found in

* <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30>

* which contained the following notice:

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* Other contributors include Andrew Wright, Jeffrey Hayes, Pat Fisher, Mike Judd.

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jar/com/google/common/cache/LongAdder.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/AtomicDoubleArray.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/hash/Striped64.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/cache/Striped64.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/hash/LongAdder.java

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*/
/**
* Holder for web specializations of methods of { @code Doubles }. Intended to be empty for regular
* version.
*/

Found in path(s):

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jar/com/google/common/util/concurrent/AtomicLongMap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/GwtTransient.java
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jar/com/google/common/collect/MultimapBuilder.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/ImmutableMapEntry.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/io/MoreFiles.java

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jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/base/MoreObjects.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/math/Quantiles.java

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jar/com/google/common/base/Functions.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/base/Objects.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/base/FinalizableSoftReference.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
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* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/eventbus/DeadEvent.java
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jar/com/google/common/io/LineBuffer.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/base/Preconditions.java
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jar/com/google/common/io/LittleEndianDataOutputStream.java
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jar/com/google/common/io/CountingOutputStream.java
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info.java
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* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/DirectExecutor.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/Interners.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/base/Suppliers.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/base/Function.java

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* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/hash/AbstractByteHasher.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/reflect/AbstractInvocationHandler.java
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* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/ServiceManager.java
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* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/math/StatsAccumulator.java
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* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/reflect/TypeToInstanceMap.java
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* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/io/Closer.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
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jar/com/google/common/annotations/package-info.java
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* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ForwardingSet.java
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* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/AbstractListMultimap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/AbstractMapBasedMultiset.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ForwardingCollection.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/SingletonImmutableSet.java
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* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/primitives/ImmutableLongArray.java

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* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/MultiEdgesConnecting.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-

jar/com/google/common/graph/AbstractNetwork.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/UndirectedNetworkConnections.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/NetworkBuilder.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/ForwardingNetwork.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/EdgesConnecting.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/GraphConnections.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/DirectedGraphConnections.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/UndirectedGraphConnections.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/EndpointPair.java

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* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/Internal.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/primitives/Platform.java

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*/
/**

* Returns an array containing all of the elements in the specified collection. This method
* returns the elements in the order they are returned by the collection's iterator. The returned
* array is "safe" in that no references to it are maintained by the collection. The caller is
* thus free to modify the returned array.
*
* <p>This method assumes that the collection size doesn't change while the method is running.
*
* <p>TODO(kevinb): support concurrently modified collections?
*
* @param c the collection for which to return an array of elements
*/

Found in path(s):

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/ObjectArrays.java

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*/

/*

* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* <http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp>, which contained the
* following header:

*

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*/

Found in path(s):

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/base/SmallCharMatcher.java

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* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/Streams.java

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* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/CompactHashSet.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/FilteredMultimap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/DescendingImmutableSortedSet.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/AbstractNavigableMap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/FilteredSetMultimap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/FilteredKeySetMultimap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ForwardingImmutableList.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ForwardingImmutableSet.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/CompactLinkedHashSet.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/EvictingQueue.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/CompactHashMap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/TreeTraverser.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/DescendingMultiset.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableEnumMap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/FilteredEntryMultimap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/RegularImmutableAsList.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ForwardingNavigableMap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/TransformedListIterator.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/FilteredKeyListMultimap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/TreeRangeMap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/CompactLinkedHashMap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ForwardingBlockingDeque.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/AbstractMultimap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/FilteredEntrySetMultimap.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/RangeMap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ForwardingDeque.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/AllEqualOrdering.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ForwardingNavigableSet.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/TransformedIterator.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/SortedMultisetBridge.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ForwardingImmutableMap.java
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* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/base/Verify.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/Runnables.java

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* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/RegularImmutableSortedMultiset.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/AbstractRangeSet.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/SortedIterable.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/Count.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableSortedMultiset.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/SortedIterables.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/RangeSet.java

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* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/InterruptibleTask.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/AsyncCallable.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/hash/LittleEndianByteArray.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ConsumingQueueIterator.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/hash/MacHashFunction.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/CombinedFuture.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/AggregateFutureState.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/hash/FarmHashFingerprint64.java

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jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/JdkBackedImmutableMultiset.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/ExecutionSequencer.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/JdkBackedImmutableSet.java

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jar/com/google/common/hash/AbstractStreamingHasher.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/cache/Cache.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/cache/AbstractLoadingCache.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/cache/CacheBuilderSpec.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/hash/BloomFilter.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/primitives/UnsignedLong.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/cache/ForwardingLoadingCache.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/net/HostAndPort.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/hash/PrimitiveSink.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/math/IntMath.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/hash/Hasher.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/base/PairwiseEquivalence.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/cache/LoadingCache.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/primitives/ParseRequest.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/hash/Hashing.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/math/DoubleUtils.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/cache/Weigher.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/primitives/UnsignedInteger.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/AbstractScheduledService.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/primitives/UnsignedInts.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/ExecutionError.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/hash/Funnel.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/reflect/TypeParameter.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/hash/BloomFilterStrategies.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/net/MediaType.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/Uninterruptibles.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/net/HttpHeaders.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/cache/RemovalCause.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/cache/package-info.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/math/MathPreconditions.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/base/Ticker.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/base/Absent.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingExecutorService.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/EmptyContiguousSet.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/math/DoubleMath.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/cache/RemovalListener.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/AbstractSortedMultiset.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/base/Enums.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/hash/AbstractCompositeHashFunction.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/base/Present.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/hash/Funnels.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/primitives/UnsignedLongs.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/hash/HashingOutputStream.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/base/Optional.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/math/BigIntegerMath.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/hash/AbstractHasher.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/BoundType.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/TreeRangeSet.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/cache/RemovalListeners.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/cache/ForwardingCache.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/hash/HashCode.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/math/package-info.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/Queues.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/RegularImmutableMultiset.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/hash/Crc32cHashFunction.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/hash/HashFunction.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/cache/RemovalNotification.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/RegularContiguousSet.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/base/FunctionalEquivalence.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/reflect/Types.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/cache/CacheLoader.java

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```
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/hash/package-info.java
```

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jar/com/google/common/collect/TopKSelector.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/Graphs.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
```

jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/Network.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/MutableNetwork.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/io/InsecureRecursiveDeleteException.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/io/RecursiveDeleteOption.java
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 */
/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
 * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable} to use {@link
 *     ImmutableSortedMap#of(Comparable, Object)}.</b>
 */
```

Found in path(s):
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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```

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jar/com/google/common/base/JdkPattern.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/base/CommonPattern.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/base/CommonMatcher.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/base/PatternCompiler.java
```

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```

```
*/
```

```
/**
```

```
* Holder for web specializations of methods of { @code Ints }. Intended to be empty for regular
* version.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/primitives/IntsMethodsForWeb.java
```

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jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/TimeoutFuture.java
```

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
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* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/Service.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/cache/CacheBuilder.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingFuture.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/MapMakerInternalMap.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/annotations/GwtCompatible.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/annotations/GwtIncompatible.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/cache/LocalCache.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/AbstractIdleService.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/cache/ReferenceEntry.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/net/InternetDomainName.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/html/HtmlEscapers.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/AbstractService.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/Cut.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/base/Platform.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/escape/Escapers.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/primitives/SignedBytes.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/primitives/UnsignedBytes.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/net/HostSpecifier.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/base/Splitter.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/escape/Platform.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/DenseImmutableTable.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/net/UrlEscapers.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/RegularImmutableTable.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/Callables.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/escape/ArrayBasedEscaperMap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/reflect/TypeResolver.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/io/ByteArrayDataInput.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/SparseImmutableTable.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/xml/XmlEscapers.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/io/LineProcessor.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/JdkFutureAdapters.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/SettableFuture.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/io/ByteProcessor.java

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* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/CollectSpliterators.java

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* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/IndexedImmutableSet.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/BaseImmutableMultimap.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/JdkBackedImmutableMap.java

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* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/MinMaxPriorityQueue.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ForwardingImmutableCollection.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/AbstractSequentialIterator.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ForwardingListMultimap.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/UnmodifiableListIterator.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ForwardingSortedSetMultimap.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/RowSortedTable.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-

jar/com/google/common/collect/SortedMapDifference.java

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jar/com/google/common/collect/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/DiscreteDomain.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/ImmutableSetMultimap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/RegularImmutableSortedSet.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/ForwardingTable.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/ImmutableEnumSet.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/ImmutableAsList.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/AbstractIndexedListIterator.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/EmptyImmutableSetMultimap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/SingletonImmutableTable.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/TableCollectors.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/RegularImmutableList.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/ComparisonChain.java
```

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableSortedMap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableTable.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ArrayTable.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ComputationException.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/SingletonImmutableList.java
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* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/io/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/base/ParametricNullness.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/net/ParametricNullness.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/xml/ParametricNullness.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/io/ParametricNullness.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/escape/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/eventbus/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-

jar/com/google/common/reflect/ParametricNullness.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/primitives/ParametricNullness.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/primitives/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/xml/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/hash/ParametricNullness.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/reflect/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
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* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/math/ParametricNullness.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/net/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/cache/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/math/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/base/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/cache/ParametricNullness.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/html/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/ParametricNullness.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/ParametricNullness.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/ParametricNullness.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/hash/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/html/ParametricNullness.java

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*/
/**
* Holder for web specializations of methods of { @code Shorts}. Intended to be empty for regular
* version.
*/
```

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```
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/primitives/ShortsMethodsForWeb.java
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*/
/*
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*
* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
* java.util.HashMap class.
*/
```

Found in path(s):

```
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
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* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/ClosingFuture.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/BaseGraph.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/Traverser.java
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* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
/**
* Holder for extra methods of { @code Objects } only in web. Intended to be empty for regular
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/base/ExtraObjectsMethodsForWeb.java
```


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 */
```

Found in path(s):

```
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/math/BigDecimalMath.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/hash/Java8Compatibility.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/math/ToDoubleRounder.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/base/Java8Compatibility.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/io/Java8Compatibility.java
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 */
```

```
/**
```

```
 * Outer class that exists solely to let us write { @code Partially.GwtIncompatible } instead of plain
```

* {`GwtIncompatible`}. This is more accurate for {[@link Futures#catching](#)}, which is available
* under GWT but with a slightly different signature.
*
* <p>We can't use {`PartiallyGwtIncompatible`} because then the GWT compiler wouldn't recognize
* it as a {`GwtIncompatible`} annotation. And for {`Futures.catching`}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/

Found in path(s):

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/Partially.java

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Found in path(s):

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/ServiceManagerBridge.java

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* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/base/NullnessCasts.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/NullnessCasts.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/NullnessCasts.java

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* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/Platform.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableMapEntrySet.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableMapValues.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/Tables.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/Collections2.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableMultiset.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableMap.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/HashBasedTable.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableMultimap.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/CollectPreconditions.java

* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableMapKeySet.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/StandardRowSortedTable.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableListMultimap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/RegularImmutableMap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/PeekingIterator.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/Table.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableEntry.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/RegularImmutableBiMap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/SingletonImmutableBiMap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/Serialization.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableSortedSet.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableBiMap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/StandardTable.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/EmptyImmutableListMultimap.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableCollection.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/Range.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/TreeBasedTable.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/UnmodifiableIterator.java
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* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/base/internal/Finalizer.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/primitives/Ints.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/primitives/Floats.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/escape/UnicodeEscaper.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/FluentIterable.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/io/MultiReader.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/base/Converter.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/primitives/Bytes.java

```
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/base/Joiner.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/net/PercentEscaper.java
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```
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/SortedMultiset.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/SortedMultisets.java
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jar/com/google/common/graph/IncidentEdgeSet.java
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/CompactHashing.java
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```

```
*/
/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
* following header:
*
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*/
```

```
Found in path(s):
* /opt/cola/permits/1288520115_1647351767.93/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/Hashing.java
```

1.61 micronaut-redis 5.2.0

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- * /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/AsyncCacheCommands.java
- * /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/health/package-info.java
- * /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/RedisCache.java
- * /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/session/package-info.java
- * /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/test/EmbeddedRedisServer.java
- * /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/expiration/ExpirationAfterWritePolicy.java
- * /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/NamedRedisServersConfiguration.java
- * /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/AbstractRedisConfiguration.java
- * /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/AbstractRedisCacheConfiguration.java
- * /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/RedisSetting.java
- * /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/expiration/ConstantExpirationAfterWritePolicy.java
- * /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/package-info.java
- * /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/RedisCacheConfiguration.java
- * /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/session/RedisHttpSessionConfiguration.java
- * /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/test/package-info.java
- * /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/DefaultRedisClientFactory.java
- * /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/DefaultRedisCacheConfiguration.java
- * /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/DefaultRedisConfiguration.java
- * /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-


```
jar/io/micronaut/configuration/lettuce/AbstractRedisClientFactory.java
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-
jar/io/micronaut/configuration/lettuce/NamedRedisClientFactory.java
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-
jar/io/micronaut/configuration/lettuce/cache/SyncCacheCommands.java
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-
jar/io/micronaut/configuration/lettuce/RedisConnectionUtil.java
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-
jar/io/micronaut/configuration/lettuce/session/RedisSessionStore.java
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-
jar/io/micronaut/configuration/lettuce/DefaultRedisClusterClientFactory.java
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-
jar/io/micronaut/configuration/lettuce/session/RedisSessionCommands.java
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```

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Found in path(s):

```
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/META-
INF/native-image/io.micronaut.redis/redis-lettuce/native-image.properties
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```

```
/*
```

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```

Found in path(s):

```
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-
jar/io/micronaut/configuration/lettuce/ClientResourcesMutator.java
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-
jar/io/micronaut/configuration/lettuce/MetricsClientResourceMutator.java
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-
jar/io/micronaut/configuration/lettuce/ThreadPoolClientResourceMutator.java
```

```
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-  
jar/io/micronaut/configuration/lettuce/health/RedisHealthIndicator.java
```

1.62 antlr 4.8-1

1.62.1 Available under license :

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```
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*/
```

```
tree grammar BlockSetTransformer;  
options {  
  language = Java;  
  tokenVocab = ANTLRParser;  
  ASTLabelType = GrammarAST;  
  output = AST;  
  filter = true;  
}
```

```

@header {
package org.antlr.v4.parse;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.List;
import java.util.Set;
import java.util.HashSet;
import java.util.ArrayList;
import org.antlr.v4.runtime.misc.IntervalSet;
}

@members {
public String currentRuleName;
public GrammarAST currentAlt;
public Grammar g;
public BlockSetTransformer(TreeNodeStream input, Grammar g) {
    this(input, new RecognizerSharedState());
    this.g = g;
}
}

topdown
: ^(RULE (id=TOKEN_REF|id=RULE_REF) {currentRuleName=$id.text;} .+)
| setAlt
| ebnfBlockSet
| blockSet
;

setAlt
: {inContext("RULE BLOCK")}?
ALT {currentAlt = $start;}
;

// (BLOCK (ALT (+ (BLOCK (ALT INT) (ALT ID))))))
ebnfBlockSet
@after {
GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: ^(ebnfSuffix blockSet) -> ^(ebnfSuffix ^(BLOCK<BlockAST> ^(ALT<AltAST> blockSet)))
;

ebnfSuffix
@after {$tree = (GrammarAST)adaptor.dupNode($start);}
: OPTIONAL
| CLOSURE
| POSITIVE_CLOSURE

```

```

;

blockSet
@init {
boolean inLexer = Grammar.isTokenName(currentRuleName);
}
@after {
GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: {inContext("RULE")}? // top-level: rule block and > 1 alt
^(BLOCK ^(alt=ALT elementOptions? {((AltAST)$alt).altLabel==null}? setElement[inLexer]) ( ^(ALT
elementOptions? setElement[inLexer]) )+
-> ^(BLOCK<BlockAST>[$BLOCK.token] ^(ALT<AltAST>[$BLOCK.token,"ALT"] ^(SET[$BLOCK.token,
"SET"] setElement+)))
| {!inContext("RULE")}? // if not rule block and > 1 alt
^(BLOCK ^(ALT elementOptions? setElement[inLexer]) ( ^(ALT elementOptions? setElement[inLexer]) )+
-> ^(SET[$BLOCK.token, "SET"] setElement+))
;

setElement[boolean inLexer]
@after {
GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: ( ^(a=STRING_LITERAL elementOptions) {!inLexer ||
CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
| a=STRING_LITERAL {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
| {!inLexer}?=> ^(TOKEN_REF elementOptions)
| {!inLexer}?=> TOKEN_REF
| {inLexer}?=> ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
{CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1 &&
CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1}?
)
;

elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;

elementOption
: ID
| ^(ASSIGN id=ID v=ID)
| ^(ASSIGN ID v=STRING_LITERAL)
| ^(ASSIGN ID v=ACTION)
| ^(ASSIGN ID v=INT)
;

```

Found in path(s):

* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-

jar/org/antlr/v4/parse/BlockSetTransformer.g

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Found in path(s):

* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/parse/ATNBuilder.java

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Found in path(s):

* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/ast/GrammarRootAST.java

* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/OutputModelWalker.java

* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/SerializedATN.java

* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/gui/PostScriptDocument.java

* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
 jar/org/antlr/v4/tool/ast/GrammarASTWithOptions.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/ToolMessage.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
 jar/org/antlr/v4/codegen/model/LL1AltBlock.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
 jar/org/antlr/v4/misc/EscapeSequenceParsing.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
 jar/org/antlr/v4/codegen/model/Recognizer.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
 jar/org/antlr/v4/codegen/model/MatchNotSet.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/LexerGrammar.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
 jar/org/antlr/v4/codegen/model/Wildcard.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
 jar/org/antlr/v4/codegen/model/chunk/ActionText.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
 jar/org/antlr/v4/automata/LexerATNFactory.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
 jar/org/antlr/v4/codegen/model/decl/TokenTypeDecl.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
 jar/org/antlr/v4/analysis/LeftRecursiveRuleAltInfo.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/Target.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
 jar/org/antlr/v4/tool/ast/GrammarASTVisitor.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
 jar/org/antlr/v4/parse/GrammarToken.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
 jar/org/antlr/v4/codegen/OutputModelController.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/ErrorSeverity.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/gui/TestRig.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
 jar/org/antlr/v4/codegen/model/VisitorDispatchMethod.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
 jar/org/antlr/v4/codegen/model/DispatchMethod.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/ast/RuleRefAST.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
 jar/org/antlr/v4/codegen/model/StarBlock.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
 jar/org/antlr/v4/tool/GrammarSyntaxMessage.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
 jar/org/antlr/v4/codegen/model/chunk/TokenRef.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/ast/RangeAST.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
 jar/org/antlr/v4/codegen/model/ArgAction.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
 jar/org/antlr/v4/tool/ANTLRToolListener.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-

jar/org/antlr/v4/tool/LabelElementPair.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/codegen/target/Python3Target.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/codegen/model/ExceptionClause.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/automata/TailEpsilonRemover.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_line.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/ErrorType.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/gui/Trees.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/DOTGenerator.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/misc/OrderedHashMap.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/codegen/model/Action.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/codegen/model/ListenerFile.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/codegen/model/LL1PlusBlockSingleAlt.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/dbg.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/codegen/model/chunk/SetNonLocalAttr.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_ctx.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/misc/CharSupport.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/analysis/AnalysisPipeline.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/codegen/model/decl/ContextTokenGetterDecl.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/tool/ANTLRMessage.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/misc/MutableInt.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/codegen/model/chunk/ActionTemplate.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/codegen/model/BaseListenerFile.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/ast/ActionAST.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/codegen/model/ModelElement.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/semantics/ActionSniffer.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/semantics/RuleCollector.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/codegen/model/decl/ContextGetterDecl.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/codegen/model/chunk/QRetValueRef.java

* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/AttributeDict.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/analysis/LeftRecursiveRuleTransformer.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/OutputModelObject.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/ast/BlockAST.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/AttributeResolver.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/chunk/LabelRef.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/parse/ScopeParser.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/CodeBlockForAlt.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/ast/OptionalBlockAST.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/ErrorHandler.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_index.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/Parser.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/CodeGenerator.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/misc/Utils.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/gui/JFileChooserConfirmOverwrite.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/automata/ATNVisitor.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextTokenListIndexedGetterDecl.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/LL1OptionalBlock.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextRuleListIndexedGetterDecl.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/LL1StarBlockSingleAlt.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/ast/PredAST.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/decl/RuleContextListDecl.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/semantics/BasicSemanticChecks.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/target/SwiftTarget.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_text.java
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/decl/AttributeDecl.java

* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/parse/ResyncToEndOfRuleBlock.java
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* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/codegen/model/ThrowEarlyExitException.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/codegen/model/decl/RuleContextDecl.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/codegen/model/SemPred.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/tool/LeftRecursiveRule.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_ctx.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/codegen/model/chunk/ActionChunk.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/codegen/model/SrcOp.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_text.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/tool/ast/PlusBlockAST.java
No license file was found, but licenses were detected in source scan.

```
/*  
* [The "BSD license"]  
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```

* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */

```
SwiftTypeInitMap ::= [
  "Int":"0",
  "Int64":"0",
  "Float":"0.0",
  "Double":"0.0",
  "Bool":"false",
  default:"nil" // anything other than a primitive type is an object
]
SwiftTypeMap ::= [
  "int":"Int",
  "float":"Float",
  "long":"Int64",
  "double":"Double",
  "bool":"Bool",
  "boolean":"Bool",
  default : key
]
// args must be <object-model-object>, <fields-resulting-in-STs>

accessLevelOpenOK(obj) ::= "<obj.accessLevel; null=\"open\">"
accessLevelNotOpen(obj) ::= "<obj.accessLevel; null=\"public\">"

ParserFile(file, parser, namedActions,contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<namedActions.header>
import Antlr4

<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
```

```

* This interface defines a complete listener for a parse tree produced by
* { @link <file.parserName> }.
*/
<accessLevelNotOpen(file)> protocol <file.grammarName>Listener: ParseTreeListener {
  <file.listenerNames: { lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the { @code <lname>\}
* labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Enter a parse tree produced by { @link <file.parserName>#<lname>\}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the { @code <lname>\}
* labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Exit a parse tree produced by { @link <file.parserName>#<lname>\}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context); separator="\n">
}
>>

```

```

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>

```

```
import Antlr4
```

```

/**
* This class provides an empty implementation of { @link <file.grammarName>Listener },
* which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
<accessLevelOpenOK(file)> class <file.grammarName>BaseListener: <file.grammarName>Listener {
  <accessLevelNotOpen(file)> init() { \}
  <file.listenerNames: { lname |

```



```

/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
<accessLevelOpenOK(file)> func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) { \}
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
<accessLevelOpenOK(file)> func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) { \} }; separator="\n">

/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
<accessLevelOpenOK(file)> func enterEveryRule(_ ctx: ParserRuleContext) { \}
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
<accessLevelOpenOK(file)> func exitEveryRule(_ ctx: ParserRuleContext) { \}
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
<accessLevelOpenOK(file)> func visitTerminal(_ node: TerminalNode) { \}
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
<accessLevelOpenOK(file)> func visitErrorNode(_ node: ErrorNode) { \}
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>

```

```

<header>
import Antlr4

/**
 * This interface defines a complete generic visitor for a parse tree produced
 * by { @link <file.parserName> }.
 *
 * @param \<T> The return type of the visit operation. Use { @link Void } for
 * operations with no return type.
 */
<accessLevelOpenOK(file)> class <file.grammarName>Visitor\<T>: ParseTreeVisitor\<T> {
    <file.visitorNames:{ lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
 * Visit a parse tree produced by the { @code <lname> \}
 * labeled alternative in { @link <file.parserName>#<file.visitorLabelRuleNames.(lname)> \}.
<else>
 * Visit a parse tree produced by { @link <file.parserName>#<lname> \}.
<endif>
- Parameters:
- ctx: the parse tree
- returns: the visitor result
*/
<accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) -> T {
    fatalError(#function + " must be overridden")
\}
}; separator="\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
 * This class provides an empty implementation of { @link <file.grammarName>Visitor },
 * which can be extended to create a visitor which only needs to handle a subset
 * of the available methods.
 *
 * @param \<T> The return type of the visit operation. Use { @link Void } for
 * operations with no return type.
 */
<accessLevelOpenOK(file)> class <file.grammarName>BaseVisitor\<T>: AbstractParseTreeVisitor\<T> {

```

```

<file.visitorNames:{lname |
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation returns the result of calling
 * { @link #visitChildren\} on { @code ctx\}.\</p>
 */
<accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) -> T? { return visitChildren(ctx) \}; separator="\n">
}
>>

```

```

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>
>>

```

```

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

```

```

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
</*!@SuppressWarnings({ "all", "warnings", "unchecked", "unused", "cast" })!>
<accessLevelOpenOK(parser)> class <parser.name>: <superClass; null="Parser"> {

```

```

    internal static var _decisionToDFA: [DFA] = {
        var decisionToDFA = [DFA]()
        let length = <parser.name>._ATN.getNumberOfDecisions()
        for i in 0..\<length {
            </*! decisionToDFA[i] = DFA(<parser.name>._ATN.getDecisionState(i)!, i)!>
            decisionToDFA.append(DFA(<parser.name>._ATN.getDecisionState(i)!, i))
        }
        return decisionToDFA
    }()

```

```

internal static let _sharedContextCache = PredictionContextCache()

```

```

<if(parser.tokens)>
<accessLevelNotOpen(parser)>
enum Tokens: Int {
    case EOF = -1, <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=", ", wrap, anchor>
}
<endif>

```

```

<accessLevelNotOpen(parser)>
static let <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>

```

```

<accessLevelNotOpen(parser)>
static let ruleNames: [String] = [

```

```

<parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
]

<vocabulary(parser.literalNames, parser.symbolicNames,
    accessLevelNotOpen(parser))>

override <accessLevelOpenOK(parser)>
func getGrammarFileName() -> String { return "<parser.grammarFileName; format="java-escape">" }

override <accessLevelOpenOK(parser)>
func getRuleNames() -> [String] { return <parser.name>.ruleNames }

override <accessLevelOpenOK(parser)>
func getSerializedATN() -> String { return <parser.name>._serializedATN }

override <accessLevelOpenOK(parser)>
func getATN() -> ATN { return <parser.name>._ATN }

<namedActions.members>
<parser:(ctor)()>
<funcs; separator="\n">

<if(sempredFuncs)>
override <accessLevelOpenOK(parser)>
func sempred(_ localctx: RuleContext?, _ ruleIndex: Int, _ predIndex: Int)throws -> Bool {
    switch (ruleIndex) {
        <parser.sempredFuncs.values:{f}
    case <f.ruleIndex>:
        return try <f.name>_sempred(_ localctx?.castdown(<f.ctxType>.self), predIndex)); separator="\n">
            default: return true
    }
    <!return true;!>
}
<sempredFuncs.values; separator="\n">
<endif>

<atn>

<accessLevelNotOpen(parser)>
static let _serializedATN = <parser.name>ATN().jsonString

<accessLevelNotOpen(parser)>
static let _ATN = ATNDeserializer().deserializeFromJson(_serializedATN)
}
>>

vocabulary(literalNames, symbolicNames, accessLevel) ::= <<
private static let _LITERAL_NAMES: [String?] = [

```

```

<literalNames:{t | <t>}; null="nil", separator=", ", wrap, anchor>
]
private static let _SYMBOLIC_NAMES: [String?] = [
  <symbolicNames:{t | <t>}; null="nil", separator=", ", wrap, anchor>
]
<accessLevel>
static let VOCABULARY = Vocabulary(_LITERAL_NAMES, _SYMBOLIC_NAMES)
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
override <accessLevelOpenOK(parser)>
func action(_ _localctx: RuleContext?, _ ruleIndex: Int, _ actionIndex: Int) throws {
  switch (ruleIndex) {
    <recog.actionFuncs.values:{f}
  case <f.ruleIndex>:
    <f.name>_action((_localctx as <f.ctxType>?), actionIndex)
    }; separator="\n">
  default: break
  }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
override <accessLevelOpenOK(parser)>
func sempred(_ _localctx: RuleContext?, _ ruleIndex: Int, _ predIndex: Int) throws -> Bool {
  switch (ruleIndex) {
    <recog.sempredFuncs.values:{f}
  case <f.ruleIndex>:
    return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex); separator="\n">
  default: return true
  }
}
<!return true;!>
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<

override <accessLevelOpenOK(parser)>
func getVocabulary() -> Vocabulary {
  return <p.name>.VOCABULARY
}

override <accessLevelNotOpen(parser)>
init(_ input:TokenStream) throws {
  RuntimeMetaData.checkVersion("4.8", RuntimeMetaData.VERSION)
}

```

```

try super.init(input)
_interp = ParserATNSimulator(self,<p.name>._ATN,<p.name>._decisionToDFA,
<parser.name>._sharedContextCache)
}

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private func <r.name>_action(_ localctx: <r.ctxType>?, _ actionIndex: Int) {
switch (actionIndex) {
<actions:{index|
case <index>:
<actions.(index)>
}; separator="\n">
default: break
}
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private func <r.name>_sempred(_ localctx: <r.ctxType>!, _ predIndex: Int) throws -> Bool {
switch (predIndex) {
<actions:{index|
case <index>:return <actions.(index)>}; separator="\n">
default: return true
}
<!return true;!>
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<
<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
@discardableResult
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelOpenOK(parser)> func
<endif><currentRule.name><(if(first(args))>_ <endif><args; separator=", _">) throws -> <currentRule.ctxType> {
var _localctx: <currentRule.ctxType> = <currentRule.ctxType>(_ctx, getState())<currentRule.args:{a | ,
<a.name>}>>)
try enterRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>)
<namedActions.init>
<locals; separator="\n">

```

```

defer {
    <finallyAction>
    try! exitRule()
}
do {
<if(currentRule.hasLookaheadBlock)>
    var _alt:Int
<endif>
    <code>
    <postamble; separator="\n">
    <namedActions.after>
}
<if(exceptions)>
<exceptions; separator="\n">
<else>
catch ANTLRException.recognition(let re) {
    _localctx.exception = re
    _errHandler.reportError(self, re)
    try _errHandler.recover(self, re)
}
<endif>

return _localctx
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
    namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelNotOpen(parser)> final <endif>
func <currentRule.name>( <if(first(args))>_ <endif><args; separator=", _">) throws -> <currentRule.ctxType> {
    return try <currentRule.name>(0<currentRule.args:{a | , <a.name>}>)
}
}
@discardableResult
private func <currentRule.name>(_ _p<args:{a | , <a>}>: Int) throws -> <currentRule.ctxType> {
    let _parentctx: ParserRuleContext? = _ctx
    var _parentState: Int = getState()
    var _localctx: <currentRule.ctxType> = <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,
<a.name>}>))
    var _prevctx: <currentRule.ctxType> = _localctx
    var _startState: Int = <currentRule.startState>
    try enterRecursionRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p)
    <namedActions.init>
    <locals; separator="\n">

```

```

defer {
  <finallyAction>
  try! unrollRecursionContexts(_parentctx)
}
do {
<if(currentRule.hasLookaheadBlock)>
  var _alt: Int
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
}
catch ANTLRException.recognition(let re) {
  _localctx.exception = re
  _errHandler.reportError(self, re)
  try _errHandler.recover(self, re)
}

return _localctx;
}
>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
try enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<!/{!>
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
<!/{!>
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt | <cases(ttypes=look)>
  <alt>
  break }; separator="\n">
default:
  <error>

```



```
}  
>>
```

```
LL1OptionalBlock(choice, alts, error) ::= <<  
  setState(<choice.stateNumber>)  
  try _errHandler.sync(self)  
  switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {  
  <choice.altLook,alts:{look,alt| <cases(ttypes=look)>  
  <alt>  
  break}; separator="\n">  
  default:  
  break  
  }  
>>
```

```
LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<  
  setState(<choice.stateNumber>)  
  try _errHandler.sync(self)  
  <preamble; separator="\n">  
  if (<expr>) {  
  <alts; separator="\n">  
  }  
  <!else if ( !(<followExpr> ) <error>!>  
>>
```

```
LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<  
  setState(<choice.stateNumber>)  
  try _errHandler.sync(self)  
  <preamble; separator="\n">  
  while (<loopExpr>) {  
  <alts; separator="\n">  
  setState(<choice.loopBackStateNumber>)  
  try _errHandler.sync(self)  
  <iteration>  
  }  
>>
```

```
LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<  
  setState(<choice.blockStartStateNumber>) <! alt block decision !>  
  try _errHandler.sync(self)  
  <preamble; separator="\n">  
  repeat {  
  <alts; separator="\n">  
  setState(<choice.stateNumber>); <! loopback/exit decision !>  
  try _errHandler.sync(self)  
  <iteration>  
  } while (<loopExpr>)  
>>
```

```

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch(try getInterpreter().adaptivePredict(_input,<choice.decision>, _ctx)) {
<alts:{alt |
case <i>:
<alt>
break }; separator="\n">
default: break
}
>>

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break }; separator="\n">
default: break
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
_alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
while ( _alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER) {
if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
<iteration>
<alts> <! should only be one !>
}
setState(<choice.loopBackStateNumber>)
try _errHandler.sync(self)
_alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
}
>>

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
try _errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>;

```

```

repeat {
  switch (_alt) {
    <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
break}; separator="\n">
  default:
    <error>
  }
  setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
  try _errHandler.sync(self)
  _alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
} while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER)
>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw ANTLRException.recognition(e: NoViableAltException(self))"

TestSetInline(s) ::= <<
<!<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">!>
//closure
{ () -> Bool in
  <if(rest(s.bitsets)>var<else>let<endif> testSet: Bool = <first(s.bitsets):{bits |
<if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s, bits)><endif>}>
  <rest(s.bitsets):{bits | testSet = testSet || <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s,
bits)><else><bitsetInlineComparison(s, bits)><endif>}; separator="\n">
  return testSet
}()
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <<
<!(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1 \<< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ttype | (1 \<< <offsetShift(ttype, bits.shift)>}); separator=" | ">)) != 0)!>
{ () -> Bool in
  <! let test: Bool = (<testShiftInRange({<offsetShift(s.varName, bits.shift)>})>)!>
  <!var temp: Int64 = Int64(<offsetShift(s.varName, bits.shift)>)!>
  <!temp = (temp \< 0) ? (64 + (temp % 64)) : (temp % 64)!>
  <!let test1: Int64 = (Int64(1) \<< temp)!>
  <!var test2: Int64 = (<first(bits.ttypes):{ttype | Utils.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)}>)!>
  <!<rest(bits.ttypes):{ttype | test2 = test2 | Utils.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)}>);

```

```

separator="\n">!>
  let testArray: [Int] = [<s.varName>, <bits.ttypes:{ ttype |<parserName(ttype)>} ; separator=", ">]
  <!var test2: Int64 = Utils.testBitLeftShiftArray(testArray)!>
  return Utils.testBitLeftShiftArray(testArray, <bits.shift>)
}()
>>

isZero ::= [
  "0": true,
  default: false
]
parserName(ttype) ::= <%
<parser.name>.Tokens.<ttype>.rawValue
%>
offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ ttype | <s.varName> == <parser.name>.Tokens.<ttype>.rawValue }; separator=" || ">
%>

cases(ttypes) ::= <<
<trunc(ttypes): { t | case .<t>:fallthrough } ; separator="\n">
<last(ttypes): { t | case .<t>: } ; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>)
<if(r.labels)>
try {
  let assignmentValue = try
  <r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>)
  <r.labels:{l | <labelref(l)> = assignmentValue } ; separator="\n">
  }()
<else>try
  <r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>)<endif>
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>)
<if(m.labels)>
try {
  let assignmentValue = try match(<parser.name>.Tokens.<m.name>.rawValue)
  <m.labels:{l | <labelref(l)> = assignmentValue } ; separator="\n">
  }()
<else>try match(<parser.name>.Tokens.<m.name>.rawValue)<endif>

```

>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

```
CommonSetStuff(m, expr, capture, invert) ::= <<
  setState(<m.stateNumber>)
  <if(m.labels)><m.labels:{1 | <labelref(l)> = }>try _input.LT(1)<endif>
  <capture>
  if (<if(invert)><m.varName> \<= 0 || <else>!<endif><expr>) {
    <if(m.labels)><m.labels:{1 | <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:{1 | <labelref(l)> = }><endif>try matchWildcard();
>>
```

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

```
SemPred(p, chunks, failChunks) ::= <<
  setState(<p.stateNumber>)
  if (!<chunks>) {
    throw ANTLRException.recognition(e:FailedPredicateException(self, <p.predicate><if(failChunks)>,
    <failChunks><elseif(p.msg)>, <p.msg><endif>))
  }
>>
```

```
ExceptionClause(e, catchArg, catchAction) ::= <<
  catch (<catchArg>) {
    <catchAction>
  }
>>
```

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "skip()"

```

LexerMoreCommand() ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg) ::= "_type = <arg>"
LexerChannelCommand(arg) ::= "_channel = <arg>"
LexerModeCommand(arg) ::= "_mode = <arg>"
LexerPushModeCommand(arg) ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.name>"
LocalRef(a) ::= "_localctx.<a.name>"
RetValRef(a) ::= "_localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getText()! : \"\""
TokenPropertyRef_type(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getType() : 0)"
TokenPropertyRef_line(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getLine() : 0)"
TokenPropertyRef_pos(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getChannel() : 0)"
TokenPropertyRef_index(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "<ctx(t)>.<t.label> != nil ? Int(<ctx(t)>.<t.label>!.getText(!) : 0)"

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.start?.description ?? \"\") : \"\""
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.stop?.description ?? \"\") : \"\""
RulePropertyRef_text(r) ::= "<ctx(r)>.<r.label> != nil ? try
_input.getText(<ctx(r)>.<r.label>!.start,<ctx(r)>.<r.label>!.stop) : \"\""
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "self"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r) ::= "_localctx.stop"
ThisRulePropertyRef_text(r) ::= "(try _input.getText(_localctx.start, try _input.LT(-1)))"
ThisRulePropertyRef_ctx(r) ::= "_localctx"
ThisRulePropertyRef_parser(r) ::= "self"

NonLocalAttrRef(s) ::= "((<s.ruleName; format=\\\"cap\\\">Context)getInvokingContext(<s.ruleIndex>)).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::=
"((<s.ruleName; format=\\\"cap\\\">Context)getInvokingContext(<s.ruleIndex>)).<s.name> = <rhsChunks>"

```

```
AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"
```

```
TokenDecl(t) ::= "<t.name>: <SwiftTypeMap.(TokenLabelType())>!"
```

```
TokenTypeDecl(t) ::= "var <t.name>: Int = 0"
```

```
TokenListDecl(t) ::= "<t.name>: [Token] = [Token]()"
```

```
RuleContextDecl(r) ::= "<r.name>: <r.ctxName>!"
```

```
RuleContextListDecl(rdecl) ::= "<rdecl.name>: [<rdecl.ctxName>] = [<rdecl.ctxName>]()"
```

```
ContextTokenGetterDecl(t) ::= <<
```

```
<accessLevelOpenOK(parser)>
```

```
func <t.name>() -> TerminalNode? {
```

```
    return getToken(<parser.name>.Tokens.<t.name>.rawValue, 0)
```

```
}
```

```
>>
```

```
ContextTokenListGetterDecl(t) ::= <<
```

```
<accessLevelOpenOK(parser)>
```

```
func <t.name>() -> [TerminalNode] {
```

```
    return getTokens(<parser.name>.Tokens.<t.name>.rawValue)
```

```
}
```

```
>>
```

```
ContextTokenListIndexedGetterDecl(t) ::= <<
```

```
<accessLevelOpenOK(parser)>
```

```
func <t.name>(_ i: Int) -> TerminalNode? {
```

```
    return getToken(<parser.name>.Tokens.<t.name>.rawValue, i)
```

```
}
```

```
>>
```

```
ContextRuleGetterDecl(r) ::= <<
```

```
<accessLevelOpenOK(parser)>
```

```
func <r.name>() -> <r.ctxName>? {
```

```
    return getRuleContext(<r.ctxName>.self, 0)
```

```
}
```

```
>>
```

```
ContextRuleListGetterDecl(r) ::= <<
```

```
<accessLevelOpenOK(parser)>
```

```
func <r.name>() -> [<r.ctxName>] {
```

```
    return getRuleContexts(<r.ctxName>.self)
```

```
}
```

```
>>
```

```
ContextRuleListIndexedGetterDecl(r) ::= <<
```

```
<accessLevelOpenOK(parser)>
```

```
func <r.name>(_ i: Int) -> <r.ctxName>? {
```

```
    return getRuleContext(<r.ctxName>.self, i)
```

```
}
```

```
>>
```

```
LexerRuleContext() ::= "RuleContext"
```

```
/** The rule context name is the rule followed by a suffix; e.g.,
```

```

* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = try _input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = try _input.LA(1)"

StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers,
    superClass={ParserRuleContext}) ::= <<

<accessLevelNotOpen(parser)> class <struct.name>:
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces;
separator=", "><endif> {
  <attrs:{ a | <accessLevelOpenOK(parser)> var <a>}; separator="\n">
  <getters:{ g | <g>}; separator="\n">
  <! <if(ctorAttrs)> <accessLevelNotOpen(parser)> init(_ parent: ParserRuleContext,_ invokingState: Int) {
super.init(parent, invokingState) }<endif> !>
  <if(ctorAttrs)>
  <accessLevelNotOpen(parser)> convenience init(_ parent: ParserRuleContext?, _ invokingState: Int<ctorAttrs:{ a | ,
_ <a>}>>) {
    self.init(parent, invokingState)
  }
  <struct.ctorAttrs:{ a | self.<a.name> = <a.name>;}; separator="\n">
  }
  <endif>

  override <accessLevelOpenOK(parser)>
  func getRuleIndex() -> Int {
    return <parser.name>.RULE_<struct.derivedFromName>
  }
  <if(struct.provideCopyFrom && struct.attrs)> <! don't need copy unless we have subclasses !>
  <accessLevelOpenOK(parser)>
  override func copyFrom(_ ctx_: ParserRuleContext) {
    super.copyFrom(ctx_)
    let ctx = ctx_ as! <struct.name>
    <struct.attrs:{ a | self.<a.name> = ctx.<a.name>;}; separator="\n">
  }
  <endif>
  <dispatchMethods; separator="\n">
  <extensionMembers; separator="\n">
  }
  >>

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<

```



```

<accessLevelNotOpen(parser)> class <struct.name>: <currentRule.name; format="cap">Context {
  <attrs:{a | <accessLevelNotOpen(parser)> var <a>}; separator="\n">
  <getters:{g | <g>}; separator="\n">

  <accessLevelNotOpen(parser)>
  init(_ ctx: <currentRule.name; format="cap">Context) {
    super.init()
    copyFrom(ctx)
  }
  <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
override <accessLevelOpenOK(parser)>
func <if(method.isEnter)>enter<else>exit<endif>Rule(_ listener: ParseTreeListener) {
  if let listener = listener as? <parser.grammarName>Listener {
    listener.<if(method.isEnter)>enter<else>exit<endif><<struct.derivedFromName; format="cap">(self)
  }
}
>>

VisitorDispatchMethod(method) ::= <<
override <accessLevelOpenOK(parser)>
func accept<<T>(_ visitor: ParseTreeVisitor<<T>) -> T? {
  if let visitor = visitor as? <parser.grammarName>Visitor {
    return visitor.visit<<struct.derivedFromName; format="cap">(self)
  }
  else if let visitor = visitor as? <parser.grammarName>BaseVisitor {
    return visitor.visit<<struct.derivedFromName; format="cap">(self)
  }
  else {
    return visitor.visitChildren(self)
  }
}
>>

AttributeDecl(d) ::= "<d.name>: <SwiftTypeMap.(d.type)><if(d.initValue)> = <d.initValue><else>!<endif>"

/** If we don't know location of label def x, use this template (_localctx as! <x.ctx.name> */
labelref(x) ::= "<if(!x.isLocal)>_localctx.castdown(<x.ctx.name>.self).<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "_localctx.castdown(<actionChunk.ctx.name>.self)"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>"

```

```

recRuleSetStopToken()      ::= "_ctx!.stop = try _input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
  _localctx = <ctxName>Context(_parentctx, _parentState);
  <if(label)>
  <if(isListLabel)>
    _localctx.<label>.append(_prevctx)
  <else>
    _localctx.<label> = _prevctx
  <endif>
<endif>
<if(label)>_localctx.<label> = _prevctx;<endif>
  try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
  _localctx = <currentAltLabel; format="cap">Context( <ruleName; format="cap">Context(_parentctx,
  _parentState))
  <if(label)>
  <if(isListLabel)>
    (_localctx as! <currentAltLabel; format="cap">Context).<label>.append(_prevctx)
  <else>
    (_localctx as! <currentAltLabel; format="cap">Context).<label> = _prevctx
  <endif>
<endif>
  try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
  _localctx = <ctxName>Context(_localctx)
  _ctx = _localctx
  _prevctx = _localctx
>>

recRuleSetPrevCtx() ::= <<
  if _parseListeners != nil {
    try triggerExitRuleEvent()
  }
  _prevctx = _localctx
>>

LexerFile(lexerFile, lexer, namedActions) ::= <<
  <fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
  <if(lexerFile.genPackage)>
  <!package <lexerFile.genPackage>;!>
  <endif>
  <namedActions.header>

```

```

import Antlr4

<lexer>
>>
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<accessLevelOpenOK(lexer)> class <lexer.name>: <superClass; null="Lexer"> {

internal static var _decisionToDFA: [DFA] = {
    var decisionToDFA = [DFA]()
    let length = <lexer.name>._ATN.getNumberOfDecisions()
    for i in 0..<length {
        <! decisionToDFA[i] = DFA(<lexer.name>._ATN.getDecisionState(i!), i);!>
        decisionToDFA.append(DFA(<lexer.name>._ATN.getDecisionState(i!), i))
    }
    return decisionToDFA
}()

internal static let _sharedContextCache = PredictionContextCache()

<accessLevelNotOpen(lexer)>
static let <lexer.tokens>:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>

<if(lexer.channels)>
<accessLevelNotOpen(lexer)>
static let <lexer.channels>:{k | <k>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>
<endif>
<if(rest(lexer.modes)>
<accessLevelNotOpen(lexer)>
static let <rest(lexer.modes)>:{m | <m>=<i>}; separator=", ", wrap, anchor>
<endif>
<accessLevelNotOpen(lexer)>
static let channelNames: [String] = [
    "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channels)>, <lexer.channels:{c | "<c>"}>; separator=", ",
wrap, anchor><endif>
]

<accessLevelNotOpen(lexer)>
static let modeNames: [String] = [
    <lexer.modes:{m | "<m>"}>; separator=", ", wrap, anchor>
]

<accessLevelNotOpen(lexer)>
static let ruleNames: [String] = [
    <lexer.ruleNames:{r | "<r>"}>; separator=", ", wrap, anchor>
]

<vocabulary(lexer.literalNames, lexer.symbolicNames,
    accessLevelNotOpen(lexer))>

```

```

<namedActions.members>

override <accessLevelOpenOK(lexer)>
func getVocabulary() -> Vocabulary {
    return <lexer.name>.VOCABULARY
}

<accessLevelNotOpen(lexer)>
required init(_ input: CharStream) {
    RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION)
    super.init(input)
    _interp = LexerATNSimulator(self, <lexer.name>._ATN, <lexer.name>._decisionToDFA,
<lexer.name>._sharedContextCache)
}

override <accessLevelOpenOK(lexer)>
func getGrammarFileName() -> String { return "<lexer.grammarFileName>" }

override <accessLevelOpenOK(lexer)>
func getRuleNames() -> [String] { return <lexer.name>.ruleNames }

override <accessLevelOpenOK(lexer)>
func getSerializedATN() -> String { return <lexer.name>._serializedATN }

override <accessLevelOpenOK(lexer)>
func getChannelNames() -> [String] { return <lexer.name>.channelNames }

override <accessLevelOpenOK(lexer)>
func getModeNames() -> [String] { return <lexer.name>.modeNames }

override <accessLevelOpenOK(lexer)>
func getATN() -> ATN { return <lexer.name>._ATN }

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>

<accessLevelNotOpen(lexer)>
static let _serializedATN: String = <lexer.name>ATN().jsonString

<accessLevelNotOpen(lexer)>
static let _ATN: ATN = ATNDeserializer().deserializeFromJson(_serializedATN)
}
>>

/** Don't need to define anything. The tool generates a XParserATN.swift file (and same for lexer)
* which is referenced from static field _serializedATN. This json string is passed to
* deserializeFromJson(). Note this is not the "serialization as array of ints" that other targets

```

```
* do. It is more or less the output of ATNPrinter which gets read back in.
```

```
*/
```

```
SerializedATN(model) ::= <<
```

```
>>
```

```
/** Using a type to init value map, try to init a type; if not in table
```

```
* must be an object, default value is "null".
```

```
*/
```

```
initValue(typeName) ::= <<
```

```
<SwiftTypeInitMap.(typeName)>
```

```
>>
```

```
codeFileExtension() ::= ".swift"
```

```
Found in path(s):
```

```
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/tool/templates/codegen/Swift/Swift.stg
```

```
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```

```
/*
```

```
[The "BSD licence"]
```

```
Copyright (c) 2006 Kay Roepke
```

```
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```

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```
*/
```

```
/*
```

```
This file contains the actual layout of the messages emitted by ANTLR.
```

The text itself is coming out of the languages/*stg files, according to the chosen locale.

This file contains the default format ANTLR uses.

*/

location(file, line, column) ::= "<file>(<line>,<column>)"

message(id, text) ::= "error <id> : <text>"

report(location, message, type) ::= "<location> : <type> <message.id> : <message.text>"

wantsSingleLineMessage() ::= "true"

Found in path(s):

* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/vs2005.stg

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*/

tree grammar SourceGenTriggers;

```

options {
    language = Java;
    tokenVocab = ANTLRParser;
    ASTLabelType = GrammarAST;
}

```

```

@header {
    package organtlr.v4.codegen;
    import organtlr.v4.misc.Utils;
    import organtlr.v4.codegen.model.*;
    import organtlr.v4.codegen.model.decl.*;
    import organtlr.v4.tool.*;
    import organtlr.v4.tool.ast.*;
    import java.util.Collections;
    import java.util.Map;
    import java.util.HashMap;
}

```

```

@members {
    public OutputModelController controller;
    public boolean hasLookaheadBlock;
    public SourceGenTriggers(TreeNodeStream input, OutputModelController controller) {
        this(input);
        this.controller = controller;
    }
}

```

```

dummy : block[null, null] ;

```

```

block[GrammarAST label, GrammarAST ebnfRoot] returns [List<? extends SrcOp> omos]
: ^( blk=BLOCK (^ (OPTIONS .+))?
{List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();}
( alternative {alts.add($alternative.altCodeBlock);} )+
)
{
    if ( alts.size()==1 && ebnfRoot==null) return alts;
    if ( ebnfRoot==null ) {
        $omos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
    }
    else {
        Choice choice = controller.getEBNFBlock($ebnfRoot, alts);
        hasLookaheadBlock |= choice instanceof PlusBlock || choice instanceof StarBlock;
        $omos = DefaultOutputModelFactory.list(choice);
    }
}
;

```

```

alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]

```

```

@init {
    boolean outerMost = inContext("RULE BLOCK");
}
@after {
    controller.finishAlternative($altCodeBlock, $ops, outerMost);
}
: a=alt[outerMost] { $altCodeBlock=$a.altCodeBlock; $ops=$a.ops; }
;

alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
    // set alt if outer ALT only (the only ones with alt field set to Alternative object)
    AltAST altAST = (AltAST)retval.start;
    if ( outerMost ) controller.setCurrentOuterMostAlt(altAST.alt);
}
: {
    List<SrcOp> elems = new ArrayList<SrcOp>();
    // TODO: shouldn't we pass $start to controller.alternative()?
    $altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
    $altCodeBlock.ops = $ops = elems;
    controller.setCurrentBlock($altCodeBlock);
}
^( ALT elementOptions? ( element {if ($element.omos!=null) elems.addAll($element.omos);} )+ )

| ^(ALT elementOptions? EPSILON)
    { $altCodeBlock = controller.epsilon(controller.getCurrentOuterMostAlt(), outerMost); }
;

element returns [List<? extends SrcOp> omos]
: labeledElement { $omos = $labeledElement.omos; }
| atom[null,false] { $omos = $atom.omos; }
| subrule { $omos = $subrule.omos; }
| ACTION { $omos = controller.action((ActionAST)$ACTION); }
| SEMPRED { $omos = controller.sempred((ActionAST)$SEMPRED); }
| ^(ACTION elementOptions) { $omos = controller.action((ActionAST)$ACTION); }
| ^(SEMPRED elementOptions) { $omos = controller.sempred((ActionAST)$SEMPRED); }
;

labeledElement returns [List<? extends SrcOp> omos]
: ^(ASSIGN ID atom[$ID,false] ) { $omos = $atom.omos; }
| ^(PLUS_ASSIGN ID atom[$ID,false]) { $omos = $atom.omos; }
| ^(ASSIGN ID block[$ID,null] ) { $omos = $block.omos; }
| ^(PLUS_ASSIGN ID block[$ID,null]) { $omos = $block.omos; }
;

subrule returns [List<? extends SrcOp> omos]
: ^(OPTIONAL b=block[null,$OPTIONAL])
{

```



```

$omos = $block.omos;
}
| ( ^ (op=CLOSURE b=block[null,null])
| ^ (op=POSITIVE_CLOSURE b=block[null,null])
)
{
List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
SrcOp blk = $b.omos.get(0);
CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
alts.addOp(blk);
alts.add(alt);
SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
    hasLookaheadBlock |= loop instanceof PlusBlock || loop instanceof StarBlock;
    $omos = DefaultOutputModelFactory.list(loop);
}
| block[null, null]    {$omos = $block.omos;}
;

```

```

blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
: ^ (SET atom[label,invert]+) {$omos = controller.set($SET, $label, invert);}
;

```

```

/*
setElement
: STRING_LITERAL
| TOKEN_REF
| ^ (RANGE STRING_LITERAL STRING_LITERAL)
;
*/

```

```

// TODO: combine ROOT/BANG into one then just make new op ref'ing return value of atom/terminal...
// TODO: same for NOT

```

```

atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
: ^ (NOT a=atom[$label, true]) {$omos = $a.omos;}
| range[label]    {$omos = $range.omos;}
| ^ (DOT ID terminal[$label])
| ^ (DOT ID ruleref[$label])
| ^ (WILDCARD .)    {$omos = controller.wildcard($WILDCARD, $label);}
| WILDCARD    {$omos = controller.wildcard($WILDCARD, $label);}
| terminal[label]    {$omos = $terminal.omos;}
| ruleref[label]    {$omos = $ruleref.omos;}
| blockSet[$label, invert] {$omos = $blockSet.omos;}
;

```

```

ruleref[GrammarAST label] returns [List<SrcOp> omos]
: ^ (RULE_REF ARG_ACTION? elementOptions?) {$omos = controller.ruleRef($RULE_REF, $label, $ARG_ACTION);}
;

```

```
range[GrammarAST label] returns [List<SrcOp> omos]
: ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
;
```

```
terminal[GrammarAST label] returns [List<SrcOp> omos]
: ^(STRING_LITERAL .) {$omos = controller.stringRef($STRING_LITERAL, $label);}
| STRING_LITERAL {$omos = controller.stringRef($STRING_LITERAL, $label);}
| ^(TOKEN_REF ARG_ACTION .) {$omos = controller.tokenRef($TOKEN_REF, $label, $ARG_ACTION);}
| ^(TOKEN_REF .) {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
| TOKEN_REF {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
;
```

```
elementOptions
: ^(ELEMENT_OPTIONS elementOption+)
;
```

```
elementOption
: ID
| ^(ASSIGN ID ID)
| ^(ASSIGN ID STRING_LITERAL)
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;
```

Found in path(s):

* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/SourceGenTriggers.g

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Found in path(s):

* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/META-INF/maven/org/antlr/antlr4/pom.xml

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* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

```

```

/** ANTLR tool checks output templates are compatible with tool code generation.

```

```

* For now, a simple string match used on x.y of x.y.z scheme.

```

```

* Must match Tool.VERSION during load to templates.

```

```

*

```

```

* REQUIRED.

```

```

*/

```

```

pythonTypeInitMap ::= [
  "bool":"False",
  "int":"0",
  "float":"0.0",
  "str": "",
  default:"None" // anything other than a primitive type is an object
]

```

```

// args must be <object-model-object>, <fields-resulting-in-STs>

```

```

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<

```

```

<fileHeader(file.grammarFileName, file.ANTLRVersion)>

```

```

# encoding: utf-8

```

```

from __future__ import print_function

```

```

from antlr4 import *

```

```

from io import StringIO

```

```

import sys

```

```

<namedActions.header>

```

```

<parser>

```

>>

```
ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

    <file.listenerNames:{lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx):
    pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self, ctx):
    pass

}; separator="\n">
```

>>

```
VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
<header>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

    <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx):
    return self.visitChildren(ctx)

}; separator="\n">
```

>>

```
fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>
```

```
Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
```

```

<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
    from .<superClass> import <superClass>
else:
    from <superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

    grammarFileName = "<parser.grammarFileName>"

    atn = ATNDeserializer().deserialize(serializedATN())

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

    sharedContextCache = PredictionContextCache()

    literalNames = [ <parser.literalNames:{t | u<t>}; null="u\"<INVALID>\"", separator=", ", wrap, anchor> ]

    symbolicNames = [ <parser.symbolicNames:{t | u<t>}; null="u\"<INVALID>\"", separator=", ", wrap, anchor> ]

    <parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>

    ruleNames = [ <parser.ruleNames:{r | u"<r>"}; separator=", ", wrap, anchor> ]

    EOF = <TokenLabelType().EOF
    <if(parser.tokens)>
    <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
    <endif>

    <parser:(ctor())>

    <namedActions.members>

    <funcs; separator="\n">

    <if(sempredFuncs)>
    def sempred(self, localctx, ruleIndex, predIndex):
        if self._predicates == None:
            self._predicates = dict()
    <parser.sempredFuncs.values:{f |

```

```

self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n
pred = self._predicates.get(ruleIndex, None)
if pred is None:
    raise Exception("No predicate with index:" + str(ruleIndex))
else:
    return pred(localctx, predIndex)

<sempredFuncs.values; separator="\n">
<endif>

>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx, ruleIndex, actionIndex):
    if self._actions is None:
        actions = dict()
<recog.actionFuncs.values: {f|
    actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
    self._actions = actions
    action = self._actions.get(ruleIndex, None)
    if action is not None:
        action(localctx, actionIndex)
    else:
        raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx, ruleIndex, predIndex):
    if self._predicates is None:
        preds = dict()
<recog.sempredFuncs.values: {f|
    preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
    self._predicates = preds
    pred = self._predicates.get(ruleIndex, None)
    if pred is not None:
        return pred(localctx, predIndex)
    else:
        raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values; separator="\n">
<endif>

>>

```

```

parser_ctor(p) ::= <<
def __init__(self, input, output=sys.stdout):
    super(<parser.name>, self).__init__(input, output=output)
    self.checkVersion("<file.ANTLRVersion>")
    self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
    self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx , actionIndex):
<actions:{index|
<if(first(actions))>
    if actionIndex == <index>:
        <actions.(index)>
<elseif(rest(actions))>
    elif actionIndex == <index>:
        <actions.(index)>
<endif> }; separator="\n">

>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx, predIndex):
    <actions:{index|
<if(first(actions))>
    if predIndex == <index>:
        return <actions.(index)>
<elseif(rest(actions))>
    elif predIndex == <index>:
        return <actions.(index)>
<endif> }; separator="\n">

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

```

```

def <currentRule.name>(self<currentRule.args:{a | , <a.name>}>):

    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | , <a.name>}>)
    self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
    <namedActions.init>
    <locals; separator="\n">
    try:
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    <if(exceptions)>
    <exceptions; separator="\n">
    <else>
    except RecognitionException as re:
        localctx.exception = re
        self._errHandler.reportError(self, re)
        self._errHandler.recover(self, re)
    <endif>
    finally:
        <finallyAction>
        self.exitRule()
    return localctx

>>

```

```

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
    namedAction,finallyAction,postamble) ::=
<<

```

```

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>} ; separator="\n">

def <currentRule.name>(self, _p=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
    _parentctx = self._ctx
    _parentState = self.state
    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.name>}>)
    _prevctx = localctx
    _startState = <currentRule.startState>
    self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
    <namedActions.init>
    <locals; separator="\n">
    try:
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    except RecognitionException as re:
        localctx.exception = re
        self._errHandler.reportError(self, re)

```



```

        self._errHandler.recover(self, re)
    finally:
        <finallyAction>
        self.unrollRecursionContexts(_parentctx)
    return localctx

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
    <alt>
    pass}; separator="\nel">
else:
    <error>

>>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
    <alt>
    pass}; separator="\nel">
else:
    pass
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>

```

```

self._errHandler.sync(self)
<preamble; separator="\n">
if <expr>:
    <alts; separator="\n">

<!else if ( !(<followExpr> ) <error>!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
    <alts; separator="\n">
    self.state = <choice.loopBackStateNumber>
    self._errHandler.sync(self)
    <iteration>

>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
    <alts; separator="\n">
    self.state = <choice.stateNumber> <! loopback/exit decision !>
    self._errHandler.sync(self)
    <iteration>
    if not (<loopExpr>):
        break

>>

```

```
// LL(*) stuff
```

```

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{ alt |
if la_ == <i>:
    <alt>
    pass
}; separator="\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="\nel">
```

>>

```
StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  if _alt==1<if(!choice.ast.greedy)>+1<endif>:
    <iteration>
    <alts> <! should only be one !>
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
```

>>

```
PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  <alts:{ alt |
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">
  else:
    <error>
  self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
```

>>

```
Sync(s) ::= "sync(<s.expecting.name>)"
```

```
ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"
```

```

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" or ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<< <offsetShiftType(ttype, bits.shift)>)); separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><parser.name>.<shiftAmount> - <offset><else><parser.name>.<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<parser.name>.<ttype>}; separator=" or ">
%>

cases(ttypes) ::= <<
if token in [<ttypes:{t | <parser.name>.<t>}; separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>self.<r.name><(if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><argExprsChu
nks>)
>>

MatchToken(m) ::= <<
self.state = <m.stateNumber>

```

```

<if(m.labels)><m.labels:{1 | <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:{1 | <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:{1 | <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:{1 | <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) ::= <<
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>"
RetValRef(a) ::= "localctx.<a.name>"
QRetValRef(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) ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>"

```

```
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.name> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"
```

```
ContextTokenGetterDecl(t) ::= <<
def <t.name>(self):
    return self.getToken(<parser.name>.<t.name>, 0)
>>
```

```
// should never be called
ContextTokenListGetterDecl(t) ::= <<
def <t.name>_list(self):
    return self.getTokens(<parser.name>.<t.name>)
>>
```

```
ContextTokenListIndexedGetterDecl(t) ::= <<
def <t.name>(self, i=None):
    if i is None:
        return self.getTokens(<parser.name>.<t.name>)
    else:
        return self.getToken(<parser.name>.<t.name>, i)
>>
```

```
ContextRuleGetterDecl(r) ::= <<
def <r.name>(self):
    return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)
>>
```

```
// should never be called
ContextRuleListGetterDecl(r) ::= <<
def <r.name>_list(self):
    return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
>>
```

```
ContextRuleListIndexedGetterDecl(r) ::= <<
def <r.name>(self, i=None):
    if i is None:
        return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
    else:
        return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)
>>
```

```
LexerRuleContext() ::= "RuleContext"
```

```

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers) ::= <<
class <struct.name>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):

    def __init__(self, parser, parent=None, invokingState=-1<struct.ctorAttrs:{a | , <a.name>=None}>>):
        super(<parser.name>.<struct.name>, self).__init__(parent, invokingState)
        self.parser = parser
        <attrs:{a | <a>}; separator="\n">
        <struct.ctorAttrs:{a | self.<a.name> = <a.name>}; separator="\n">

        <getters:{g | <g>}; separator="\n\n">

    def getRuleIndex(self):
        return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
    def copyFrom(self, ctx):
        super(<parser.name>.<struct.name>, self).copyFrom(ctx)
        <struct.attrs:{a | self.<a.name> = ctx.<a.name>}; separator="\n">

<endif>
    <dispatchMethods; separator="\n">
    <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
class <struct.name>(<currentRule.name; format="cap">Context):

    def __init__(self, parser, ctx): # actually a <parser.name>.<currentRule.name; format="cap">Context)
        super(<parser.name>.<struct.name>, self).__init__(parser)
        <attrs:{a | <a>}; separator="\n">
        self.copyFrom(ctx)

    <getters:{g | <g>}; separator="\n">

```



```

    <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener):
    if hasattr(listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">"):
        listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor):
    if hasattr(visitor, "visit<struct.derivedFromName; format="cap">"):
        return visitor.visit<struct.derivedFromName; format="cap">(self)
    else:
        return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>"
recRuleSetStopToken() ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label) ::= <<
localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>localctx.<label> = _prevctx<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>

```

```

<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

```

```

recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

```

```

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
    self.triggerExitRuleEvent()
_prevctx = localctx
>>

```

```

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from io import StringIO
import sys

```

```

<namedActions.header>

```

```

<lexer>
>>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
    from .<superClass> import <superClass>
else:
    from <superClass> import <superClass>

```

```

<endif>

```

```

<atn>

```

```

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

```

```

    atn = ATNDeserializer().deserialize(serializedATN())

```

```

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

```

```

<if(lexer.channels)>
  <lexer.channels:{c| <c> = <lexer.channels.(c)>}; separator="\n">

<endif>
<if(rest(lexer.modes))>
  <rest(lexer.modes):{m| <m> = <i>}; separator="\n">

<endif>
  <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>

  channelNames = [ u"DEFAULT_TOKEN_CHANNEL", u"HIDDEN"<if (lexer.channels)>, <lexer.channels:{c|
u"<c>"}; separator=", ", wrap, anchor><endif> ]

  modeNames = [ <lexer.modes:{m| u"<m>"}; separator=", ", wrap, anchor> ]

  literalNames = [ u"\<INVALID>",
    <lexer.literalNames:{t | u<t>}; separator=", ", wrap, anchor> ]

  symbolicNames = [ u"\<INVALID>",
    <lexer.symbolicNames:{t | u<t>}; separator=", ", wrap, anchor> ]

  ruleNames = [ <lexer.ruleNames:{r | u"<r>"}; separator=", ", wrap, anchor> ]

  grammarFileName = u"<lexer.grammarFileName>"

  def __init__(self, input=None, output=sys.stdout):
    super(<lexer.name>, self).__init__(input, output=output)
    self.checkVersion("<lexerFile.ANTLRVersion>")
    self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
    self._actions = None
    self._predicates = None

  <namedActions.members>

  <dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

def serializedATN():
  with StringIO() as buf:
    buf.write(u"<model.serialized; wrap={}<\n>    buf.write(u"}>")
    return buf.getvalue()

>>

```

```

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<pythonTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".py"

Found in path(s):
 * /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg
No license file was found, but licenses were detected in source scan.

/*
 * [The "BSD license"]
 * Copyright (c) 2012-2016 Terence Parr
 * Copyright (c) 2012-2016 Sam Harwell
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
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 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 * DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */

/** 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 {
```

```
/*
```

```
[The "BSD license"]
```

```
Copyright (c) 2011 Terence Parr
```

```
All rights reserved.
```

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```
*/
```

```
package org.antlr.v4.parse;
```

```
import org.antlr.v4.Tool;
```

```
import org.antlr.v4.tool.*;
```

```
import org.antlr.v4.tool.ast.*;
```

```
import java.lang.reflect.InvocationTargetException;
```

```

import java.lang.reflect.Method;
}

@members {
public String grammarName;
public GrammarAST currentRuleAST;
public String currentModeName = LexerGrammar.DEFAULT_MODE_NAME;
public String currentRuleName;
public GrammarAST currentOuterAltRoot;
public int currentOuterAltNumber = 1; // 1..n
public int rewriteEBNFLevel = 0;

public GrammarTreeVisitor() { this(null); }

// Should be abstract but can't make gen'd parser abstract;
// subclasses should implement else everything goes to stderr!
public ErrorManager getErrorManager() { return null; }

public void visitGrammar(GrammarAST t) { visit(t, "grammarSpec"); }
public void visit(GrammarAST t, String ruleName) {
    CommonTreeNodeStream nodes = new CommonTreeNodeStream(new GrammarASTAdaptor(), t);
    setTreeNodeStream(nodes);
    try {
        Method m = getClass().getMethod(ruleName);
        m.invoke(this);
    }
    catch (Throwable e) {
        ErrorManager errMgr = getErrorManager();
        if ( e instanceof InvocationTargetException ) {
            e = e.getCause();
        }
        //e.printStackTrace(System.err);
        if ( errMgr==null ) {
            System.err.println("can't find rule "+ruleName+
                " or tree structure error: "+t.toStringTree()
            );
            e.printStackTrace(System.err);
        }
        else errMgr.toolError(ErrorType.INTERNAL_ERROR, e);
    }
}

public void discoverGrammar(GrammarRootAST root, GrammarAST ID) { }
public void finishPrequels(GrammarAST firstPrequel) { }
public void finishGrammar(GrammarRootAST root, GrammarAST ID) { }

public void grammarOption(GrammarAST ID, GrammarAST valueAST) { }
public void ruleOption(GrammarAST ID, GrammarAST valueAST) { }

```

```

public void blockOption(GrammarAST ID, GrammarAST valueAST) { }
public void defineToken(GrammarAST ID) { }
public void defineChannel(GrammarAST ID) { }
public void globalNamedAction(GrammarAST scope, GrammarAST ID, ActionAST action) { }
public void importGrammar(GrammarAST label, GrammarAST ID) { }

public void modeDef(GrammarAST m, GrammarAST ID) { }

public void discoverRules(GrammarAST rules) { }
public void finishRules(GrammarAST rule) { }
public void discoverRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
    ActionAST arg, ActionAST returns, GrammarAST thrws,
    GrammarAST options, ActionAST locals,
    List<GrammarAST> actions,
    GrammarAST block) { }
public void finishRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void discoverLexerRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
    GrammarAST block) { }
public void finishLexerRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void ruleCatch(GrammarAST arg, ActionAST action) { }
public void finallyAction(ActionAST action) { }
public void discoverOuterAlt(AltAST alt) { }
public void finishOuterAlt(AltAST alt) { }
public void discoverAlt(AltAST alt) { }
public void finishAlt(AltAST alt) { }

public void ruleRef(GrammarAST ref, ActionAST arg) { }
public void tokenRef(TerminalAST ref) { }
public void elementOption(GrammarASTWithOptions t, GrammarAST ID, GrammarAST valueAST) { }
public void stringRef(TerminalAST ref) { }
public void wildcardRef(GrammarAST ref) { }
public void actionInAlt(ActionAST action) { }
public void sempredInAlt(PredAST pred) { }
public void label(GrammarAST op, GrammarAST ID, GrammarAST element) { }
public void lexerCallCommand(int outerAltNumber, GrammarAST ID, GrammarAST arg) { }
public void lexerCommand(int outerAltNumber, GrammarAST ID) { }

protected void enterGrammarSpec(GrammarAST tree) { }
protected void exitGrammarSpec(GrammarAST tree) { }

protected void enterPrequelConstructs(GrammarAST tree) { }
protected void exitPrequelConstructs(GrammarAST tree) { }

protected void enterPrequelConstruct(GrammarAST tree) { }
protected void exitPrequelConstruct(GrammarAST tree) { }

protected void enterOptionsSpec(GrammarAST tree) { }
protected void exitOptionsSpec(GrammarAST tree) { }

```

```
protected void enterOption(GrammarAST tree) { }
protected void exitOption(GrammarAST tree) { }

protected void enterOptionValue(GrammarAST tree) { }
protected void exitOptionValue(GrammarAST tree) { }

protected void enterDelegateGrammars(GrammarAST tree) { }
protected void exitDelegateGrammars(GrammarAST tree) { }

protected void enterDelegateGrammar(GrammarAST tree) { }
protected void exitDelegateGrammar(GrammarAST tree) { }

protected void enterTokensSpec(GrammarAST tree) { }
protected void exitTokensSpec(GrammarAST tree) { }

protected void enterTokenSpec(GrammarAST tree) { }
protected void exitTokenSpec(GrammarAST tree) { }

protected void enterChannelsSpec(GrammarAST tree) { }
protected void exitChannelsSpec(GrammarAST tree) { }

protected void enterChannelSpec(GrammarAST tree) { }
protected void exitChannelSpec(GrammarAST tree) { }

protected void enterAction(GrammarAST tree) { }
protected void exitAction(GrammarAST tree) { }

protected void enterRules(GrammarAST tree) { }
protected void exitRules(GrammarAST tree) { }

protected void enterMode(GrammarAST tree) { }
protected void exitMode(GrammarAST tree) { }

protected void enterLexerRule(GrammarAST tree) { }
protected void exitLexerRule(GrammarAST tree) { }

protected void enterRule(GrammarAST tree) { }
protected void exitRule(GrammarAST tree) { }

protected void enterExceptionGroup(GrammarAST tree) { }
protected void exitExceptionGroup(GrammarAST tree) { }

protected void enterExceptionHandler(GrammarAST tree) { }
protected void exitExceptionHandler(GrammarAST tree) { }

protected void enterFinallyClause(GrammarAST tree) { }
protected void exitFinallyClause(GrammarAST tree) { }
```



```
protected void enterLocals(GrammarAST tree) { }
protected void exitLocals(GrammarAST tree) { }

protected void enterRuleReturns(GrammarAST tree) { }
protected void exitRuleReturns(GrammarAST tree) { }

protected void enterThrowsSpec(GrammarAST tree) { }
protected void exitThrowsSpec(GrammarAST tree) { }

protected void enterRuleAction(GrammarAST tree) { }
protected void exitRuleAction(GrammarAST tree) { }

protected void enterRuleModifier(GrammarAST tree) { }
protected void exitRuleModifier(GrammarAST tree) { }

protected void enterLexerRuleBlock(GrammarAST tree) { }
protected void exitLexerRuleBlock(GrammarAST tree) { }

protected void enterRuleBlock(GrammarAST tree) { }
protected void exitRuleBlock(GrammarAST tree) { }

protected void enterLexerOuterAlternative(AltAST tree) { }
protected void exitLexerOuterAlternative(AltAST tree) { }

protected void enterOuterAlternative(AltAST tree) { }
protected void exitOuterAlternative(AltAST tree) { }

protected void enterLexerAlternative(GrammarAST tree) { }
protected void exitLexerAlternative(GrammarAST tree) { }

protected void enterLexerElements(GrammarAST tree) { }
protected void exitLexerElements(GrammarAST tree) { }

protected void enterLexerElement(GrammarAST tree) { }
protected void exitLexerElement(GrammarAST tree) { }

protected void enterLabeledLexerElement(GrammarAST tree) { }
protected void exitLabeledLexerElement(GrammarAST tree) { }

protected void enterLexerBlock(GrammarAST tree) { }
protected void exitLexerBlock(GrammarAST tree) { }

protected void enterLexerAtom(GrammarAST tree) { }
protected void exitLexerAtom(GrammarAST tree) { }

protected void enterActionElement(GrammarAST tree) { }
protected void exitActionElement(GrammarAST tree) { }
```

```
protected void enterAlternative(AltAST tree) { }
protected void exitAlternative(AltAST tree) { }

protected void enterLexerCommand(GrammarAST tree) { }
protected void exitLexerCommand(GrammarAST tree) { }

protected void enterLexerCommandExpr(GrammarAST tree) { }
protected void exitLexerCommandExpr(GrammarAST tree) { }

protected void enterElement(GrammarAST tree) { }
protected void exitElement(GrammarAST tree) { }

protected void enterAstOperand(GrammarAST tree) { }
protected void exitAstOperand(GrammarAST tree) { }

protected void enterLabeledElement(GrammarAST tree) { }
protected void exitLabeledElement(GrammarAST tree) { }

protected void enterSubrule(GrammarAST tree) { }
protected void exitSubrule(GrammarAST tree) { }

protected void enterLexerSubrule(GrammarAST tree) { }
protected void exitLexerSubrule(GrammarAST tree) { }

protected void enterBlockSuffix(GrammarAST tree) { }
protected void exitBlockSuffix(GrammarAST tree) { }

protected void enterEbnfSuffix(GrammarAST tree) { }
protected void exitEbnfSuffix(GrammarAST tree) { }

protected void enterAtom(GrammarAST tree) { }
protected void exitAtom(GrammarAST tree) { }

protected void enterBlockSet(GrammarAST tree) { }
protected void exitBlockSet(GrammarAST tree) { }

protected void enterSetElement(GrammarAST tree) { }
protected void exitSetElement(GrammarAST tree) { }

protected void enterBlock(GrammarAST tree) { }
protected void exitBlock(GrammarAST tree) { }

protected void enterRuleref(GrammarAST tree) { }
protected void exitRuleref(GrammarAST tree) { }

protected void enterRange(GrammarAST tree) { }
protected void exitRange(GrammarAST tree) { }
```

```

protected void enterTerminal(GrammarAST tree) { }
protected void exitTerminal(GrammarAST tree) { }

protected void enterElementOptions(GrammarAST tree) { }
protected void exitElementOptions(GrammarAST tree) { }

protected void enterElementOption(GrammarAST tree) { }
protected void exitElementOption(GrammarAST tree) { }

@Override
public void traceIn(String ruleName, int ruleIndex) {
    System.err.println("enter "+ruleName+": "+input.LT(1));
}

@Override
public void traceOut(String ruleName, int ruleIndex) {
    System.err.println("exit "+ruleName+": "+input.LT(1));
}
}

grammarSpec
@init {
    enterGrammarSpec($start);
}
@after {
    exitGrammarSpec($start);
}
: ^( GRAMMAR ID {grammarName=$ID.text;}
    {discoverGrammar((GrammarRootAST)$GRAMMAR, $ID);}
    prequelConstructs
    {finishPrequels($prequelConstructs.firstOne);}
    rules mode*
    {finishGrammar((GrammarRootAST)$GRAMMAR, $ID);}
)
;

prequelConstructs returns [GrammarAST firstOne=null]
@init {
    enterPrequelConstructs($start);
}
@after {
    exitPrequelConstructs($start);
}
: {$firstOne=$start;} prequelConstruct+
|
;

```

```

prequelConstruct
@init {
  enterPrequelConstructs($start);
}
@after {
  exitPrequelConstructs($start);
}
: optionsSpec
  | delegateGrammars
  | tokensSpec
  | channelsSpec
  | action
;

```

```

optionsSpec
@init {
  enterOptionsSpec($start);
}
@after {
  exitOptionsSpec($start);
}
: ^(OPTIONS option*)
;

```

```

option
@init {
  enterOption($start);
  boolean rule = inContext("RULE ...");
  boolean block = inContext("BLOCK ...");
}
@after {
  exitOption($start);
}
: ^(a=ASSIGN ID v=optionValue)
  {
    if ( block ) blockOption($ID, $v.start); // most specific first
    else if ( rule ) ruleOption($ID, $v.start);
    else grammarOption($ID, $v.start);
  }
;

```

```

optionValue returns [String v]
@init {
  enterOptionValue($start);
  $v = $start.token.getText();
}
@after {
  exitOptionValue($start);
}

```

```
}  
: ID  
| STRING_LITERAL  
| INT  
;
```

```
delegateGrammars  
@init {  
  enterDelegateGrammars($start);  
}  
@after {  
  exitDelegateGrammars($start);  
}  
: ^(IMPORT delegateGrammar+)  
;
```

```
delegateGrammar  
@init {  
  enterDelegateGrammar($start);  
}  
@after {  
  exitDelegateGrammar($start);  
}  
: ^(ASSIGN label=ID id=ID) {importGrammar($label, $id);}  
| id=ID {importGrammar(null, $id);} ;
```

```
tokensSpec  
@init {  
  enterTokensSpec($start);  
}  
@after {  
  exitTokensSpec($start);  
}  
: ^(TOKENS_SPEC tokenSpec+)  
;
```

```
tokenSpec  
@init {  
  enterTokenSpec($start);  
}  
@after {  
  exitTokenSpec($start);  
}  
: ID {defineToken($ID);} ;
```

```
channelsSpec
```

```

@init {
    enterChannelsSpec($start);
}
@after {
    exitChannelsSpec($start);
}
: ^(CHANNELS channelSpec+)
;

channelSpec
@init {
    enterChannelSpec($start);
}
@after {
    exitChannelSpec($start);
}
: ID {defineChannel($ID);}
;

action
@init {
    enterAction($start);
}
@after {
    exitAction($start);
}
: ^(AT sc=ID? name=ID ACTION) {globalNamedAction($sc, $name, (ActionAST)$ACTION);}
;

rules
@init {
    enterRules($start);
}
@after {
    exitRules($start);
}
: ^(RULES {discoverRules($RULES);} (rule|lexerRule)* {finishRules($RULES);})
;

mode
@init {
    enterMode($start);
}
@after {
    exitMode($start);
}
: ^( MODE ID {currentModeName=$ID.text; modeDef($MODE, $ID);} lexerRule* )
;

```

```

lexerRule
@init {
    enterLexerRule($start);
    List<GrammarAST> mods = new ArrayList<GrammarAST>();
    currentOuterAltNumber=0;
}
@after {
    exitLexerRule($start);
}
: ^( RULE TOKEN_REF
    {currentRuleName=$TOKEN_REF.text; currentRuleAST=$RULE;}
    (^(RULEMODIFIERS m=FRAGMENT {mods.add($m);}))?
    {discoverLexerRule((RuleAST)$RULE, $TOKEN_REF, mods, (GrammarAST)input.LT(1));}
    lexerRuleBlock
    {
        finishLexerRule((RuleAST)$RULE, $TOKEN_REF, $lexerRuleBlock.start);
        currentRuleName=null; currentRuleAST=null;
    }
    )
;

rule
@init {
    enterRule($start);
    List<GrammarAST> mods = new ArrayList<GrammarAST>();
    List<GrammarAST> actions = new ArrayList<GrammarAST>(); // track roots
    currentOuterAltNumber=0;
}
@after {
    exitRule($start);
}
: ^( RULE RULE_REF {currentRuleName=$RULE_REF.text; currentRuleAST=$RULE;}
    (^(RULEMODIFIERS (m=ruleModifier {mods.add($m.start);}+)))?
    ARG_ACTION?
    ret=ruleReturns?
    thr=throwsSpec?
    loc=locals?
    ( opts=optionsSpec
    | a=ruleAction {actions.add($a.start);}
    )*
    {discoverRule((RuleAST)$RULE, $RULE_REF, mods, (ActionAST)$ARG_ACTION,
        $ret.start!=null?(ActionAST)$ret.start.getChild(0):null,
        $thr.start, $opts.start,
        $loc.start!=null?(ActionAST)$loc.start.getChild(0):null,
        actions, (GrammarAST)input.LT(1));}
    ruleBlock exceptionGroup
    {finishRule((RuleAST)$RULE, $RULE_REF, $ruleBlock.start); currentRuleName=null; currentRuleAST=null;}

```

```

    )
    ;

exceptionGroup
@init {
    enterExceptionGroup($start);
}
@after {
    exitExceptionGroup($start);
}
: exceptionHandler* finallyClause?
;

exceptionHandler
@init {
    enterExceptionHandler($start);
}
@after {
    exitExceptionHandler($start);
}
: ^(CATCH ARG_ACTION ACTION) {ruleCatch($ARG_ACTION, (ActionAST)$ACTION);}
;

finallyClause
@init {
    enterFinallyClause($start);
}
@after {
    exitFinallyClause($start);
}
: ^(FINALLY ACTION) {finallyAction((ActionAST)$ACTION);}
;

locals
@init {
    enterLocals($start);
}
@after {
    exitLocals($start);
}
: ^(LOCALS ARG_ACTION)
;

ruleReturns
@init {
    enterRuleReturns($start);
}
@after {

```



```
exitRuleReturns($start);
}
: ^(RETURNS ARG_ACTION)
;
```

```
throwsSpec
@init {
  enterThrowsSpec($start);
}
@after {
  exitThrowsSpec($start);
}
: ^(THROWS ID+)
;
```

```
ruleAction
@init {
  enterRuleAction($start);
}
@after {
  exitRuleAction($start);
}
: ^(AT ID ACTION)
;
```

```
ruleModifier
@init {
  enterRuleModifier($start);
}
@after {
  exitRuleModifier($start);
}
: PUBLIC
| PRIVATE
| PROTECTED
| FRAGMENT
;
```

```
lexerRuleBlock
@init {
  enterLexerRuleBlock($start);
}
@after {
  exitLexerRuleBlock($start);
}
: ^( BLOCK
( {
  currentOuterAltRoot = (GrammarAST)input.LT(1);
```

```
currentOuterAltNumber++;
}
lexerOuterAlternative
)+
)
;
```

ruleBlock

```
@init {
enterRuleBlock($start);
}
@after {
exitRuleBlock($start);
}
: ^( BLOCK
( {
currentOuterAltRoot = (GrammarAST)input.LT(1);
currentOuterAltNumber++;
}
outerAlternative
)+
)
;
```

lexerOuterAlternative

```
@init {
enterLexerOuterAlternative((AltAST)$start);
discoverOuterAlt((AltAST)$start);
}
@after {
finishOuterAlt((AltAST)$start);
exitLexerOuterAlternative((AltAST)$start);
}
: lexerAlternative
;
```

outerAlternative

```
@init {
enterOuterAlternative((AltAST)$start);
discoverOuterAlt((AltAST)$start);
}
@after {
finishOuterAlt((AltAST)$start);
exitOuterAlternative((AltAST)$start);
}
: alternative
;
```

```
lexerAlternative
@init {
  enterLexerAlternative($start);
}
@after {
  exitLexerAlternative($start);
}
: ^(LEXER_ALT_ACTION lexerElements lexerCommand+)
  | lexerElements
;
```

```
lexerElements
@init {
  enterLexerElements($start);
}
@after {
  exitLexerElements($start);
}
: ^(ALT lexerElement+)
;
```

```
lexerElement
@init {
  enterLexerElement($start);
}
@after {
  exitLexerElement($start);
}
: labeledLexerElement
  | lexerAtom
  | lexerSubrule
  | ACTION    {actionInAlt((ActionAST)$ACTION);}
  | SEMPRED   {sempredInAlt((PredAST)$SEMPRED);}
  | ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
  | ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
  | EPSILON
;
```

```
labeledLexerElement
@init {
  enterLabeledLexerElement($start);
}
@after {
  exitLabeledLexerElement($start);
}
: ^((ASSIGN|PLUS_ASSIGN) ID (lexerAtom|block))
;
```

```
lexerBlock
@init {
  enterLexerBlock($start);
}
@after {
  exitLexerBlock($start);
}
: ^(BLOCK optionsSpec? lexerAlternative+)
;
```

```
lexerAtom
@init {
  enterLexerAtom($start);
}
@after {
  exitLexerAtom($start);
}
: terminal
| ^(NOT blockSet)
| blockSet
| ^(WILDCARD elementOptions)
| WILDCARD
| LEXER_CHAR_SET
| range
| ruleref
;
```

```
actionElement
@init {
  enterActionElement($start);
}
@after {
  exitActionElement($start);
}
: ACTION
| ^(ACTION elementOptions)
| SEMPRED
| ^(SEMPRED elementOptions)
;
```

```
alternative
@init {
  enterAlternative((AltAST)$start);
  discoverAlt((AltAST)$start);
}
@after {
  finishAlt((AltAST)$start);
}
```

```

exitAlternative((AltAST)$start);
}
: ^(ALT elementOptions? element+)
| ^(ALT elementOptions? EPSILON)
;

lexerCommand
@init {
enterLexerCommand($start);
}
@after {
exitLexerCommand($start);
}
: ^(LEXER_ACTION_CALL ID lexerCommandExpr)
  {lexerCallCommand(currentOuterAltNumber, $ID, $lexerCommandExpr.start);}
| ID
  {lexerCommand(currentOuterAltNumber, $ID);}
;

lexerCommandExpr
@init {
enterLexerCommandExpr($start);
}
@after {
exitLexerCommandExpr($start);
}
: ID
| INT
;

element
@init {
enterElement($start);
}
@after {
exitElement($start);
}
: labeledElement
| atom
| subrule
| ACTION    {actionInAlt((ActionAST)$ACTION);}
| SEMPRED   {sempredInAlt((PredAST)$SEMPRED);}
| ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
| ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
| range
| ^(NOT blockSet)
| ^(NOT block)
;

```

```
astOperand
@init {
  enterAstOperand($start);
}
@after {
  exitAstOperand($start);
}
: atom
| ^(NOT blockSet)
| ^(NOT block)
;
```

```
labeledElement
@init {
  enterLabeledElement($start);
}
@after {
  exitLabeledElement($start);
}
: ^((ASSIGN|PLUS_ASSIGN) ID element) {label($start, $ID, $element.start);}
;
```

```
subrule
@init {
  enterSubrule($start);
}
@after {
  exitSubrule($start);
}
: ^(blockSuffix block)
| block
;
```

```
lexerSubrule
@init {
  enterLexerSubrule($start);
}
@after {
  exitLexerSubrule($start);
}
: ^(blockSuffix lexerBlock)
| lexerBlock
;
```

```
blockSuffix
@init {
  enterBlockSuffix($start);
```

```
}
@after {
  exitBlockSuffix($start);
}
: ebnfSuffix
;
```

```
ebnfSuffix
@init {
  enterEbnfSuffix($start);
}
@after {
  exitEbnfSuffix($start);
}
: OPTIONAL
| CLOSURE
| POSITIVE_CLOSURE
;
```

```
atom
@init {
  enterAtom($start);
}
@after {
  exitAtom($start);
}
: ^(DOT ID terminal)
| ^(DOT ID ruleref)
| ^(WILDCARD elementOptions) { wildcardRef($WILDCARD);}
| WILDCARD { wildcardRef($WILDCARD);}
| terminal
| blockSet
| ruleref
;
```

```
blockSet
@init {
  enterBlockSet($start);
}
@after {
  exitBlockSet($start);
}
: ^(SET setElement+)
;
```

```
setElement
@init {
  enterSetElement($start);
}
```

```

}
@after {
  exitSetElement($start);
}
: ^(STRING_LITERAL elementOptions) {stringRef((TerminalAST)$STRING_LITERAL);}
| ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
| STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}
| TOKEN_REF {tokenRef((TerminalAST)$TOKEN_REF);}
| ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
{
  stringRef((TerminalAST)$a);
  stringRef((TerminalAST)$b);
}
| LEXER_CHAR_SET
;

```

```

block
@init {
  enterBlock($start);
}
@after {
  exitBlock($start);
}
: ^(BLOCK optionsSpec? ruleAction* ACTION? alternative+)
;

```

```

ruleref
@init {
  enterRuleref($start);
}
@after {
  exitRuleref($start);
}
: ^(RULE_REF arg=ARG_ACTION? elementOptions?)
{
  ruleRef($RULE_REF, (ActionAST)$ARG_ACTION);
  if ( $arg!=null ) actionInAlt((ActionAST)$arg);
}
;

```

```

range
@init {
  enterRange($start);
}
@after {
  exitRange($start);
}
: ^(RANGE STRING_LITERAL STRING_LITERAL)

```



```

;

terminal
@init {
  enterTerminal($start);
}
@after {
  exitTerminal($start);
}
: ^(STRING_LITERAL elementOptions)
  {stringRef((TerminalAST)$STRING_LITERAL);}
| STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}
| ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
| TOKEN_REF {tokenRef((TerminalAST)$TOKEN_REF);}
;

elementOptions
@init {
  enterElementOptions($start);
}
@after {
  exitElementOptions($start);
}
: ^(ELEMENT_OPTIONS elementOption[(GrammarASTWithOptions)$start.getParent()]*);
;

elementOption[GrammarASTWithOptions t]
@init {
  enterElementOption($start);
}
@after {
  exitElementOption($start);
}
: ID {elementOption(t, $ID, null);}
| ^(ASSIGN id=ID v=ID) {elementOption(t, $id, $v);}
| ^(ASSIGN ID v=STRING_LITERAL) {elementOption(t, $ID, $v);}
| ^(ASSIGN ID v=ACTION) {elementOption(t, $ID, $v);}
| ^(ASSIGN ID v=INT) {elementOption(t, $ID, $v);}
;

```

Found in path(s):

* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/parse/GrammarTreeVisitor.g

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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/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg

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*/

// File : A3Lexer.g

// Author : Jim Idle (jimi@temporal-wave.com)

// Copyright : Free BSD - See @header clause below

// Version : First implemented as part of ANTLR 3.2 this is the self

// hosting ANTLR 3 Lexer.

//

// Description

// -----

// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other

// 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
 *
 * Terence Parr
 * University of San Francisco
 * 2005
 * Jim Idle (this v3 grammar)
 * Temporal Wave LLC
 * 2009
 */
lexer grammar ANTLRLexer;

// =====
// Note that while this grammar does not care about order of constructs
// that don't really matter, such as options before @header etc, it must first
// be parsed by the original v2 parser, before it replaces it. That parser does
// care about order of structures. Hence we are constrained by the v2 parser
// for at least the first bootstrap release that causes this parser to replace
// the v2 version.

```

```
// =====
```

```
// -----
```

```
// Options
```

```
//
```

```
// V3 option directives to tell the tool what we are asking of it for this
```

```
// grammar.
```

```
//
```

```
options {
```

```
    // Target language is Java, which is the default but being specific
```

```
    // here as this grammar is also meant as a good example grammar for
```

```
    // for users.
```

```
    //
```

```
    language    = Java;
```

```
    // The super class that this lexer should expect to inherit from, and
```

```
    // which contains any and all support routines for the lexer. This is
```

```
    // commented out in this baseline (definitive or normative grammar)
```

```
    // - see the ANTLR tool implementation for hints on how to use the super
```

```
    // class
```

```
    //
```

```
    //superclass = AbstractA3Lexer;
```

```
}
```

```
tokens { SEMPRED; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }
```

```
// Include the copyright in this source and also the generated source
```

```
//
```

```
@lexer::header {
```

```
/*
```

```
[The "BSD licence"]
```

```
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```

```
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```

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```
*/
```

```
package org.antlr.v4.parse;  
import org.antlr.v4.tool.*;  
import org.antlr.v4.runtime.misc.Interval;  
}
```

```
@members {
```

```
public static final int COMMENTS_CHANNEL = 2;
```

```
public CommonTokenStream tokens; // track stream we push to; need for context info
```

```
public boolean isLexerRule = false;
```

```
public void grammarError(ErrorType etype, org.antlr.runtime.Token token, Object... args) { }
```

```
/** scan backwards from current point in this.tokens list
```

```
 * looking for the start of the rule or subrule.
```

```
 * Return token or null if for some reason we can't find the start.
```

```
*/
```

```
public Token getRuleOrSubruleStartToken() {
```

```
    if ( tokens==null ) return null;
```

```
    int i = tokens.index();
```

```
        int n = tokens.size();
```

```
        if ( i>=n ) i = n-1; // seems index == n as we lex
```

```
    while ( i>=0 && i<n ) {
```

```
        int ttype = tokens.get(i).getType();
```

```
        if ( ttype == LPAREN || ttype == TOKEN_REF || ttype == RULE_REF ) {
```

```
            return tokens.get(i);
```

```
        }
```

```
        i--;
```

```
    }
```

```
    return null;
```

```
}
```

```
}
```

```
// -----
```

```
// Comments
```

```
//
```

```
// ANTLR comments can be multi or single line and we don't care
```

```
// which particularly. However we also accept Javadoc style comments
```

```

// of the form: /** ... */ and we do take care to distinguish those
// from ordinary multi-line comments
// Note how we guide the lexical PATH because we want to issue a decriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We 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 accidentally
  // recognizing a comment /**/ as a documentation comment
  //
  /** (
    { input.LA(2) != '/' }?=> '*' { $type = DOC_COMMENT; }
    | { true }?=> // Required to cover all alts with predicates
  )

  // Should we support embedded multiline comments here?
  //
  (
    // Pick out end of multiline comment and exit the loop

```

```

    // if we find it.
    //
    { !(input.LA(1) == '*' && input.LA(2) == '/') }?

    // Anything else other than the non-greedy match of
    // the comment close sequence
    //
    .
  )*
  (
    // Look for the comment terminator, but if it is accidentally
    // unterminated, then we will hit EOF, which will trigger the
    // epsilon alt and hence we can issue an error message relative
    // to the start of the unterminated multi-line comment
    //
    /*

  | // Unterminated comment!
    //
    {
      // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,
offset, $pos, (Object)null);
    }
  )

  | // There was nothing that made sense following the opening '/' and so
  // we issue an error regarding the malformed comment
  //
  {
    // TODO: Insert error message relative to comment start
    //
  }
)
{
  // We do not wish to pass the comments in to the parser. If you are
  // writing a formatter then you will want to preserve the comments off
  // channel, but could just skip and save token space if not.
  //
  $channel=COMMENTS_CHANNEL;
}
;

```

ARG_OR_CHARSET

options {k=1;}

: {isLexerRule}?=> LEXER_CHAR_SET {\$type=LEXER_CHAR_SET;}

| {!isLexerRule}?=> ARG_ACTION

{

\$type=ARG_ACTION;


```

// Set the token text to our gathered string minus outer [ ]
String t = $text;
t = t.substring(1,t.length()-1);
setText(t);
}
;

fragment
LEXER_CHAR_SET
: '['
  ( '\\' ~('\r'\n')
    | ~('\r'\n'\\'']')
  )*
  ']'
;

// -----
// Argument specs
//
// Certain argument lists, such as those specifying call parameters
// to a rule invocation, or input parameters to a rule specification
// are contained within square brackets. In the lexer we consume them
// all at once and sort them out later in the grammar analysis.
//
fragment
ARG_ACTION
: '['
  (
    ARG_ACTION

    | ('')=>ACTION_STRING_LITERAL

    | ('\')=>ACTION_CHAR_LITERAL

    | ~('[']')
  )*
  ']'
;

// -----
// Actions
//
// Other than making sure to distinguish between { and } embedded
// within what we have assumed to be literals in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by { }) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere

```

```

// in the upcoming parse, so setting the text here to exclude
// the delimiting {} is no additional overhead.
//
ACTION
: NESTED_ACTION
('?' {$type = SEMPRED;}
 ( (WSNLCHARS* '=>') => WSNLCHARS* '=>' // v3 gated sempred
  {
  Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
  t.setLine(state.tokenStartLine);
  t.setText(state.text);
  t.setCharPositionInLine(state.tokenStartCharPositionInLine);
  grammarError(ErrorType.V3_GATED_SEMPRED, t);
  }
 )?
 )?
 ;

// -----
// Action structure
//
// Many language targets use {} as block delimiters and so we
// must recursively match {} delimited blocks to balance the
// braces. Additionally, we must make some assumptions about
// literal string representation in the target language. We assume
// that they are delimited by ' or " and so consume these
// in their own alts so as not to 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.setCharacterPositionInLine(state.tokenStartCharPositionInLine);
    grammarError(ErrorType.V3_SYNPRED, t);
    $channel=HIDDEN;
}
;
STAR        : '*'      ;
PLUS        : '+'      ;
PLUS_ASSIGN : '+='     ;
OR          : '|'      ;
DOLLAR      : '$'      ;
DOT         : '.'      ; // can be WILDCARD or DOT in qid or imported rule ref
RANGE       : '..'     ;
AT          : '@'      ;
POUND       : '#'      ;
NOT         : '~'      ;
RBRACE      : '}'      ;

/** Allow unicode rule/token names */
ID : a=NameStartChar NameChar*
{
    if ( Grammar.isTokenName($a.text) ) $type = TOKEN_REF;
    else $type = RULE_REF;
}

```

```

;

fragment
NameChar : NameStartChar
    | '0'..'9'
    | '_'
    | '\u00B7'
    | '\u0300'..\u036F'
    | '\u203F'..\u2040'
;

fragment
NameStartChar
    : 'A'..'Z' | 'a'..'z'
    | '\u00C0'..\u00D6'
    | '\u00D8'..\u00F6'
    | '\u00F8'..\u02FF'
    | '\u0370'..\u037D'
    | '\u037F'..\u1FFF'
    | '\u200C'..\u200D'
    | '\u2070'..\u218F'
    | '\u2C00'..\u2FEF'
    | '\u3001'..\uD7FF'
    | '\uF900'..\uFDCF'
    | '\uFDF0'..\uFEFE'
    | '\uFF00'..\uFFFD'
    ; // ignores | [\u10000-\uEFFFF] ;

// -----
// Literals embedded in actions
//
// Note that we have made the assumption that the language used within
// actions uses the fairly standard " and ' delimiters for literals and
// that within these literals, characters are escaped using the \ character.
// There are some languages which do not conform to this in all cases, such
// as by using /string/ and so on. We will have to deal with such cases if
// if they come up in targets.
//
// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal characters. Within these, we do
// not want to 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_ESC

    | // A Swift/Hack style Unicode escape sequence
    UNICODE_EXTENDED_ESC

    | // 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));
    }
)
;

fragment
UNICODE_ESC
@init {

    // Flag to tell us whether we have a valid number of
    // hex digits in the escape sequence
    //
    int hCount = 0;
}
: 'u' // Leadin for unicode escape sequence

    // We now require 4 hex digits. Note though
    // that we accept any number of characters
    // and issue an error if we do not get 4. We cannot
    // use an 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++; }
    (
    // Four valid hex digits, we are good
    //
    HEX_DIGIT { hCount++; }

    | // Three valid digits
    )
    | // Two valid digits
    )
    | // One valid digit
    )
    )
    | // No valid hex digits at all
    )

    // Now check the digit count and issue an error if we need to

```

```

//
{
  if (hCount < 4) {
    Interval badRange = Interval.of(getCharIndex()-2-hCount, getCharIndex());
    String lastChar = input.substring(badRange.b, badRange.b);
    if ( lastChar.codePointAt(0)=="\") {
      badRange.b--;
    }
    String bad = input.substring(badRange.a, badRange.b);
    Token t = new CommonToken(input, state.type, state.channel, badRange.a, badRange.b);
    t.setLine(input.getLine());
    t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
    grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, bad);
  }
}
;

fragment
UNICODE_EXTENDED_ESC
: 'u{' // Leadin for unicode extended escape sequence

    HEX_DIGIT+ // One or more hexadecimal digits

    '}' // Leadout for unicode extended escape sequence

// Now check the digit count and issue an error if we need to
{
  int numDigits = getCharIndex()-state.tokenStartCharIndex-6;
  if (numDigits > 6) {
    Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-
1);
    t.setText(t.getText());
    t.setLine(input.getLine());
    t.setCharPositionInLine(input.getCharPositionInLine()-numDigits);
    grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t,
input.substring(state.tokenStartCharIndex,getCharIndex()-1));
  }
}
;

// -----
// Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS

```

```

: (
  ''
  | '\t'
  | '\r'
  | '\n'
  | '\f'
)+
{$channel=HIDDEN;}
;

// A fragment rule for use in recognizing end of line in
// rules like COMMENT.
//
fragment
NLCHARS
: '\n' | '\r'
;

// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.
//
fragment
WSCHARS
: ' ' | '\t' | '\f'
;

// A fragment rule for recognizing both traditional whitespace and
// end of line markers, when we don't care to distinguish but don't
// want any action code going on.
//
fragment
WSNLCHARS
: ' ' | '\t' | '\f' | '\n' | '\r'
;

// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a
// byte order mark. Since this Unicode character doesn't appear as a token
// anywhere else in the grammar, we can simply skip all instances of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
// STRING_LITERAL.
UnicodeBOM
: '\uFEFF' {skip();}
;

// -----
// Illegal Character
//
// This is an illegal character trap which is always the last rule in the

```

```

// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the gramamr 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/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/parse/ANTLRLexer.g

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* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/parse/ANTLRParser.java

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*/

javaTypeInitMap ::= [

"int": "0",

"long": "0",

"float": "0.0f",

"double": "0.0",

"boolean": "false",

"byte": "0",

"short": "0",

"char": "0",

```

default:"null" // anything other than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.atn.*;
import org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.misc.*;
import org.antlr.v4.runtime.tree.*;
import java.util.List;
import java.util.Iterator;
import java.util.ArrayList;

<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeListener;

/**
 * This interface defines a complete listener for a parse tree produced by
 * { @link <file.parserName> }.
 */
public interface <file.grammarName>Listener extends ParseTreeListener {
    <file.listenerNames>:{Iname |
/**
<if(file.listenerLabelRuleNames.(Iname))>
 * Enter a parse tree produced by the { @code <Iname>}
 * labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(Iname)>}.
<else>
 * Enter a parse tree produced by { @link <file.parserName>#<Iname>}.
<endif>
 * @param ctx the parse tree
 */
void enter<Iname; format="cap">(<file.parserName>.<Iname; format="cap">Context ctx);
/**

```

```

<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the { @code <lname>\}
* labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Exit a parse tree produced by { @link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
*/
void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);; separator="\n">
}
>>

```

```

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>

```

```

import org.antlr.v4.runtime.ParserRuleContext;
import org.antlr.v4.runtime.tree.ErrorNode;
import org.antlr.v4.runtime.tree.TerminalNode;

```

```
/**
```

```

* This class provides an empty implementation of { @link <file.grammarName>Listener},
* which can be extended to create a listener which only needs to handle a subset
* of the available methods.

```

```
*/
```

```

public class <file.grammarName>BaseListener implements <file.grammarName>Listener {
<file.listenerNames: {lname |

```

```
/**
```

```

* { @inheritDoc\}

```

```
*
```

```

* \<p>The default implementation does nothing.\</p>

```

```
*/
```

```

@Override public void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}

```

```
/**
```

```

* { @inheritDoc\}

```

```
*
```

```

* \<p>The default implementation does nothing.\</p>

```

```
*/
```

```

@Override public void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \};
separator="\n">

```

```
/**
```

```

* { @inheritDoc\}

```

```
*
```

```

* \<p>The default implementation does nothing.\</p>

```

```

*/
@Override public void enterEveryRule(ParserRuleContext ctx) { }
/**
 * {@inheritDoc}
 *
 * \<p>The default implementation does nothing.\</p>
 */
@Override public void exitEveryRule(ParserRuleContext ctx) { }
/**
 * {@inheritDoc}
 *
 * \<p>The default implementation does nothing.\</p>
 */
@Override public void visitTerminal(TerminalNode node) { }
/**
 * {@inheritDoc}
 *
 * \<p>The default implementation does nothing.\</p>
 */
@Override public void visitErrorNode(ErrorNode node) { }
}
>>

```

```

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeVisitor;

/**
 * This interface defines a complete generic visitor for a parse tree produced
 * by { @link <file.parserName> }.
 *
 * @param \<T> The return type of the visit operation. Use { @link Void } for
 * operations with no return type.
 */
public interface <file.grammarName>Visitor\<T> extends ParseTreeVisitor\<T> {
    <file.visitorNames:{ Iname |
/**
<if(file.visitorLabelRuleNames.(Iname))>
 * Visit a parse tree produced by the { @code <Iname>}
 * labeled alternative in { @link <file.parserName>#<file.visitorLabelRuleNames.(Iname)>}|.
<else>
 * Visit a parse tree produced by { @link <file.parserName>#<Iname>}|.
<endif>
 * @param ctx the parse tree

```



```

* @return the visitor result
*/
T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.AbstractParseTreeVisitor;

/**
 * This class provides an empty implementation of { @link <file.grammarName>Visitor},
 * which can be extended to create a visitor which only needs to handle a subset
 * of the available methods.
 *
 * @param \<T> The return type of the visit operation. Use { @link Void} for
 * operations with no return type.
 */
public class <file.grammarName>BaseVisitor\<T> extends AbstractParseTreeVisitor\<T> implements
<file.grammarName>Visitor\<T> {
    <file.visitorNames:{ lname |
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation returns the result of calling
 * { @link #visitChildren\} on { @code ctx\}.\</p>
 */
    @Override public T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { return
visitChildren(ctx); \} }; separator="\n">
    }
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})
public class <parser.name> extends <superClass; null="Parser"> {
    static { RuntimeMetaData.checkVersion("<file.ANTLRVersion>", RuntimeMetaData.VERSION); }
}

```

```

protected static final DFA[] _decisionToDFA;
protected static final PredictionContextCache _sharedContextCache =
    new PredictionContextCache();
<if(parser.tokens)>
public static final int
    <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
<endif>
public static final int
    <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
private static String[] makeRuleNames() {
    return new String[] {
        <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
    };
}
public static final String[] ruleNames = makeRuleNames();

<vocabulary(parser.literalNames, parser.symbolicNames)>

@Override
public String getGrammarFileName() { return "<parser.grammarFileName; format="java-escape">"; }

@Override
public String[] getRuleNames() { return ruleNames; }

@Override
public String getSerializedATN() { return _serializedATN; }

@Override
public ATN getATN() { return _ATN; }

<namedActions.members>
<parser:(ctor)()>
<funcs; separator="\n">

<if(sempredFuncs)>
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
        <parser.sempredFuncs.values:{f}
    case <f.ruleIndex>:
        return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
    }
    return true;
}
<sempredFuncs.values; separator="\n">
<endif>

<atn>

```

```

}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static String[] makeLiteralNames() {
return new String[] {
<literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
}
private static final String[] _LITERAL_NAMES = makeLiteralNames();
private static String[] makeSymbolicNames() {
return new String[] {
<symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
}
private static final String[] _SYMBOLIC_NAMES = makeSymbolicNames();
public static final Vocabulary VOCABULARY = new VocabularyImpl(_LITERAL_NAMES,
_SYMBOLIC_NAMES);

/**
 * @deprecated Use {@link #VOCABULARY} instead.
 */
@Deprecated
public static final String[] tokenNames;
static {
tokenNames = new String[_SYMBOLIC_NAMES.length];
for (int i = 0; i < tokenNames.length; i++) {
tokenNames[i] = VOCABULARY.getLiteralName(i);
if (tokenNames[i] == null) {
tokenNames[i] = VOCABULARY.getSymbolicName(i);
}

if (tokenNames[i] == null) {
tokenNames[i] = "<INVALID>";
}
}
}

@Override
@Deprecated
public String[] getTokenNames() {
return tokenNames;
}

@Override

public Vocabulary getVocabulary() {
return VOCABULARY;
}

```

```

}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
@Override
public void action(RuleContext _localctx, int ruleIndex, int actionIndex) {
    switch (ruleIndex) {
        <recog.actionFuncs.values:{f|
        case <f.ruleIndex>:
            <f.name>_action((<f.ctxType>)_localctx, actionIndex);
            break;}; separator="\n">
        }
    }
    <actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
@Override
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
        <recog.sempredFuncs.values:{f|
        case <f.ruleIndex>:
            return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
        }
        return true;
    }
    <sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
public <p.name>(TokenStream input) {
    super(input);
    _interp = new ParserATNSimulator(this, _ATN, _decisionToDFA, _sharedContextCache);
}
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
    switch (actionIndex) {
        <actions:{index|
        case <index>:
            <actions.(index)>
            break;}; separator="\n">
        }
    }
}

```

```

}
>>

/* This generates a private method since the predIndex is generated, making an
 * overriding implementation impossible to maintain.
 */
RuleSempredFunction(r, actions) ::= <<
private boolean <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
  switch (predIndex) {
    <actions:{index|
case <index>:
return <actions.(index)>;}; separator="\n">
  }
  return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.name>(<args; separator=",">) throws RecognitionException {
  <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, getState())<currentRule.args:{a | ,
<a.name>}>>;
  enterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
  <namedActions.init>
  <locals; separator="\n">
  try {
  <if(currentRule.hasLookaheadBlock)>
  int _alt;
  <endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
  }
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  catch (RecognitionException re) {
    _localctx.exception = re;
    _errHandler.reportError(this, re);
    _errHandler.recover(this, re);
  }
  <endif>
  finally {

```

```

    <finallyAction>
    exitRule();
  }
  return _localctx;
}
>>

```

```

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
  namedActions,finallyAction,postamble) ::=
<<

```

```

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

```

```

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.name>(<args; separator=", ">) throws RecognitionException {
  return <currentRule.name>(0<currentRule.args:{a | , <a.name>}>);
}

```

```

private <currentRule.ctxType> <currentRule.name>(int _p<args:{a | , <a>}>) throws RecognitionException {
  ParserRuleContext _parentctx = _ctx;
  int _parentState = getState();
  <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,
  <a.name>}>);
  <currentRule.ctxType> _prevctx = _localctx;
  int _startState = <currentRule.startState>;
  enterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
  <namedActions.init>
  <locals; separator="\n">
  try {
    <if(currentRule.hasLookaheadBlock)>
    int _alt;
  <endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
  }
  catch (RecognitionException re) {
    _localctx.exception = re;
    _errHandler.reportError(this, re);
    _errHandler.recover(this, re);
  }
  finally {
    <finallyAction>
    unrollRecursionContexts(_parentctx);
  }
  return _localctx;
}

```

>>

```
CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>
```

```
CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>
```

```
LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble; separator="\n">
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">
default:
<error>
}
>>
```

```
LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">
default:
break;
}
>>
```

```
LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<preamble; separator="\n">
if (<expr>) {
```

```

    <alts; separator="\n">
  }
  <!else if ( !(<followExpr> ) <error>!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
  setState(<choice.stateNumber>);
  _errHandler.sync(this);
  <preamble; separator="\n">
  while (<loopExpr> ) {
    <alts; separator="\n">
    setState(<choice.loopBackStateNumber>);
    _errHandler.sync(this);
    <iteration>
  }
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
  setState(<choice.blockStartStateNumber>); <! alt block decision !>
  _errHandler.sync(this);
  <preamble; separator="\n">
  do {
    <alts; separator="\n">
    setState(<choice.stateNumber>); <! loopback/exit decision !>
    _errHandler.sync(this);
    <iteration>
  } while ( <loopExpr> );
>>

```

```

// LL(*) stuff

```

```

AltBlock(choice, preamble, alts, error) ::= <<
  setState(<choice.stateNumber>);
  _errHandler.sync(this);
  <if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
  <preamble; separator="\n">
  switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
    <alts:{alt |
  case <i>:
    <alt>
    break;}; separator="\n">
  }
>>

```

```

OptionalBlock(choice, alts, error) ::= <<
  setState(<choice.stateNumber>);
  _errHandler.sync(this);
  switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {

```



```

<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
  break;}; separator="\n">
}
>>

```

```

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
_alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER ) {
if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
}
setState(<choice.loopBackStateNumber>);
_errHandler.sync(this);
_alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
}
>>

```

```

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
  switch ( _alt ) {
  <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
  break;}; separator="\n">
  default:
  <error>
  }
  setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
  _errHandler.sync(this);
  _alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER );
>>

```

```

Sync(s) ::= "sync(<s.expecting.name>);"

```

```

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

```

```

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">

```

```

>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange(<offsetShift(s.varName, bits.shift)>)> && ((1L \<< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ ttype | (1L \<< <offsetShift(ttype, bits.shift)>)}; separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ ttype | <s.varName>==<ttype>}; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{ t | case <t>}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>);
<if(r.labels)><r.labels:{1 | <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:{1 | <labelref(l)> = }><endif>match(<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<

```

```

setState(<m.stateNumber>);
<if(m.labels)><m.labels:{1 | <labelref(l)> = }>_input.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>)) {
  <if(m.labels)><m.labels:{1 | <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:{1 | <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>"
RetValRef(a) ::= "_localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>";

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getText():null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getType():0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getLine():0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getCharPositionInLine():0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getChannel():0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getTokenIndex():0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label>!=null?Integer.valueOf(<ctx(t)>.<t.label>.getText():0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.start):null)"
RulePropertyRef_stop(r) ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_text(r) ::=
"(<ctx(r)>.<r.label>!=null?_input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r) ::= "_localctx.stop"
ThisRulePropertyRef_text(r) ::= "_input.getText(_localctx.start, _input.LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "_localctx"
ThisRulePropertyRef_parser(r) ::= "this"

NonLocalAttrRef(s) ::= "(<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::=
"(<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>";

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType()> <t.name>"
TokenTypeDecl(t) ::= "int <t.name>;"
TokenListDecl(t) ::= "List<Token> <t.name> = new ArrayList<Token>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.name>"
RuleContextListDecl(rdecl) ::= "List<<rdecl.ctxName>> <rdecl.name> = new ArrayList<<rdecl.ctxName>>()"

ContextTokenGetterDecl(t) ::=

```

```

    "public TerminalNode <t.name>() { return getToken(<parser.name>.<t.name>, 0); }"
ContextTokenListGetterDecl(t) ::=
    "public List<TerminalNode> <t.name>() { return getTokens(<parser.name>.<t.name>); }"
ContextTokenListIndexedGetterDecl(t) ::= <<
public TerminalNode <t.name>(int i) {
    return getToken(<parser.name>.<t.name>, i);
}
>>
ContextRuleGetterDecl(r)    ::= <<
public <r.ctxName> <r.name>() {
    return getRuleContext(<r.ctxName>.class,0);
}
>>
ContextRuleListGetterDecl(r) ::= <<
public List<<<r.ctxName>> <r.name>() {
    return getRuleContexts(<r.ctxName>.class);
}
>>
ContextRuleListIndexedGetterDecl(r) ::= <<
public <r.ctxName> <r.name>(int i) {
    return getRuleContext(<r.ctxName>.class,i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "<tokenName>"
ImplicitRuleLabel(ruleName)    ::= "<ruleName>"
ImplicitSetLabel(id)           ::= "_tset<id>"
ListLabelName(label)          ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = _input.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = _input.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers)
 ::= <<
public static class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=", "><endif> {
    <attrs:{a | public <a>;}; separator="\n">
    <getters:{g | <g>;}; separator="\n">
    <if(ctorAttrs)>public <struct.name>(ParserRuleContext parent, int invokingState) { super(parent, invokingState);
    }<endif>
}

```

```

public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{ a | , <a>}>) {
    super(parent, invokingState);
    <struct.ctorAttrs:{ a | this.<a.name> = <a.name>;}; separator="\n">
}
@Override public int getRuleIndex() { return RULE_<struct.derivedFromName>; }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
public <struct.name>() { }
public void copyFrom(<struct.name> ctx) {
    super.copyFrom(ctx);
    <struct.attrs:{ a | this.<a.name> = ctx.<a.name>;}; separator="\n">
}
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">
}
>>

```

```

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
public static class <struct.name> extends <currentRule.name; format="cap">Context {
    <attrs:{ a | public <a>;}; separator="\n">
    <getters:{ g | <g>;}; separator="\n">
    public <struct.name>(<currentRule.name; format="cap">Context ctx) { copyFrom(ctx); }
    <dispatchMethods; separator="\n">
}
>>

```

```

ListenerDispatchMethod(method) ::= <<
@Override
public void <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener listener) {
    if ( listener instanceof <parser.grammarName>Listener )
        ((<parser.grammarName>Listener)listener).<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
format="cap">(this);
}
>>

```

```

VisitorDispatchMethod(method) ::= <<
@Override
public <T> T accept(ParseTreeVisitor<? extends T> visitor) {
    if ( visitor instanceof <parser.grammarName>Visitor ) return ((<parser.grammarName>Visitor<? extends
T>)visitor).visit<struct.derivedFromName; format="cap">(this);
    else return visitor.visitChildren(this);
}
>>

```

```

AttributeDecl(d) ::= "<d.type> <d.name><if(d.initValue)> = <d.initValue><endif>"

```

```

/** If we don't know location of label def x, use this template */

```

```

labelref(x) ::= "<if(!x.isLocal)>(<x.ctx.name>)_localctx.<endif><x.name>"

```

```

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "(<actionChunk.ctx.name>)_localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken() ::= "_ctx.stop = _input.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
<if(label)>_localctx.<label> = _prevctx;<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
_parentState));
<if(label)>
<if(isListLabel)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.add(_prevctx);
<else>
((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
<endif>
<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = new <ctxName>Context(_localctx);
_ctx = _localctx;
_prevctx = _localctx;
>>

recRuleSetPrevCtx() ::= <<
if ( _parseListeners!=null ) triggerExitRuleEvent();
_prevctx = _localctx;
>>

LexerFile(lexerFile, lexer, namedActions) ::= <<

```

```

<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
package <lexerFile.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.Lexer;
import org.antlr.v4.runtime.CharStream;
import org.antlr.v4.runtime.Token;
import org.antlr.v4.runtime.TokenStream;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.atn.*;
import org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.misc.*;

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})
public class <lexer.name> extends <superClass; null="Lexer"> {
    static { RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION); }

    protected static final DFA[] _decisionToDFA;
    protected static final PredictionContextCache _sharedContextCache =
        new PredictionContextCache();
    <if(lexer.tokens)>
    public static final int
        <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
    <endif>
    <if(lexer.channels)>
    public static final int
        <lexer.channels:{c | <c>=<lexer.channels.(c)>}; separator=", ", wrap, anchor>;
    <endif>
    <if(rest(lexer.modes)>
    public static final int
        <rest(lexer.modes):{m | <m>=<i>}; separator=", ", wrap, anchor>;
    <endif>
    public static String[] channelNames = {
        "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channels)>, <lexer.channels:{c| "<c>"}; separator=", ",
wrap, anchor><endif>
    };

    public static String[] modeNames = {
        <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
    };

    private static String[] makeRuleNames() {
        return new String[] {

```



```

    <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
    };
    }
    public static final String[] ruleNames = makeRuleNames();

    <vocabulary(lexer.literalNames, lexer.symbolicNames)>

    <namedActions.members>

    public <lexer.name>(CharStream input) {
        super(input);
        _interp = new LexerATNSimulator(this, _ATN, _decisionToDFA, _sharedContextCache);
    }

    @Override
    public String getGrammarFileName() { return "<lexer.grammarFileName>"; }

    @Override
    public String[] getRuleNames() { return ruleNames; }

    @Override
    public String getSerializedATN() { return _serializedATN; }

    @Override
    public String[] getChannelNames() { return channelNames; }

    @Override
    public String[] getModeNames() { return modeNames; }

    @Override
    public ATN getATN() { return _ATN; }

    <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
    <atn>
    }
    >>

    SerializedATN(model) ::= <<
    <if(rest(model.segments))>
    <! requires segmented representation !>
    private static final int _serializedATNSegments = <length(model.segments)>;
    <model.segments:{segment|private static final String _serializedATNSegment<i0> =
    "<segment; wrap={ "+<\n><\t>"}>";}; separator="\n">
    public static final String _serializedATN = Utils.join(
    new String[] {
        <model.segments:{segment | _serializedATNSegment<i0>}; separator=",\n">
    },
    ""

```

```

);
<else>
<! only one segment, can be inlined !>
public static final String _serializedATN =
"<model.serialized; wrap={"+<n><t>">";
<endif>
public static final ATN _ATN =
new ATNDeserializer().deserialize(_serializedATN.toCharArray());
static {
_decisionToDFA = new DFA[_ATN.getNumberOfDecisions()];
for (int i = 0; i < _ATN.getNumberOfDecisions(); i++) {
_decisionToDFA[i] = new DFA(_ATN.getDecisionState(i), i);
}
<! org.antlr.v4.tool.DOTGenerator dot = new org.antlr.v4.tool.DOTGenerator(null);!>
<! System.out.println(dot.getDOT(_ATN.decisionToState.get(0), ruleNames, false));!>
<! System.out.println(dot.getDOT(_ATN.ruleToStartState[2], ruleNames, false));!>
}
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".java"

```

Found in path(s):

```

* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
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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 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */

```
phpTypeInitMap ::= [
  "int": "0",
  "long": "0",
  "float": "0.0",
  "double": "0.0",
  "boolean": "false",
  default: "null"
]
```

// args must be <object-model-object>, <fields-resulting-in-STs>

```
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<parser>
>>
```

```
ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>
use Antlr\Antlr4\Runtime\Tree\ParseTreeListener;

/**
 * This interface defines a complete listener for a parse tree produced by
 * { @see <file.parserName> }.
 */
interface <file.grammarName>Listener extends ParseTreeListener {
  <file.listenerNames>:{Iname |
/**
<if(file.listenerLabelRuleNames.(Iname))>
 * Enter a parse tree produced by the `<Iname>`
```

```

* labeled alternative in { @see <file.parserName>::<file.listenerLabelRuleNames.(Iname)>()}.
<else>
* Enter a parse tree produced by { @see <file.parserName>::<Iname>()}.
<endif>
* @param $context The parse tree.
*/
public function enter<Iname; format="cap">(Context\<Iname; format="cap">Context $context) : void;
/**
<if(file.listenerLabelRuleNames.(Iname))>
* Exit a parse tree produced by the `<Iname>` labeled alternative
* in { @see <file.parserName>::<file.listenerLabelRuleNames.(Iname)>()}.
<else>
* Exit a parse tree produced by { @see <file.parserName>::<Iname>()}.
<endif>
* @param $context The parse tree.
*/
public function exit<Iname; format="cap">(Context\<Iname; format="cap">Context $context) : void;};
separator="\n">
}
>>

```

```

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>

```

```

use Antlr\Antlr4\Runtime\ParserRuleContext;
use Antlr\Antlr4\Runtime\Tree\ErrorNode;
use Antlr\Antlr4\Runtime\Tree\TerminalNode;

```

```

/**
* This class provides an empty implementation of { @see <file.grammarName>Listener},
* which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
class <file.grammarName>BaseListener implements <file.grammarName>Listener
{
<file.listenerNames: {Iname |
/**
* { @inheritdoc}
*
* The default implementation does nothing.
*/
public function enter<Iname; format="cap">(Context\<Iname; format="cap">Context $context) : void {}

/**

```

```

* {@inheritDoc}
*
* The default implementation does nothing.
*/
public function exit<lname; format="cap">(Context\<lname; format="cap">Context $context) : void {\};
separator="\n">

/**
 * {@inheritDoc}
 *
 * The default implementation does nothing.
 */
public function enterEveryRule(ParserRuleContext $context) : void {}

/**
 * {@inheritDoc}
 *
 * The default implementation does nothing.
 */
public function exitEveryRule(ParserRuleContext $context) : void {}

/**
 * {@inheritDoc}
 *
 * The default implementation does nothing.
 */
public function visitTerminal(TerminalNode $node) : void {}

/**
 * {@inheritDoc}
 *
 * The default implementation does nothing.
 */
public function visitErrorNode(ErrorNode $node) : void {}
}
>>

```

```

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>

```

```

<header>
use Antlr\Antlr4\Runtime\Tree\ParseTreeVisitor;

```

```

/**
 * This interface defines a complete generic visitor for a parse tree produced by {@see <file.parserName>}.

```

```

*/
interface <file.grammarName>Visitor extends ParseTreeVisitor
{
  <file.visitorNames:{ lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the `<lname>` labeled alternative
* in { @see <file.parserName>::<file.visitorLabelRuleNames.(lname)>() }.
<else>
* Visit a parse tree produced by { @see <file.parserName>::<lname>() }.
<endif>
*
* @param Context\\<lname; format="cap">Context $context The parse tree.
*
* @return mixed The visitor result.
*/
public function visit<lname; format="cap">(Context\\<lname; format="cap">Context $context);
separator="\n\n"
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>
use Antlr\\Antlr4\\Runtime\\Tree\\AbstractParseTreeVisitor;

/**
* This class provides an empty implementation of { @see <file.grammarName>Visitor },
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*/
class <file.grammarName>BaseVisitor extends AbstractParseTreeVisitor implements <file.grammarName>Visitor
{
  <file.visitorNames:{ lname |
/**
* { @inheritdoc }
*
* The default implementation returns the result of calling
* { @see self::visitChildren() } on `context`.
*/
public function visit<lname; format="cap">(Context\\<lname; format="cap">Context $context)
{
  return $this->visitChildren($context);
\\}); separator="\n\n"
}

```

>>

```
fileHeader(grammarFileName, ANTLRVersion) ::= <<  
\<?php
```

```
/*
```

```
* Generated from <grammarFileName> by ANTLR <ANTLRVersion>  
*/
```

>>

```
Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<  
<Parser_(ctor="parser_ctor", ...)>  
>>
```

```
Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<  
namespace<if(file.genPackage)> <file.genPackage><endif> {  
<if(namedActions.header)><namedActions.header><endif>  
use Antlr\Antlr4\Runtime\Atn\ATN;  
use Antlr\Antlr4\Runtime\Atn\ATNDeserializer;  
use Antlr\Antlr4\Runtime\Atn\ParserATNSimulator;  
use Antlr\Antlr4\Runtime\Dfa\DFA;  
use Antlr\Antlr4\Runtime\Error\Exceptions\FailedPredicateException;  
use Antlr\Antlr4\Runtime\Error\Exceptions\NoViableAltException;  
use Antlr\Antlr4\Runtime\PredictionContexts\PredictionContextCache;  
use Antlr\Antlr4\Runtime\Error\Exceptions\RecognitionException;  
use Antlr\Antlr4\Runtime\RuleContext;  
use Antlr\Antlr4\Runtime\Token;  
use Antlr\Antlr4\Runtime\TokenStream;  
use Antlr\Antlr4\Runtime\Vocabulary;  
use Antlr\Antlr4\Runtime\VocabularyImpl;  
use Antlr\Antlr4\Runtime\RuntimeMetaData;  
use Antlr\Antlr4\Runtime\Parser;  
<if(namedActions.definitions)><namedActions.definitions><endif>
```

```
final class <parser.name> extends <superClass; null="Parser">
```

```
{
```

```
<if(parser.tokens)>
```

```
public const <parser.tokens>:{k | <k> = <parser.tokens.(k)>}; separator=", ", wrap, anchor>;
```

```
<endif>
```

```
public const <parser.rules>:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
```

```
/**
```

```
* @var array<string>
```

```
*/
```

```
public const RULE_NAMES = [
```

```
<parser.ruleNames>:{r | '<r>'}; separator=", ", wrap, anchor>
```

```
];
```

```

<vocabulary(parser.literalNames, parser.symbolicNames)>

<atn>
protected static $atn;
protected static $decisionToDFA;
protected static $sharedContextCache;
<if(namedActions.members)>

<namedActions.members>
<endif>

<parser:(ctor())>

private static function initialize() : void
{
    if (self::$atn !== null) {
        return;
    }

    RuntimeMetaData::checkVersion('<file.ANTLRVersion>', RuntimeMetaData::VERSION);

    $atn = (new ATNDeserializer()->deserialize(self::SERIALIZED_ATN);

    $decisionToDFA = [];
    for ($i = 0, $count = $atn->getNumberOfDecisions(); $i < $count; $i++) {
        $decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
    }

    self::$atn = $atn;
    self::$decisionToDFA = $decisionToDFA;
    self::$sharedContextCache = new PredictionContextCache();
}

public function getGrammarFileName() : string
{
    return "<parser.grammarFileName>";
}

public function getRuleNames() : array
{
    return self::RULE_NAMES;
}

public function getSerializedATN() : string
{
    return self::SERIALIZED_ATN;
}

```



```

}

public function getATN() : ATN
{
    return self::$atn;
}

public function getVocabulary() : Vocabulary
{
    static $vocabulary;

    return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES, self::SYMBOLIC_NAMES);
}
<if(funcs)>

    <funcs; separator="\n\n">
<endif>
<if(semicolonFuncs)>

public function sempred(?RuleContext $localContext, int $ruleIndex, int $predicateIndex) : bool
{
    switch ($ruleIndex) {
    <parser.sempredFuncs.values:{f}
    case <f.ruleIndex>:
        return $this->sempred<f.name; format="cap">($localContext, $predicateIndex);; separator="\n\n">

    default:
        return true;
    }
}

    <semicolonFuncs.values; separator="\n\n">
<endif>
}
}

namespace <if(file.genPackage)><file.genPackage>\\<endif>Context {
    use Antlr\\Antlr4\\Runtime\\ParserRuleContext;
    use Antlr\\Antlr4\\Runtime\\Token;
    use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeVisitor;
    use Antlr\\Antlr4\\Runtime\\Tree\\TerminalNode;
    use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeListener;
    use <if(file.genPackage)><file.genPackage>\\<endif><parser.name>;
    <if (file.genVisitor)>use <if(file.genPackage)><file.genPackage>\\<endif><file.grammarName>Visitor;<endif>
    <if (file.genListener)>use <if(file.genPackage)><file.genPackage>\\<endif><file.grammarName>Listener;<endif>
    <namedActions.contexts>

    <funcs :{ func | <func.ruleCtx><if(func.altLabelCtxs)>

```

```

<func.altLabelCtxs:{l | <func.altLabelCtxs.(l)>}; separator="\n\n"><endif> }; separator="\n\n">
}
>>

```

```

vocabulary(literalNames, symbolicNames) ::= <<
/**
 * @var array<string|null>
 */
private const LITERAL_NAMES = [
  <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
];

/**
 * @var array<string>
 */
private const SYMBOLIC_NAMES = [
  <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
];
>>

```

```

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>

```

```

public function action(?RuleContext $localContext, int $ruleIndex, int $actionIndex) : void
{
  switch ($ruleIndex) {
    <recog.actionFuncs.values:{f}
    case <f.ruleIndex>:
      $this->action<f.name; format="cap">($localContext, $actionIndex);
      break;}; separator="\n\n">
  }
}

```

```

<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>

```

```

public function sempred(?RuleContext $localContext, int $ruleIndex, int $predicateIndex) : bool
{
  switch ($ruleIndex) {
    <recog.sempredFuncs.values:{f}
    case <f.ruleIndex>:
      return $this->sempred<f.name; format="cap">($localContext, $predicateIndex);}; separator="\n\n">
  }

  return true;
}

```

```

<sempredFuncs.values; separator="\n\n">
<endif>
>>

parser_ctor(p) ::= <<
public function __construct(TokenStream $input)
{
    parent::__construct($input);

    self::initialize();

    $this->interp = new ParserATNSimulator($this, self::$atn, self::$decisionToDFA, self::$sharedContextCache);
}
>>

/**
 * This generates a private method since the actionIndex is generated, making
 * an overriding implementation impossible to maintain.
 */
RuleActionFunction(r, actions) ::= <<
private function action<r.name; format="cap">(?<r.ctxType> $localContext, int $actionIndex) : void
{
    switch ($actionIndex) {
    <actions:{index|
    case <index>:
    <actions.(index)>

    break;}; separator="\n\n">
    }
}
>>

/**
 * This generates a private method since the predicateIndex is generated, making
 * an overriding implementation impossible to maintain.
 */
RuleSempredFunction(r, actions) ::= <<
private function sempred<r.name; format="cap">(Context\<r.ctxType> $localContext, int $predicateIndex) : bool
{
    switch ($predicateIndex) {
    <actions:{index|
    case <index>:
        return <actions.(index)>;}; separator="\n\n">
    }

    return true;
}
>>

```

```

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,exceptions,postamble)
 ::= <<
/**
 * @throws RecognitionException
 */
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function <currentRule.name>(<args;
separator=", ">) : Context\<<currentRule.ctxType>
{
    $localContext = new Context\<<currentRule.ctxType>($this->ctx, $this->getState())<currentRule.args:{a | ,
$a.name}>>);

    $this->enterRule($localContext, <currentRule.startState>, self::RULE_<currentRule.name>);
    <namedActions.init>
    <locals; separator="\n">

    try {
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    }<if(exceptions)><exceptions; separator="\n"><else> catch (RecognitionException $exception) {
        $localContext->exception = $exception;
        $this->errorHandler->reportError($this, $exception);
        $this->errorHandler->recover($this, $exception);
    }<endif> finally {
        <finallyAction>
        $this->exitRule();
    }

    return $localContext;
}
>>

```

```

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamb
le) ::= <<
/**
 * @throws RecognitionException
 */
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function <currentRule.name>(<args;
separator=", ">) : Context\<<currentRule.ctxType>
{
    return $this->recursive<currentRule.name; format="cap">(0<currentRule.args:{a | , <a.name>}>);
}

/**
 * @throws RecognitionException
 */
private function recursive<currentRule.name; format="cap">(int $precedence<args:{a | , <a>}>) :

```

```

Context\<currentRule.ctxType>
{
  $parentContext = $this->ctx;
  $parentState = $this->getState();
  $localContext = new Context\<currentRule.ctxType>($this->ctx, $parentState<currentRule.args: { a | ,
<a.name>}>);
  $previousContext = $localContext;
  $startState = <currentRule.startState>;
  $this->enterRecursionRule($localContext, <currentRule.startState>, self::RULE_<currentRule.name>,
$precedence);
  <namedActions.init>
  <locals; separator="\n">

  try {
    <code>
    <postamble; separator="\n">
    <namedActions.after>
  } catch (RecognitionException $exception) {
    $localContext->exception = $exception;
    $this->errorHandler->reportError($this, $exception);
    $this->errorHandler->recover($this, $exception);
  } finally {
    <finallyAction>
    $this->unrollRecursionContexts($parentContext);
  }

  return $localContext;
}
>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>$localContext = new
Context\<currentOuterMostAltCodeBlock.altLabel; format="cap">Context($localContext);<endif>
$this->enterOuterAlt($localContext, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>
<preamble; separator="\n">

```

```

switch ($this->input->LA(1)) {
    <choice.altLook,alts:{look,alt| <cases(ttypes=look)>
    <alt>
    break;}; separator="\n\n">

default:
    <error>
}
>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

```

```

switch ($this->input->LA(1)) {
    <choice.altLook,alts:{look,alt| <cases(ttypes=look)>
    <alt>
    break;}; separator="\n\n">

default:
    break;
}
>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<preamble; separator="\n">

```

```

if (<expr>) {
    <alts; separator="\n">
}
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

<preamble; separator="\n">
while (<loopExpr>) {
    <alts; separator="\n">
    $this->setState(<choice.loopBackStateNumber>);
    $this->errorHandler->sync($this);
    <iteration>
}
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
$this->setState(<choice.blockStartStateNumber>); <! alt block decision !>
$this->errorHandler->sync($this);

<preamble; separator="\n">
do {
  <alts; separator="\n">
  $this->setState(<choice.stateNumber>); <! loopback/exit decision !>
  $this->errorHandler->sync($this);
  <iteration>
} while (<loopExpr>);
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>
<preamble; separator="\n">

switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {
  <alts:{ alt |
case <i>:
  <alt>
break; }; separator="\n\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {
<alts:{ alt |
  case <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
break; }; separator="\n\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

$alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);

while ($alt !== <choice.exitAlt> && $alt !== ATN::INVALID_ALT_NUMBER) {

```

```

if ($salt == 1 <!(choice.ast.greedy)>+1<endif>) {
  <iteration>
  <alts> <!( should only be one !>
}

$this->setState(<choice.loopBackStateNumber>);
$this->errorHandler->sync($this);

$salt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
}
>>

PlusBlock(choice, alts, error) ::= <<
$this->setState(<choice.blockStartStateNumber>); <!( alt block decision !>
$this->errorHandler->sync($this);

$salt = 1<!(choice.ast.greedy)>+1<endif>;

do {
  switch ($salt) {
  <alts:{alt|
case <i><!(choice.ast.greedy)>+1<endif>:
  <alt>
  break;}; separator="\n\n">
  default:
  <error>
}

$this->setState(<choice.loopBackStateNumber>); <!( loopback/exit decision !>
$this->errorHandler->sync($this);

$salt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
} while ($salt != <choice.exitAlt> && $salt != ATN::INVALID_ALT_NUMBER);
>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException($this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <!(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) ::= <<
$this->setState(<r.stateNumber>);
<if(r.labels)><r.labels:{1 | <labelref(1)> = }><endif>$this-><if(r.ast.options.p)>recursive<r.name>;
format="cap"><else><r.name><endif>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif>
<argExprsChunks>);
>>

MatchToken(m) ::= <<
$this->setState(<m.stateNumber>);
<if(m.labels)><m.labels:{1 | <labelref(1)> = }><endif>$this->match(self::<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
$this->setState(<m.stateNumber>);

<if(m.labels)><m.labels:{1 | <labelref(1)> = }>$this->input->LT(1);<endif>

```

```

<capture>

if (<if(invert)>${m.varName} \<= 0 || <else>!<endif><expr>) {
    <if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>${this->errorHandler->recoverInline($this);
} else {
if ($this->input->LA(1) === Token::EOF) {
    $this->matchedEOF = true;
    }

    $this->errorHandler->reportMatch($this);
    $this->consume();
    }
>>

Wildcard(w) ::= <<
$this->setState(<w.stateNumber>);
<if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>${this->matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
$this->setState(<p.stateNumber>);

if (!(<chunks>)) {
    throw new FailedPredicateException($this, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>);
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
    <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "$this->skip();"
LexerMoreCommand() ::= "$this->more();"
LexerPopModeCommand() ::= "$this->popMode();"

LexerTypeCommand(arg, grammar) ::= "$this->type = <arg>";
LexerChannelCommand(arg, grammar) ::= "$this->channel = <arg>";

```

```

LexerModeCommand(arg, grammar) ::= "$this->mode = <arg>";
LexerPushModeCommand(arg, grammar) ::= "$this->pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "$localContext-><a.name>"
LocalRef(a) ::= "$localContext-><a.name>"
RetValRef(a) ::= "$localContext-><a.name>"
QRetValRef(a) ::= "<ctx(a)>-><a.dict>-><a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>-><t.name>"
LabelRef(t) ::= "<ctx(t)>-><t.name>"
ListLabelRef(t) ::= "<ctx(t)>-><ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>-><s.name> = <rhsChunks>";

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>-><t.label> != null ? <ctx(t)>-><t.label>->getText() : null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>-><t.label> != null ? <ctx(t)>-><t.label>->getType() : 0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>-><t.label> != null ? <ctx(t)>-><t.label>->getLine() : 0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>-><t.label> != null ? <ctx(t)>-><t.label>->getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>-><t.label> != null ? <ctx(t)>-><t.label>->getChannel() : 0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>-><t.label> != null ? <ctx(t)>-><t.label>->getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>-><t.label> != null ? (int) <ctx(t)>-><t.label>->getText() : 0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>-><r.label> != null ? (<ctx(r)>-><r.label>->start) : null)"
RulePropertyRef_stop(r) ::= "(<ctx(r)>-><r.label> != null ? (<ctx(r)>-><r.label>->stop) : null)"
RulePropertyRef_text(r) ::= "(<ctx(r)>-><r.label> != null ? $this->input->getTextByTokens(<ctx(r)>-><r.label>->start, <ctx(r)>-><r.label>->stop) : null)"
RulePropertyRef_ctx(r) ::= "<ctx(r)>-><r.label>"
RulePropertyRef_parser(r) ::= "\$this"

ThisRulePropertyRef_start(r) ::= "$localContext->start"
ThisRulePropertyRef_stop(r) ::= "$localContext->stop"
ThisRulePropertyRef_text(r) ::= "$this->input->getTextByTokens($localContext->start, $this->input->LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "$localContext"
ThisRulePropertyRef_parser(r) ::= "$this"

NonLocalAttrRef(s) ::= "\$this->getInvokingContext(<s.ruleIndex>-><s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "\$this->getInvokingContext(<s.ruleIndex>-><s.name> = <rhsChunks>";

AddToLabelList(a) ::= "<ctx(a.label)>-><a.listName>[] = <labelref(a.label)>";

TokenDecl(t) ::= "<TokenLabelType()> $<t.name>"
TokenTypeDecl(t) ::= ""
TokenListDecl(t) ::= "array $<t.name> = []"
RuleContextDecl(r) ::= "<r.ctxName> $<r.name>"

```

```

RuleContextListDecl(rdecl) ::= "array $<rdecl.name> = []"
AttributeDecl(d) ::= "<d.type> $<d.name><if(d.initValue)> = <d.initValue><endif>"

PropertiesDecl(struct) ::= <<
<if(struct.tokenListDecls)>
  <struct.tokenListDecls : {d | /**
  * @var array\<Token>|null $<d.name>
  */
  public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.tokenDecls)>
<if(struct.tokenListDecls)>

<endif>
<struct.tokenDecls : {d | /**
* @var <TokenLabelType()>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.ruleContextDecls)>
<if(struct.tokenListDecls || struct.tokenDecls)>

<endif>
<struct.ruleContextDecls : {d | /**
* @var <d.ctxName>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.ruleContextListDecls)>
<if(struct.tokenListDecls || struct.tokenDecls || struct.ruleContextDecls)>

<endif>
<struct.ruleContextListDecls : {d | /**
* @var array\<<d.ctxName>|>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.attributeDecls)>
<if(struct.tokenListDecls || struct.tokenDecls || struct.ruleContextDecls || struct.ruleContextListDecls)>

<endif>
<struct.attributeDecls : {d | /**
* @var <d.type><if(!d.initValue)>|null<endif> $<d.name>
*/
public $<d.name><if(d.initValue)> = <d.initValue><endif>;}; separator="\n\n">
<endif>

>>

```

```

ContextTokenGetterDecl(t) ::= <<
public function <t.name>() : ?TerminalNode
{
    return $this->getToken(<parser.name>::<t.name>, 0);
}
>>

```

```

ContextTokenListGetterDecl(t) ::= <<
>>

```

```

ContextTokenListIndexedGetterDecl(t) ::= <<
/**
 * @return array<TerminalNode>|TerminalNode|null
 */
public function <t.name>(int $index = null)
{
    if ($index === null) {
        return $this->getTokens(<parser.name>::<t.name>);
    }

    return $this->getToken(<parser.name>::<t.name>, $index);
}
>>

```

```

ContextRuleGetterDecl(r) ::= <<
public function <r.name>() : ?<r.ctxName>
{
    return $this->getTypedRuleContext(<r.ctxName>::class, 0);
}
>>

```

```

ContextRuleListGetterDecl(r) ::= <<
>>

```

```

ContextRuleListIndexedGetterDecl(r) ::= <<
/**
 * @return array<<r.ctxName>>|<r.ctxName>|null
 */
public function <r.name>(int $index = null)
{
    if ($index === null) {
        return $this->getTypedRuleContexts(<r.ctxName>::class);
    }

    return $this->getTypedRuleContext(<r.ctxName>::class, $index);
}
>>

```

```

LexerRuleContext() ::= "RuleContext"

/**
 * The rule context name is the rule followed by a suffix; e.g., r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "<tokenName>"
ImplicitRuleLabel(ruleName) ::= "<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "$<d.varName> = \${this->input->LT(1)};"
CaptureNextTokenType(d) ::= "$<d.varName> = \${this->input->LA(1)};"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers) ::= <<
class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=", "><endif>
{
<PropertiesDecl(struct)>
public function __construct(?ParserRuleContext $parent, ?int $invokingState = null<ctorAttrs:{a | , ?<a> = null}>)
{
parent::__construct($parent, $invokingState);
<if(struct.ctorAttrs)>

<struct.ctorAttrs:{a | \${this-><a.name> = \${<a.name>} ?? \${this-><a.name>};}; separator="\n">
<endif>
}

public function getRuleIndex() : int
{
return <parser.name>::RULE_<struct.derivedFromName>;
}
<if(getters)>

<getters:{g | <g>}; separator="\n\n">
<endif>
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
public function copyFrom(ParserRuleContext $context) : void
{
parent::copyFrom($context);

<struct.attrs:{a | \${this-><a.name> = \${<a.name>} ?? \${<a.name>};}; separator="\n">
}
<endif>
<if(dispatchMethods)>

```

```

    <dispatchMethods; separator="\n\n">
<endif>
<if(extensionMembers)>

```

```

    <extensionMembers; separator="\n\n">
<endif>
}
>>

```

```

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
class <struct.name> extends <struct.parentRule; format="cap">Context
{
<PropertiesDecl(struct)>
public function __construct(<struct.parentRule; format="cap">Context $context)
{
    parent::__construct($context);

    $this->copyFrom($context);
}
<if(getters)>

```

```

    <getters:{g | <g>}; separator="\n\n">
<endif>
<if(dispatchMethods)>

```

```

    <dispatchMethods; separator="\n\n">
<endif>
}
>>

```

```

ListenerDispatchMethod(method) ::= <<
public function <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener $listener) : void
{
    if ($listener instanceof <parser.grammarName>Listener) {
        $listener-><if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">($this);
    }
}
>>

```

```

VisitorDispatchMethod(method) ::= <<
public function accept(ParseTreeVisitor $visitor)
{
    if ($visitor instanceof <parser.grammarName>Visitor) {
        return $visitor->visit<struct.derivedFromName; format="cap">($this);
    }

    return $visitor->visitChildren($this);
}
}
>>

```

```

}
>>

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>$localContext-><endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "$localContext"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "\$this->precpred(\$this->ctx, <opPrec>)"

recRuleSetReturnAction(src,name) ::= "\$<name> = \$<src>-><name>;"

recRuleSetStopToken()          ::= "\$this->ctx->stop = \$this->input->LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
$localContext = new Context\\<ctxName>Context($parentContext, $parentState);
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
<else>
$localContext-><label> = $previousContext;
<endif>
<endif>

$this->pushNewRecursionContext($localContext, $startState, self::RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
$localContext = new Context\\<currentAltLabel; format="cap">Context(new Context\\<ruleName;
format="cap">Context($parentContext, $parentState));
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
<else>
$localContext-><label> = $previousContext;
<endif>
<endif>

$this->pushNewRecursionContext($localContext, $startState, self::RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
$localContext = new Context\\<ctxName>Context($localContext);
$this->ctx = $localContext;
$previousContext = $localContext;
>>

```



```

recRuleSetPrevCtx() ::= <<
if ($this->getParseListeners() !== null) {
    $this->triggerExitRuleEvent();
}

```

```

$previousContext = $localContext;
>>

```

```

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<lexer>
>>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
namespace<if(lexerFile.genPackage)> <lexerFile.genPackage><endif> {
<if(namedActions.header)><namedActions.header><endif>
use Antlr\Antlr4\Runtime\Atn\ATNDeserializer;
use Antlr\Antlr4\Runtime\Atn\LexerATNSimulator;
use Antlr\Antlr4\Runtime\Lexer;
use Antlr\Antlr4\Runtime\CharStream;
use Antlr\Antlr4\Runtime\PredictionContexts\PredictionContextCache;
use Antlr\Antlr4\Runtime\RuleContext;
use Antlr\Antlr4\Runtime\Atn\ATN;
use Antlr\Antlr4\Runtime\Dfa\DFA;
use Antlr\Antlr4\Runtime\Vocabulary;
use Antlr\Antlr4\Runtime\RuntimeMetaData;
use Antlr\Antlr4\Runtime\VocabularyImpl;
<if(namedActions.definitions)><namedActions.definitions><endif>

```

```

final class <lexer.name> extends <superClass; null="Lexer">
{
<if(lexer.tokens)>
public const <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
<endif>

<if(lexer.channels)>
public const <lexer.channels:{c | <c> = <lexer.channels.(c)>}; separator=", ", wrap, anchor>;
<endif>

<if(rest(lexer.modes))>
public const <rest(lexer.modes){m | <m>=<i>}; separator=", ", wrap, anchor>;
<endif>

/**
 * @var array<string>
 */

```

```

public const CHANNEL_NAMES = [
  'DEFAULT_TOKEN_CHANNEL', 'HIDDEN'<if (lexer.channels)>, <lexer.channels:{c| '<c>'}; separator=", ",
wrap, anchor><endif>
];

/**
 * @var array<string>
 */
public const MODE_NAMES = [
  <lexer.modes:{m| '<m>'}; separator=", ", wrap, anchor>
];

/**
 * @var array<string>
 */
public const RULE_NAMES = [
  <lexer.ruleNames:{r| '<r>'}; separator=", ", wrap, anchor>
];

<vocabulary(lexer.literalNames, lexer.symbolicNames)>

<atn>
protected static $atn;
protected static $decisionToDFA;
protected static $sharedContextCache;
<if(namedActions.members)>

  <namedActions.members>
<endif>

public function __construct(CharStream $input)
{
  parent::__construct($input);

  self::initialize();

  $this->interp = new LexerATNSimulator($this, self::$atn, self::$decisionToDFA, self::$sharedContextCache);
}

private static function initialize() : void
{
  if (self::$atn !== null) {
    return;
  }

  RuntimeMetaData::checkVersion('<lexerFile.ANTLRVersion>', RuntimeMetaData::VERSION);

  $atn = (new ATNDeserializer()->deserialize(self::SERIALIZED_ATN);

```

```

$decisionToDFA = [];
for ($i = 0, $count = $atn->getNumberOfDecisions(); $i < $count; $i++) {
    $decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
}

self::$atn = $atn;
self::$decisionToDFA = $decisionToDFA;
self::$sharedContextCache = new PredictionContextCache();
}

public static function vocabulary() : Vocabulary
{
    static $vocabulary;

    return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES, self::SYMBOLIC_NAMES);
}

public function getGrammarFileName() : string
{
    return '<lexer.grammarFileName>';
}

public function getRuleNames() : array
{
    return self::RULE_NAMES;
}

public function getSerializedATN() : string
{
    return self::SERIALIZED_ATN;
}

/**
 * @return array<string>
 */
public function getChannelNames() : array
{
    return self::CHANNEL_NAMES;
}

/**
 * @return array<string>
 */
public function getModeNames() : array
{
    return self::MODE_NAMES;
}

```

```

public function getATN() : ATN
{
    return self::$atn;
}

public function getVocabulary() : Vocabulary
{
    return self::vocabulary();
}
<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
}
}
>>

SerializedATN(model) ::= <<
<if(rest(model.segments))>
/**
 * @var string
 */
private const SERIALIZED_ATN =
    <model.segments:{segment| "<segment; wrap={ " .<n>" }>" }; separator=" .\n">;
<else>
/**
 * @var string
 */
private const SERIALIZED_ATN =
    "<model.serialized; wrap={ " .<n>  " }>";
<endif>
>>

/**
 * Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is `null`.
 */
initValue(typeName) ::= <<
<phpTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".php"

Found in path(s):
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/tool/templates/codegen/PHP/PHP.stg
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*/

/*

This file contains the actual layout of the messages emitted by ANTLR.
The text itself is coming out of the languages/*stg files, according to the chosen locale.
This file contains the format that mimicks GCC output.

*/

location(file, line, column) ::= "<file>:<line>:<column>:"

message(id, text) ::= "<text> [error <id>]"

report(location, message, type) ::= "<location> <type>: <message>"

wantsSingleLineMessage() ::= "true"

Found in path(s):

* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/gnu.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
rec_rule returns [boolean isLeftRec]
@init
{
    currentOuterAltNumber = 1;
}
: ^( r=RULE id=RULE_REF {ruleName=$id.getText();}
    ruleModifier?
// (ARG_ACTION)? shouldn't allow args, right?
    (^ (RETURNS a=ARG_ACTION {setReturnValues($a);}))?
// (^(THROWS .+)) ? don't allow
    (^ (LOCALS ARG_ACTION) )? // TODO: copy these to gen'd code
    (^ (OPTIONS .*))
    | ^(AT ID ACTION) // TODO: copy

```



```

    )*
    ruleBlock { $isLeftRec = $ruleBlock.isLeftRec;}
    exceptionGroup
  )
;

exceptionGroup
  : exceptionHandler* finallyClause?
;

exceptionHandler
  : ^(CATCH ARG_ACTION ACTION)
;

finallyClause
  : ^(FINALLY ACTION)
;

ruleModifier
  : PUBLIC
  | PRIVATE
  | PROTECTED
;

ruleBlock returns [boolean isLeftRec]
@init{boolean lr=false; this.numAlts = $start.getChildCount();}
: ^( BLOCK
  (
    o=outerAlternative
    {if ($o.isLeftRec) $isLeftRec = true;}
    {currentOuterAltNumber++;}
  )+
)
;

/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
outerAlternative returns [boolean isLeftRec]
  : (binary)=>      binary
                    {binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
  | (prefix)=>     prefix
                    {prefixAlt((AltAST)$start, currentOuterAltNumber);}
  | (suffix)=>    suffix
                    {suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
  | nonLeftRecur  {otherAlt((AltAST)$start, currentOuterAltNumber);}
;

binary
  : ^( ALT elementOptions? recurse element* recurse epsilonElement* )

```

```

        {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
    ;

prefix
: ^( ALT elementOptions?
  element+
  recurse epsilonElement*
)
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

suffix
: ^( ALT elementOptions? recurse element+ )
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

nonLeftRecur
: ^(ALT elementOptions? element+)
;

recurse
: ^(ASSIGN ID recurseNoLabel)
| ^(PLUS_ASSIGN ID recurseNoLabel)
| recurseNoLabel
;

recurseNoLabel : {((CommonTree)input.LT(1)).getText().equals(ruleName)}? RULE_REF;

token returns [GrammarAST t=null]
: ^(ASSIGN ID s=token {$t = $s.t;})
| ^(PLUS_ASSIGN ID s=token {$t = $s.t;})
| b=STRING_LITERAL    {$t = $b;}
| ^(b=STRING_LITERAL elementOptions) {$t = $b;}
| ^(c=TOKEN_REF elementOptions) {$t = $c;}
| c=TOKEN_REF        {$t = $c;}
;

elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;

elementOption
: ID
| ^(ASSIGN ID ID)
| ^(ASSIGN ID STRING_LITERAL)
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;

```

element
: atom
| ^(NOT element)
| ^(RANGE atom atom)
| ^(ASSIGN ID element)
| ^(PLUS_ASSIGN ID element)
| ^(SET setElement+)
| RULE_REF
| ebnf
| epsilonElement
;

epsilonElement
: ACTION
| SEMPRED
| EPSILON
| ^(ACTION elementOptions)
| ^(SEMPRED elementOptions)
;

setElement
: ^(STRING_LITERAL elementOptions)
| ^(TOKEN_REF elementOptions)
| STRING_LITERAL
| TOKEN_REF
;

ebnf: block
| ^(OPTIONAL block)
| ^(CLOSURE block)
| ^(POSITIVE_CLOSURE block)
;

block
: ^(BLOCK ACTION? alternative+)
;

alternative
: ^(ALT elementOptions? element+)
;

atom
: ^(RULE_REF ARG_ACTION? elementOptions?)
| ^(STRING_LITERAL elementOptions)
| STRING_LITERAL
| ^(TOKEN_REF elementOptions)
| TOKEN_REF

```
| ^(WILDCARD elementOptions)
| WILDCARD
| ^(DOT ID element)
;
```

Found in path(s):

```
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g
```

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```
*/
```

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jar/org/antlr/v4/tool/templates/codegen/Cpp/Cpp.stg
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 */

```
atn(startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph ATN {
rankdir=LR;
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>
```

```
dfa(name, startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph <name> {
<if(rankdir)>rankdir=<rankdir>;<endif>
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>
```

```
decision-rank(states) ::= <<
{rank=same; rankdir=TB; <states:{s | s<s>}; separator=" "; ">}
>>
```

```

edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

```

```

action-edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

```

```

epsilon-edge(src,label,target,arrowhead,transitionIndex,loopback=false) ::= <<
<src><if(transitionIndex)>p<transitionIndex><endif> -> <target> [fontname="Times-Italic",
label="&epsilon;"<if(loopback)>, style="dashed"<endif>];
>>

```

```

state(state, label, name, transitions) ::= <%
<name>[fontsize=11,
label="
  <! rest(transition) tests for decision states: these nodes have a non-empty set of transitions after the first one. !>
  <if(rest(transitions))>
    {
      <! Label on the left side of the record node. !>
      <label>
      |
      <! Named ports in order on right side of record node, no display text. !>
      {<transitions:{t|\<p>i0>>}; separator="|"}
    }
  <else>
    <label>
  <endif>
  "
  <if(rest(transitions))>
    , shape=record, fixedsize=false
  <else>
    , shape=circle, fixedsize=true, width=.55
  <endif>
  , peripheries=1];
%>

```

```

stopstate(name,label,actionIndex,useBox) ::= <<
<name>[fontsize=11, label="<label><if(actionIndex)>,\naction:<actionIndex><endif>",
<if(useBox)>shape=polygon,sides=4,peripheries=2,fixedsize=false<else>shape=doublecircle, fixedsize=true,
width=.6<endif>];
>>

```

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```

* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/tool/templates/dot/graphs.stg

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*/

/*

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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"

Found in path(s):

* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/antlr.stg

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```

```
tree grammar ATNBuilder;
```

```
options {
  language = Java;
  tokenVocab = ANTLRParser;
  ASTLabelType = GrammarAST;
  // filter = true;
}
```

```
// Include the copyright in this source and also the generated source
```

```
@header {
```

```
/*
```

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*/

```
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import org.antlr.v4.automata.ATNFactory;
}
```

```
@members {
    ATNFactory factory;
    public ATNBuilder(TreeNodeStream input, ATNFactory factory) {
        this(input);
        this.factory = factory;
    }
}
```

```
dummy : block[null] ; // avoid error about no start rule
```

```
ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
```

```
@init {
    List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();
    int alt = 1;
    factory.setCurrentOuterAlt(alt);
}
: ^(BLOCK
    (^ (OPTIONS .*))?)
    ( a=alternative
        {alts.add($a.p); factory.setCurrentOuterAlt(++alt);}
    )+
)
{ $p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts); }
;
```

```
block[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
```

```

@init {List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();}
: ^(BLOCK (^ (OPTIONS .*))? (a=alternative {alts.add($a.p);})+
  {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
;

```

alternative returns [ATNFactory.Handle p]

```

@init {List<ATNFactory.Handle> els = new ArrayList<ATNFactory.Handle>();}
: ^(LEXER_ALT_ACTION a=alternative lexerCommands)
  {$p = factory.lexerAltCommands($a.p,$lexerCommands.p);}
| ^(ALT elementOptions? EPSILON) {$p = factory.epsilon($EPSILON);}
| ^(ALT elementOptions? (e=element {els.add($e.p);})+) {$p = factory.alt(els);}
;

```

lexerCommands returns [ATNFactory.Handle p]

```

@init {List<ATNFactory.Handle> cmds = new ArrayList<ATNFactory.Handle>();}
: (c=lexerCommand {if ($c.cmd != null) cmds.add($c.cmd);})+
  {
  $p = factory.alt(cmds);
  }
;

```

lexerCommand returns [ATNFactory.Handle cmd]

```

: ^(LEXER_ACTION_CALL ID lexerCommandExpr)
  {$cmd = factory.lexerCallCommand($ID, $lexerCommandExpr.start);}
| ID
  {$cmd = factory.lexerCommand($ID);}
;

```

lexerCommandExpr

```

: ID
| INT
;

```

element returns [ATNFactory.Handle p]

```

: labeledElement {$p = $labeledElement.p;}
| atom {$p = $atom.p;}
| subrule {$p = $subrule.p;}
| ACTION {$p = factory.action((ActionAST)$ACTION);}
| SEMPRED {$p = factory.sempred((PredAST)$SEMPRED);}
| ^(ACTION .) {$p = factory.action((ActionAST)$ACTION);}
| ^(SEMPRED .) {$p = factory.sempred((PredAST)$SEMPRED);}
| ^(NOT b=blockSet[true]) {$p = $b.p;}
| LEXER_CHAR_SET {$p = factory.charSetLiteral($start);}
;

```

astOperand returns [ATNFactory.Handle p]

```

: atom {$p = $atom.p;}
| ^(NOT blockSet[true]) {$p = $blockSet.p;}

```

```

;

labeledElement returns [ATNFactory.Handle p]
: ^(ASSIGN ID element)  {$p = factory.label($element.p);}
| ^(PLUS_ASSIGN ID element)  {$p = factory.listLabel($element.p);}
;

subrule returns [ATNFactory.Handle p]
: ^(OPTIONAL block[$start])  {$p = $block.p;}
| ^(CLOSURE block[$start])  {$p = $block.p;}
| ^(POSITIVE_CLOSURE block[$start])  {$p = $block.p;}
| block[null]  {$p = $block.p;}
;

blockSet[boolean invert] returns [ATNFactory.Handle p]
@init {List<GrammarAST> alts = new ArrayList<GrammarAST>();}
: ^(SET (setElement {alts.add($setElement.start);})+) {$p = factory.set($start, alts, $invert);}
;

/** Don't combine with atom otherwise it will build spurious ATN nodes */
setElement
: ^(STRING_LITERAL .)
| ^(TOKEN_REF .)
| STRING_LITERAL
| TOKEN_REF
| ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
| LEXER_CHAR_SET
;

atom returns [ATNFactory.Handle p]
: range  {$p = $range.p;}
| ^(DOT ID terminal)  {$p = $terminal.p;}
| ^(DOT ID ruleref)  {$p = $ruleref.p;}
| ^(WILDCARD .)  {$p = factory.wildcard($start);}
| WILDCARD  {$p = factory.wildcard($start);}
| blockSet[false]  {$p = $blockSet.p;}
| terminal  {$p = $terminal.p;}
| ruleref  {$p = $ruleref.p;}
;

ruleref returns [ATNFactory.Handle p]
: ^(RULE_REF ARG_ACTION? ^(ELEMENT_OPTIONS .*))  {$p = factory.ruleRef($RULE_REF);}
| ^(RULE_REF ARG_ACTION?)  {$p = factory.ruleRef($RULE_REF);}
| RULE_REF  {$p = factory.ruleRef($RULE_REF);}
;

range returns [ATNFactory.Handle p]
: ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)  {$p = factory.range($a,$b);}

```

```

;

terminal returns [ATNFactory.Handle p]
: ^(STRING_LITERAL .) {$p = factory.stringLiteral((TerminalAST)$start);}
| STRING_LITERAL {$p = factory.stringLiteral((TerminalAST)$start);}
| ^(TOKEN_REF ARG_ACTION .) {$p = factory.tokenRef((TerminalAST)$start);}
| ^(TOKEN_REF .) {$p = factory.tokenRef((TerminalAST)$start);}
| TOKEN_REF {$p = factory.tokenRef((TerminalAST)$start);}
;

```

```

elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;

```

```

elementOption
: ID
| ^(ASSIGN ID ID)
| ^(ASSIGN ID STRING_LITERAL)
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;

```

Found in path(s):

* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/parse/ATNBuilder.g

No license file was found, but licenses were detected in source scan.

```

/*
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```

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 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */

// args must be <object-model-object>, <fields-resulting-in-STs>

```
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.IO;
using System.Text;
using System.Diagnostics;
using System.Collections.Generic;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using DFA = Antlr4.Runtime.Dfa.DFA;

<parser>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>
```

```
ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using IParseTreeListener = Antlr4.Runtime.Tree.IParseTreeListener;
using IToken = Antlr4.Runtime.IToken;
```

```
/// \<summary>
/// This interface defines a complete listener for a parse tree produced by
/// \<see cref="<csIdentifier.(file.parserName)>"/>.
/// \</summary>
```

```
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
```

```

[System.CLSCompliant(false)]
public interface I<file.grammarName>Listener : IParseTreeListener {
    <file.listenerNames: {Iname |
    /// \<summary>
    <if(file.listenerLabelRuleNames.(Iname))>
    /// Enter a parse tree produced by the \<c><Iname>\</c>
    /// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(Iname)>">/.
    <else>
    /// Enter a parse tree produced by \<see cref="<file.parserName>.<Iname>">/.
    <endif>
    /// \</summary>
    /// \<param name="context">The parse tree.\</param>
    void Enter<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname; format="cap">Context
    context);
    /// \<summary>
    <if(file.listenerLabelRuleNames.(Iname))>
    /// Exit a parse tree produced by the \<c><Iname>\</c>
    /// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(Iname)>">/.
    <else>
    /// Exit a parse tree produced by \<see cref="<file.parserName>.<Iname>">/.
    <endif>
    /// \</summary>
    /// \<param name="context">The parse tree.\</param>
    void Exit<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname; format="cap">Context
    context);}; separator="\n"
    }
    <if(file.genPackage)>
    } // namespace <file.genPackage>
    <endif>
    >>

```

```

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>

```

```

using Antlr4.Runtime.Misc;
using IErrorNode = Antlr4.Runtime.Tree.IErrorNode;
using ITerminalNode = Antlr4.Runtime.Tree.ITerminalNode;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

```

```

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Listener">,
/// which can be extended to create a listener which only needs to handle a subset
/// of the available methods.

```

```

/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseListener : I<file.grammarName>Listener {
    <file.listenerNames> { Iname |
/// \<summary>
<if(file.listenerLabelRuleNames.(Iname))>
/// Enter a parse tree produced by the \<c><Iname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(Iname)>"/>.
<else>
/// Enter a parse tree produced by \<see cref="<file.parserName>.<Iname>"/>.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Enter<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname;
format="cap">Context context) { \}
/// \<summary>
<if(file.listenerLabelRuleNames.(Iname))>
/// Exit a parse tree produced by the \<c><Iname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(Iname)>"/>.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<Iname>"/>.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Exit<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname;
format="cap">Context context) { \} }; separator="\n">

/// \<inheritdoc/>
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void EnterEveryRule([NotNull] ParserRuleContext context) { }
/// \<inheritdoc/>
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void ExitEveryRule([NotNull] ParserRuleContext context) { }
/// \<inheritdoc/>
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void VisitTerminal([NotNull] ITerminalNode node) { }
/// \<inheritdoc/>
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void VisitErrorNode([NotNull] IErrorNode node) { }
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

```

```

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;

/// \<summary>
/// This interface defines a complete generic visitor for a parse tree produced
/// by \<see cref="<csIdentifier(file.parserName)>"/>.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Visitor<Result> : IParseTreeVisitor<Result> {
    <file.visitorNames:{Iname |
/// \<summary>
<if(file.visitorLabelRuleNames.(Iname))>
/// Visit a parse tree produced by the \<c><Iname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(Iname)>"/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<Iname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
Result Visit<Iname; format="cap">([NotNull] <csIdentifier(file.parserName)>.<Iname; format="cap">Context
context);}; separator="\n">
    }
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

```

```

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

```



```

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Visitor{Result}"/>,
/// which can be extended to create a visitor which only needs to handle a subset
/// of the available methods.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseVisitor<<Result> : AbstractParseTreeVisitor<<Result>,
I<file.grammarName>Visitor<<Result> {
    <file.visitorNames:{Iname |
/// \<summary>
<if(file.visitorLabelRuleNames.(Iname))>
/// Visit a parse tree produced by the \<c><Iname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(Iname)>"/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<Iname>"/>.
<endif>
/// \<para>
/// The default implementation returns the result of calling \<see
cref="AbstractParseTreeVisitor{Result}.VisitChildren(IRuleNode)"/>
/// on \<paramref name="context"/>.
/// \</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
public virtual Result Visit<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname;
format="cap">Context context) { return VisitChildren(context); \}}; separator="\n">
    }
<if(file.genPackage)>
    } // namespace <file.genPackage>
<endif>
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
//-----
// \<auto-generated>
//   This code was generated by a tool.
//   ANTLR Version: <ANTLRVersion>
//
//   Changes to this file may cause incorrect behavior and will be lost if
//   the code is regenerated.
// \</auto-generated>
//-----

// Generated from <grammarFileName> by ANTLR <ANTLRVersion>

// Unreachable code detected

```

```

#pragma warning disable 0162
// The variable '...' is assigned but its value is never used
#pragma warning disable 0219
// Missing XML comment for publicly visible type or member '...'
#pragma warning disable 1591
// Ambiguous reference in cref attribute
#pragma warning disable 419

>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <csIdentifier.(parser.name)> : <superClass; null="Parser"> {
    protected static DFA[] decisionToDFA;
    protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
    <if(parser.tokens)>
    public const int
    <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
    <endif>
    public const int
    <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
    public static readonly string[] ruleNames = {
    <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
    };

    <vocabulary(parser.literalNames, parser.symbolicNames)>

    public override string GrammarFileName { get { return "<parser.grammarFileName>"; } }

    public override string[] RuleNames { get { return ruleNames; } }

    public override string SerializedAtn { get { return new string(_serializedATN); } }

    static <csIdentifier.(parser.name)>() {
        decisionToDFA = new DFA[_ATN.NumberOfDecisions];
        for (int i = 0; i < _ATN.NumberOfDecisions; i++) {
            decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
        }
    }

    <namedActions.members>
    <parser:(ctor)()>
    <funcs; separator="\n">

```

```

<if(sempredFuncs)>
public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
        <parser.sempredFuncs.values:{f}
case <f.ruleIndex>: return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
    }
    return true;
    }
<sempredFuncs.values; separator="\n">
<endif>

<atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static readonly string[] _LiteralNames = {
    <literalNames:{t | <t>}; null="null", separator=" ", wrap, anchor>
};
private static readonly string[] _SymbolicNames = {
    <symbolicNames:{t | <t>}; null="null", separator=" ", wrap, anchor>
};
public static readonly IVocabulary DefaultVocabulary = new Vocabulary(_LiteralNames, _SymbolicNames);

[NotNull]
public override IVocabulary Vocabulary
{
    get
    {
        return DefaultVocabulary;
    }
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
public override void Action(RuleContext _localctx, int ruleIndex, int actionIndex) {
    switch (ruleIndex) {
        <recog.actionFuncs.values:{f}
case <f.ruleIndex> : <f.name>_action(<if(!recog.modes)>(<f.ctxType><endif>_localctx, actionIndex); break;};
separator="\n">
    }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {

```

```

switch (ruleIndex) {
  <recog.sempredFuncs.values:{f|
case <f.ruleIndex> : return <f.name>_sempred(<if(!recog.modes)>(<f.ctxType><endif>_localctx, predIndex));
separator="\n">
  }
  return true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(parser) ::= <<
public <csIdentifier.(parser.name)>(ITokenStream input) : this(input, Console.Out, Console.Error) { }

public <csIdentifier.(parser.name)>(ITokenStream input, TextWriter output, TextWriter errorOutput)
: base(input, output, errorOutput)
{
  Interpreter = new ParserATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
}
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
  switch (actionIndex) {
    <actions:{index|
case <index>: <actions.(index)> break;}; separator="\n">
  }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private bool <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
  switch (predIndex) {
    <actions:{index|
case <index>: return <actions.(index)>;}; separator="\n">
  }
  return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

```

```

<if(ruleCtx)>
<ruleCtx>
<endif>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)><(args; separator=", "> {
  <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>}>>);
  EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
  <namedActions.init>
  <locals; separator="\n">
  try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
  }
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  catch (RecognitionException re) {
    _localctx.exception = re;
    ErrorHandler.ReportError(this, re);
    ErrorHandler.Recover(this, re);
  }
<endif>
  finally {
  <finallyAction>
  ExitRule();
  }
  return _localctx;
}
>>

LeftFactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)><(args; separator=", "> {
  <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>}>>);
  EnterLeftFactoredRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
  <namedActions.init>

```

```

<locals; separator="\n">
try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
  }
catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
  }
finally {
  <finallyAction>
  ExitRule();
  }
return _localctx;
}
>>

// This behaves similar to RuleFunction (enterRule is called, and no adjustments
// are made to the parse tree), but since it's still a variant no context class
// needs to be generated.
LeftUnfactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)><(args; separator=", "> {
  <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
  <csIdentifier.(a.name)>>>);
  EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
  <namedActions.init>
  <locals; separator="\n">
  try {
  <if(currentRule.hasLookaheadBlock)>
  int _alt;
  <endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
  }
catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
  }
}

```

```

finally {
  <finallyAction>
  ExitRule();
}
return _localctx;
}
>>

```

```

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
  namedActions,finallyAction,postamble) ::=
<<

```

```

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

```

```

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)><(args; separator=", "> {
  return <csIdentifier.(currentRule.name)><(0<currentRule.args:{a | , <csIdentifier.(a.name)>}>>);
}

```

```

private <currentRule.ctxType> <csIdentifier.(currentRule.name)><(int _p<args:{a | , <a>}>> {
  ParserRuleContext _parentctx = Context;
  int _parentState = State;
  <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, _parentState<currentRule.args:{a | ,
  <csIdentifier.(a.name)>}>>);
  <currentRule.ctxType> _prevctx = _localctx;
  int _startState = <currentRule.startState>;
  EnterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
  <namedActions.init>
  <locals; separator="\n">
  try {
  <if(currentRule.hasLookaheadBlock)>
    int _alt;
  <endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
  }
  catch (RecognitionException re) {
    _localctx.exception = re;
    ErrorHandler.ReportError(this, re);
    ErrorHandler.Recover(this, re);
  }
  finally {
  <finallyAction>
  UnrollRecursionContexts(_parentctx);
  }
}

```

```
return _localctx;  
}  
>>
```

```
CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<  
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel;  
format="cap">Context(_localctx);<endif>  
EnterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);  
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>  
>>
```

```
CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<  
{  
<locals; separator="\n">  
<preamble; separator="\n">  
<ops; separator="\n">  
}  
>>
```

```
LL1AltBlock(choice, preamble, alts, error) ::= <<  
State = <choice.stateNumber>;  
ErrorHandler.Sync(this);  
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>  
<preamble; separator="\n">  
switch (TokenStream.LA(1)) {  
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>  
<alt>  
break;}; separator="\n">  
default:  
<error>  
}  
>>
```

```
LL1OptionalBlock(choice, alts, error) ::= <<  
State = <choice.stateNumber>;  
ErrorHandler.Sync(this);  
switch (TokenStream.LA(1)) {  
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>  
<alt>  
break;}; separator="\n">  
default:  
break;  
}  
>>
```

```
LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<  
State = <choice.stateNumber>;  
ErrorHandler.Sync(this);
```



```

<preamble; separator="\n">
if (<expr> ) {
  <alts; separator="\n">
}
<!else if ( !(<followExpr> ) <error!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
while (<loopExpr> ) {
  <alts; separator="\n">
  State = <choice.loopBackStateNumber>;
  ErrorHandler.Sync(this);
  <iteration>
}
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
<preamble; separator="\n">
do {
  <alts; separator="\n">
  State = <choice.stateNumber>;<! loopback/exit decision !>
  ErrorHandler.Sync(this);
  <iteration>
} while ( <loopExpr> );
>>

```

```

// LL(*) stuff

```

```

AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble; separator="\n">
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
  <alts:{alt |
case <i>:
  <alt>
  break;}; separator="\n">
}
>>

```

```

OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;

```

```

ErrorHandler.Sync(this);
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{ alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break;}; separator="\n">
}
>>

```

```

StarBlock(choice, alts, sync, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER ) {
if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
<iteration>
<alts> <! should only be one !>
}
State = <choice.loopBackStateNumber>;
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
}
>>

```

```

PlusBlock(choice, alts, error) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
switch ( _alt ) {
<alts:{ alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break;}; separator="\n">
default:
<error>
}
State = <choice.loopBackStateNumber>;<! loopback/exit decision !>
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
} while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER );
>>

```

```

Sync(s) ::= "Sync(<s.expecting.name>);"

```

```

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

```

```

TestSetInline(s) ::= <<

```

```

<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ttype | (1L \<< <offsetShift(tokenType.(ttype), bits.shift)>}); separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<tokenType.(ttype)>}; separator=" || ">
%>

cases(ttypes) ::= <<
<types:{t | case <tokenType.(t)>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
State = <r.stateNumber>; <if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif><csIdentifier.(r.name)>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><arg
ExprsChunks>);
>>

MatchToken(m) ::= <<
State = <m.stateNumber>; <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>Match(<tokenType.(m.name)>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<

```

```

State = <m.stateNumber>;
<if(m.labels)><m.labels:{1 | <labelref(l)> = }>TokenStream.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>)) {
  <if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>ErrorHandler.RecoverInline(this);
}
else {
  ErrorHandler.ReportMatch(this);
  Consume();
}
>>

Wildcard(w) ::= <<
State = <w.stateNumber>;
<if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>MatchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
State = <p.stateNumber>;
if (!<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
  <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "Skip();"
LexerMoreCommand() ::= "More();"
LexerPopModeCommand() ::= "PopMode();"

LexerTypeCommand(arg, grammar) ::= "_type = <tokenType.(arg)>);"
LexerChannelCommand(arg, grammar) ::= "_channel = <channelName.(arg)>);"
LexerModeCommand(arg, grammar) ::= "_mode = <modeName.(arg)>);"
LexerPushModeCommand(arg, grammar) ::= "PushMode(<modeName.(arg)>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"

```

```

ArgRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
LocalRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
RetValRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<csIdentifier.(a.name)>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<csIdentifier.(tokenType.(t.name))>"
LabelRef(t) ::= "<ctx(t)>.<csIdentifier.(t.name)>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(csIdentifier.(t.name))>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<csIdentifier.(s.name)> = <rhsChunks>;"

TokenLabelType() ::= "<file.TokenLabelType; null={IToken}>"
InputSymbolType() ::= "<file.InputSymbolType; null={IToken}>"

TokenPropertyRef_text(t) ::= "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Text:null)"
TokenPropertyRef_type(t) ::= "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Type:0)"
TokenPropertyRef_line(t) ::= "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Line:0)"
TokenPropertyRef_pos(t) ::=
"<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.CharPositionInLine:0)"
TokenPropertyRef_channel(t) ::=
"<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Channel:0)"
TokenPropertyRef_index(t) ::=
"<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.TokenIndex:0)"
TokenPropertyRef_int(t) ::=
"<ctx(t)>.<tokenType.(t.label)>!=null?int.Parse(<ctx(t)>.<tokenType.(t.label)>.Text):0)"

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Start):null)"
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_text(r) ::=
"<ctx(r)>.<r.label>!=null?TokenStream.GetText(<ctx(r)>.<r.label>.Start,<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.Start"
ThisRulePropertyRef_stop(r) ::= "_localctx.Stop"
ThisRulePropertyRef_text(r) ::= "TokenStream.GetText(_localctx.Start, TokenStream.LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "_localctx"
ThisRulePropertyRef_parser(r) ::= "this"

NonLocalAttrRef(s) ::= <%((<s.ruleName;
format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<csIdentifier.(s.name)>%>
SetNonLocalAttr(s, rhsChunks) ::=
<%((<s.ruleName; format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<csIdentifier.(s.name)> =
<rhsChunks>;%>

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.Add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType() <csIdentifier.(tokenType.(t.name))>"
TokenTypeDecl(t) ::= "int <csIdentifier.(tokenType.(t.name))>;"

```

```

TokenListDecl(t) ::= "IList<IToken> <csIdentifier.(tokenType.(t.name))> = new List<IToken>()"
RuleContextDecl(r) ::= "<r.ctxName> <csIdentifier.(r.name)>"
RuleContextListDecl(rdecl) ::= "IList<<rdecl.ctxName>> <csIdentifier.(rdecl.name)> = new
List<<rdecl.ctxName>>()"

```

```

contextGetterCollection(elementType) ::= <%
<elementType>[]
%>

```

```

ContextTokenGetterDecl(t) ::=
    "public ITerminalNode <csIdentifier.(tokenType.(t.name))>() { return
    GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, 0); }"
ContextTokenListGetterDecl(t) ::= <<
    public <contextGetterCollection("ITerminalNode")> <csIdentifier.(tokenType.(t.name))>() { return
    GetTokens(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>); }
    >>
ContextTokenListIndexedGetterDecl(t) ::= <<
    public ITerminalNode <csIdentifier.(tokenType.(t.name))>(int i) {
    return GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, i);
    }
    >>
ContextRuleGetterDecl(r) ::= <<
    public <r.ctxName> <csIdentifier.(r.name)>() {
    return GetRuleContext<<r.ctxName>>()();
    }
    >>
ContextRuleListGetterDecl(r) ::= <<
    public <contextGetterCollection({<r.ctxName>})> <csIdentifier.(r.name)>() {
    return GetRuleContexts<<r.ctxName>>()();
    }
    >>
ContextRuleListIndexedGetterDecl(r) ::= <<
    public <r.ctxName> <csIdentifier.(r.name)>(int i) {
    return GetRuleContext<<r.ctxName>>(i);
    }
    >>

```

```

LexerRuleContext() ::= "RuleContext"

```

```

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/

```

```

RuleContextNameSuffix() ::= "Context"

```

```

ImplicitTokenLabel(tokenName) ::= "_<tokenType.(tokenName)>"

```

```

ImplicitRuleLabel(ruleName) ::= "_<ruleName>"

```

```

ImplicitSetLabel(id) ::= "_tset<id>"

```

```

ListLabelName(label) ::= "_<label>"

```

```
CaptureNextToken(d) ::= "<d.varName> = TokenStream.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = TokenStream.LA(1);"
```

```
StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers,
    superClass={ParserRuleContext}) ::= <<
public partial class <struct.name> :
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces>;
separator=", "<endif> {
<attrs:{a | public <a>;}; separator="\n">
<getters:{g | <g>;}; separator="\n">
<if(ctorAttrs)>public <struct.name>(ParserRuleContext parent, int invokingState) : base(parent, invokingState) {
}<endif>
public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>>)>
: base(parent, invokingState)
{
<struct.ctorAttrs:{a | this.<csIdentifier.(a.name)> = <csIdentifier.(a.name)>;}; separator="\n">
}
public override int RuleIndex { get { return RULE_<struct.derivedFromName>; } }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
public <struct.name>() { }
public virtual void CopyFrom(<struct.name> context) {
base.CopyFrom(context);
<struct.attrs:{a | this.<csIdentifier.(a.name)> = context.<csIdentifier.(a.name)>;}; separator="\n">
}
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">
}
>>
```

```
AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
public partial class <struct.name> : <currentRule.name; format="cap">Context {
<attrs:{a | public <a>;}; separator="\n">
<getters:{g | <g>;}; separator="\n">
public <struct.name>(<currentRule.name; format="cap">Context context) { CopyFrom(context); }
<dispatchMethods; separator="\n">
}
>>
```

```
ListenerDispatchMethod(method) ::= <<
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) ::= <<
public override TResult Accept<TResult>(IParseTreeVisitor<TResult> visitor) {
    I<parser.grammarName>Visitor<TResult> typedVisitor = visitor as I<parser.grammarName>Visitor<TResult>;
    if (typedVisitor != null) return typedVisitor.Visit<struct.derivedFromName; format="cap">(this);
    else return visitor.VisitChildren(this);
}
>>

AttributeDecl(d) ::= "<d.type> <csIdentifier.(d.name)><if(d.initValue)> = <d.initValue><endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)><typedContext(x.ctx)>.<endif><csIdentifier.(x.name)>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "<typedContext(actionChunk.ctx)>"

// only casts _localctx to the type when the cast isn't redundant (i.e. to a sub-context for a labeled alt)
typedContext(ctx) ::= "<if(ctx.provideCopyFrom)>((<ctx.name>)_localctx)<else>_localctx<endif>"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "Precpred(Context, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken() ::= "Context.Stop = TokenStream.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
    _localctx = new <ctxName>Context(_parentctx, _parentState);
    <if(label)>
    <if(isListLabel)>
        _localctx.<label>.Add(_prevctx);
    <else>
        _localctx.<label> = _prevctx;
    <endif>
    <endif>
    PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
    _localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
    _parentState));
    <if(label)>
    <if(isListLabel)>
        ((<currentAltLabel; format="cap">Context)_localctx).<label>.Add(_prevctx);
    <else>
        ((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
    <endif>
    <endif>
    PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

```



```

recRuleReplaceContext(ctxName) ::= <<
  _localctx = new <ctxName>Context(_localctx);
  Context = _localctx;
  _prevctx = _localctx;
>>

```

```

recRuleSetPrevCtx() ::= <<
  if ( ParseListeners!=null )
    TriggerExitRuleEvent();
  _prevctx = _localctx;
>>

```

```

LexerFile(file, lexer, namedActions) ::= <<
  <fileHeader(file.grammarFileName, file.ANTLRVersion)>
  <if(file.genPackage)>
  namespace <file.genPackage> {
  <endif>
  <namedActions.header>
  using System;
  using System.IO;
  using System.Text;
  using Antlr4.Runtime;
  using Antlr4.Runtime.Atn;
  using Antlr4.Runtime.Misc;
  using DFA = Antlr4.Runtime.Dfa.DFA;

  <lexer>
  <if(file.genPackage)>
  } // namespace <file.genPackage>
  <endif>
>>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <csIdentifier.(lexer.name)> : <superClass; null="Lexer"> {
  protected static DFA[] decisionToDFA;
  protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
  public const int
  <lexer.tokens:{k | <tokenType.(k)>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
  <if(lexer.channels)>
  public const int
  <lexer.channels:{k | <csIdentifier.(k)>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>;
  <endif>
  <if(rest(lexer.modes))>
  public const int

```

```

<rest(lexer.modes):{m | <m>=<i>}; separator=", ", wrap, anchor>;
<endif>
public static string[] channelNames = {
    "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channels)>, <lexer.channels:{c | "<c>"}; separator=", ",
wrap, anchor><endif>
};

public static string[] modeNames = {
    <lexer.modes:{m | "<m>"}; separator=", ", wrap, anchor>
};

public static readonly string[] ruleNames = {
    <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
};

<namedActions.members>

public <csIdentifier.(lexer.name)>(ICharStream input)
: this(input, Console.Out, Console.Error) { }

public <csIdentifier.(lexer.name)>(ICharStream input, TextWriter output, TextWriter errorOutput)
: base(input, output, errorOutput)
{
    Interpreter = new LexerATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
}

<vocabulary(lexer.literalNames, lexer.symbolicNames)>

public override string GrammarFileName { get { return "<lexer.grammarFileName>"; } }

public override string[] RuleNames { get { return ruleNames; } }

public override string[] ChannelNames { get { return channelNames; } }

public override string[] ModeNames { get { return modeNames; } }

public override string SerializedAtn { get { return new string(_serializedATN); } }

static <csIdentifier.(lexer.name)>() {
    decisionToDFA = new DFA[_ATN.NumberOfDecisions];
    for (int i = 0; i < _ATN.NumberOfDecisions; i++) {
        decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
    }
}
<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>
}
>>

```

```
SerializedATN(model) ::= <<
private static char[] _serializedATN = {
    <model.serialized; separator=",", wrap>,
};

public static readonly ATN _ATN =
    new ATNDeserializer().Deserialize(_serializedATN);
```

```
>>
```

```
initValue(typeName) ::= <<
default(<typeName>)
>>
```

```
codeFileExtension() ::= ".cs"
```

```
modeName ::= [
    "DEFAULT_MODE" : "DefaultMode",
    default : key
]
```

```
channelName ::= [
    "HIDDEN" : "Hidden",
    "DEFAULT_TOKEN_CHANNEL" : "DefaultTokenChannel",
    default : key
]
```

```
tokenType ::= [
    "EOF" : "Eof",
    default : key
]
```

```
csIdentifier ::= [
    "abstract" : "@abstract",
    "as" : "@as",
    "base" : "@base",
    "bool" : "@bool",
    "break" : "@break",
    "byte" : "@byte",
    "case" : "@case",
    "catch" : "@catch",
    "char" : "@char",
    "checked" : "@checked",
    "class" : "@class",
    "const" : "@const",
```

"continue" : "@continue",
"decimal" : "@decimal",
"default" : "@default",
"delegate" : "@delegate",
"do" : "@do",
"double" : "@double",
"else" : "@else",
"enum" : "@enum",
"event" : "@event",
"explicit" : "@explicit",
"extern" : "@extern",
"false" : "@false",
"finally" : "@finally",
"fixed" : "@fixed",
"float" : "@float",
"for" : "@for",
"foreach" : "@foreach",
"goto" : "@goto",
"if" : "@if",
"implicit" : "@implicit",
"in" : "@in",
"int" : "@int",
"interface" : "@interface",
"internal" : "@internal",
"is" : "@is",
"lock" : "@lock",
"long" : "@long",
"namespace" : "@namespace",
"new" : "@new",
"null" : "@null",
"object" : "@object",
"operator" : "@operator",
"out" : "@out",
"override" : "@override",
"params" : "@params",
"private" : "@private",
"protected" : "@protected",
"public" : "@public",
"readonly" : "@readonly",
"ref" : "@ref",
"return" : "@return",
"sbyte" : "@sbyte",
"sealed" : "@sealed",
"short" : "@short",
"sizeof" : "@sizeof",
"stackalloc" : "@stackalloc",
"static" : "@static",
"string" : "@string",

```
"struct" : "@struct",
"switch" : "@switch",
"this" : "@this",
"throw" : "@throw",
"true" : "@true",
"try" : "@try",
"typeof" : "@typeof",
"uint" : "@uint",
"ulong" : "@ulong",
"unchecked" : "@unchecked",
"unsafe" : "@unsafe",
"ushort" : "@ushort",
"using" : "@using",
"virtual" : "@virtual",
"values" : "@values",
"void" : "@void",
"volatile" : "@volatile",
"while" : "@while",
default : key
]
```

Found in path(s):

```
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg
```

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```
/*
```

```
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```

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*/

Found in path(s):

* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/parse/ANTLRLexer.java

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*/

Found in path(s):

* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/parse/GrammarTreeVisitor.java

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*/

```

```
lexer grammar ActionSplitter;
```

```
options { filter=true; }
```

```
@header {
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

```

```
@members {
ActionSplitterListener delegate;

```

```
public ActionSplitter(CharStream input, ActionSplitterListener delegate) {
    this(input, new RecognizerSharedState());
    this.delegate = delegate;
}

```

```
/** force filtering (and return tokens). triggers all above actions. */
```

```
public List<Token> getActionTokens() {
    List<Token> chunks = new ArrayList<Token>();
    Token t = nextToken();

```

```

while ( t.getType() != Token.EOF ) {
    chunks.add(t);
    t = nextToken();
}
return chunks;
}

private boolean isIDStartChar(int c) {
return c == '_' || Character.isLetter(c);
}
}

// ignore comments right away

COMMENT
: '/' ( options { greedy=false; } : . )* '/' { delegate.text($text); }
;

LINE_COMMENT
: '/' ~('\n'|'\r')* '\r'? '\n' { delegate.text($text); }
;

SET_NONLOCAL_ATTR
: '$' x=ID ':' y=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
{
delegate.setNonLocalAttr($text, $x, $y, $expr);
}
;

NONLOCAL_ATTR
: '$' x=ID ':' y=ID { delegate.nonLocalAttr($text, $x, $y); }
;

QUALIFIED_ATTR
: '$' x=ID '!' y=ID { input.LA(1) != '(' ? { delegate.qualifiedAttr($text, $x, $y); } }
;

SET_ATTR
: '$' x=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
{
delegate.setAttr($text, $x, $expr);
}
;

ATTR
: '$' x=ID { delegate.attr($text, $x); }
;

```



```
// Anything else is just random text
TEXT
@init {StringBuilder buf = new StringBuilder();}
@after {delegate.text(buf.toString());}
: ( c=~(\\| '$) {buf.append((char)$c);}
  | '\\$' {buf.append('$);}
  | '\\ c=~('$) {buf.append(\\).append((char)$c);}
  | {!isIDStartChar(input.LA(2))}? => '$' {buf.append('$);}
)+
;
```

```
fragment
ID : ('a'..'z'|'A'..'Z'|'_') ('a'..'z'|'A'..'Z'|'0'..'9'|'_')*
```

```
/** Don't allow an = as first char to prevent $x == 3; kind of stuff. */
```

```
fragment
ATTR_VALUE_EXPR
: ~'= ' (~';)*
;
```

```
fragment
WS : (' |\t|\n|\r')+
;
```

Found in path(s):

* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/parse/ActionSplitter.g
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```
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*/
```

```
/** ANTLR tool checks output templates are compatible with tool code generation.
```

```
* For now, a simple string match used on x.y of x.y.z scheme.
```

```
* Must match Tool.VERSION during load to templates.
```

```
*
```

```
* REQUIRED.
```

```
*/
```

```
pythonTypeInitMap ::= [  
  "bool":"False",  
  "int":"0",  
  "float":"0.0",  
  "str": "",  
  default:"None" // anything other than a primitive type is an object  
]
```

```
// args must be <object-model-object>, <fields-resulting-in-STs>
```

```
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<  
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
```

```
# encoding: utf-8
```

```
from antlr4 import *
```

```
from io import StringIO
```

```
import sys
```

```
if sys.version_info[1] > 5:
```

```
    from typing import TextIO
```

```
else:
```

```
    from typing.io import TextIO
```

```
<namedActions.header>
```

```
<parser>
```

```
>>
```

```
ListenerFile(file, header, namedActions) ::= <<
```

```
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
```

```
from antlr4 import *
```

```

if __name__ is not None and "." in __name__:
    from .<file.parserName> import <file.parserName>
else:
    from <file.parserName> import <file.parserName>
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

    <file.listenerNames: {lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
    pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
    pass

}; separator="\n">

del <file.parserName>
>>

```

```

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if __name__ is not None and "." in __name__:
    from .<file.parserName> import <file.parserName>
else:
    from <file.parserName> import <file.parserName>
<header>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

    <file.visitorNames: {lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
    return self.visitChildren(ctx)

}; separator="\n">

del <file.parserName>
>>

```

```

fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
    from .<superClass> import <superClass>
else:
    from <superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

    grammarFileName = "<parser.grammarFileName>"

    atn = ATNDeserializer().deserialize(serializedATN())

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

    sharedContextCache = PredictionContextCache()

    literalNames = [ <parser.literalNames:{t | <t>}; null="\\"<INVALID>\\"", separator=", ", wrap, anchor > ]

    symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="\\"<INVALID>\\"", separator=", ", wrap, anchor > ]

    <parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor >

    ruleNames = [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor > ]

    EOF = <TokenLabelType().EOF

    <if(parser.tokens)>
    <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor >
    <endif>

    <parser:(ctor)()>

    <namedActions.members>

    <funcs; separator="\n">

```

```

<if(sempredFuncs)>
  def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
    if self._predicates == None:
      self._predicates = dict()
<parser.sempredFuncs.values: {f |
  self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n
  " >
  pred = self._predicates.get(ruleIndex, None)
  if pred is None:
    raise Exception("No predicate with index:" + str(ruleIndex))
  else:
    return pred(localctx, predIndex)

  <sempredFuncs.values; separator="\n">
<endif>

```

```
>>
```

```

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx:RuleContext, ruleIndex:int, actionIndex:int):
  if self._actions is None:
    actions = dict()
<recog.actionFuncs.values: {f |
  actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
  self._actions = actions
  action = self._actions.get(ruleIndex, None)
  if action is not None:
    action(localctx, actionIndex)
  else:
    raise Exception("No registered action for:" + str(ruleIndex))

  <actionFuncs.values; separator="\n">

<endif>

```

```

<if(sempredFuncs)>
def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
  if self._predicates is None:
    preds = dict()
<recog.sempredFuncs.values: {f |
  preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
  self._predicates = preds
  pred = self._predicates.get(ruleIndex, None)
  if pred is not None:
    return pred(localctx, predIndex)
  else:
    raise Exception("No registered predicate for:" + str(ruleIndex))

```

```

<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
def __init__(self, input:TokenStream, output:TextIO = sys.stdout):
    super().__init__(input, output)
    self.checkVersion("<file.ANTLRVersion>")
    self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
    self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx:<r.ctxType> , actionIndex:int):
<actions:{index|
<if(first(actions))>
    if actionIndex == <index>:
        <actions.(index)>
<elseif(rest(actions))>
    elif actionIndex == <index>:
        <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx:<r.ctxType>, predIndex:int):
    <actions:{index|
<if(first(actions))>
    if predIndex == <index>:
        return <actions.(index)>
<elseif(rest(actions))>
    elif predIndex == <index>:
        return <actions.(index)>
<endif> }; separator="\n">
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

```

```

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self<currentRule.args:{a | , <a.name><if(a.type)><a.type><endif>}>):

    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | , <a.name>}>)
    self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
    <namedActions.init>
    <locals; separator="\n">
    try:
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    <if(exceptions)>
    <exceptions; separator="\n">
    <else>
    except RecognitionException as re:
        localctx.exception = re
        self._errHandler.reportError(self, re)
        self._errHandler.recover(self, re)
    <endif>
    finally:
        <finallyAction>
        self.exitRule()
    return localctx

>>

```

```

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
    namedActions,finallyAction,postamble) ::=
<<

```

```

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self, _p:int=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
    _parentctx = self._ctx
    _parentState = self.state
    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.name>}>)
    _prevctx = localctx
    _startState = <currentRule.startState>
    self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
    <namedActions.init>
    <locals; separator="\n">
    try:
        <code>

```

```

    <postamble; separator="\n">
    <namedActions.after>
except RecognitionException as re:
    localctx.exception = re
    self._errHandler.reportError(self, re)
    self._errHandler.recover(self, re)
finally:
    <finallyAction>
    self.unrollRecursionContexts(_parentctx)
return localctx

>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
    <alt>
    pass}; separator="\n1">
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="\n1">
else:

```



```

    pass
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
if <expr>:
    <alts; separator="\n">

<!else if ( !(<followExpr> ) <error>!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
    <alts; separator="\n">
    self.state = <choice.loopBackStateNumber>
    self._errHandler.sync(self)
    <iteration>

>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
    <alts; separator="\n">
    self.state = <choice.stateNumber> <! loopback/exit decision !>
    self._errHandler.sync(self)
    <iteration>
    if not (<loopExpr>):
        break

>>

```

```
// LL(*) stuff
```

```

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

```

```

<alts:{ alt |
if la_ == <i>:
  <alt>
  pass
}; separator="\nel">

```

```
>>
```

```

OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{ alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">

```

```
>>
```

```

StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  if _alt==1<if(!choice.ast.greedy)>+1<endif>:
    <iteration>
    <alts> <! should only be one !>
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

```

```
>>
```

```

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  <alts:{ alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">
  else:
    <error>
  self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

```

>>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

TestSetInline(s) ::= <<

<s.bitsets:{ bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s, bits)><endif>} ; separator=" or ">

>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test

testShiftInRange(shiftAmount) ::= <<

((<shiftAmount>) & ~0x3f) == 0

>>

// produces smaller bytecode only when bits.ttypes contains more than two items

bitsetBitfieldComparison(s, bits) ::= <%

(<testShiftInRange({ <offsetShiftVar(s.varName, bits.shift)> })> and ((1 <|< <offsetShiftVar(s.varName, bits.shift)>) & (<bits.ttypes:{ ttype | (1 <|< <offsetShiftType(ttype, bits.shift)>)}); separator=" | ">) != 0

%>

isZero ::= [

"0":true,

default:false

]

offsetShiftVar(shiftAmount, offset) ::= <%

<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>

%>

offsetShiftType(shiftAmount, offset) ::= <%

<if(!isZero.(offset))><parser.name>.<shiftAmount> - <offset><else><parser.name>.<shiftAmount><endif>

%>

// produces more efficient bytecode when bits.ttypes contains at most two items

bitsetInlineComparison(s, bits) ::= <%

<bits.ttypes:{ ttype | <s.varName>==<parser.name>.<ttype>} ; separator=" or ">

%>

cases(ttypes) ::= <<

if token in [<ttypes:{ t | <parser.name>.<t>} ; separator=", ">]:

>>

InvokeRule(r, argExprsChunks) ::= <<

self.state = <r.stateNumber>

<if(r.labels)><r.labels:{ l | <labelref(l)> =

```

nks>)
>>

MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{1 | <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:{1 | <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:{1 | <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:{1 | <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) ::= <<
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>"
RetValRef(a) ::= "localctx.<a.name>"
QRetValRef(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) ::= "getInvokingContext(<s.ruleIndex>).<s.name>"

```

```
SetNonLocalAttr(s, rhsChunks) ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"
```

```
AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"
```

```
TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>"
```

```
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType()> type"
```

```
TokenListDecl(t) ::= "self.<t.name> = list() # of <TokenLabelType()>s"
```

```
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
```

```
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"
```

```
ContextTokenGetterDecl(t) ::= <<
```

```
def <t.name>(self):
```

```
    return self.getToken(<parser.name>.<t.name>, 0)
```

```
>>
```

```
// should never be called
```

```
ContextTokenListGetterDecl(t) ::= <<
```

```
def <t.name>_list(self):
```

```
    return self.getTokens(<parser.name>.<t.name>)
```

```
>>
```

```
ContextTokenListIndexedGetterDecl(t) ::= <<
```

```
def <t.name>(self, i:int=None):
```

```
    if i is None:
```

```
        return self.getTokens(<parser.name>.<t.name>)
```

```
    else:
```

```
        return self.getToken(<parser.name>.<t.name>, i)
```

```
>>
```

```
ContextRuleGetterDecl(r) ::= <<
```

```
def <r.name>(self):
```

```
    return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)
```

```
>>
```

```
// should never be called
```

```
ContextRuleListGetterDecl(r) ::= <<
```

```
def <r.name>_list(self):
```

```
    return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
```

```
>>
```

```
ContextRuleListIndexedGetterDecl(r) ::= <<
```

```
def <r.name>(self, i:int=None):
```

```
    if i is None:
```

```
        return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
```

```
    else:
```

```
        return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)
```

```
>>
```

```
LexerRuleContext() ::= "RuleContext"
```

```
/** The rule context name is the rule followed by a suffix; e.g.,  
 * r becomes rContext.  
 */
```

```
RuleContextNameSuffix() ::= "Context"
```

```
ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
```

```
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
```

```
ImplicitSetLabel(id) ::= "_tset<id>"
```

```
ListLabelName(label) ::= "<label>"
```

```
CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
```

```
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"
```

```
StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers) ::= <<  
class <struct.name>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):
```

```
  def __init__(self, parser, parent:ParserRuleContext=None, invokingState:int=-1<struct.ctorAttrs:{ a | ,  
<a.name><if(a.type)>:<a.type><endif>=None }):
```

```
    super().__init__(parent, invokingState)
```

```
    self.parser = parser
```

```
    <attrs:{ a | <a>}; separator="\n">
```

```
    <struct.ctorAttrs:{ a | self.<a.name> = <a.name>}; separator="\n">
```

```
    <getters:{ g | <g>}; separator="\n\n">
```

```
  def getRuleIndex(self):
```

```
    return <parser.name>.RULE_<struct.derivedFromName>
```

```
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
```

```
  def copyFrom(self, ctx:ParserRuleContext):
```

```
    super().copyFrom(ctx)
```

```
    <struct.attrs:{ a | self.<a.name> = ctx.<a.name>}; separator="\n">
```

```
<endif>
```

```
  <dispatchMethods; separator="\n">
```

```
  <extensionMembers; separator="\n">
```

```
>>
```

```
AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
```

```
class <struct.name>(<currentRule.name; format="cap">Context):
```

```
  def __init__(self, parser, ctx:ParserRuleContext): # actually a <parser.name>.<currentRule.name;
```

```

format="cap">Context
  super().__init__(parser)
  <attrs:{a | <a>}; separator="\n">
  self.copyFrom(ctx)

  <getters:{g | <g>}; separator="\n">

  <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener:ParseTreeListener):
  if hasattr( listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">" ):
    listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor:ParseTreeVisitor):
  if hasattr( visitor, "visit<struct.derivedFromName; format="cap">" ):
    return visitor.visit<struct.derivedFromName; format="cap">(self)
  else:
    return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>"
recRuleSetStopToken() ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label) ::= <<
localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>localctx.<label> = _prevctx<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName>;

```



```

format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

```

```

recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

```

```

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
    self.triggerExitRuleEvent()
_prevctx = localctx
>>

```

```

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
from antlr4 import *
from io import StringIO
from typing.io import TextIO
import sys

<namedActions.header>

<lexer>
>>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
    from .<superClass> import <superClass>
else:
    from <superClass> import <superClass>

<endif>
<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

```

```

atn = ATNDeserializer().deserialize(serializedATN())

decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

<if(lexer.channels)>
  <lexer.channels:{c| <c> = <lexer.channels.(c)>}; separator="\n">

<endif>
<if(rest(lexer.modes))>
  <rest(lexer.modes):{m| <m> = <i>}; separator="\n">

<endif>
  <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>

channelNames = [ u"DEFAULT_TOKEN_CHANNEL", u"HIDDEN"<if (lexer.channels)>, <lexer.channels:{c|
u"<c>"}; separator=", ", wrap, anchor><endif> ]

modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ]

literalNames = [ "\<INVALID>",
  <lexer.literalNames:{t | <t>}; separator=", ", wrap, anchor> ]

symbolicNames = [ "\<INVALID>",
  <lexer.symbolicNames:{t | <t>}; separator=", ", wrap, anchor> ]

ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ]

grammarFileName = "<lexer.grammarFileName>"

def __init__(self, input=None, output:TextIO = sys.stdout):
  super().__init__(input, output)
  self.checkVersion("<lexerFile.ANTLRVersion>")
  self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
  self._actions = None
  self._predicates = None

<namedActions.members>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

def serializedATN():
  with StringIO() as buf:
    buf.write("<model.serialized; wrap={ }<\n>    buf.write(">")>")

```

```
return buf.getvalue()
```

```
>>
```

```
/** Using a type to init value map, try to init a type; if not in table
```

```
* must be an object, default value is "null".
```

```
*/
```

```
initValue(typeName) ::= <<
```

```
<pythonTypeInitMap.(typeName)>
```

```
>>
```

```
codeFileExtension() ::= ".py"
```

Found in path(s):

```
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
```

```
jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg
```

No license file was found, but licenses were detected in source scan.

```
* [The "BSD license"]
```

```
* All rights reserved.
```

```
* Redistribution and use in source and binary forms, with or without
```

```
* modification, are permitted provided that the following conditions
```

```
* are met:
```

```
* 1. Redistributions of source code must retain the above copyright
```

```
* notice, this list of conditions and the following disclaimer.
```

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* 2. Redistributions in binary form must reproduce the above copyright
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* notice, this list of conditions and the following disclaimer in the
```

```
* documentation and/or other materials provided with the distribution.
```

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* 3. The name of the author may not be used to endorse or promote products
```

```
* derived from this software without specific prior written permission.
```

```
[The "BSD licence"]
```

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All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
```

```
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notice, this list of conditions and the following disclaimer.
```

```
2. Redistributions in binary form must reproduce the above copyright
```

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```

```
documentation and/or other materials provided with the distribution.
```

```
3. The name of the author may not be used to endorse or promote products
```

```
derived from this software without specific prior written permission.
```

Found in path(s):

```
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/parse/ANTLRParser.g
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
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* are met:
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* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
```

```
/** ANTLR tool checks output templates are compatible with tool code generation.
```

```
* For now, a simple string match used on x.y of x.y.z scheme.
```

```
* Must match Tool.VERSION during load to templates.
```

```
*
```

```
* REQUIRED.
```

```
*/
```

```
javascriptTypeInitMap ::= [
  "bool":"false",
  "int":"0",
  "float":"0.0",
  "str": "",
  default:"{}" // anything other than a primitive type is an object
]
```

```
// args must be <object-model-object>, <fields-resulting-in-STs>
```

```
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
```

```

<fileHeader(file.grammarFileName, file.ANTLRVersion)>
var antlr4 = require('antlr4/index');
<if(file.genListener)>
var <file.grammarName>Listener = require('./<file.grammarName>Listener').<file.grammarName>Listener;
<endif>
<if(file.genVisitor)>
var <file.grammarName>Visitor = require('./<file.grammarName>Visitor').<file.grammarName>Visitor;
<endif>

```

```

<namedActions.header>

```

```

<parser>

```

```

>>

```

```

ListenerFile(file, header, namedActions) ::= <<

```

```

<fileHeader(file.grammarFileName, file.ANTLRVersion)>

```

```

var antlr4 = require('antlr4/index');

```

```

// This class defines a complete listener for a parse tree produced by <file.parserName>.

```

```

function <file.grammarName>Listener() {

```

```

    antlr4.tree.ParseTreeListener.call(this);

```

```

    return this;

```

```

}

```

```

<file.grammarName>Listener.prototype = Object.create(antlr4.tree.ParseTreeListener.prototype);

```

```

<file.grammarName>Listener.prototype.constructor = <file.grammarName>Listener;

```

```

<file.listenerNames:{lname |

```

```

// Enter a parse tree produced by <file.parserName>#<lname>.

```

```

<file.grammarName>Listener.prototype.enter<lname; format="cap"> = function(ctx) {

```

```

\};

```

```

// Exit a parse tree produced by <file.parserName>#<lname>.

```

```

<file.grammarName>Listener.prototype.exit<lname; format="cap"> = function(ctx) {

```

```

\};

```

```

}; separator="\n">

```

```

exports.<file.grammarName>Listener = <file.grammarName>Listener;

```

```

>>

```

```

VisitorFile(file, header, namedActions) ::= <<

```

```

<fileHeader(file.grammarFileName, file.ANTLRVersion)>

```

```

var antlr4 = require('antlr4/index');

```

```

// This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

```

```

function <file.grammarName>Visitor() {

```

```

antlr4.tree.ParseTreeVisitor.call(this);
return this;
}

<file.grammarName>Visitor.prototype = Object.create(antlr4.tree.ParseTreeVisitor.prototype);
<file.grammarName>Visitor.prototype.constructor = <file.grammarName>Visitor;

<file.visitorNames:{lname |
// Visit a parse tree produced by <file.parserName>#<lname>.
<file.grammarName>Visitor.prototype.visit<lname; format="cap"> = function(ctx) {
return this.visitChildren(ctx);
\};

}; separator="\n">

exports.<file.grammarName>Visitor = <file.grammarName>Visitor;
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>
// jshint ignore: start
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<if(superClass)>
var <superClass> = require('./<superClass>').<superClass>;
<endif>

var grammarFileName = "<parser.grammarFileName; format="java-escape">";

<atn>

var atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

var decisionsToDFA = atn.decisionToState.map( function(ds, index) { return new antlr4.dfa.DFA(ds, index); });

var sharedContextCache = new antlr4.PredictionContextCache();

var literalNames = [ <parser.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];

var symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];

var ruleNames = [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

function <parser.name> (input) {
<superClass; null="antlr4.Parser">.call(this, input);
this._interp = new antlr4.atn.ParserATNSimulator(this, atn, decisionsToDFA, sharedContextCache);

```

```

    this.ruleNames = ruleNames;
    this.literalNames = literalNames;
    this.symbolicNames = symbolicNames;
    <namedActions.members>
    return this;
}

<parser.name>.prototype = Object.create(<superClass; null="antlr4.Parser">.prototype);
<parser.name>.prototype.constructor = <parser.name>;

Object.defineProperty(<parser.name>.prototype, "atn", {
  get : function() {
    return atn;
  }
});

<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; separator="\n">

<if( sempredFuncs)>
<parser.name>.prototype.sempred = function(localctx, ruleIndex, predIndex) {
  switch(ruleIndex) {
    <parser.sempredFuncs.values:{f | case <f.ruleIndex>:
      return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
    default:
      throw "No predicate with index:" + ruleIndex;
  }
};

<sempredFuncs.values; separator="\n">
<endif>

exports.<parser.name> = <parser.name>;

>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
<lexer.name>.prototype.action = function(localctx, ruleIndex, actionIndex) {
  switch (ruleIndex) {
    <recog.actionFuncs.values:{f}
    case <f.ruleIndex>:

```

```

this.<f.name>_action(localctx, actionIndex);
break;}; separator="\n">
default:
  throw "No registered action for:" + ruleIndex;
}
};

```

```

<actionFuncs.values; separator="\n">
<endif>
<if( sempredFuncs)>
<lexer.name>.prototype.sempred = function(localctx, ruleIndex, predIndex) {
  switch (ruleIndex) {
    <recog.sempredFuncs.values:{f| case <f.ruleIndex>:
return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
    default:
      throw "No registered predicate for:" + ruleIndex;
  }
};

```

```

<sempredFuncs.values; separator="\n">
<endif>
>>

```

```

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/

```

```

RuleActionFunction(r, actions) ::= <<

```

```

<lexer.name>.prototype.<r.name>_action = function(localctx , actionIndex) {
  switch (actionIndex) {
    <actions:{index|
case <index>:
    <actions.(index)>
    break;}; separator="\n">
    default:
      throw "No registered action for:" + actionIndex;
  }
};
>>

```

```

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/

```

```

RuleSempredFunction(r, actions) ::= <<

```

```

<if (r.factory.g.lexer)><lexer.name><else><parser.name><endif>.prototype.<r.name>_sempred = function(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)
::= <<

<ruleCtx>

<altLabelCtxs: {l | <altLabelCtxs.(l)>}; separator="\n">

<! Define fields of this parser to export the context classes !>
<parser.name>.<currentRule.ctxType> = <currentRule.ctxType>;

<parser.name>.prototype.<currentRule.name> = function(<currentRule.args: {a | <a.name>}; separator=", ">) {

    var localctx = new <currentRule.ctxType>(this, this._ctx, this.state<currentRule.args: {a | , <a.name>}>);
    this.enterRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>);
    <namedActions.init>
    <locals; separator="\n">
    try {
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    <if(exceptions)>
    <exceptions; separator="\n">
    <else>
    } catch (re) {
        if(re instanceof antlr4.error.RecognitionException) {
            localctx.exception = re;
            this._errHandler.reportError(this, re);
            this._errHandler.recover(this, re);
        } else {
            throw re;
        }
    }<endif> finally {
        <finallyAction>
        this.exitRule();
    }
    return localctx;
};

>>

```

```

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
    namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<parser.name>.prototype.<currentRule.name> = function(_p<if(currentRule.args)>, <args:{a | , <a>}><endif>) {
    if(_p===undefined) {
        _p = 0;
    }
    var _parentctx = this._ctx;
    var _parentState = this.state;
    var localctx = new <currentRule.ctxType>(this, this._ctx, _parentState<args:{a | , <a.name>}>);
    var _prevctx = localctx;
    var _startState = <currentRule.startState>;
    this.enterRecursionRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p);
    <namedActions.init>
    <locals; separator="\n">
    try {
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    } catch( error) {
        if(error instanceof antlr4.error.RecognitionException) {
            localctx.exception = error;
            this._errHandler.reportError(this, error);
            this._errHandler.recover(this, error);
        } else {
            throw error;
        }
    } finally {
        <finallyAction>
        this.unrollRecursionContexts(_parentctx)
    }
    return localctx;
};

>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = new <currentOuterMostAltCodeBlock.altLabel>;
format="cap">Context(this, localctx);<endif>
this.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = this._input.LT(1);<endif>
<preamble; separator="\n">
switch(this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  break;}; separator="\n">
default:
  <error>
}
>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
switch (this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  break;}; separator="\n">
default:
  break;
}
>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
if(<expr>) {
  <alts; separator="\n">
}
<!else if ( !(<followExpr> ) ) <error>!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
while(<loopExpr>) {
  <alts; separator="\n">
}
>>

```

```

    this.state = <choice.loopBackStateNumber>;
    this._errHandler.sync(this);
    <iteration>
}
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
<preamble; separator="\n">
do {
    <alts; separator="\n">
    this.state = <choice.stateNumber>; <! loopback/exit decision !>
    this._errHandler.sync(this);
    <iteration>
} while(<loopExpr>);
>>

```

```

// LL(*) stuff

```

```

AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
switch(la_) {
<alts:{alt |
case <i>:
    <alt>
    break;
}; separator="\n">
}
>>

```

```

OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
<alts:{alt |
if(la_===<i><if(!choice.ast.greedy)>+1<endif>) {
    <alt>
}; separator="\n} else ">
}
>>

```

```

StarBlock(choice, alts, sync, iteration) ::= <<
this.state = <choice.stateNumber>;

```

```

this._errHandler.sync(this);
var _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);
var _alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
  switch (_alt) {
    <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
    break;}; separator="\n">
  default:
    <error>
  }
  this.state = <choice.loopBackStateNumber>; <! loopback/exit decision !>
  this._errHandler.sync(this);
  _alt = this._interp.adaptivePredict(this._input,<choice.decision>, this._ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER );
>>

```

```

Sync(s) ::= "sync(<s.expecting.name>)"

```

```

ThrowNoViableAlt(t) ::= "throw new antlr4.error.NoViableAltException(this);"

```

```

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>; separator=" || ">
>>

```

```

// Javascript language spec - shift operators are 32 bits long max
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x1f) == 0
>>

```

```

// produces smaller bytecode only when bits.ttypes contains more than two items

```

```

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> && ((1 \<< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<< <offsetShiftType(ttype, bits.shift)>)}; separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><parser.name>.<shiftAmount> - <offset><else><parser.name>.<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>===<parser.name>.<ttype>}; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{t | case <parser.name>.<t>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
this.state = <r.stateNumber>;
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>this.<r.name><(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><argExprsChu
nks>);
>>

MatchToken(m) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>this.match(<parser.name>.<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }>this._input.LT(1);<endif>
<capture>
<if(invert)>if(<m.varName>\<=0 || <expr>)<else>if(!(<expr>))<endif> {

```

```

    <if(m.labels)><m.labels:{1 | <labelref(1)> = }><endif>this._errHandler.recoverInline(this);
  }
  else {
    this._errHandler.reportMatch(this);
    this.consume();
  }
  >>

```

```

Wildcard(w) ::= <<
this.state = <w.stateNumber>;
<if(w.labels)><w.labels:{1 | <labelref(1)> = }><endif>this.matchWildcard();
>>

```

```
// ACTION STUFF
```

```
Action(a, foo, chunks) ::= "<chunks>"
```

```
ArgAction(a, chunks) ::= "<chunks>"
```

```

SemPred(p, chunks, failChunks) ::= <<
this.state = <p.stateNumber>;
if (!( <chunks>)) {
  throw new antlr4.error FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
}
>>

```

```

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
  <catchAction>
}
>>

```

```
// lexer actions are not associated with model objects
```

```

LexerSkipCommand() ::= "this.skip()"
LexerMoreCommand() ::= "this.more()"
LexerPopModeCommand() ::= "this.popMode()"
LexerTypeCommand(arg, grammar) ::= "this._type = <arg>"
LexerChannelCommand(arg, grammar) ::= "this._channel = <arg>"
LexerModeCommand(arg, grammar) ::= "this._mode = <arg>"
LexerPushModeCommand(arg, grammar) ::= "this.pushMode(<arg>)"

```

```

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValRef(a) ::= "localctx.<a.name>"

```

```

QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label>====null ? null : <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : parseInt(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>====null ? null : <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r) ::= "(<ctx(r)>.<r.label>====null ? null : <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "(<ctx(r)>.<r.label>====null ? null : this._input.getText(new antlr4.Interval(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "this"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
ThisRulePropertyRef_text(r) ::= "this._input.getText(new antlr4.Interval(localctx.start, this._input.LT(-1)))"
ThisRulePropertyRef_ctx(r) ::= "localctx"
ThisRulePropertyRef_parser(r) ::= "this"

NonLocalAttrRef(s) ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.push(<labelref(a.label)>);"

TokenDecl(t) ::= "this.<t.name> = null; // <TokenLabelType()>"
TokenTypeDecl(t) ::= "var <t.name> = 0; // <TokenLabelType()> type"
TokenListDecl(t) ::= "this.<t.name> = []; // of <TokenLabelType()>s"
RuleContextDecl(r) ::= "this.<r.name> = null; // <r.ctxName>"
RuleContextListDecl(rdecl) ::= "this.<rdecl.name> = []; // of <rdecl.ctxName>s"

ContextTokenGetterDecl(t) ::= <<
<t.name> = function() {
    return this.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) ::= <<
<t.name> = function(i) {
    if(i===undefined) {
        i = null;
    }
    if(i===null) {
        return this.getTokens(<parser.name>.<t.name>);
    } else {
        return this.getToken(<parser.name>.<t.name>, i);
    }
};

>>

ContextRuleGetterDecl(r) ::= <<
<r.name> = function() {
    return this.getTypedRuleContext(<r.ctxName>,0);
};

>>

// should never be called
ContextRuleListGetterDecl(r) ::= <<
def <r.name>_list(self):
    return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r) ::= <<
<r.name> = function(i) {
    if(i===undefined) {
        i = null;
    }
    if(i===null) {
        return this.getTypedRuleContexts(<r.ctxName>);
    } else {
        return this.getTypedRuleContext(<r.ctxName>,i);
    }
};

>>

LexerRuleContext() ::= "RuleContext"

```

```

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = this._input.LA(1);"

StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers) ::= <<
function <struct.name>(parser, parent, invokingState<struct.ctorAttrs:{a | , <a.name>}>) {
  if(parent===undefined) {
    parent = null;
  }
  if(invokingState===undefined || invokingState===null) {
    invokingState = -1;
  }
  <if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif>.call(this, 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">
  return this;
}

<struct.name>.prototype =
Object.create(<if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif>.prototype);
<struct.name>.prototype.constructor = <struct.name>;

<getters:{g | <struct.name>.prototype.<g>}; separator="\n\n">

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
<struct.name>.prototype.copyFrom = function(ctx) {
<if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif>.prototype.copyFrom.call(this,
ctx);
  <struct.attrs:{a | this.<a.name> = ctx.<a.name>}; separator="\n">
};
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">

>>

```

```

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
function <struct.name>(parser, ctx) {
  <currentRule.name; format="cap">Context.call(this, parser);
  <attrs:{a | <a>;}; separator="\n">
  <currentRule.name; format="cap">Context.prototype.copyFrom.call(this, ctx);
  return this;
}

<struct.name>.prototype = Object.create(<currentRule.name; format="cap">Context.prototype);
<struct.name>.prototype.constructor = <struct.name>;

<! Define fields of this parser to export this struct/context class !>
<parser.name>.<struct.name> = <struct.name>;

<getters:{g | <struct.name>.prototype.<g>;}; separator="\n\n">
<dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
<struct.name>.prototype.<if(method.isEnter)>enter<else>exit<endif>Rule = function(listener) {
  if(listener instanceof <parser.grammarName>Listener ) {
    listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(this);
  }
};

>>

VisitorDispatchMethod(method) ::= <<
<struct.name>.prototype.accept = function(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)>
var antlr4 = require('antlr4/index');

<namedActions.header>

<lexer>

>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<

```

```

<if(superClass)>
var <superClass> = require('./<superClass>').<superClass>;
<endif>

<atn>

var atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

var decisionsToDFA = atn.decisionToState.map( function(ds, index) { return new antlr4.dfa.DFA(ds, index); });

function <lexer.name>(input) {
  <if(superClass)><superClass><else>antlr4.Lexer<endif>.call(this, input);
  this._interp = new antlr4.atn.LexerATNSimulator(this, atn, decisionsToDFA, new
antlr4.PredictionContextCache());
  <namedActions.members>
  return this;
}

<lexer.name>.prototype = Object.create(<if(superClass)><superClass><else>antlr4.Lexer<endif>.prototype);
<lexer.name>.prototype.constructor = <lexer.name>;

Object.defineProperty(<lexer.name>.prototype, "atn", {
  get : function() {
    return atn;
  }
});

<lexer.name>.EOF = antlr4.Token.EOF;
<lexer.tokens:{k | <lexer.name>.<k> = <lexer.tokens.(k)>;}; separator="\n", wrap, anchor>

<if(lexer.channels)>
<lexer.channels:{c | <lexer.name>.<c> = <lexer.channels.(c)>;}; separator="\n">

<endif>
<if(rest(lexer.modes))>
<rest(lexer.modes):{m | <lexer.name>.<m> = <i>;}; separator="\n">

<endif>
<lexer.name>.prototype.channelNames = [ "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channels)>,
<lexer.channels:{c | "<c>"}; separator=", ", wrap, anchor><endif> ];

<lexer.name>.prototype.modeNames = [ <lexer.modes:{m | "<m>"}; separator=", ", wrap, anchor> ];

<lexer.name>.prototype.literalNames = [ <lexer.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];

<lexer.name>.prototype.symbolicNames = [ <lexer.symbolicNames:{t | <t>}; null="null", separator=", ", wrap,
anchor> ];

```

```
<lexer.name>.prototype.ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];
```

```
<lexer.name>.prototype.grammarFileName = "<lexer.grammarFileName>";
```

```
<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
```

```
exports.<lexer.name> = <lexer.name>;
```

```
>>
```

```
SerializedATN(model) ::= <<
```

```
<! only one segment, can be inlined !>
```

```
var serializedATN = ["<model.serialized; wrap={", <\n> " }>"].join("");
```

```
>>
```

```
/** Using a type to init value map, try to init a type; if not in table
```

```
* must be an object, default value is "null".
```

```
*/
```

```
initValue(typeName) ::= <<
```

```
<javacriptTypeInitMap.(typeName)>
```

```
>>
```

```
codeFileExtension() ::= ".js"
```

```
Found in path(s):
```

```
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg
```

```
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
* [The "BSD license"]
```

```
* Copyright (c) 2012-2016 Terence Parr
```

```
* Copyright (c) 2012-2016 Sam Harwell
```

```
* All rights reserved.
```

```
*
```

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* modification, are permitted provided that the following conditions
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*/

```

```

/** templates used to generate make-compatible dependencies */

```

```

/** Generate "f : x, y, z" dependencies for input
* dependencies and generated files. in and out
* are File objects. For example, you can say
* <f.canonicalPath>
*/
dependencies(grammarFileName,in,out) ::= <<
<if(in)><grammarFileName>: <in; separator="," ><endif>
<out:{ f | <f> : <grammarFileName>; separator="\n"}>
>>

```

Found in path(s):

```

* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/templates/depend.stg

```

1.63 micronaut-security 3.5.0

1.63.1 Available under license :

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```

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Found in path(s):

- * /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/x509/X509AuthenticationArgumentBinder.java
- * /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/endpoints/ControllerConfiguration.java
- * /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/rules/SensitiveEndpointRule.java
- * /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/x509/X509AuthenticationFetcher.java
- * /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/x509/X509ConfigurationProperties.java
- * /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/propagation/AbstractOutgoingRequestProcessorMatcher.java
- * /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/x509/X509Configuration.java
- * /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/utills/LoggingUtils.java
- * /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/x509/X509Authentication.java

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Found in path(s):

- * /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/META-INF/native-image/io.micronaut.security/micronaut-security/native-image.properties

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Found in path(s):

- * /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/filters/SecurityFilterConfiguration.java
- * /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/ServerAuthentication.java
- * /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/AbstractPrincipalArgumentBinder.java
- * /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/filters/SecurityFilterConfigurationProperties.java

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Found in path(s):

- * /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/AuthenticationRequest.java
- * /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/endpoints/introspection/IntrospectionRequest.java
- * /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/validator/TokenValidator.java
- * /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/handlers/LoginHandler.java
- * /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/BasicAuthUtils.java
- * /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/AuthenticationMode.java
- * /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/filters/AuthenticationFetcher.java
- * /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/generator/TokenGenerator.java
- * /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/rules/ConfigurationInterceptUrlMapRule.java
- * /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-

jar/io/micronaut/security/rules/SecurityRuleResult.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/endpoints/LoginController.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/TokenAuthenticationFetcher.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/rules/AbstractSecurityRule.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/generator/package-info.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/reader/package-info.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/validator/package-info.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/endpoints/introspection/package-info.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/handlers/RedirectingLoginHandler.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/authentication/UsernamePasswordCredentials.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/event/LoginFailedEvent.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/handlers/LogoutHandler.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/errors/package-info.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/rules/IpPatternsRule.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/endpoints/introspection/DefaultIntrospectionProcessor.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/authentication/AuthenticationResponse.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/event/RefreshTokenGeneratedEvent.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/config/SecurityConfigurationProperties.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/config/TokenConfigurationProperties.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/RolesFinder.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/event/LogoutEvent.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/config/package-info.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/authentication/PrincipalArgumentBinder.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/reader/HttpHeaderTokenReader.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-

jar/io/micronaut/security/endpoints/package-info.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/errors/IssuingAnAccessTokenErrorCode.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/propagation/HttpHeaderTokenPropagator.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/handlers/package-info.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/propagation/HttpHeaderTokenPropagatorConfiguration.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/rules/SecuredAnnotationRule.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/endpoints/introspection/IntrospectionProcessor.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/authentication/Authenticator.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/utis/SecurityService.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/authentication/AuthenticationModeCondition.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/utis/DefaultSecurityService.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/endpoints/LogoutControllerConfiguration.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/errors/PriorToLoginPersistence.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/event/package-info.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/propagation/package-info.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/endpoints/LogoutController.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/event/package-info.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/authentication/BasicAuthAuthenticationConfiguration.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/config/package-info.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/propagation/TokenPropagator.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/refresh/RefreshTokenPersistence.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/errors/ErrorCode.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/endpoints/introspection/IntrospectionConfigurationProperties.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/authentication/Authentication.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-

jar/io/micronaut/security/config/AuthenticationStrategy.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/reader/TokenResolver.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/reader/DefaultTokenResolver.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/endpoints/LogoutControllerConfigurationProperties.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/TokenAuthenticationFactory.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/endpoints/introspection/IntrospectionConfiguration.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/authentication/BasicAuthAuthenticationFetcher.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/generator/RefreshTokenGenerator.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/filters/SecurityFilter.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/config/TokenConfiguration.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/rules/SecurityRule.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/reader/TokenReader.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/Claims.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/filters/package-info.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/config/TokenCookieConfiguration.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/authentication/AuthenticationFailed.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/authentication/jackson/SecurityJacksonModule.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/authentication/DefaultAuthorizationExceptionHandler.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/config/SecurityConfiguration.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/errors/ObtainingAuthorizationErrorCode.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/endpoints/introspection/IntrospectionController.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/endpoints/introspection/IntrospectionResponse.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/config/RefreshRedirectConfiguration.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/propagation/HttpHeaderTokenPropagatorConfigurationProperties.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-

jar/io/micronaut/security/errors/OauthErrorResponseException.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/rules/InterceptUrlMapRule.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/authentication/AuthenticationFailureReason.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/authentication/AuthenticationProvider.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/rules/package-info.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/validator/RefreshTokenValidator.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/authentication/AuthorizationException.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/errors/CookiePriorToLoginPersistence.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/config/ForbiddenRedirectConfiguration.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/config/RedirectConfigurationProperties.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/errors/OauthErrorResponseExceptionHandler.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/MapClaims.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/propagation/TokenPropagationHttpClientFilter.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/event/AccessTokenGeneratedEvent.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/event/TokenValidatedEvent.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/DefaultRolesFinder.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/config/UnauthorizedRedirectConfiguration.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/package-info.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/authentication/AuthenticationException.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/authentication/package-info.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/errors/ErrorResponse.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/config/AuthenticationModeConfiguration.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/x509/package-info.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/config/RedirectConfiguration.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-

jar/io/micronaut/security/authentication/AuthenticationExceptionHandler.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/authentication/AuthenticationArgumentBinder.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/authentication/CookieBasedAuthenticationModeCondition.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/package-info.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/propagation/TokenPropagationConfigurationProperties.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/endpoints/LoginControllerConfigurationProperties.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/config/InterceptUrlMapPattern.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/authentication/ClientAuthentication.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/endpoints/LoginControllerConfiguration.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/event/LoginSuccessfulEvent.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/config/InterceptUrlMapConverter.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/propagation/TokenPropagationConfiguration.java

1.64 apache-log4j-api 2.17.1

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1.65 error_prone_annotations 2.5.1

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Found in path(s):

```
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
jar/com/google/errorprone/annotations/FormatMethod.java
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
jar/com/google/errorprone/annotations/DoNotMock.java
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
jar/com/google/errorprone/annotations/CompatibleWith.java
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
jar/com/google/errorprone/annotations/FormatString.java
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
jar/com/google/errorprone/annotations/MustBeClosed.java
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- * /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
- * /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-jar/com/google/errorprone/annotations/Var.java
- * /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-jar/com/google/errorprone/annotations/CompileTimeConstant.java
- * /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-jar/com/google/errorprone/annotations/ForOverride.java
- * /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-jar/com/google/errorprone/annotations/Immutable.java
- * /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-jar/com/google/errorprone/annotations/concurrent/LazyInit.java
- * /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-jar/com/google/errorprone/annotations/RequiredModifiers.java
- * /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-jar/com/google/errorprone/annotations/SuppressPackageLocation.java

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- * /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-jar/com/google/errorprone/annotations/DoNotCall.java
- * /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-

jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
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* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-  
jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java  
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-  
jar/com/google/errorprone/annotations/NoAllocation.java  
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-  
jar/com/google/errorprone/annotations/concurrent/LockMethod.java
```

1.66 picocli 4.5.2

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1.67 micronaut-kotlin-integrations 3.2.2

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```

Found in path(s):

```
* /opt/cola/permits/1331473908_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-
jar/io/micronaut/ktor/KtorApplicationBuilder.kt
* /opt/cola/permits/1331473908_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-
jar/io/micronaut/ktor/KtorApplicationBuilder.kt
* /opt/cola/permits/1331473908_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-
jar/io/micronaut/ktor/server/AbstractKtorEmbeddedServer.kt
* /opt/cola/permits/1331473908_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-
jar/io/micronaut/ktor/KtorRoutingBuilder.kt
* /opt/cola/permits/1331473908_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-
jar/io/micronaut/ktor/server/KtorTomcatEmbeddedServer.kt
* /opt/cola/permits/1331473908_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-
jar/io/micronaut/ktor/env/MicronautKtorEnvironmentConfig.kt
* /opt/cola/permits/1331473908_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-
jar/io/micronaut/ktor/server/KtorNettyEmbeddedServer.kt
* /opt/cola/permits/1331473908_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-
jar/io/micronaut/ktor/factory/MicronautKtorApplicationFactory.kt
* /opt/cola/permits/1331473908_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-
jar/io/micronaut/ktor/server/KtorJettyEmbeddedServer.kt
```

1.68 commons-io 2.11.0

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1.69 micronaut-micrometer 4.2.0

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1.70 jackson-dataformat-yaml 2.13.2

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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c,
file_io/unix/mktemp.c, strings/apr_strings.c:

```
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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

```
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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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 - License: BSD ([license/third_party/asm_license.txt][asm])
 - Origin: Derived from ASM: a very small and fast Java bytecode manipulation framework, Copyright (c) 2000-2011 INRIA, France Telecom
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- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/optimization/common/FastMethodAnalyzer.kt
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 - Origin: Derived from ASM: a very small and fast Java bytecode manipulation framework, Copyright (c) 2000-2011 INRIA, France Telecom
- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/optimization/common/InstructionLivenessAnalyzer.kt
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- Path: core/reflection.jvm/src/kotlin.reflect/jvm/internal/pcollections
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- Path: eval4j/src/org/jetbrains/eval4j/interpreterLoop.kt
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 - Origin: Derived from ASM: a very small and fast Java bytecode manipulation framework, Copyright (c) 2000-2011 INRIA, France Telecom

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- Path: js/js.ast
 - License: BSD ([license/third_party/dart_LICENSE.txt][dart])
 - Origin: Originally part of the Dart compiler, (c) 2011 the Dart Project Authors,

- Path: js/js.inliner/src/org/jetbrains/kotlin/js/inline/FunctionInlineMutator.kt
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 - Origin: Originally part of the Dart compiler, (c) 2011 the Dart Project Authors,

- Path: js/js.parser/src/com/google
 - License: Netscape Public License 1.1 ([license/third_party/rhino_LICENSE.txt][rhino])
 - Origin: Originally part of GWT, (C) 2007-08 Google Inc., distributed under the Apache 2 license. The code is derived from Rhino, (C) 1997-1999 Netscape Communications Corporation, distributed under the Netscape Public License.

- Path: js/js.translator/qunit/qunit.js
 - License: MIT ([license/third_party/qunit_license.txt][qunit])
 - Origin: QUnit, Copyright (c) 2012 John Resig, Jrn Zaeferrer,

- Path: libraries/stdlib/src/kotlin/collections
 - License: Apache 2 ([license/third_party/gwt_license.txt][gwt])
 - Origin: Derived from GWT, (C) 2007-08 Google Inc.

- Path: libraries/stdlib/unsigned/src/kotlin/UnsignedUtils.kt
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- Path: libraries/stdlib/jvm/src/kotlin/util/MathJVM.kt
 - License: Boost Software License 1.0 ([license/third_party/boost_LICENSE.txt][boost])
 - Origin: Derived from boost special math functions, Copyright Eric Ford & Hubert Holin 2001.

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- Path: libraries/stdlib/js-v1/src/js/long.js
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- Origin: Google Closure Library, Copyright 2009 The Closure Library Authors

- Path: libraries/stdlib/js-v1/src/js/polyfills.js
 - License: Boost Software License 1.0 ([license/third_party/boost_LICENSE.txt][boost])
 - Origin: Derived from boost special math functions, Copyright Eric Ford & Hubert Holin 2001.

- Path: libraries/stdlib/wasm/internal/kotlin/wasm/internal/Number2String.kt
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 - Origin: Derived from assemblyscript standard library

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- Path: plugins/lint/lint-api
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- Path: plugins/lint/lint-idea
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- Path: wasm/ir/src/org/jetbrains/kotlin/wasm/ir/convertors
 - License: MIT ([license/third_party/asmble_license.txt][asmble])
 - Origin: Copyright (C) 2018 Chad Retz

- Path: compiler/tests-common/tests/org/jetbrains/kotlin/codegen/ir/ComposeLikeGenerationExtension.kt
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 - License: Eclipse Public License v1.0 ([license/third_party/testdata/eclipse_license.txt][eclipse])
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- Path: third-party/annotations/edu/umd/cs/findbugs
 - License: LGPL 2.1 ([license/third_party/testdata/findbugs_license.txt][findbugs])
 - Origin: Bytecode Analysis Framework, Copyright (C) 2005 University of Maryland

- Path: third-party/java8-annotations/org/eclipse
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- Path: third-party/annotations/io/reactivex
 - License: Apache 2 ([license/third_party/testdata/rxjava_license.txt][rxjava])
 - Origin: RxJava, Copyright (c) 2016-present, RxJava Contributors

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 - Origin: JSpecify, Copyright (C) 2020 The JSpecify Authors

- Path: third-party/java9-annotations/org/jspecify
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- Path: third-party/annotations/lombok
 - License: MIT ([license/third_party/testdata/lombok_license.txt][lombok])
 - Origin: Project Lombok, Copyright (C) 2009-2013 The Project Lombok Authors

- Path: idea/idea-android/tests/org/jetbrains/kotlin/android/AndroidTestBase.java
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- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/resources/testProject/allOpenSpring/src/org/springframework/stereotype/Component.java
 - License: Apache 2 ([license/third_party/testdata/spring_license.txt][spring])
 - Origin: Spring Framework, Copyright 2002-2007 the original author or authors.

- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/resources/testProject/AndroidDaggerProject
 - License: Apache 2 ([license/third_party/testdata/dagger_license.txt][dagger])
 - Origin: Dagger, Copyright (C) 2013 Square, Inc.

- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/resources/testProject/kapt2
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- Path: libraries/tools/kotlin-maven-plugin-test/src/it/test-allopen-spring/src/main/java/org/springframework/stereotype/Component.java
 - License: Apache 2 ([license/third_party/testdata/spring_license.txt][spring])
 - Origin: Spring Framework, Copyright 2002-2007 the original author or authors.

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 - License: Apache 2 ([license/third_party/gradle_license.txt][gradle])
 - Origin: Gradle, Copyright 2002-2017 Gradle, Inc.

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 - License: Eclipse Public License v1.0 ([license/third_party/testdata/eclipse_license.txt][eclipse]) and Eclipse Distribution License - v1.0 ([license/third_party/testdata/eclipse_distribution_license.txt][eclipse-distribution])
 - Origin: javax.persistence, Copyright (c) 2008, 2017 Sun Microsystems, Oracle Corporation.

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 - Origin: javax.persistence, Copyright (c) 2008, 2017 Sun Microsystems, Oracle Corporation.

- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/resources/testProject/noArgJpa/src/javax/persistence/Embeddable.java
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 - Origin: javax.persistence, Copyright (c) 2008, 2017 Sun Microsystems, Oracle Corporation.

- Path: libraries/tools/kotlin-test-js-runner/karma-kotlin-reporter.js
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 - License: MIT ([license/third_party/mocha-teamcity-reporter_LICENSE.txt](third_party/mocha-teamcity-reporter_LICENSE.txt))
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- Path: libraries/tools/kotlin-test-js-runner/src/utils.ts
 - License: MIT ([license/third_party/teamcity-service-messages_LICENSE.txt](third_party/teamcity-service-messages_LICENSE.txt) and [license/third_party/lodash_LICENSE.txt](third_party/lodash_LICENSE.txt))
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- Path: libraries/tools/kotlin-test-js-runner/src/teamcity-format.js
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 - Origin: Copyright (c) 2016 Jamie Sherriff and Copyright (c) 2013 Aaron Forsander

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 - Origin: jQuery JavaScript Library v1.6.2, Copyright 2011, John Resig

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Version 3.1, 31 March 2009

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package tasks

import groovy.util.Node

import groovy.util.XmlParser

import org.gradle.api.DefaultTask

import org.gradle.api.file.RegularFileProperty

import org.gradle.api.provider.Property

import org.gradle.api.tasks.Input

import org.gradle.api.tasks.InputFile

import org.gradle.api.tasks.OutputFile

import org.gradle.api.tasks.TaskAction

import java.util.*

abstract class WriteCopyrightToFile : DefaultTask() {

 @InputFile

 val path = project.file("\${project.rootDir}/.idea/copyright/apache.xml")

 @get:OutputFile

 abstract val outputFile: RegularFileProperty

 @get:Input

 val commented: Property<Boolean> = project.objects.property(Boolean::class.java).convention(true)

 @TaskAction

 fun write() {

 val file = outputFile.asFile.get()

 file.writeText(if (commented.get()) readCopyrightCommented() else readCopyright())

 }

 private fun readCopyright(): String {

 assert(path.exists()) {

 "File \$path with copyright not found"

```

    }

    val xmlParser = XmlParser()
    val node = xmlParser.parse(path)
    assert(node.attribute("name") == "CopyrightManager") {
        "Format changed occasionally?"
    }

    val copyrightBlock = node.children().filterIsInstance<Node>().single()
    val noticeNode = copyrightBlock.children().filterIsInstance<Node>().single { it.attribute("name") == "notice" }
    return noticeNode.attribute("value").toString().replace("&#36;today.year",
    GregorianCalendar()[Calendar.YEAR].toString())
}

private fun readCopyrightCommented(): String {
    return "/*\n" + readCopyright().prependIndent(" * ") + "\n */"
}
}

```

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zlib.h -- interface of the 'zlib' general purpose compression library
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1.73 opentracing-util 0.33.0

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Found in path(s):

* /opt/cola/permits/1340188715_1654650550.7780979/0/opentracing-util-0-33-0-sources-2-jar/META-INF/maven/io.opentracing/opentracing-util/pom.xml

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* /opt/cola/permits/1340188715_1654650550.7780979/0/opentracing-util-0-33-0-sources-2-jar/io/opentracing/util/ThreadLocalScope.java
* /opt/cola/permits/1340188715_1654650550.7780979/0/opentracing-util-0-33-0-sources-2-jar/io/opentracing/util/ThreadLocalScopeManager.java
* /opt/cola/permits/1340188715_1654650550.7780979/0/opentracing-util-0-33-0-sources-2-jar/io/opentracing/util/GlobalTracer.java

1.74 micronaut-r2dbc 2.1.0

1.74.1 Available under license :

mcr.microsoft.com/mssql/server:2017-CU12

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1.75 docker-java-transport 3.2.12

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- * /opt/cola/permits/1331473995_1653068669.1105134/0/docker-java-transport-3-2-12-sources-jar/com/github/dockerjava/transport/LinuxDomainSocket.java
- * /opt/cola/permits/1331473995_1653068669.1105134/0/docker-java-transport-3-2-12-sources-jar/com/github/dockerjava/transport/FileDescriptor.java
- * /opt/cola/permits/1331473995_1653068669.1105134/0/docker-java-transport-3-2-12-sources-jar/com/github/dockerjava/transport/DomainSocket.java
- * /opt/cola/permits/1331473995_1653068669.1105134/0/docker-java-transport-3-2-12-sources-jar/com/github/dockerjava/transport/BsdDomainSocket.java
- * /opt/cola/permits/1331473995_1653068669.1105134/0/docker-java-transport-3-2-12-sources-jar/com/github/dockerjava/transport/AbstractSocket.java

1.76 jqwik-engine 1.6.1

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```
package net.jqwik.engine.facades;
```

```
import java.util.*;
```

```
import net.jqwik.api.configurators.*;
```

```
import net.jqwik.api.domains.*;
```

```
import net.jqwik.api.providers.*;
```

```
import net.jqwik.engine.properties.*;
```

```
import net.jqwik.engine.properties.configurators.*;
```

```
import net.jqwik.engine.providers.*;
```

```
public class DomainContextFacadeImpl extends DomainContext.DomainContextFacade {
```

```
    private static final ThreadLocal<DomainContext> currentContext = new ThreadLocal<>();
```

```
    private static final DomainContext global = new GlobalDomainContext();
```

```
    public static DomainContext getCurrentContext() {
```

```
        if (currentContext.get() == null) {
```

```
            return global;
```

```
        }
```

```

return currentContext.get();
}

public static void setCurrentContext(DomainContext context) {
    currentContext.set(context);
}

public static void removeCurrentContext() {
    currentContext.remove();
}

@Override
public DomainContext global() {
    return global;
}

private static class GlobalDomainContext implements DomainContext {

    @Override
    public List<ArbitraryProvider> getArbitraryProviders() {
        return RegisteredArbitraryProviders.getProviders();
    }

    @Override
    public List<ArbitraryConfigurator> getArbitraryConfigurators() {
        return RegisteredArbitraryConfigurators.getConfigurators();
    }
}

@Override
public List<ArbitraryProvider> getArbitraryProviders(DomainContextBase base, int priority) {
    return DomainContextBaseProviders.forContextBase(base, priority);
}

@Override
public List<ArbitraryConfigurator> getArbitraryConfigurators(DomainContextBase base) {
    return DomainContextBaseConfigurators.forContextBase(base);
}
}

```

Found in path(s):

* /opt/cola/permits/1341779142_1654804291.524746/0/jqwik-engine-1-6-1-sources-jar/net/jqwik/engine/facades/DomainContextFacadeImpl.java

1.77 netty/resolver/dns/classes/macos

4.1.73.Final

1.77.1 Available under license :

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Manifest-Version: 1.0
Implementation-Title: Netty/Resolver/DNS/Native/MacOS
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.resolver.dns.macos
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>
Bundle-SymbolicName: io.netty.resolver-dns-native-macos
Implementation-Version: 4.1.73.Final
Built-By: norman
Bnd-LastModified: 1641983740817
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/Resolver/DNS/Native/MacOS
Bundle-Version: 4.1.73.Final
Bundle-NativeCode: META-INF/native/libnetty_resolver_dns_native_macos_aarch_64.jnilib; osname=MacOSX; processor=aarch_64
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_252
Implementation-URL: <https://netty.io/netty-resolver-dns-native-macos/>

Found in path(s):

* /opt/cola/permits/1290493679_1648156773.25/0/netty-resolver-dns-native-macos-4-1-73-final-osx-aarch-64-jar/META-INF/MANIFEST.MF

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* /opt/cola/permits/1290493679_1648156773.25/0/netty-resolver-dns-native-macos-4-1-73-final-osx-aarch-64-jar/META-INF/maven/io.netty/netty-resolver-dns-native-macos/pom.xml

1.78 netty/transport/classes/kqueue

4.1.73.Final

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Manifest-Version: 1.0

Implementation-Title: Netty/Transport/Native/KQueue

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.transport.kqueue

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.transport-native-kqueue

Implementation-Version: 4.1.73.Final

Built-By: norman

Bnd-LastModified: 1641983334882

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional

Tool: Bnd-2.4.1.201501161923

Implementation-Vendor: The Netty Project

Bundle-Name: Netty/Transport/Native/KQueue

Bundle-Version: 4.1.73.Final

Bundle-NativeCode: META-INF/native/libnetty_transport_native_kqueue_x86_64.jnilib; osname=MacOSX; processor=x86_64

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0_252

Implementation-URL: <https://netty.io/netty-transport-native-kqueue/>

Found in path(s):

* /opt/cola/permits/1290493534_1648156941.2/0/netty-transport-native-kqueue-4-1-73-final-osx-x86-64-jar/META-INF/MANIFEST.MF

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1.79 findbugs-jsr305 3.0.2

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1.82 io-swagger-swagger-annotations 2.1.12

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Manifest-Version: 1.0

Bundle-Description: swagger-annotations

Automatic-Module-Name: io.swagger.v3.oas.annotations

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package: io.swagger

Bundle-SymbolicName: io.swagger.core.v3.swagger-annotations

implementation-version: 2.1.12

Built-By: runner

Bundle-ManifestVersion: 2

Bundle-DocURL: <https://github.com/swagger-api/swagger-core/modules/swagger-annotations>

Import-Package: io.swagger.v3.oas.annotations,io.swagger.v3.oas.annotations.enums,io.swagger.v3.oas.annotations.extensions,io.swagger.v3.oas.annotations.headers,io.swagger.v3.oas.annotations.info,io.swagger.v3.oas.annotations.links,io.swagger.v3.oas.annotations.media,io.swagger.v3.oas.annotations.parameters,io.swagger.v3.oas.annotations.responses,io.swagger.v3.oas.annotations.security,io.swagger.v3.oas.annotations.servers,io.swagger.v3.oas.annotations.tags

Require-Capability: osgi.ee;filter:=("&(osgi.ee=JavaSE)(version=1.8)")
Bundle-Developers: fehguy;email="fehguy@gmail.com";name="Tony Tam",web
ron;email="webron@gmail.com";name="Ron Ratovsky"
url: <https://github.com/swagger-api/swagger-core/modules/swagger-annotations>
mode: development
Export-Package: io.swagger.v3.oas.annotations;uses:="io.swagger.v3.oas.
.annotations.enums,io.swagger.v3.oas.annotations.extensions,io.swagger.
v3.oas.annotations.info,io.swagger.v3.oas.annotations.media,io.swag
ger.v3.oas.annotations.parameters,io.swagger.v3.oas.annotations.respo
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ions.servers,io.swagger.v3.oas.annotations.tags";version="2.1.12",io.
swagger.v3.oas.annotations.callbacks;uses:="io.swagger.v3.oas.annotat
ions,io.swagger.v3.oas.annotations.extensions";version="2.1.12",io.sw
agger.v3.oas.annotations.enums;version="2.1.12",io.swagger.v3.oas.ann
otations.extensions;version="2.1.12",io.swagger.v3.oas.annotations.he
aders;uses:="io.swagger.v3.oas.annotations.media";version="2.1.12",io
.swagger.v3.oas.annotations.info;uses:="io.swagger.v3.oas.annotations
.extensions";version="2.1.12",io.swagger.v3.oas.annotations.links;use
s:="io.swagger.v3.oas.annotations.extensions,io.swagger.v3.oas.annota
tions.servers";version="2.1.12",io.swagger.v3.oas.annotations.media;u
ses:="io.swagger.v3.oas.annotations,io.swagger.v3.oas.annotations.ext
ensions,io.swagger.v3.oas.annotations.headers";version="2.1.12",io.sw
agger.v3.oas.annotations.parameters;uses:="io.swagger.v3.oas.annotati
ons.extensions,io.swagger.v3.oas.annotations.media";version="2.1.12",
io.swagger.v3.oas.annotations.responses;uses:="io.swagger.v3.oas.anno
tations.extensions,io.swagger.v3.oas.annotations.headers,io.swagger.v
3.oas.annotations.links,io.swagger.v3.oas.annotations.media";version=
"2.1.12",io.swagger.v3.oas.annotations.security;uses:="io.swagger.v3.
oas.annotations.enums,io.swagger.v3.oas.annotations.extensions";versi
on="2.1.12",io.swagger.v3.oas.annotations.servers;uses:="io.swagger.v
3.oas.annotations.extensions";version="2.1.12",io.swagger.v3.oas.anno
tations.tags;uses:="io.swagger.v3.oas.annotations,io.swagger.v3.oas.a
nnotations.extensions";version="2.1.12"
Bundle-Name: swagger-annotations
Bundle-Version: 2.1.12
Bundle-SCM: url="https://github.com/swagger-api/swagger-core/modules/s
wagger-annotations",connection="scm:git:git@github.com:swagger-api/sw
agger-core.git/modules/swagger-annotations",developer-connection="scm
:git:git@github.com:swagger-api/swagger-core.git/modules/swagger-anno
tations",tag=HEAD
Created-By: Apache Maven 3.8.4
Build-Jdk: 1.8.0_312

Found in path(s):

* /opt/cola/permits/1340031602_1654736977.0737062/0/swagger-annotations-2-1-12-jar/META-
INF/MANIFEST.MF

1.83 testcontainers-core 1.16.3

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1.84 slf4j-api-module 1.7.30

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1.86 jackson-bom 2.13.2

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* /opt/ws_local/PERMITS_SQL/1014221182_1593546679.56/0/slf4j-api-1-7-29-sources-jar/org/slf4j/helpers/SubstituteLoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1014221182_1593546679.56/0/slf4j-api-1-7-29-sources-jar/org/slf4j/helpers/NOPLogger.java
* /opt/ws_local/PERMITS_SQL/1014221182_1593546679.56/0/slf4j-api-1-7-29-sources-jar/org/slf4j/helpers/BasicMarkerFactory.java
* /opt/ws_local/PERMITS_SQL/1014221182_1593546679.56/0/slf4j-api-1-7-29-sources-

jar/org/slf4j/helpers/NOPMDCAdapter.java
* /opt/ws_local/PERMITS_SQL/1014221182_1593546679.56/0/slf4j-api-1-7-29-sources-
jar/org/slf4j/spi/MarkerFactoryBinder.java
* /opt/ws_local/PERMITS_SQL/1014221182_1593546679.56/0/slf4j-api-1-7-29-sources-
jar/org/slf4j/ILoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1014221182_1593546679.56/0/slf4j-api-1-7-29-sources-
jar/org/slf4j/helpers/NOPLoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1014221182_1593546679.56/0/slf4j-api-1-7-29-sources-
jar/org/slf4j/helpers/NamedLoggerBase.java
* /opt/ws_local/PERMITS_SQL/1014221182_1593546679.56/0/slf4j-api-1-7-29-sources-
jar/org/slf4j/spi/MDCAdapter.java
* /opt/ws_local/PERMITS_SQL/1014221182_1593546679.56/0/slf4j-api-1-7-29-sources-
jar/org/slf4j/MarkerFactory.java
* /opt/ws_local/PERMITS_SQL/1014221182_1593546679.56/0/slf4j-api-1-7-29-sources-
jar/org/slf4j/impl/StaticLoggerBinder.java
* /opt/ws_local/PERMITS_SQL/1014221182_1593546679.56/0/slf4j-api-1-7-29-sources-
jar/org/slf4j/helpers/MarkerIgnoringBase.java
* /opt/ws_local/PERMITS_SQL/1014221182_1593546679.56/0/slf4j-api-1-7-29-sources-jar/org/slf4j/Marker.java

1.88 antlr 2.7.7

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1.89 micronaut 3.4.1

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1.90 micronaut-rxjava-2 1.2.1

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2.17.1

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zip/org/intellij/lang/annotations/Subst.java
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1.95 apache-commons-collections 3.2.2

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jar/io/micronaut/data/event/EntityEventListener.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/operations/reactive/ReactorReactiveCapableRepository.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/event/PersistenceEventException.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/runtime/QueryParameterBinding.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/event/listeners/PostRemoveEventListener.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/predicate/ExpressionBinaryPredicate.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/selection/AliasedSelection.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/selection/AbstractNumericalPersistentPropertyExpression.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/QueryModelPersistentEntityCriteriaQuery.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/predicate/PredicateUnaryOp.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/query/builder/QueryParameterBinding.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/event/listeners/PrePersistEventListener.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/SelectionVisitable.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/repository/jpa/reactive/ReactiveStreamsJpaSpecificationExecutor.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/selection/AggregateType.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/predicate/AbstractPersistentPropertyPredicate.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/PredicateVisitor.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-

```
jar/io/micronaut/data/event/PersistenceEventContext.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/PersistentEntityCriteriaDelete.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/event/listeners/PreUpdateEventListener.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/repository/reactive/ReactorCrudRepository.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/query/QueryModelPredicateVisitor.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/predicate/NegatedPredicate.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/predicate/AbstractPredicate.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/PersistentAssociationPath.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/PersistentPropertyPath.java
```

1.97 micronaut-reactor 2.2.2

1.97.1 Available under license :

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*/
```

Found in path(s):

```
* /opt/cola/permits/1331473747_1653068512.6387424/0/micronaut-reactor-2-2-2-sources-
jar/io/micronaut/reactor/convert/ReactorConverterRegistrar.java
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```

```
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```

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- * limitations under the License.
- */

Found in path(s):

- * /opt/cola/permits/1331473747_1653068512.6387424/0/micronaut-reactor-2-2-2-sources-jar/io/micronaut/reactor/convert/ReactorToRxJava3ConverterRegistrar.java
- * /opt/cola/permits/1331473747_1653068512.6387424/0/micronaut-reactor-2-2-2-sources-jar/io/micronaut/reactor/convert/ReactorToRxJava2ConverterRegistrar.java

1.98 java-vault-driver 5.1.0

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Found in path(s):

- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/WritingBuffer.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/WritingBuffer_Test.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/PrettyPrint.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/PrettyPrint_Test.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/Json.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/Json_Test.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/WriterConfig.java

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Found in path(s):

- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/ParseException_Test.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/test/mocking/Mocking_Test.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/JsonObject.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/TestUtil.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-

master/src/test/java/com/bettercloud/vault/json/JsonWriter_Test.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/JsonString_Test.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/JsonValue.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/JsonParser.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/JsonWriter.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/ParseException.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/JsonObject_Test.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/JsonLiteral.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/JsonNumber.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/JsonArray.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/JsonNumber_Test.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/JsonParser_Test.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/JsonLiteral_Test.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/JsonValue_Test.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/JsonArray_Test.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/JsonString.java
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Vault Java Driver

=====

A zero-dependency Java client for the [Vault](<https://www.vaultproject.io/>) secrets management solution from HashiCorp.

This driver strives to implement Vault's full HTTP API, along with supporting functionality such as automatic retry handling. It does so without relying on any other external libraries beyond the Java standard library, and is compatible with Java 8 and up. So it will play nice with all of your projects, greenfield and legacy alike, without causing conflicts with any other dependency.

NOTE: Although the binary artifact produced by the project is backwards-compatible with Java 8, you do need JDK 9 or higher to modify or build the source code of this library itself.

This Change

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Installing the Driver

The driver is available from Maven Central, for all modern Java build systems.

Gradle:

```
dependencies {  
    implementation 'com.bettercloud:vault-java-driver:5.1.0'  
}
```

Maven:

```
<dependency>  
    <groupId>com.bettercloud</groupId>  
    <artifactId>vault-java-driver</artifactId>  
    <version>5.1.0</version>  
</dependency>
```

Initializing a Driver Instance

The `com.bettercloud.vault.VaultConfig` class is used to initialize a driver instance with desired settings. In the most basic use cases, where you are only supplying a Vault server address and perhaps a root token, there are convenience constructor methods available:

```
final VaultConfig config = new VaultConfig()  
    .address("http://127.0.0.1:8200")  
    .token("3c9fd6be-7bc2-9d1f-6fb3-cd746c0fc4e8")  
    .build();
```

```
// You may choose not to provide a root token initially, if you plan to use
// the Vault driver to retrieve one programmatically from an auth backend.
final VaultConfig config = new VaultConfig().address("http://127.0.0.1:8200").build();
...

```

To explicitly set additional config parameters (*), you can use a builder pattern style to construct the `VaultConfig` instance. Either way, the initialization process will try to populate any unset values by looking to environment variables.

```
...
final VaultConfig config =
    new VaultConfig()
        .address("http://127.0.0.1:8200") // Defaults to "VAULT_ADDR" environment variable
        .token("3c9fd6be-7bc2-9d1f-6fb3-cd746c0fc4e8") // Defaults to "VAULT_TOKEN" environment variable
        .openTimeout(5) // Defaults to "VAULT_OPEN_TIMEOUT" environment variable
        .readTimeout(30) // Defaults to "VAULT_READ_TIMEOUT" environment variable
        .sslConfig(new SslConfig().build()) // See "SSL Config" section below
        .build();
...

```

Once you have initialized a `VaultConfig` object, you can use it to construct an instance of the `Vault` primary driver class:

```
...
final Vault vault = new Vault(config);
...

```

Key Value Secret Engine Config

Shortly before its `1.0` release, Vault added a Version 2 of its [Key/Value Secrets Engine](<https://www.vaultproject.io/docs/secrets/kv/index.html>). This supports some addition features beyond the Version 1 that was the default in earlier Vault builds (e.g. secret rotation, soft deletes, etc).

Unfortunately, K/V V2 introduces some breaking changes, in terms of both request/response payloads as well as how URL's are constructed for Vault's REST API. Therefore, version `4.0.0` of this Vault Driver likewise had to introduce some breaking changes, to allow support for both K/V versions.

****If you are using the new K/V V2 across the board**, then no action is needed. The Vault Driver now assumes this by default.**

****If you are still using the old K/V V1 across the board**, then you can use the `Vault` class constructor: `public Vault(final VaultConfig vaultConfig, final Integer engineVersion)`, supplying a `1` as the engine version parameter. constructor, then you can declare whether to use Version 1 or 2 across the board.**

* **If you are using a mix, of some secret paths mounted with V1 and others mounted with V2**, then you have two options:

* You can explicitly specify your Vault secret paths, and which K/V version each one is using. Construct your ``Vault`` objects

with the constructor ``public Vault(final VaultConfig vaultConfig, final Boolean useSecretsEnginePathMap, final Integer globalFallbackVersion)``.

Within the ``VaultConfig`` object, supply a map of Vault secret paths to their associated K/V version (``1`` or ``2``).

* You can rely on the Vault Driver to auto-detect your mounts and K/V versions upon instantiation. Use the same constructor as above,

but leave the map ``null``. Note that this option requires your authentication credentials to have access to read Vault's ``/v1/sys/mounts`` path.

Version 2 of the K/V engine dynamically injects a qualifier element into your secret paths, which varies depending on the type of for read and write operations, in between the root version operation. For example, for read and write operations, the secret path:

```
```v1/mysecret```
```

... has a "data" qualifier injected:

```
```v1/data/mysecret```
```

The default behavior of this driver is to insert the appropriate qualifier one level deep (i.e. in between the root version number and the rest of the path). However, if your secret path is prefixed, such that the qualifier should be injected further down:

```
```v1/my/long/prefix/data/anything/else```
```

... then you should accordingly set the ``VaultConfig.prefixPathDepth`` property when constructing your ``Vault`` instance.

## SSL Config

-----

If your Vault server uses a SSL certificate, then you must supply that certificate to establish connections. Also, if you are using certificate-based client authentication, then you must supply a client certificate and private key that have been previously registered with your Vault server.

SSL configuration has been broken off from the ``VaultConfig`` class, and placed in its own ``SslConfig`` class. This class likewise using a builder pattern.

#### General Options

...

```
.verify(false) // Defaults to "VAULT_SSL_VERIFY" environment variable (or else "true")
...

```

To disable SSL certificate verification altogether, set `sslVerify(false)`. **YOU SHOULD NOT DO THIS IS A REAL**

**PRODUCTION SETTING!** However, it can be useful in a development or testing server context. If this value is explicitly set to `false`, then all other SSL config is basically unused.

#### #### Java Keystore (JKS) based config

You can provide the driver with a JKS truststore, containing Vault's server-side certificate for basic SSL, using one of the following three options:

`trustStore(object)` - Supply an in-memory `java.security.KeyStore` file, containing Vault server cert(s) that can be trusted.

`trustStoreFile(path)` - Same as the above, but the path references a JKS file on the filesystem.

`trustStoreResource(path)` - Same as the above, but the path references a classpath resource rather than a filesystem path (e.g. if you've bundled the JKS file into your application's JAR, WAR, or EAR file).

If you are only using basic SSL, then no keystore need be provided. However, if you would like to use Vault's TLS Certificate auth backend for client side auth, then you need to provide a JKS keystore containing your client-side certificate and private key:

`keyStore(object, password)` - Supply an in-memory `java.security.KeyStore` file containing a client certificate and private key, and the password needed to access it (can be null). can be trusted.

`keyStoreFile(path, password)` - Same as the above, but the path references a JKS file on the filesystem.

`keyStoreResource(path, password)` - Same as the above, but the path references a classpath resource rather than a filesystem path (e.g. if you've bundled the JKS file into your application's JAR, WAR, or EAR file).

NOTE: JKS-based config trumps PEM-based config (see below). If for some reason you build an `SslConfig` object

with both JKS and PEM data present, then only the JKS data will be used. You cannot "mix-and-match", providing a JKS-based truststore and PEM-based client auth data.

#### #### OpenSSL (PEM) based config

To supply Vault's server-side certificate for basic SSL, you can use one of the following three options:

`pemFile(path)` - Supply the path to an X.509 certificate in unencrypted PEM format, using UTF-8 encoding (defaults to "VAULT\_SSL\_CERT" environment variable).

``pemResource(path)`` - Same as above, but the path references a classpath resource rather than a filesystem path (e.g. if

you've bundled the PEM file into your applications's JAR, WAR, or EAR file).

``pemUTF8(contents)`` - The string contents extracted from the PEM file. For Java to parse the certificate properly, there must be a line-break in between the certificate header and body (see the ``SslConfig`` Javadocs for more detail).

If SSL verification is enabled, no JKS-based config is provided, AND none of these three methods are called, then ``SslConfig`` will by default check for a ``VAULT_SSL_CERT`` environment variable. If that's setw then it will be treated as a filesystem path.

To use Vault's TLS Certificate auth backend for SSL client auth, you must provide your client certificate and private key, using some pair from the following options:

``clientPemUTF8(path)`` - Supply the path to an X.509 certificate in unencrypted PEM format, using UTF-8 encoding.

``clientPemResource(path)`` - Same as above, but the path references a classpath resource rather than a filesystem path (e.g. if you've bundled the PEM file into your applications's JAR, WAR, or EAR file).

``clientPemUTF8(contents)`` - The string contents extracted from the PEM file. For Java to parse the certificate properly, there must be a line-break in between the certificate header and body (see the ``SslConfig`` Javadocs for more detail).

``clientKeyPemUTF8(path)`` - Supply the path to an RSA private key in unencrypted PEM format, using UTF-8 encoding.

``clientKeyPemResource(path)`` - Same as above, but the path references a classpath resource rather than a filesystem path (e.g. if you've bundled the PEM file into your applications's JAR, WAR, or EAR file).

``clientKeyPemUTF8(contents)`` - The string contents extracted from the PEM file. For Java to parse the certificate properly, there must be a line-break in between the certificate header and body (see the ``SslConfig`` Javadocs for more detail).

Using the Driver

-----

Like the ``VaultConfig`` class, ``Vault`` too supports a builder pattern DSL style:

...

```
final Map<String, String> secrets = new HashMap<String, String>();
secrets.put("value", "world");
secrets.put("other_value", "You can store multiple name/value pairs under a single key");
```

```
// Write operation
final LogicalResponse writeResponse = vault.logical()
 .write("secret/hello", secrets);
```

...

```
// Read operation
final String value = vault.logical()
 .read("secret/hello")
 .getData().get("value");
```

...

`Vault` has a number of methods for accessing the classes that implement the various endpoints of Vault's HTTP API:

- \* `logical()`: Contains core operations such as reading and writing secrets.
- \* `auth()`: Exposes methods for working with Vault's various auth backends (e.g. to programmatically retrieve a token by authenticating with a username and password).
- \* `pki()`: Operations on the PKI backend (e.g. create and delete roles, issue certificate credentials).
- \* `debug()`: Health check endpoints.

The driver DSL also allows you to specify retry logic, by chaining the `withRetries()` ahead of accessing the endpoint implementation:

...

```
// Retry up to 5 times if failures occur, waiting 1000 milliseconds in between each retry attempt.
final LogicalResponse response = vault.withRetries(5, 1000)
 .logical()
 .read("secret/hello");
```

...

API Reference (Javadocs)

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Full [Javadoc documentation](<http://bettercloud.github.io/vault-java-driver/javadoc/>).

Version History

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Note that changes to the major version (i.e. the first number) represent possible breaking changes, and may require modifications in your code to migrate. Changes to the minor version (i.e. the second number) should represent non-breaking changes. The third number represents any very minor bugfix patches.



\* \*\*5.1.0\*\*\*: This release contains the following updates:

- \* Supports path prefixes when using K/V engine V2. [(PR #189)](<https://github.com/BetterCloud/vault-java-driver/pull/189>)
- \* Fixes issues with bulk requests in the transit API. [(PR #195)](<https://github.com/BetterCloud/vault-java-driver/pull/195>)
- \* Adds response body to exception for Auth failures. [(PR #198)](<https://github.com/BetterCloud/vault-java-driver/pull/198>)
- \* Support all options for the createToken operation. [(PR #199)](<https://github.com/BetterCloud/vault-java-driver/pull/199>)

\* \*\*5.0.0\*\*\*: This release contains the following updates:

- \* Changes the retry behavior, to no longer attempt retries on 4xx response codes (for which retries generally won't succeed anyway). This is the only (mildly) breaking change in this release, necessitating a major version bump. [(PR #176)](<https://github.com/BetterCloud/vault-java-driver/pull/176>)
- \* Implements support for the Database secret engine. [(PR #175)](<https://github.com/BetterCloud/vault-java-driver/pull/175>)
- \* Makes the "x-vault-token" header optional, to allow use of Vault Agent. [(PR #184)](<https://github.com/BetterCloud/vault-java-driver/pull/184>)
- \* Removes stray uses of `System.out.println` in favor of `java.util.logging`. [(PR #178)](<https://github.com/BetterCloud/vault-java-driver/pull/178>)
- \* Adds the enum constant `MountType.KEY_VALUE_V2`. [(PR #182)](<https://github.com/BetterCloud/vault-java-driver/pull/182>)

\* \*\*4.1.0\*\*\*: This release contains the following updates:

- \* Support for JWT authentication, for use by Kubernetes and other JWT-based authentication providers. [(PR #164)](<https://github.com/BetterCloud/vault-java-driver/pull/164>)
- \* Updates the lease revoke method, to support changes in the underlying Vault API. [(PR #163)](<https://github.com/BetterCloud/vault-java-driver/pull/163>)
- \* Changes the `VaultConfig.secretsEnginePathMap(...)` method from default access level to `public`, to allow for manual setting [(PR #164)](<https://github.com/BetterCloud/vault-java-driver/pull/156>)
- \* Adds the nonce value to `AuthResponse`, to facilitate re-authentication with Vault via AWS. [(PR #168)](<https://github.com/BetterCloud/vault-java-driver/pull/168>)
- \* Establishes a `module-info` file, updates the JDK requirement for building this library to Java 9 (although the built library artifact remains compatible as a dependency in Java 8 projects). [(PR #165)](<https://github.com/BetterCloud/vault-java-driver/pull/165>)
- \* Updates Gradle, and various test dependencies to their latest versions. Integration tests now target Vault 1.1.3.

\* \*\*4.0.0\*\*\*: This is a breaking-change release, with two primary updates:

- \* Adds support for Version 2 of the Key/Value Secrets Engine. The driver now assumes that your Vault instance uses Version 2 of the Key/Value Secrets Engine across the board. To configure this, see the [Key/Value Secret Engine Config](#key-value-secret-engine-config) section above.
- \* Adds support for the namespaces feature of Vault Enterprise.

- \* **3.1.0**: Several updates.
  - \* Adds support for seal-related operations (i.e. `/sys/seal`, `/sys/unseal`, `/sys/seal-status`).
  - \* Adds support for the AWS auth backend.
  - \* Adds support for the Google Cloud Platform auth backend.
  - \* Adds support for the LDAP auth Backend.
  - \* Allows auth backend methods to be configured for non-default mount points.
  - \* Adds "revoke-self" capability for auth tokens.
  - \* Adds support for response-wrapping token validation
  - \* Support for signing a new certificate based on a CSR (i.e. the `/v1/pki/sign` endpoint).
  - \* Support for the PKI backend revoke method, and addition of a `useCsrSans` property in PKI role object
  - \* Gives `VaultConfig` the ability to disable loading from environment variables if desired.
  - \* Cleans up issues with the new Docker-based integration test suite.
  - \* Updates all dependencies to their latest versions (including switching to Vault 0.9.1 for integration testing).
  
- \* **3.0.0**: This is a breaking-change release, with several updates.
  - \* **API changes**:
    - \* Adds support for writing arbitrary objects to Vault, instead of just strings (i.e. the `com.bettercloud.vault.api.Logical.write(...)` method now accepts a `Map<String, Object>` rather than a `Map<String, String>`).
    - \* Refactors the `VaultConfig` class, forcing use of the builder pattern and breaking off SSL-related config into a separate `SslConfig` class.
    - \* Refactors the `Auth.createToken()` method, to encapsulate the possible options within a config object rather than having the method signature contain 8 optional arguments.
  - \* **SSL and Auth Backend support**:
    - \* Adds support for authenticating with the TLS Certificate auth backend.
    - \* Updates SSL support in general, allowing users to configure the driver with Java-friendly JKS keystore and truststore files (in addition to continuing to support Vault-friendly PEM format).
    - \* Implements the `/v1/auth/token/lookup-self` endpoint.
    - \* Supports creating tokens against a role.
  - \* **Major re-vamp of the integration test suite**:
    - \* The tests now use the [TestContainers](https://www.testcontainers.org/) library to setup and launch a Vault server instance from within a Docker container, in a completely automated manner. You no longer have to manually configure and run a Vault server to use the test suite!
    - \* The tests are now going against a regular Vault server, rather than one running in "dev mode". Therefore, they are now able to use HTTPS connections rather than plain HTTP.
    - \* Upgrades tests to use Java 8 (although the library itself still targets Java 7).
  - \* **Misc / quality-of-life**:
    - \* Includes the REST response body in `VaultException` messages for basic read and write operations.
    - \* Makes numerous classes implement `Serializable`.
    - \* Upgrades the project to Gradle 4.0.
  
- \* **2.0.0**: This is breaking-change release, with numerous deprecated items cleaned up.
  - \* Adds support for authentication via the AppRole auth backend.
  - \* Adds support for renewing secret leases.
  - \* Removes the `com.bettercloud.vault.api.Sys` class, deprecated in the 1.2.0 release.
  - \* Removes the `com.bettercloud.vault.api.Auth.loginByUsernamePassword` method, deprecated in the 1.2.0 release.

- \* Removes the fields `leaseId`, `leaseDuration`, and `renewable` from the `VaultResponse` base class, instead including them only in the subclasses for specific response types where they are found.
  - \* Changes the `com.bettercloud.vault.response.AuthResponse` class field `authLeaseDuration` from type `int` to `long`.
  - \* Refactors and removes various deprecated `private` methods, with no change to the exposed API.
- \* \*\*1.2.0\*\*\*: This is a substantial release, with numerous additions. It's a minor version number only because there should be no breaking changes. The changes include the following:
- \* Switches from Vault 0.5.x to 0.6.x for automated tests.
  - \* Adds a field to `VaultException` for capturing the HTTP response code (if any) from Vault.
  - \* Updates the Gradle build, so that you no longer need empty placeholder values for certain variables elsewhere in your environment.
  - \* Updates integration test suite to account for breaking changes in Vault 0.6.x (e.g. you can no longer use a token that was obtained from one of the authentication backends to perform tasks such as creating and deleting roles, etc).
  - \* Deprecates the App ID authentication backend, and adds a new version of the Userpass authentication backend that doesn't require a path prefix. Adds support for the GitHub authentication backend.
  - \* If the `VAULT_TOKEN` environment parameter is not set, then the driver will now check for a file named `.vault-token` in the executing user's home directory, and try to read a token value from that.
  - \* Deprecates the `com.bettercloud.vault.api.Sys` class, moving the debug-related methods into their own specific `com.bettercloud.vault.api.Debug` class instead.
  - \* Implements some of the lease related endpoints (i.e. `revoke`, `revoke-prefix`, `revoke-force`).
  - \* Supports PKI backends that are mounted on non-default paths.
- \* \*\*1.1.1\*\*\*: Changes the `ttl` argument to `Pki.issue()` from `Integer` to `String`, to fix a bug preventing you from specifying the time suffix (e.g. "1h").
- \* \*\*1.1.0\*\*\*: Switches from Vault 0.4.x to 0.5.x for automated tests. Adds support to the Logical API wrapper for listing and deleting secrets. Implements the `/v1/sys/health` health-check HTTP API endpoint. Implements portions of the PKI backend (e.g. creating and deleting roles, issuing credentials). Marks numerous methods as deprecated, to be removed in a future major release.
- \* \*\*1.0.0\*\*\*: Drops support for Java 6. Removes all methods marked as `@Deprecated` in version 0.5.0. Adds support for response metadata (i.e. `lease_id`, `renewable`, `lease_duration`) to all response types, rather than just `AuthResponse`. Changes `leaseDuration` type from `int` to `Long` in `AuthResponse`. Removes `final` declarations on all classes (outside of the JSON package). Various bugfixes. Adds support for auth token self-renewal. Adds support for writing values that return content.
- \* \*\*0.5.0\*\*\*: Adds support for supplying SSL certificates, and for toggling whether or not the Vault server's SSL certificate will be verified. Also adds support for `openTimeout` and `readTimeout` settings. Deprecates the `timeout`, `sslTimeout`, `proxyAddress`, `proxyPort`, `proxyUsername`, and `proxyPassword` settings (the proxy settings may return in a future version, but it's too misleading to have methods exposed for settings that won't really be supported soon).
- \* \*\*0.3.0\*\*\*: Initial public release. Support for writing and reading secrets, authenticating with the "AppID" or "Username & Password" auth backends. All over-the-wire methods support automatic retry logic.

Development

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Pull requests are welcomed for bugfixes or enhancements that do not alter the external facing class and method signatures. For any breaking changes that would alter the contract provided by this driver, please open up an issue to discuss it first.

All code changes should include unit test and/or integration test coverage as appropriate. Unit tests are any that can be run in isolation, with no external dependencies. Integration tests are those which require a Vault server instance (at least a Dev Server) up and running.

Unit tests are located under the ``src/test`` directory, and can be run with the Gradle ``unitTest`` task.

Integration tests are located under the ``src/test-integration`` directory, and can be run with the Gradle ``integrationTest`` task. See the additional ``README.md`` file in this directory for more detailed information.

Although this library now includes a ``module-info`` class for use by Java 9+, the library currently targets Java 8 compatibility. Please do not attempt to introduce any features or syntax not compatible with Java 8 (the Gradle build script should prevent you from doing so without modification).

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#### Other Notes

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The Vault server system itself is a product of HashiCorp, a completely separate organization.

This client driver adapts JSON parsing code from Ralf Sternberg's excellent [minimal-json](<https://github.com/ralfstx/minimal-json>) library, likewise available under the MIT License. Package names have all been changed, to prevent any conflicts should you happen to be using a different version of that library elsewhere in your project dependencies.

Found in path(s):

```
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/README.md
```

No license file was found, but licenses were detected in source scan.

```
/**
```

```
* <p>Intended for internal use by other classes within the Vault driver library.</p>
```

```
*
```

```
* <p>JSON parsing functionality. The classes in this package are adapted from Ralf Sternberg's excellent
```

```
* "minimal-json" library, available under the MIT License.
```

```
* The package names have all been changed, to prevent any conflicts should you happen to be using a different
```

```
* version of this library elsewhere in your project dependencies.</p>
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/package-info.java
```

## 1.99 micronaut-sql-libraries 4.2.2

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Found in path(s):

```
* /opt/cola/permits/1331473530_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/META-INF/native-image/io.micronaut.sql/micronaut-jdbc/native-image.properties
```

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/*
```

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```

```
*
```

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Found in path(s):

\* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/JdbcDatabaseManager.java  
\* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/BasicJdbcConfiguration.java  
\* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/metadata/DataSourcePoolMetadataProvider.java  
\* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/spring/SpringDataSourceResolver.java  
\* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/spring/package-info.java  
\* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/DataSourceResolver.java  
\* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/spring/HibernatePresenceCondition.java  
\* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/metadata/AbstractDataSourcePoolMetadata.java  
\* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/spring/DataSourceTransactionManagerFactory.java  
\* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/metadata/package-info.java  
\* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/CalculatedSettings.java  
\* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/package-info.java  
\* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/metadata/DataSourcePoolMetadata.java  
\* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/nativeimage/JdbcFeature.java

## 1.100 jqwik-web 1.6.1

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## 1.101 testcontainers-bom 1.16.3

## 1.101.1 Available under license :

Note that publicsuffices.gz is compiled from The Public Suffix List:  
[https://publicsuffix.org/list/public\\_suffix\\_list.dat](https://publicsuffix.org/list/public_suffix_list.dat)

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# 1.102 io.grpc:grpc-bom 1.39.0

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## 1.104 opentracing-noop 0.33.0

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\* /opt/cola/permits/1340188505\_1654650482.1626384/0/opentracing-noop-0-33-0-sources-2-jar/META-INF/maven/io.opentracing/opentracing-noop/pom.xml

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 \*/

Found in path(s):

- \* /opt/cola/permits/1340188505\_1654650482.1626384/0/opentracing-noop-0-33-0-sources-2-jar/io/opentracing/noop/NoopSpan.java
- \* /opt/cola/permits/1340188505\_1654650482.1626384/0/opentracing-noop-0-33-0-sources-2-jar/io/opentracing/noop/NoopSpanContext.java
- \* /opt/cola/permits/1340188505\_1654650482.1626384/0/opentracing-noop-0-33-0-sources-2-jar/io/opentracing/noop/NoopTracerFactory.java
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- \* /opt/cola/permits/1340188505\_1654650482.1626384/0/opentracing-noop-0-33-0-sources-2-jar/io/opentracing/noop/NoopScopeManager.java
- \* /opt/cola/permits/1340188505\_1654650482.1626384/0/opentracing-noop-0-33-0-sources-2-jar/io/opentracing/noop/NoopSpanBuilder.java

# 1.105 spock-framework---bill-of-materials 2.0-groovy-3.0

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Found in path(s):

```
* /opt/cola/permits/1331473523_1653068661.0567706/0/docker-java-api-3-2-12-sources-
jar/com/github/dockerjava/api/model/HealthCheck.java
```

## 1.107 system-stubs-jupiter 2.0.1

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## 1.108 junit-5-bill-of-materials 5.8.2

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```
import java.io.File
import java.net.URI
```

```
data class License(val name: String, val url: URI, val headerFile: File)
```

```
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```

```
=====
```

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Version 2.0, January 2004
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# 1.109 testcontainers-bom 1.16.2

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neo4j:3.5.0-enterprise

a

b

mcr.microsoft.com/mssql/server:2017-CU12

## 1.110 mockito-junit-jupiter 4.3.1

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## 1.111 json-java 20210307

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## 1.112 asm-commons 9.1

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Manifest-Version: 1.0

Bundle-DocURL: <http://asm.ow2.org>

Bundle-License: BSD-3-Clause;link=<https://asm.ow2.io/LICENSE.txt>

Bundle-ManifestVersion: 2

Bundle-Name: org.objectweb.asm.commons

Bundle-RequiredExecutionEnvironment: J2SE-1.5

Bundle-SymbolicName: org.objectweb.asm.commons

Bundle-Version: 9.1.0

Export-Package: org.objectweb.asm.commons;version="9.1";uses:="org.obj

ectweb.asm,org.objectweb.asm.signature,org.objectweb.asm.tree"  
Implementation-Title: Usefull class adapters based on ASM, a very smal  
l and fast Java bytecode manipulation framework  
Implementation-Version: 9.1  
Import-Package: org.objectweb.asm;version="[9.1,10)",org.objectweb.asm  
.signature;version="[9.1,10)",org.objectweb.asm.tree;version="[9.1,10  
)"  
Module-Requires: org.objectweb.asm;transitive=true,org.objectweb.asm.t  
ree;transitive=true,org.objectweb.asm.tree.analysis;transitive=true

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\* /opt/cola/permits/1183889887\_1627494130.56/0/asm-commons-9-1-jar/META-INF/MANIFEST.MF

## 1.113 swagger-models 2.1.12

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\* /opt/cola/permits/1340076417\_1654622411.2881706/0/swagger-models-2-1-12-sources-1-jar/io/swagger/v3/oas/models/security/SecurityScheme.java  
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\* /opt/cola/permits/1340076417\_1654622411.2881706/0/swagger-models-2-1-12-sources-1-jar/io/swagger/v3/oas/models/media/MediaType.java

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\* /opt/cola/permits/1340076417\_1654622411.2881706/0/swagger-models-2-1-12-sources-1-jar/io/swagger/v3/oas/models/ExternalDocumentation.java

\* /opt/cola/permits/1340076417\_1654622411.2881706/0/swagger-models-2-1-12-sources-1-jar/io/swagger/v3/oas/models/media/EmailSchema.java

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\* /opt/cola/permits/1340076417\_1654622411.2881706/0/swagger-models-2-1-12-sources-1-jar/io/swagger/v3/oas/models/media/StringSchema.java

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\* /opt/cola/permits/1340076417\_1654622411.2881706/0/swagger-models-2-1-12-sources-1-jar/io/swagger/v3/oas/models/servers/Server.java

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\* /opt/cola/permits/1340076417\_1654622411.2881706/0/swagger-models-2-1-12-sources-1-jar/io/swagger/v3/oas/models/media/ComposedSchema.java

# 1.114 opentest4j-opentest4j 1.2.0

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- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/interceptor/TraceInterceptor.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/http/HttpHeadersTextMap.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/util/TracingPublisher.java
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- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/util/TracingPublisherUtils.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/annotation/SpanTag.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/util/package-info.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/http/TracingExclusionsConfiguration.java
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- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/package-info.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/util/TracingObserver.java
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- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/util/MdcInstrumenter.java
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- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/http/TraceRequestAttributes.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/http/AbstractOpenTracingFilter.java
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* /opt/cola/permits/1331473843_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-
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INF/native-image/io.micronaut.tracing/tracing-core/native-image.properties
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This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this

Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

# 1.120 micronaut-problem-json 2.2.2

## 1.120.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2017-2021 original authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1331473572_1653068678.1544204/0/micronaut-problem-json-2-2-2-sources-
jar/io/micronaut/problem/conf/ProblemConfigurationProperties.java
* /opt/cola/permits/1331473572_1653068678.1544204/0/micronaut-problem-json-2-2-2-sources-
jar/io/micronaut/problem/ProblemErrorResponseProcessor.java
* /opt/cola/permits/1331473572_1653068678.1544204/0/micronaut-problem-json-2-2-2-sources-
jar/io/micronaut/problem/violations/Violation.java
* /opt/cola/permits/1331473572_1653068678.1544204/0/micronaut-problem-json-2-2-2-sources-
jar/io/micronaut/problem/HttpStatusType.java
* /opt/cola/permits/1331473572_1653068678.1544204/0/micronaut-problem-json-2-2-2-sources-
jar/io/micronaut/problem/conf/MixinThrowableProblem.java
* /opt/cola/permits/1331473572_1653068678.1544204/0/micronaut-problem-json-2-2-2-sources-
jar/io/micronaut/problem/conf/ProblemConfiguration.java
* /opt/cola/permits/1331473572_1653068678.1544204/0/micronaut-problem-json-2-2-2-sources-
jar/io/micronaut/problem/conf/ThrowableProblemObjectMapperBeanCreatedEventListener.java
* /opt/cola/permits/1331473572_1653068678.1544204/0/micronaut-problem-json-2-2-2-sources-
jar/io/micronaut/problem/serde/ProblemSerdeImport.java
* /opt/cola/permits/1331473572_1653068678.1544204/0/micronaut-problem-json-2-2-2-sources-
jar/io/micronaut/problem/violations/ConstraintViolationThrowableProblem.java
* /opt/cola/permits/1331473572_1653068678.1544204/0/micronaut-problem-json-2-2-2-sources-
jar/io/micronaut/problem/ThrowableProblemHandler.java
* /opt/cola/permits/1331473572_1653068678.1544204/0/micronaut-problem-json-2-2-2-sources-
```

jar/io/micronaut/problem/violations/ProblemConstraintViolationExceptionHandler.java

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2017-2020 original authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1331473572_1653068678.1544204/0/micronaut-problem-json-2-2-2-sources-
jar/io/micronaut/problem/conf/package-info.java
* /opt/cola/permits/1331473572_1653068678.1544204/0/micronaut-problem-json-2-2-2-sources-
jar/io/micronaut/problem/package-info.java
* /opt/cola/permits/1331473572_1653068678.1544204/0/micronaut-problem-json-2-2-2-sources-
jar/io/micronaut/problem/violations/package-info.java
```

## 1.121 checkstyle 8.44

### 1.121.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
////////////////////////////////////
// checkstyle: Checks Java source code for adherence to a set of rules.
// Copyright (C) 2001-2021 the original author or authors.
//
// This library is free software; you can redistribute it and/or
// modify it under the terms of the GNU Lesser General Public
// License as published by the Free Software Foundation; either
// version 2.1 of the License, or (at your option) any later version.
//
// This library is distributed in the hope that it will be useful,
// but WITHOUT ANY WARRANTY; without even the implied warranty of
// MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
// Lesser General Public License for more details.
//
// You should have received a copy of the GNU Lesser General Public
```

```
// License along with this library; if not, write to the Free Software
// Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
////////////////////////////////////
```

```
header {
package com.puppcrawl.tools.checkstyle.grammar;

import com.puppcrawl.tools.checkstyle.DetailAstImpl;
import java.text.MessageFormat;
import antlr.CommonHiddenStreamToken;
import antlr.TokenStreamSelector;
}
```

```
//-----
// The Java 14 Text Block scanner
//-----
class GeneratedTextBlockLexer extends Lexer;
```

```
options {
import Vocab=GeneratedJava; // Use tokens from java.g
k=2;
char Vocabulary='\u0000..\uFFFF';
filter=true;
}
```

```
{
public TokenStreamSelector selector;

// explicitly set tab width to 1 (default in ANTLR 2.7.1)
// in ANTLR 2.7.2a2 the default has changed from 1 to 8
public void tab()
{
setColumn(getColumn() + 1);
}
}
```

```
protected
NEWLINE
: (options {generateAmbigWarnings=false;}
: "\r\n" // Evil DOS
| '\r' // Macintosh
| '\n' // Unix (the right way)
)
{this.newline();}
;
```

```
TEXT_BLOCK_LITERAL_END
: "\""\"" {selector.pop();}
```

```

;

protected
TWO_DOUBLE_QUOTES
: """" (NEWLINE | ~"")
;

protected
ONE_DOUBLE_QUOTE
: "" (NEWLINE | ~"")
;

TEXT_BLOCK_CONTENT
: ((TWO_DOUBLE_QUOTES)=> TWO_DOUBLE_QUOTES
 | ONE_DOUBLE_QUOTE
 | NEWLINE
 | ~""
 | STD_ESC
)+
;

protected
STD_ESC
: '\\
 ('n'
 | 'r'
 | 's'
 | 't'
 | 'b'
 | 'f'
 | ""
 | \"
 | \\
)
;

```

Found in path(s):

```

* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppycrawl/tools/checkstyle/grammar/java14textblocks.g

```

No license file was found, but licenses were detected in source scan.

```

// This library is free software; you can redistribute it and/or
// modify it under the terms of the GNU Lesser General Public
// License as published by the Free Software Foundation; either
// version 2.1 of the License, or (at your option) any later version.
// This library is distributed in the hope that it will be useful,
// but WITHOUT ANY WARRANTY; without even the implied warranty of
// MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU

```

```

// Lesser General Public License for more details.
// You should have received a copy of the GNU Lesser General Public
/**
 * Represents a policy for the location of content starting from
 * the same line as { @code /** }.
 * Example:
 * <pre>
 * /** Summary text.
 * * More details.
 * * /
 * public void method();
 * </pre>
 * This style is also known as "scala" style.
 */
/**
 * Represents a policy for the location of content starting from
 * the next line after { @code /** }.
 * Example:
 * <pre>
 * /**
 * * Summary text.
 * * More details.
 * * /
 * public void method();
 * </pre>
 * This style is common to java projects.
 */

```

Found in path(s):

```

* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/checks/javadoc/JavadocContentLocationOption.java
No license file was found, but licenses were detected in source scan.

```

```

* More details.
* More details.

```

Found in path(s):

```

* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/meta/checks/javadoc/JavadocContentLocationCheck.xml
No license file was found, but licenses were detected in source scan.

```

```

// This library is free software; you can redistribute it and/or
// modify it under the terms of the GNU Lesser General Public
// License as published by the Free Software Foundation; either
// version 2.1 of the License, or (at your option) any later version.
// This library is distributed in the hope that it will be useful,
// but WITHOUT ANY WARRANTY; without even the implied warranty of
// MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU

```

```
// Lesser General Public License for more details.
// You should have received a copy of the GNU Lesser General Public
* This grammar is in the PUBLIC DOMAIN
```

Found in path(s):

```
* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/grammar/java.g
```

No license file was found, but licenses were detected in source scan.

```
// This library is free software; you can redistribute it and/or
// modify it under the terms of the GNU Lesser General Public
// License as published by the Free Software Foundation; either
// version 2.1 of the License, or (at your option) any later version.
// This library is distributed in the hope that it will be useful,
// but WITHOUT ANY WARRANTY; without even the implied warranty of
// MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
// Lesser General Public License for more details.
```

```
// You should have received a copy of the GNU Lesser General Public
/**
```

```
* <p>
```

```
* Checks that the Javadoc content begins from the same position
* for all Javadoc comments in the project. Any leading asterisks and spaces
* are not counted as the beginning of the content and are therefore ignored.
```

```
* </p>
```

```
* <p>
```

```
* It is possible to enforce two different styles:
```

```
* </p>
```

```
*
```

```
*
```

```
* { @code first_line } - Javadoc content starts from the first line:
```

```
* <pre>
```

```
* /** Summary text.
```

```
* * More details.
```

```
* * /
```

```
* public void method();
```

```
* </pre>
```

```
*
```

```
*
```

```
* { @code second_line } - Javadoc content starts from the second line:
```

```
* <pre>
```

```
* /**
```

```
* * Summary text.
```

```
* * More details.
```

```
* * /
```

```
* public void method();
```

```
* </pre>
```

```
*
```

```
*
```



\* <p>

\* This check does not validate the Javadoc summary itself nor its presence.

\* The check will not report any violations for missing or malformed javadoc summary.

\* To validate the Javadoc summary use

\* <a href="https://checkstyle.org/config\_javadoc.html#SummaryJavadoc">SummaryJavadoc</a> check.

\* </p>

\* <p>

\* The <a href="https://docs.oracle.com/en/java/javase/11/docs/specs/doc-comment-spec.html">Documentation Comment Specification</a> permits leading asterisks on the first line.

\* Documentation Comment Specification</a> permits leading asterisks on the first line.

\* For these Javadoc comments:

\* </p>

\* <pre>

\* &#47;\*\*\*

\* \* Some text.

\* \*&#47;

\* &#47;\*\*\*\*\*

\* \* Some text.

\* \*&#47;

\* &#47;\*\* \*\*

\* \* Some text.

\* \*&#47;

\* </pre>

\* <p>

\* The documentation generated will be just "Some text." without any asterisks.

\* Since these asterisks will not appear in the generated documentation,

\* they should not be considered as the beginning of the Javadoc content.

\* In such cases, the check assumes that the Javadoc content begins on the second line.

\* </p>

\* <ul>

\* <li>

\* Property { @code location } - Specify the policy on placement of the Javadoc content.

\* Type is { @code com.puppycrawl.tools.checkstyle.checks.javadoc.JavadocContentLocationOption }.

\* Default value is { @code second\_line }.

\* </li>

\* </ul>

\* <p>

\* To configure the default check to validate that the Javadoc content starts from the second line:

\* </p>

\* <pre>

\* &lt;module name="JavadocContentLocationCheck"/&gt;

\* </pre>

\* <p>

\* This setting produces a violation for each multi-line comment starting

\* on the same line as the initial asterisks:

\* </p>

\* <pre>

\* &#47;\*\* This comment causes a violation because it starts from the first line

\* \* and spans several lines.

```

* *#47;
* #47;**
* * This comment is OK because it starts from the second line.
* *#47;
* #47;** This comment is OK because it is on the single line. #47;
* </pre>
* <p>
* To ensure that Javadoc content starts from the first line:
* </p>
* <pre>
* <module name="JavadocContentLocationCheck">
* <property name="location" value="first_line"/>
* </module>
* </pre>
* <p>
* This setting produces a violation for each comment not
* starting on the same line as the initial asterisks:
* </p>
* <pre>
* #47;** This comment is OK because it starts on the first line.
* * There may be additional text.
* *#47;
* #47;**
* * This comment causes a violation because it starts on the second line.
* *#47;
* #47;** This single-line comment also is OK. #47;
* </pre>
* <p>
* Parent is { @code com.puppcrawl.tools.checkstyle.TreeWalker }
* </p>
* <p>
* Violation Message Keys:
* </p>
*
*
* { @code javadoc.content.first.line }
*
*
* { @code javadoc.content.second.line }
*
*
*
* @since 8.27
*/

```

Found in path(s):

```

* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/checks/javadoc/JavadocContentLocationCheck.java

```

No license file was found, but licenses were detected in source scan.

```
// This library is free software; you can redistribute it and/or
// modify it under the terms of the GNU Lesser General Public
// License as published by the Free Software Foundation; either
// version 2.1 of the License, or (at your option) any later version.
// This library is distributed in the hope that it will be useful,
// but WITHOUT ANY WARRANTY; without even the implied warranty of
// MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
// Lesser General Public License for more details.
// You should have received a copy of the GNU Lesser General Public
/**
 * <p>
 * Checks that a source file begins with a specified header.
 * Property { @code headerFile } specifies a file that contains the required header.
 * Alternatively, the header specification can be set directly in the
 * { @code header } property without the need for an external file.
 * </p>
 * <p>
 * Property { @code ignoreLines } specifies the line numbers to ignore when matching
 * lines in a header file. This property is very useful for supporting headers
 * that contain copyright dates. For example, consider the following header:
 * </p>
 * <pre>
 * line 1: ///
 * line 2: // checkstyle:
 * line 3: // Checks Java source code for adherence to a set of rules.
 * line 4: // Copyright (C) 2002 Oliver Burn
 * line 5: ///
 * </pre>
 * <p>
 * Since the year information will change over time, you can tell Checkstyle
 * to ignore line 4 by setting property { @code ignoreLines } to { @code 4}.
 * </p>
 * <p>
 * In default configuration, if header is not specified, the default value
 * of header is set to { @code null } and the check does not rise any violations.
 * </p>
 *
 *
 * Property { @code headerFile } - Specify the name of the file containing the required header.
 * Type is { @code java.net.URI }.
 * Default value is { @code null }.
 *
 *
 * Property { @code charset } - Specify the character encoding to use when reading the headerFile.
 * Type is { @code java.lang.String }.
 * Default value is { @code the charset property of the parent
```

```

* Checker module}.
*
*
* Property { @code header} - Specify the required header specified inline.
* Individual header lines must be separated by the string { @code "\n"}
* (even on platforms with a different line separator), see examples below.
* Type is { @code java.lang.String}.
* Default value is { @code null}.
*
*
* Property { @code ignoreLines} - Specify the line numbers to ignore.
* Type is { @code int[]}.
* Default value is { @code ""}.
*
*
* Property { @code fileExtensions} - Specify the file type extension of files to process.
* Type is { @code java.lang.String[]}.
* Default value is { @code ""}.
*
*
* <p>
* To configure the check such that no violations arise.
* Default values of properties are used.
* </p>
* <pre>
* <module name="Header"/>
* </pre>
* <p>
* To configure the check to use header file { @code "config/java.header"}
* and ignore lines { @code 2}, { @code 3}, and { @code 4} and only process Java files:
* </p>
* <pre>
* <module name="Header">
* <property name="headerFile" value="config/java.header"/>
* <property name="ignoreLines" value="2, 3, 4"/>
* <property name="fileExtensions" value="java"/>
* </module>
* </pre>
* <p>
* To configure the check to verify that each file starts with the header
* </p>
* <pre>
* // Copyright (C) 2004 MyCompany
* // All rights reserved
* </pre>
* <p>
* without the need for an external header file:
* </p>

```

```

* <pre>
* <module name="Header">
* <property name="header"
* value="// Copyright (C) 2004 MyCompany\n// All rights reserved"/>
* </module>
* </pre>
* <p>
* Parent is { @code com.puppcrawl.tools.checkstyle.Checker}
* </p>
* <p>
* Violation Message Keys:
* </p>
*
*
* { @code header.mismatch}
*
*
* { @code header.missing}
*
*
*
* @since 6.9
*/

```

Found in path(s):

```

* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/checks/header/HeaderCheck.java
No license file was found, but licenses were detected in source scan.

```

header specification (note that this is not the full Apache license header):

```

line 5: ^\W*Licensed under the Apache License, Version 2\.\0 \((the "License")\);$

```

Found in path(s):

```

* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/meta/checks/header/RegexpHeaderCheck.xml
No license file was found, but licenses were detected in source scan.

```

```

// This library is free software; you can redistribute it and/or
// modify it under the terms of the GNU Lesser General Public
// License as published by the Free Software Foundation; either
// version 2.1 of the License, or (at your option) any later version.
// This library is distributed in the hope that it will be useful,
// but WITHOUT ANY WARRANTY; without even the implied warranty of
// MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
// Lesser General Public License for more details.
// You should have received a copy of the GNU Lesser General Public
/**
* <p>

```

\* Filter { @code SuppressionXPathFilter } works as

\* [SuppressionFilter](https://checkstyle.org/config_filters.html#SuppressionFilter).

\* Additionally, filter processes { @code suppress-xpath } elements,

\* which contains xpath-expressions. Xpath-expressions are queries for

\* suppressed nodes inside the AST tree.

</p>

<p>

\* Currently, filter does not support the following checks:

</p>

<ul id="SuppressionXPathFilter\_IncompatibleChecks">

<li>

\* NoCodeInFile (reason is that AST is not generated for a file not containing code)

</li>

<li>

\* Regexp (reason is at [#7759](https://github.com/checkstyle/checkstyle/issues/7759#issuecomment-605525287))

</li>

<li>

\* RegexpSinglelineJava (reason is at [#7759](https://github.com/checkstyle/checkstyle/issues/7759#issuecomment-605525287))

</li>

</ul>

<p>

\* Also, the filter does not support suppressions inside javadoc reported by Javadoc checks:

</p>

<ul id="SuppressionXPathFilter\_JavadocChecks">

<li>

\* AtclauseOrder

</li>

<li>

\* JavadocBlockTagLocation

</li>

<li>

\* JavadocMethod

</li>

<li>

\* JavadocMissingLeadingAsterisk

</li>

<li>

\* JavadocMissingWhitespaceAfterAsterisk

</li>

<li>

\* JavadocParagraph

</li>

<li>

\* JavadocStyle

</li>

<li>

- \* JavadocTagContinuationIndentation
- \* </li>
- \* <li>
- \* JavadocType
- \* </li>
- \* <li>
- \* MissingDeprecated
- \* </li>
- \* <li>
- \* NonEmptyAtclauseDescription
- \* </li>
- \* <li>
- \* RequireEmptyLineBeforeBlockTagGroup
- \* </li>
- \* <li>
- \* SingleLineJavadoc
- \* </li>
- \* <li>
- \* SummaryJavadoc
- \* </li>
- \* <li>
- \* WriteTag
- \* </li>
- \* </ul>
- \* <p>
- \* Note, that support for these Checks will be available after resolving issue
- \* <a href="https://github.com/checkstyle/checkstyle/issues/5770">#5770</a>.
- \* </p>
- \* <p>
- \* Currently, filter supports the following xpath axes:
- \* </p>
- \* <ul>
- \* <li>
- \* ancestor
- \* </li>
- \* <li>
- \* ancestor-or-self
- \* </li>
- \* <li>
- \* attribute
- \* </li>
- \* <li>
- \* child
- \* </li>
- \* <li>
- \* descendant
- \* </li>
- \* <li>

- \* descendant-or-self
- \* </li>
- \* <li>
- \* following
- \* </li>
- \* <li>
- \* following-sibling
- \* </li>
- \* <li>
- \* parent
- \* </li>
- \* <li>
- \* preceding
- \* </li>
- \* <li>
- \* preceding-sibling
- \* </li>
- \* <li>
- \* self
- \* </li>
- \* </ul>
- \* <p>
- \* You can use the command line helper tool to generate xpath suppressions based on your
- \* configuration file and input files. See <a href="https://checkstyle.org/cmdline.html">here</a>
- \* for more details.
- \* </p>
- \* <p>
- \* The suppression file location is checked in following order:
- \* </p>
- \* <ol>
- \* <li>
- \* as a filesystem location
- \* </li>
- \* <li>
- \* if no file found, and the location starts with either { @code http:// } or { @code https:// },
- \* then it is interpreted as a URL
- \* </li>
- \* <li>
- \* if no file found, then passed to the { @code ClassLoader.getResource() } method.
- \* </li>
- \* </ol>
- \* <p>
- \* SuppressionXpathFilter can suppress Checks that have Treewalker as parent module.
- \* </p>
- \* <ul>
- \* <li>
- \* Property { @code file } - Specify the location of the <em>suppressions XML document</em> file.
- \* Type is { @code java.lang.String }.



- \* Default value is { @code null }.
- \* </li>
- \* <li>
- \* Property { @code optional } - Control what to do when the file is not existing.
- \* If optional is set to false the file must exist, or else it ends with error.
- \* On the other hand if optional is true and file is not found, the filter accepts all audit events.
- \* Type is { @code boolean }.
- \* Default value is { @code false }.
- \* </li>
- \* </ul>
- \* <p>
- \* For example, the following configuration fragment directs the Checker to use a
- \* { @code SuppressionXPathFilter } with suppressions file { @code config/suppressions.xml }:
- \* </p>
- \* <pre>
- \* &lt;module name=&quot;SuppressionXPathFilter&quot;&gt;
- \* &lt;property name=&quot;file&quot; value=&quot;config/suppressions.xml&quot;/&gt;
- \* &lt;property name=&quot;optional&quot; value=&quot;false&quot;/&gt;
- \* &lt;/module&gt;
- \* </pre>
- \* <p>
- \* A <a href="https://checkstyle.org/dtds/suppressions\_1\_2\_xpath\_experimental.dtd"><em>
- \* suppressions XML document</em></a>
- \* contains a set of { @code suppress } and { @code suppress-xpath } elements,
- \* where each { @code suppress-xpath } element can have the following attributes:
- \* </p>
- \* <ul>
- \* <li>
- \* { @code files } - a <a href="https://checkstyle.org/property\_types.html#Pattern">Pattern</a>
- \* matched against the file name associated with an audit event. It is optional.
- \* </li>
- \* <li>
- \* { @code checks } - a <a href="https://checkstyle.org/property\_types.html#Pattern">Pattern</a>
- \* matched against the name of the check associated with an audit event.
- \* Optional as long as { @code id } or { @code message } is specified.
- \* </li>
- \* <li>
- \* { @code message } - a <a href="https://checkstyle.org/property\_types.html#Pattern">Pattern</a>
- \* matched against the message of the check associated with an audit event.
- \* Optional as long as { @code checks } or { @code id } is specified.
- \* </li>
- \* <li>
- \* { @code id } - a <a href="https://checkstyle.org/property\_types.html#String">String</a> matched against
- \* the ID of the check associated with an audit event.
- \* Optional as long as { @code checks } or { @code message } is specified.
- \* </li>
- \* <li>
- \* { @code query } - a <a href="https://checkstyle.org/property\_types.html#String">String</a> xpath query. It is

optional.

\* </li>

\* </ul>

\* <p>

\* Each audit event is checked against each { @code suppress } and { @code suppress-xpath } element.

\* It is suppressed if all specified attributes match against the audit event.

\* </p>

\* <p>

\* ATTENTION: filtering by message is dependant on runtime locale.

\* If project is running in different languages it is better to avoid filtering by message.

\* </p>

\* <p>

\* The following suppressions XML document directs a { @code SuppressionXPathFilter } to reject

\* { @code CyclomaticComplexity } violations for all methods with name <i>sayHelloWorld</i> inside

\* <i>FileOne</i> and <i>FileTwo</i> files:

\* </p>

\* <p>

\* Currently, xpath queries support one type of attribute { @code @text }. { @code @text } -

\* addresses to the text value of the node. For example: variable name, annotation name,

\* text content and etc. Only the following token types support { @code @text } attribute:

\* { @code TokenTypes.IDENT }, { @code TokenTypes.STRING\_LITERAL }, { @code  
TokenTypes.CHAR\_LITERAL },

\* { @code TokenTypes.NUM\_LONG }, { @code TokenTypes.NUM\_INT }, { @code  
TokenTypes.NUM\_DOUBLE },

\* { @code TokenTypes.NUM\_FLOAT }.

\* These token types were selected because only their text values are different

\* in content from token type and represent text value from file and can be used

\* in xpath queries for more accurate results. Other token types always have constant values.

\* </p>

\* <pre>

\* &lt;?xml version="1.0" ?>

\*

\* &lt;!DOCTYPE suppressions PUBLIC

\* &quot;-//Checkstyle//DTD SuppressionXPathFilter Experimental Configuration 1.2//EN&quot;

\* &quot;https://checkstyle.org/dtds/suppressions\_1\_2\_xpath\_experimental.dtd&quot;&gt;

\*

\* &lt;suppressions&gt;

\* &lt;suppress-xpath checks="CyclomaticComplexity"

\* files="FileOne.java,FileTwo.java"

\* query="//METHOD\_DEF[/IDENT[@text='sayHelloWorld']]"&gt;

\* &lt;/suppressions&gt;

\* </pre>

\* <p>

\* Suppress checks for package definitions:

\* </p>

\* <pre>

\* &lt;suppress-xpath checks="\*" query="/PACKAGE\_DEF"/&gt;

\* </pre>

```

* <p>
* Suppress checks for parent element of the first variable definition:
* </p>
* <pre>
* <suppress-xpath checks=".*" query="//VARIABLE_DEF[1]/.."/>
* </pre>
* <p>
* Suppress checks for elements which are either class definitions, either method definitions.
* </p>
* <pre>
* <suppress-xpath checks=".*" query="//CLASS_DEF | //METHOD_DEF"/>
* </pre>
* <p>
* Suppress checks for certain methods:
* </p>
* <pre>
* <suppress-xpath checks="*" query="//METHOD_DEF[./IDENT[@text='getSomeVar'
* or @text='setSomeVar']]>
* </pre>
* <p>
* Suppress checks for variable <i>testVariable</i> inside <i>testMethod</i>
* method inside <i>TestClass</i> class.
* </p>
* <pre>
* <suppress-xpath checks="*" query="//CLASS_DEF[@text='TestClass']
* //METHOD_DEF[./IDENT[@text='testMethod']]
* //VARIABLE_DEF[./IDENT[@text='testVariable']]>
* </pre>
* <p>
* In the following sample, violations for { @code LeftCurly } check will be suppressed
* for classes with name <i>Main</i> or for methods with name <i>calculate</i>.
* </p>
* <pre>
* <suppress-xpath checks="LeftCurly" query="//CLASS_DEF[./IDENT[@text='Main']]/*
* | //METHOD_DEF[./IDENT[@text='calculate']]/*>
* </pre>
* <p>
* The following example demonstrates how to suppress { @code RequireThis } violations
* for variable <i>age</i> inside <i>changeAge</i> method.
* </p>
* <pre>
* <suppress-xpath checks="RequireThis"
* query="//CLASS_DEF[./IDENT[@text='InputTest']]
* //METHOD_DEF[./IDENT[@text='changeAge']]//ASSIGN/IDENT[@text='age']>
* </pre>
* <pre>
* public class InputTest {
* private int age = 23;

```

```

*
* public void changeAge() {
* age = 24; //violation will be suppressed
* }
* }
* </pre>
* <p>
* Suppress { @code IllegalThrows } violations only for methods with name <i>throwsMethod</i>
* and only for { @code RuntimeException } exceptions. Double colon is used for axis iterations.
* In the following example { @code ancestor } axis is used to iterate all ancestor nodes
* of the current node with type { @code METHOD_DEF } and name <i>throwsMethod</i>.
* Please read more about xpath axes at
* W3Schools Xpath Axes.
* </p>
* <pre>
* <suppress-xpath checks="IllegalThrows" query="//LITERAL_THROWS
* /IDENT[@text='RuntimeException' and
* ./ancestor::METHOD_DEF[./IDENT[@text='throwsMethod']]]"/>
* </pre>
* <pre>
* public class InputTest {
* public void throwsMethod() throws RuntimeException { // violation will be suppressed
* }
*
* public void sampleMethod() throws RuntimeException { // will throw violation here
* }
* }
* </pre>
* <p>
* The following sample demonstrates how to suppress all violations for method
* itself and all descendants. { @code descendant-or-self } axis iterates through
* current node and all children nodes at any level. Keyword { @code node() }
* selects node elements. Please read more about xpath syntax at
* W3Schools Xpath Syntax.
* </p>
* <pre>
* <suppress-xpath checks="*" query="//METHOD_DEF[./IDENT[@text='legacyMethod']]
* /descendant-or-self::node()"/>
* </pre>
* <p>
* Some elements can be suppressed in different ways. For example, to suppress
* violation on variable { @code wordCount } in following code:
* </p>
* <pre>
* public class InputTest {
* private int wordCount = 11;
* }
* </pre>

```

\* <p>

\* You need to look at AST of such code by our CLI tool:

\* </p>

\* <pre>

```
* $ java -jar checkstyle-X.XX-all.jar -t InputTest.java
* CLASS_DEF -> CLASS_DEF [1:0]
* |--MODIFIERS -> MODIFIERS [1:0]
* | `--LITERAL_PUBLIC -> public [1:0]
* |--LITERAL_CLASS -> class [1:7]
* |--IDENT -> InputTest [1:13]
* `--OBJBLOCK -> OBJBLOCK [1:23]
* |--LCURLY -> { [1:23]
* |--VARIABLE_DEF -> VARIABLE_DEF [2:4]
* | |--MODIFIERS -> MODIFIERS [2:4]
* | | `--LITERAL_PRIVATE -> private [2:4]
* | |--TYPE -> TYPE [2:12]
* | | `--LITERAL_INT -> int [2:12]
* | |--IDENT -> wordCount [2:16]
* | |--ASSIGN -> = [2:26]
* | | `--EXPR -> EXPR [2:28]
* | | | `--NUM_INT -> 11 [2:28]
* | | `--SEMI -> ; [2:30]
* `--RCURLY -> } [3:0]
```

\* </pre>

\* <p>

\* The easiest way is to suppress by variable name. As you can see { @code VARIABLE\_DEF }

\* node refers to variable declaration statement and has child node with token type

\* { @code IDENT } which is used for storing class, method, variable names.

\* </p>

\* <p>

\* The following example demonstrates how variable can be queried by its name:

\* </p>

\* <pre>

```
* <suppress-xpath checks="." query="//VARIABLE_DEF[
* ./IDENT[@text='wordCount']"/>
```

\* </pre>

\* <p>

\* Another way is to suppress by variable value. Again, if you look at the printed

\* AST tree above, you will notice that one of the grandchildren of { @code VARIABLE\_DEF }

\* node is responsible for storing variable value -{ @code NUM\_INT } with value <b>11</b>.

\* </p>

\* <p>

\* The following example demonstrates how variable can be queried by its value,

\* same approach applies to { @code String, char, float, double, int, long } data types:

\* </p>

\* <pre>

```
* <suppress-xpath checks="." query="//VARIABLE_DEF[./NUM_INT[@text=11]]"/>
```

\* </pre>

\* <p>  
\* Next example is about suppressing method with certain annotation by its name and element value.

\* </p>

\* <pre>

```
* public class InputTest {
* @Generated("first") // should not be suppressed
* public void test1() {
* }
*
* @Generated("second") // should be suppressed
* public void test2() {
* }
* }
```

\* </pre>

\* <p>

\* First of all we need to look at AST tree printed by our CLI tool:

\* </p>

\* <pre>

```
* $ java -jar checkstyle-X.XX-all.jar -t InputTest.java
* CLASS_DEF -> CLASS_DEF [1:0]
* |--MODIFIERS -> MODIFIERS [1:0]
* | `--LITERAL_PUBLIC -> public [1:0]
* |--LITERAL_CLASS -> class [1:7]
* |--IDENT -> InputTest [1:13]
* `--OBJBLOCK -> OBJBLOCK [1:23]
* |--LCURLY -> { [1:23]
* |--METHOD_DEF -> METHOD_DEF [2:4]
* | |--MODIFIERS -> MODIFIERS [2:4]
* | | |--ANNOTATION -> ANNOTATION [2:4]
* | | | |--AT -> @ [2:4]
* | | | |--IDENT -> Generated [2:5]
* | | | |--LPAREN -> ([2:14]
* | | | |--EXPR -> EXPR [2:15]
* | | | | `--STRING_LITERAL -> "first" [2:15]
* | | | `--RPAREN ->) [2:22]
* | | `--LITERAL_PUBLIC -> public [3:4]
* | |--TYPE -> TYPE [3:11]
* | | `--LITERAL_VOID -> void [3:11]
* | |--IDENT -> test1 [3:16]
* | |--LPAREN -> ([3:21]
* | |--PARAMETERS -> PARAMETERS [3:22]
* | |--RPAREN ->) [3:22]
* | `--SLIST -> { [3:24]
* | `--RCURLY -> } [4:4]
* |--METHOD_DEF -> METHOD_DEF [6:4]
* | |--MODIFIERS -> MODIFIERS [6:4]
* | | |--ANNOTATION -> ANNOTATION [6:4]
* | | | |--AT -> @ [6:4]
```

```

* | | | |--IDENT -> Generated [6:5]
* | | | |--LPAREN -> ([6:14]
* | | | |--EXPR -> EXPR [6:15]
* | | | | `--STRING_LITERAL -> "second" [6:15]
* | | | `--RPAREN ->) [6:23]
* | | `--LITERAL_PUBLIC -> public [7:4]
* | |--TYPE -> TYPE [7:11]
* | | `--LITERAL_VOID -> void [7:11]
* | |--IDENT -> test2 [7:16]
* | |--LPAREN -> ([7:21]
* | |--PARAMETERS -> PARAMETERS [7:22]
* | |--RPAREN ->) [7:22]
* | `--SLIST -> { [7:24]
* | `--RCURLY -> } [8:4]
* `--RCURLY -> } [9:0]
* </pre>
* <p>
* AST node { @code ANNOTATION -> ANNOTATION [6:4]} has direct child
* { @code IDENT -> Generated [6:5]}, therefore can be queried by { @code IDENT} value:
* </p>
* <pre>
* <suppress-xpath checks="." query="//METHOD_DEF[
* //ANNOTATION/IDENT[@text='Generated']"/>
* </pre>
* <p>
* The problem with query above that it will suppress violations for all methods
* with annotation { @code @Generated}. In order to suppress methods with
* { @code @Generated("second")} annotations only, you need to look at AST tree again.
* Value of the { @code ANNOTATION} node is stored inside sub-node with token type
* { @code STRING_LITERAL}. Use the following query to suppress methods with
* { @code @Generated("second")} annotation:
* </p>
* <pre>
* <suppress-xpath checks="." query="//METHOD_DEF[//ANNOTATION[
* ./IDENT[@text='Generated'] and ./EXPR/STRING_LITERAL[@text='second']]"/>
* </pre>
* <p>
* Parent is { @code com.puppycrawl.tools.checkstyle.TreeWalker}
* </p>
*
* @since 8.6
* @noinspection NonFinalFieldReferenceInEquals, NonFinalFieldReferencedInHashCode
*/

```

Found in path(s):

```

* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppycrawl/tools/checkstyle/filters/SuppressionXpathFilter.java

```

No license file was found, but licenses were detected in source scan.

```
// This library is free software; you can redistribute it and/or
// modify it under the terms of the GNU Lesser General Public
// License as published by the Free Software Foundation; either
// version 2.1 of the License, or (at your option) any later version.
// This library is distributed in the hope that it will be useful,
// but WITHOUT ANY WARRANTY; without even the implied warranty of
// MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
// Lesser General Public License for more details.
// You should have received a copy of the GNU Lesser General Public
/**
 * <p>
 * Checks that a specified pattern exists, exists less than
 * a set number of times, or does not exist in the file.
 * </p>
 * <p>
 * This check combines all the functionality provided by
 * RegexpHeader
 * except supplying the regular expression from a file.
 * </p>
 * <p>
 * It differs from them in that it works in multiline mode. Its regular expression
 * can span multiple lines and it checks this against the whole file at once.
 * The others work in singleline mode. Their single or multiple regular expressions
 * can only span one line. They check each of these against each line in the file in turn.
 * </p>
 * <p>
 * Note: Because of the different mode of operation there may be some
 * changes in the regular expressions used to achieve a particular end.
 * </p>
 * <p>
 * In multiline mode...
 * </p>
 *
 *
 * { @code ^ } means the beginning of a line, as opposed to beginning of the input.
 *
 *
 * For beginning of the input use { @code \A }.
 *
 *
 * { @code $ } means the end of a line, as opposed to the end of the input.
 *
 *
 * For end of input use { @code \Z }.
 *
 *
```



- \* Each line in the file is terminated with a line feed character.
- \* </li>
- \* </ul>
- \* <p>
- \* <b>Note:</b> Not all regular expression engines are created equal.
- \* Some provide extra functions that others do not and some elements
- \* of the syntax may vary. This check makes use of the
- \* <a href="https://docs.oracle.com/en/java/javase/11/docs/api/java.base/java/util/regex/package-summary.html">
- \* java.util.regex package</a>; please check its documentation for details
- \* of how to construct a regular expression to achieve a particular goal.
- \* </p>
- \* <p>
- \* <b>Note:</b> When entering a regular expression as a parameter in
- \* the XML config file you must also take into account the XML rules. e.g.
- \* if you want to match a &lt; symbol you need to enter &amp;lt;.
- \* The regular expression should be entered on one line.
- \* </p>
- \* <ul>
- \* <li>
- \* Property { @code format } - Specify the pattern to match against.
- \* Type is { @code java.util.regex.Pattern }.
- \* Default value is { @code "^\$" }.
- \* </li>
- \* <li>
- \* Property { @code message } - Specify message which is used to notify about
- \* violations, if empty then the default (hard-coded) message is used.
- \* Type is { @code java.lang.String }.
- \* Default value is { @code null }.
- \* </li>
- \* <li>
- \* Property { @code illegalPattern } - Control whether the pattern is required or illegal.
- \* Type is { @code boolean }.
- \* Default value is { @code false }.
- \* </li>
- \* <li>
- \* Property { @code duplicateLimit } - Control whether to check for duplicates
- \* of a required pattern, any negative value means no checking for duplicates,
- \* any positive value is used as the maximum number of allowed duplicates,
- \* if the limit is exceeded violations will be logged.
- \* Type is { @code int }.
- \* Default value is { @code 0 }.
- \* </li>
- \* <li>
- \* Property { @code errorLimit } - Specify the maximum number of violations before
- \* the check will abort.
- \* Type is { @code int }.
- \* Default value is { @code 100 }.
- \* </li>

- \* <li>
- \* Property { @code ignoreComments } - Control whether to ignore matches found within comments.
- \* Type is { @code boolean }.
- \* Default value is { @code false }.
- \* </li>
- \* </ul>
- \* <p>
- \* To configure the check:
- \* </p>
- \* <p>
- \* The following examples are mainly copied from the other 3 checks mentioned above,
- \* to show how the same results can be achieved using this check in place of them.
- \* </p>
- \* <p>
- \* <b>To use like Required Regexp check:</b>
- \* </p>
- \* <p>
- \* An example of how to configure the check to make sure a copyright statement
- \* is included in the file:
- \* </p>
- \* <p>
- \* The statement.
- \* </p>
- \* <pre>
- \* // This code is copyrighted
- \* </pre>
- \* <p>
- \* The check.
- \* </p>
- \* <pre>
- \* &lt;module name="Regexp"&gt;
- \* &lt;property name="format" value="// This code is copyrighted"/&gt;
- \* &lt;/module&gt;
- \* </pre>
- \* <p>
- \* Your statement may be multiline.
- \* </p>
- \* <pre>
- \* // This code is copyrighted
- \* // (c) MyCompany
- \* </pre>
- \* <p>
- \* Then the check would be.
- \* </p>
- \* <pre>
- \* &lt;module name="Regexp"&gt;
- \* &lt;property name="format" value="// This code is copyrighted\n// (c) MyCompany"/&gt;
- \* &lt;/module&gt;

```

* </pre>
* <p>
* Note: To search for parentheses () in a regular expression you must
* escape them like \(). This is required by the regexp engine, otherwise it will
* think they are special instruction characters.
* </p>
* <p>
* And to make sure it appears only once:
* </p>
* <pre>
* <module name="Regexp">
* <property name="format" value="// This code is copyrighted\n// \(\c\) MyCompany"/>
* <property name="duplicateLimit" value="0"/>
* </module>
* </pre>
* <p>
* It can also be useful to attach a meaningful message to the check:
* </p>
* <pre>
* <module name="Regexp">
* <property name="format" value="// This code is copyrighted\n// \(\c\) MyCompany"/>
* <property name="message" value="Copyright"/>
* </module>
* </pre>
* <p>
* To use like illegal regexp check:
* </p>
* <p>
* An example of how to configure the check to make sure there are no calls to
* { @code System.out.println } :
* </p>
* <pre>
* <module name="Regexp">
* <!- . matches any character, so we need to escape it and use \. to match dots. -->
* <property name="format" value="System\.out\.println"/>
* <property name="illegalPattern" value="true"/>
* </module>
* </pre>
* <p>
* You may want to make the above check ignore comments, like this:
* </p>
* <pre>
* <module name="Regexp">
* <property name="format" value="System\.out\.println"/>
* <property name="illegalPattern" value="true"/>
* <property name="ignoreComments" value="true"/>
* </module>
* </pre>

```

```

* <p>
* An example of how to configure the check to find trailing whitespace at the end of a line:
* </p>
* <pre>
* <module name="Regexp">
* <property name="format" value="[\t]+$"/>
* <property name="illegalPattern" value="true"/>
* <property name="message" value="Trailing whitespace"/>
* </module>
* </pre>
* <p>
* An example of how to configure the check to find case-insensitive occurrences of "debug":
* </p>
* <pre>
* <module name="Regexp">
* <property name="format" value="(?!i)debug"/>
* <property name="illegalPattern" value="true"/>
* </module>
* </pre>
* <p>
* Note: The (?!i) at the beginning of the regular expression tells the
* regexp engine to ignore the case.
* </p>
* <p>
* There is also a feature to limit the number of violations reported.
* When the limit is reached the check aborts with a message reporting that
* the limit has been reached. The default limit setting is 100,
* but this can be change as shown in the following example.
* </p>
* <pre>
* <module name="Regexp">
* <property name="format" value="(?!i)debug"/>
* <property name="illegalPattern" value="true"/>
* <property name="errorLimit" value="1000"/>
* </module>
* </pre>
* <p>
* To use like
* RegexpHeader:
* </p>
* <p>
* To configure the check to verify that each file starts with the following multiline header.
* </p>
* <p>
* Note the following:
* </p>
*
*

```

```

* \A means the start of the file.
*
*
* The date can be any 4 digit number.
*
*
* <pre>
* // Copyright (C) 2004 MyCompany
* // All rights reserved
* </pre>
* <pre>
* <module name="Regexp">
* <property
* name="format"
* value="\A// Copyright \((C)\ \d\d\d\d MyCompany\n// All rights reserved"/>
* </module>
* </pre>
* <p>
* A more complex example. Note how the import and javadoc multilines are handled,
* there can be any number of them.
* </p>
* <pre>
* //////////////////////////////////////
* // checkstyle:
* // Checks Java source code for adherence to a set of rules.
* // Copyright (C) 2004 Oliver Burn
* // Last modification by $Author A.N.Other$
* //////////////////////////////////////
*
* package com.puppcrawl.checkstyle;
*
* import java.util.thing1;
* import java.util.thing2;
* import java.util.thing3;
*
* /**
* * javadoc line 1
* * javadoc line 2
* * javadoc line 3
* * /
* </pre>
* <pre>
* <module name="Regexp">
* <property
* name="format"
* value="\A{71}\n// checkstyle:\n// Checks Java source code for
* adherence to a set of rules.\n// Copyright \((C)\ \d\d\d\d Oliver Burn\n
* // Last modification by \$Author.*\$/n/{71}\n\npackage [\w\.]*;\n\n

```

```

* (import [\w\.]*;\n)*\n^\n(\ [^\n]*\n)* \/"/>
* </module>
* </pre>
* <p>
* More examples:
* </p>
* <p>
* The next 2 examples deal with the following example Java source file:
* </p>
* <pre>
* /*
* * PID.java
* *
* * Copyright (c) 2001 ACME
* * 123 Some St.
* * Somewhere.
* *
* * This software is the confidential and proprietary information of ACME.
* * ("Confidential Information"). You shall not disclose such
* * Confidential Information and shall use it only in accordance with
* * the terms of the license agreement you entered into with ACME.
* *
* * $Log: config_misc.xml,v $
* * Revision 1.7 2007/01/16 12:16:35 oburn
* * Removing all reference to mailing lists
* *
* * Revision 1.6 2005/12/25 16:13:10 o_sukhodolsky
* * Fix for rfe 1248106 (TYPECAST is now accepted by NoWhitespaceAfter)
* *
* * Fix for rfe 953266 (thanks to Paul Guyot (pguyot) for submitting patch)
* * IllegalType can be configured to accept some abstract classes which
* * matches to regexp of illegal type names (property legalAbstractClassNames)
* *
* * TrailingComment now can be configured to accept some trailing comments
* * (such as NOI18N) (property legalComment, rfe 1385344).
* *
* * Revision 1.5 2005/11/06 11:54:12 oburn
* * Incorporate excellent patch [1344344] Consolidation of regexp checks.
* *
* * Revision 1.3.8.1 2005/10/11 14:26:32 someone
* * Fix for bug 251. The broken bit is fixed
* */
* *
* package com.acme.tools;
*
* import com.acme.thing1;
* import com.acme.thing2;
* import com.acme.thing3;

```

```

*
* /**
* *
* * <P>
* * <I>This software is the confidential and proprietary information of
* * ACME ("Confidential Information"). You shall not
* * disclose such Confidential Information and shall use it only in
* * accordance with the terms of the license agreement you entered into
* * with ACME.</I>
* * </P>
* *
* * © copyright 2002 ACME
* *
* * @author Some Body
* * /
* public class PID extends StateMachine implements WebObject.Constants {
*
* /** javadoc. * /
* public static final int A_SETPOINT = 1;
* .
* .
* .
* } // class PID
* </pre>
* <p>
* This checks for the presence of the header, the first 16 lines.
* </p>
* <p>
* Note the following:
* </p>
*
*
* Line 2 and 13 contain the file name. These are checked to make sure they
* are the same, and that they match the class name.
*
*
* The date can be any 4 digit number.
*
*
* <pre>
* <module name="Regex">
* <property
* name="format"
* value="\A*\n * (\w*)\.java\n *\n * Copyright \(\c\
* \d\d\d\d ACME\n * 123 Some St.\n * Somewhere.\n *\n
* * This software is the confidential and proprietary information
* of ACME.\n * \(\"Confidential Information")\. You
* shall not disclose such\n * Confidential Information and shall

```

```

* use it only in accordance with\n * the terms of the license
* agreement you entered into with ACME\.\n *\n
* * \$Log: config_misc.xml,v $
* * Revision 1\7 2007/01/16 12:16:35 oburn
* * Removing all reference to mailing lists
* * \
* * Revision 1.6 2005/12/25 16:13:10 o_sukhodolsky
* * Fix for rfe 1248106 \(\TYPECAST is now accepted by NoWhitespaceAfter\
* * \
* * Fix for rfe 953266 \(\thanks to Paul Guyot \(\pguyot\) for submitting patch\
* * IllegalType can be configured to accept some abstract classes which
* * matches to regexp of illegal type names \(\property legalAbstractClassNames\
* *
* * TrailingComment now can be configured to accept some trailing comments
* * \(\such as NOI18N\) \(\property legalComment, rfe 1385344\).
* *
* * Revision 1.5 2005/11/06 11:54:12 oburn
* * Incorporate excellent patch \[1344344 \] Consolidation of regexp checks.
* * \n(.*\n)*([\w\s]* (class | interface)\1)"/>
* <property name="message" value="Correct header not found"/>
* </module>
* </pre>
* <p>
* This checks for the presence of a copyright notice within the class javadoc, lines 24 to 37.
* </p>
* <pre>
* <module name="Regexp">
* <property
* name="format"
* value="(\^*\n)(*.*\n)* (* <P>\n * <I>
* This software is the confidential and proprietary information of\n
* * ACME \(\&"Confidential Information&"
* \)\. You shall not\n * disclose such Confidential Information
* and shall use it only in\n * accordance with the terms of the
* license agreement you entered into\n * with ACME\.\</I>\n
* * </P>\n *\n * &#169; copyright \d\d\d\d ACME\n
* *\n * @author .*) (\n\s*.*)*/\n[\w\s]* (class | interface)"/>
* <property name="message"
* value="Copyright in class/interface Javadoc"/>
* <property name="duplicateLimit" value="0"/>
* </module>
* </pre>
* <p>
* Note: To search for things that mean something in XML, like <
* you need to escape them like &lt;. This is required so the XML parser
* does not act on them, but instead passes the correct character to the regexp engine.
* </p>
* <p>

```



```

* Parent is { @code com.puppcrawl.tools.checkstyle.TreeWalker}
* </p>
* <p>
* Violation Message Keys:
* </p>
*
*
* { @code duplicate.regex}
*
*
* { @code illegal.regex}
*
*
* { @code required.regex}
*
*
*
* @since 4.0
*/

```

Found in path(s):

```

* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/checks/regex/RegexCheck.java
No license file was found, but licenses were detected in source scan.

```

```

// This library is free software; you can redistribute it and/or
// modify it under the terms of the GNU Lesser General Public
// License as published by the Free Software Foundation; either
// version 2.1 of the License, or (at your option) any later version.
// This library is distributed in the hope that it will be useful,
// but WITHOUT ANY WARRANTY; without even the implied warranty of
// MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
// Lesser General Public License for more details.
// You should have received a copy of the GNU Lesser General Public

```

Found in path(s):

```

* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/Main.java
* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/gui/CodeSelectorPresentation.java
* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/checks/design/FinalClassCheck.java
* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/checks/UncommentedMainCheck.java
* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/checks/indentation/SlistHandler.java
* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/checks/coding/IllegalTypeCheck.java

```

\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppcrawl/tools/checkstyle/gui/Main.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppcrawl/tools/checkstyle/checks/UpperEllCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppcrawl/tools/checkstyle/checks/coding/SuperCloneCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppcrawl/tools/checkstyle/gui/TreeTableModelAdapter.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppcrawl/tools/checkstyle/checks/javadoc/MissingJavadocTypeCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppcrawl/tools/checkstyle/xpath/RootNode.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppcrawl/tools/checkstyle/checks/imports/ImportControlLoader.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppcrawl/tools/checkstyle/SuppressionsStringPrinter.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppcrawl/tools/checkstyle/checks/coding/VariableDeclarationUsageDistanceCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppcrawl/tools/checkstyle/checks/imports/ImportControlCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppcrawl/tools/checkstyle/checks/indentation/CommentsIndentationCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppcrawl/tools/checkstyle/checks/whitespace/package-info.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppcrawl/tools/checkstyle/checks/sizes/OuterTypeNumberCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppcrawl/tools/checkstyle/checks/indentation/DoWhileHandler.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppcrawl/tools/checkstyle/checks/javadoc/JavadocStyleCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppcrawl/tools/checkstyle/checks/coding/SuperFinalizeCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppcrawl/tools/checkstyle/checks/imports/CustomImportOrderCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppcrawl/tools/checkstyle/XpathFileGeneratorAuditListener.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppcrawl/tools/checkstyle/filters/SuppressionFilter.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppcrawl/tools/checkstyle/api/SeverityLevelCounter.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppcrawl/tools/checkstyle/api/Configurable.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppcrawl/tools/checkstyle/checks/javadoc/JavadocTag.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppcrawl/tools/checkstyle/api/LineColumn.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppcrawl/tools/checkstyle/checks/whitespace/OperatorWrapCheck.java

\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/annotation/AnnotationOnSameLineCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/SuppressWarningsHolder.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/whitespace/WhitespaceAroundCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/indentation/CatchHandler.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/indentation/BlockParentHandler.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/NoCodeInFileCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/coding/SimplifyBooleanReturnCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/indentation/FinallyHandler.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/api/DetailAST.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/javadoc/JavadocBlockTagLocationCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/naming/LocalFinalVariableNameCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/TreeWalkerAuditEvent.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/regexp/SinglelineDetector.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/annotation/AnnotationLocationCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/javadoc/JavadocTagContinuationIndentationCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/javadoc/JavadocMissingLeadingAsteriskCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/ant/package-info.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/TrailingCommentCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/gui/package-info.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/gui/CodeSelector.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/coding/FallThroughCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/Utils/package-info.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/meta/XMLMetaWriter.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/coding/IllegalThrowsCheck.java

\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/regexp/RegexpOnFilenameCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/javadoc/JavadocTypeCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/indentation/package-info.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/sizes/ExecutableStatementCountCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/DescendantTokenCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/javadoc/SummaryJavadocCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/indentation/TryHandler.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/metrics/BooleanExpressionComplexityCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/coding/NoCloneCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/api/BeforeExecutionFileFilterSet.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/filters/SuppressionCommentFilter.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/javadoc/WriteTagCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/sizes/package-info.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/regexp/RegexpMultilineCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/annotation/MissingOverrideCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/javadoc/InvalidJavadocTag.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/api/package-info.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/naming/InterfaceTypeParameterNameCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/whitespace/MethodParamPadCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/imports/AccessResult.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/Utils/FilterUtil.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/naming/IllegalIdentifierNameCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/api/SeverityLevel.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/blocks/EmptyCatchBlockCheck.java

\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/XMLLogger.java

\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/javadoc/TagParser.java

\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/meta/ModuleDetails.java

\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/package-info.java

\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/indentation/LabelHandler.java

\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/javadoc/AbstractJavadocCheck.java

\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/api/AuditEvent.java

\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/gui/MainFrameModel.java

\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/filters/SuppressWithPlainTextCommentFilter.java

\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/regexp/DetectorOptions.java

\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/imports/ImportOrderCheck.java

\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/api/Scope.java

\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/indentation/HandlerFactory.java

\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/indentation/StaticInitHandler.java

\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/gui/ParseTreeTableModel.java

\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-jar/com/puppycrawl/tools/checkstyle/checks/javadoc/HtmlTag.java

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jar/com/puppcrawl/tools/checkstyle/meta/MetadataGenerationException.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/JavaParser.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/checks/coding/UnnecessarySemicolonInTryWithResourcesCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/Utils/ModuleReflectionUtil.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/checks/design/DesignForExtensionCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/grammar/CommentListener.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/filters/XpathFilterElement.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/checks/modifier/InterfaceMemberImpliedModifierCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/checks/indentation/PackageDefHandler.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/filters/SuppressionXpathSingleFilter.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/checks/indentation/ImportHandler.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/checks/whitespace/PadOption.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/Utils/TokenUtil.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/checks/whitespace/NoWhitespaceBeforeCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/xpath/XpathQueryGenerator.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/checks/indentation/ElseHandler.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/checks/indentation/NewHandler.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/checks/coding/NoArrayTrailingCommaCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-

jar/com/puppycrawl/tools/checkstyle/filefilters/package-info.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/api/FileSetCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/checks/metrics/NPathComplexityCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/checks/javadoc/AtclauseOrderCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/checks/whitespace/AbstractParenPadCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/checks/imports/ImportOrderOption.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/checks/imports/RedundantImportCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-

jar/com/puppcrawl/tools/checkstyle/checks/UniquePropertiesCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/checks/NewlineAtEndOfFileCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/checks/coding/UnnecessarySemicolonInEnumerationCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/checks/metrics/ClassDataAbstractionCouplingCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/checks/javadoc/Utils/package-info.java  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/checks/coding/FinalLocalVariableCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
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\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/checks/imports/PkgImportRule.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/XmlLoader.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/checks/indentation/ArrayInitHandler.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/ThreadModeSettings.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/checks/javadoc/Utils/BlockTagUtil.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/filters/CsvFilterElement.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/checks/modifier/package-info.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/checks/javadoc/JavadocTagInfo.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/ModuleFactory.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/checks/indentation/AbstractExpressionHandler.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/api/Configuration.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/checks/imports/package-info.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/checks/design/InterfaceIsTypeCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/checks/whitespace/NoWhitespaceAfterCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppcrawl/tools/checkstyle/checks/OuterTypeFilenameCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-



jar/com/puppycrawl/tools/checkstyle/checks/indentation/MethodCallHandler.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/gui/TreeTable.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/checks/javadoc/JavadocMethodCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/api/FileContents.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/checks/javadoc/JavadocMissingWhitespaceAfterAsteriskCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/checks/annotation/PackageAnnotationCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/checks/naming/LocalVariableNameCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/checks/coding/ReturnCountCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/checks/coding/DefaultComesLastCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/filters/SuppressWithNearbyCommentFilter.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/checks/metrics/JavaNCSSCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/api/MessageDispatcher.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/checks/regexp/CommentSuppressor.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/utils/CommonUtil.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/DetailAstImpl.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/checks/design/OneTopLevelClassCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/checks/coding/InnerAssignmentCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/gui/ParseTreeTablePresentation.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/checks/design/ThrowsCountCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/api/FilterSet.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/checks/sizes/ParameterNumberCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/checks/javadoc/MissingJavadocPackageCheck.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/AuditEventDefaultFormatter.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-  
jar/com/puppycrawl/tools/checkstyle/meta/package-info.java  
\* /opt/cola/permits/1341779172\_1654804295.5086308/0/checkstyle-8-44-sources-

```
jar/com/puppcrawl/tools/checkstyle/checks/javadoc/JavadocTags.java
* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/api/AbstractCheck.java
* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/checks/whitespace/SeparatorWrapCheck.java
* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/checks/modifier/ClassMemberImpliedModifierCheck.java
* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/DetailNodeTreeStringPrinter.java
* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/checks/naming/package-info.java
* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/Utils/CheckUtil.java
* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/checks/indentation/MemberDefHandler.java
* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/ConfigurationLoader.java
* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/checks/indentation/DetailAstSet.java
* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/checks/design/HideUtilityClassConstructorCheck.java
* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/checks/coding/StringLiteralEqualityCheck.java
* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/checks/javadoc/InvalidJavadocPositionCheck.java
No license file was found, but licenses were detected in source scan.
```

```
/** Java 1.5 Recognizer
 *
 * This grammar is in the PUBLIC DOMAIN
 */
```

Found in path(s):

```
* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/grammar/GeneratedJavaRecognizer.java
No license file was found, but licenses were detected in source scan.
```

for more details.

Found in path(s):

```
* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/meta/filters/SuppressionXpathFilter.xml
No license file was found, but licenses were detected in source scan.
```

```
// This library is free software; you can redistribute it and/or
// modify it under the terms of the GNU Lesser General Public
// License as published by the Free Software Foundation; either
// version 2.1 of the License, or (at your option) any later version.
```

```

// This library is distributed in the hope that it will be useful,
// but WITHOUT ANY WARRANTY; without even the implied warranty of
// MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
// Lesser General Public License for more details.
// You should have received a copy of the GNU Lesser General Public
/**
 * <p>
 * Checks the header of a source file against a header that contains a
 *
 * regular expression for each line of the source header.
 * </p>
 * <p>
 * Rationale: In some projects
 * checking against a fixed header is not sufficient, e.g. the header might
 * require a copyright line where the year information is not static.
 * </p>
 * <p>
 * For example, consider the following header:
 * </p>
 * <pre>
 * line 1: ^{71}$
 * line 2: ^// checkstyle:$
 * line 3: ^// Checks Java source code for adherence to a set of rules\.$
 * line 4: ^// Copyright \(C\) \d\d\d\d Oliver Burn$
 * line 5: ^// Last modification by \$Author.*\$$
 * line 6: ^{71}$
 * line 7:
 * line 8: ^package
 * line 9:
 * line 10: ^import
 * line 11:
 * line 12: ^**
 * line 13: ^*([^\]|$)
 * line 14: ^*/
 * </pre>
 * <p>
 * Lines 1 and 6 demonstrate a more compact notation for 71 '/' characters.
 * Line 4 enforces that the copyright notice includes a four digit year.
 * Line 5 is an example how to enforce revision control keywords in a file header.
 * Lines 12-14 is a template for javadoc (line 13 is so complicated to remove
 * conflict with and of javadoc comment). Lines 7, 9 and 11 will be treated
 * as '^$' and will forcefully expect the line to be empty.
 * </p>
 * <p>
 * Different programming languages have different comment syntax rules,
 * but all of them start a comment with a non-word character.
 * Hence you can often use the non-word character class to abstract away
 * the concrete comment syntax and allow checking the header for different

```

\* languages with a single header definition. For example, consider the following

\* header specification (note that this is not the full Apache license header):

```

* </p>
* <pre>
* line 1: ^#!
* line 2: ^<?xml.*>$
* line 3: ^\W*$
* line 4: ^\W*Copyright 2006 The Apache Software Foundation or its licensors, as applicable\.$
* line 5: ^\W*Licensed under the Apache License, Version 2\.\0 \((the "License")\);$
* line 6: ^\W*$
* </pre>
* <p>
* Lines 1 and 2 leave room for technical header lines, e.g. the "#!/bin/sh"
* line in Unix shell scripts, or the XML file header of XML files.
* Set the multiline property to "1, 2" so these lines can be ignored for
* file types where they do not apply. Lines 3 through 6 define the actual header content.
* Note how lines 2, 4 and 5 use escapes for characters that have special regexp semantics.
* </p>
* <p>
* In default configuration, if header is not specified, the default value
* of header is set to null and the check does not raise any violations.
* </p>
*
*
* Property { @code headerFile } - Specify the name of the file containing the required header.
* Type is { @code java.net.URI }.
* Default value is { @code null }.
*
*
* Property { @code charset } - Specify the character encoding to use when reading the headerFile.
* Type is { @code java.lang.String }.
* Default value is { @code the charset property of the parent
* Checker module }.
*
*
* Property { @code header } - Define the required header specified inline.
* Individual header lines must be separated by the string { @code "\n" }
* (even on platforms with a different line separator).
* For header lines containing { @code "\n\n" } checkstyle will
* forcefully expect an empty line to exist. See examples below.
* Regular expressions must not span multiple lines.
* Type is { @code java.lang.String }.
* Default value is { @code null }.
*
*
* Property { @code multiLines } - Specify the line numbers to repeat (zero or more times).
* Type is { @code int[] }.
* Default value is { @code "" }.

```

\* </li>

\* <li>

\* Property { @code fileExtensions } - Specify the file type extension of files to process.

\* Type is { @code java.lang.String[] }.

\* Default value is { @code "" }.

\* </li>

\* </ul>

\* <p>

\* To configure the check such that no violations arise.

\* Default values of properties are used.

\* </p>

\* <pre>

\* &lt;module name="RegexpHeader"/&gt;

\* </pre>

\* <p>

\* To configure the check to use header file { @code "config/java.header" } and { @code 10 } and { @code 13 } multi-lines:

\* </p>

\* <pre>

\* &lt;module name="RegexpHeader"&gt;

\* &lt;property name="headerFile" value="config/java.header"/&gt;

\* &lt;property name="multiLines" value="10, 13"/&gt;

\* &lt;/module&gt;

\* </pre>

\* <p>

\* To configure the check to verify that each file starts with the header

\* </p>

\* <pre>

\* ^// Copyright \(\C\) (\d\d\d\d -)? 2004 MyCompany\$

\* ^// All rights reserved\$

\* </pre>

\* <p>

\* without the need for an external header file:

\* </p>

\* <pre>

\* &lt;module name="RegexpHeader"&gt;

\* &lt;property

\* name="header"

\* value="^// Copyright \(\C\) (\d\d\d\d -)? 2004 MyCompany\$

\* \n^// All rights reserved\$"/&gt;

\* &lt;/module&gt;

\* </pre>

\* <p>

\* For regex containing { @code "\n\n" }

\* </p>

\* <pre>

\* &lt;module name="RegexpHeader"&gt;

\* &lt;property

```

* name="header"
* value="^package .*\n\n.*"/>
* </module>
* </pre>
* <p>
* { @code "\n\n" } will be treated as '^$' and will forcefully expect the line
* to be empty. For example -
* </p>
* <pre>
* package com.some.package;
* public class ThisWillFail { }
* </pre>
* <p>
* would fail for the regex above. Expected -
* </p>
* <pre>
* package com.some.package;
*
* public class ThisWillPass { }
* </pre>
* <p>
* <u>Note</u>: { @code ignoreLines } property has been removed from this check to simplify it.
* To make some line optional use "^.*$" regexp for this line.
* </p>
* <p>
* Parent is { @code com.puppcrawl.tools.checkstyle.Checker}
* </p>
* <p>
* Violation Message Keys:
* </p>
*
*
* { @code header.mismatch}
*
*
* { @code header.missing}
*
*
*
* @since 6.9
*/

```

Found in path(s):

```

* /opt/cola/permits/1341779172_1654804295.5086308/0/checkstyle-8-44-sources-
jar/com/puppcrawl/tools/checkstyle/checks/header/RegexpHeaderCheck.java

```

# 1.122 micronaut-views 3.2.0

## 1.122.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
distributed under the License is distributed on an "AS IS" BASIS,
```

Found in path(s):

```
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/META-INF/native-image/io.micronaut.views.model.security/native-image.properties
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/META-INF/native-image/io.micronaut.views.csp/native-image.properties
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
* Copyright 2017-2020 original authors
```

```
*
```

```
* Licensed under the Apache License, Version 2.0 (the "License");
```

```
* you may not use this file except in compliance with the License.
```

```
* You may obtain a copy of the License at
```

```
*
```

```
* https://www.apache.org/licenses/LICENSE-2.0
```

```
*
```

```
* Unless required by applicable law or agreed to in writing, software
```

```
* distributed under the License is distributed on an "AS IS" BASIS,
```

```
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
* See the License for the specific language governing permissions and
```

```
* limitations under the License.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/csp/package-info.java
```

```
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/View.java
```

```
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/ViewsConfigurationProperties.java
```

```
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/csp/CspConfiguration.java
```

```
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/csp/CspFilter.java
```

```
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/ModelAndView.java
```

```
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-
```

jar/io/micronaut/views/model/ViewModelProcessor.java  
\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/ViewUtils.java  
\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/ViewsRenderer.java  
\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/model/security/SecurityViewModelProcessor.java  
\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/ViewsConfiguration.java  
\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/package-info.java  
\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/model/package-info.java  
\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/model/security/SecurityViewModelProcessorConfigurationProperties.java  
\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/exceptions/ViewRenderingException.java  
\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/exceptions/package-info.java  
\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/model/security/package-info.java  
\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/exceptions/ViewNotFoundException.java  
\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/model/security/SecurityViewModelProcessorConfiguration.java  
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2017-2021 original authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):

```
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/ViewsFilter.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/ViewsResolver.java
```



```
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-
jar/io/micronaut/views/DefaultViewsRendererLocator.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-
jar/io/micronaut/views/ViewsModelDecorator.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-
jar/io/micronaut/views/DefaultViewsResolver.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-
jar/io/micronaut/views/DefaultViewsModelDecorator.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-
jar/io/micronaut/views/ViewsRendererKey.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-
jar/io/micronaut/views/ViewsRendererLocator.java
```

## 1.123 jackson-databind 2.13.2.2

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```
Jackson JSON processor
```

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers.

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Found in path(s):

```
*/opt/cola/permits/1331473697_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-
jar/io/micronaut/flyway/FlywayMigrator.java
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```
*/opt/cola/permits/1331473697_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-
jar/io/micronaut/flyway/GormMigrationRunner.java
```

```
*/opt/cola/permits/1331473697_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-
jar/io/micronaut/flyway/endpoint/FlywayEndpoint.java
```

\* /opt/cola/permits/1331473697\_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/DataSourceMigrationRunner.java  
\* /opt/cola/permits/1331473697\_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/event/SchemaCleanedEvent.java  
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\* /opt/cola/permits/1331473697\_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/graalvm/MicronautPathLocationScanner.java  
\* /opt/cola/permits/1331473697\_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/AlternativeMigrationRunner.java

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The binary file of the original library has been modified by Atlassian in such way that classes have changed their package names from 'org.jfree' to 'clover.org.jfree'. This was necessary to avoid potential name conflicts during instrumentation of a code using the original library when using Clover. No source code of the original library was modified.

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David Megginson, [david@megginson.com](mailto:david@megginson.com)  
2000-05-05

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Modified by Atlassian

The binary file of the original library has been modified by Atlassian in such way that classes have changed their package names from 'com.keypoint/org.jfree' to 'clover.com.keypoint/clover.org.jfree'. This was necessary to avoid potential name conflicts during instrumentation of a code using the original library when using Clover. No source code of the original library was modified.

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The primary ANTLR guy:

Terence Parr  
parrt@cs.usfca.edu  
parrt@antlr.org

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/\*

File: Core.js

Description:

Provides common utility functions and the Class object used internally by the library.

Also provides the <TreeUtil> object for manipulating JSON tree structures

Some of the Basic utility functions and the Class system are based in the MooTools Framework <<http://mootools.net>>. Copyright (c) 2006-2009 Valerio Proietti, <<http://mad4milk.net/>>. MIT license <<http://mootools.net/license.txt>>.

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Homepage:

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Version:

1.1.2

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jar/io/micronaut/openapi/annotation/transformers/DiscriminatorMappingRetentionPolicyAnnotationTransformer.java  
a  
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jar/io/micronaut/openapi/introspections/ExampleConfiguration.java  
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jar/io/micronaut/openapi/view/Renderer.java  
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jar/io/micronaut/openapi/annotation/transformers/OAuthScopeRetentionPolicyAnnotationTransformer.java  
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\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-jar/io/micronaut/openapi/annotation/transformers/HiddenRetentionPolicyAnnotationTransformer.java

\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-jar/io/micronaut/openapi/introspections/HeaderConfiguration.java

\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-jar/io/micronaut/openapi/annotation/transformers/ArraySchemaRetentionPolicyAnnotationTransformer.java

\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-jar/io/micronaut/openapi/visitor/OpenApiIncludeVisitor.java

\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-jar/io/micronaut/openapi/annotation/transformers/TagRetentionPolicyAnnotationTransformer.java

\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-jar/io/micronaut/openapi/annotation/mappers/OpenAPISecurityAnnotationMapper.java

\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-jar/io/micronaut/openapi/annotation/transformers/ServerVariableRetentionPolicyAnnotationTransformer.java

\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-jar/io/micronaut/openapi/view/SwaggerUIConfig.java

\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-jar/io/micronaut/openapi/view/RapiPDFConfig.java

\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-jar/io/micronaut/openapi/annotation/transformers/ParameterRetentionPolicyAnnotationTransformer.java

\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-jar/io/micronaut/openapi/annotation/transformers/TagsRetentionPolicyAnnotationTransformer.java

\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-jar/io/micronaut/openapi/annotation/transformers/ApiResponsesRetentionPolicyAnnotationTransformer.java

\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-jar/io/micronaut/openapi/annotation/transformers/InfoRetentionPolicyAnnotationTransformer.java

\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-jar/io/micronaut/openapi/introspections/MediaConfiguration.java

\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-jar/io/micronaut/openapi/annotation/transformers/AbstractRetentionPolicyAnnotationTransformer.java

\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-jar/io/micronaut/openapi/introspections/LinksConfiguration.java

\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-jar/io/micronaut/openapi/introspections/ServerConfiguration.java

\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-jar/io/micronaut/openapi/annotation/transformers/ExampleObjectMappingRetentionPolicyAnnotationTransformer.java

va

\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-jar/io/micronaut/openapi/annotation/transformers/ContactRetentionPolicyAnnotationTransformer.java

\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-jar/io/micronaut/openapi/annotation/transformers/SecurityRequirementsRetentionPolicyAnnotationTransformer.java

\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-

jar/io/micronaut/openapi/annotation/transformers/OAuthFlowsRetentionPolicyAnnotationTransformer.java  
\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-  
jar/io/micronaut/openapi/annotation/transformers/LinkRetentionPolicyAnnotationTransformer.java  
\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-  
jar/io/micronaut/openapi/annotation/transformers/SecuritySchemeRetentionPolicyAnnotationTransformer.java  
\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-  
jar/io/micronaut/openapi/annotation/transformers/SecuritySchemesRetentionPolicyAnnotationTransformer.java  
\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-  
jar/io/micronaut/openapi/annotation/transformers/ServerRetentionPolicyAnnotationTransformer.java  
\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-  
jar/io/micronaut/openapi/annotation/transformers/ApiResponseRetentionPolicyAnnotationTransformer.java  
\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-  
jar/io/micronaut/openapi/javadoc/JavadocParser.java  
\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-  
jar/io/micronaut/openapi/annotation/transformers/SecurityRequirementRetentionPolicyAnnotationTransformer.java  
\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-  
jar/io/micronaut/openapi/annotation/transformers/ExternalDocumentationRetentionPolicyAnnotationTransformer.java  
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\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-  
jar/io/micronaut/openapi/annotation/OpenAPIInclude.java  
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jar/io/micronaut/openapi/introspections/CallbackConfiguration.java  
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jar/io/micronaut/openapi/view/OpenApiViewConfig.java  
\* /opt/cola/permits/1340076157\_1654758619.2467897/0/micronaut-openapi-4-0-0-sources-  
jar/io/micronaut/openapi/annotation/transformers/ExtensionRetentionPolicyAnnotationTransformer.java

## 1.131 junit-jupiter-junit-jupiter-params 5.8.2

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\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/netty\_unix.c  
\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/netty\_unix.h

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\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/netty\_unix\_jni.h

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jar/netty\_unix\_limits.h  
\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/Limits.java  
\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/netty\_unix\_limits.c  
\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java  
\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java  
\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/netty\_unix\_util.c  
\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/PeerCredentials.java  
\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/netty\_unix\_util.h  
\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/SocketWritableByteChannel.java  
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\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/DomainSocketChannelConfig.java  
\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java  
\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/netty\_unix\_filedescriptor.h  
\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/netty\_unix\_socket.c  
\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/Socket.java



\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/DomainSocketChannel.java  
\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/netty\_unix\_errors.c  
\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/netty\_unix\_socket.h  
\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/netty\_unix\_filedescriptor.c  
\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/ServerDomainSocketChannel.java  
\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/Errors.java  
\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/DomainSocketReadMode.java  
\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/FileDescriptor.java  
\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/NativeInetAddress.java  
\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/UnixChannel.java  
\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/DatagramSocketAddress.java

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\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/Unix.java

\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/IovArray.java

\* /opt/cola/permits/1290493558\_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-

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* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-
jar/netty_unix_buffer.c
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-
jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-
jar/io/netty/channel/unix/Buffer.java
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-
jar/netty_unix_buffer.h
```

## 1.133 micronaut-reactor 2.2.2

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\* /opt/cola/permits/1331473741\_1653068550.395305/0/micronaut-reactor-2-2-2-sources-1-jar/io/micronaut/reactor/convert/ReactorConverterRegistrar.java

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\* /opt/cola/permits/1331473741\_1653068550.395305/0/micronaut-reactor-2-2-2-sources-1-jar/io/micronaut/reactor/convert/ReactorToRxJava2ConverterRegistrar.java

\* /opt/cola/permits/1331473741\_1653068550.395305/0/micronaut-reactor-2-2-2-sources-1-jar/io/micronaut/reactor/convert/ReactorToRxJava3ConverterRegistrar.java

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 */
```

Found in path(s):

```
* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-
jar/io/micronaut/mqtt/annotation/Retained.java
* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-
```

jar/io/micronaut/mqtt/bind/AnnotatedMqttBinder.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-  
jar/io/micronaut/mqtt/bind/DefaultMqttBinderRegistry.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-  
jar/io/micronaut/mqtt/serdes/MqttPayloadSerDesRegistry.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-  
jar/io/micronaut/mqtt/bind/MqttBinderRegistry.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-  
jar/io/micronaut/mqtt/bind/impl/QosMqttBinder.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-  
jar/io/micronaut/mqtt/serdes/MqttPayloadSerDes.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-  
jar/io/micronaut/mqtt/serdes/JavaLangMqttPayloadSerDes.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-  
jar/io/micronaut/mqtt/config/MqttSSLConfiguration.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-  
jar/io/micronaut/mqtt/exception/MqttSubscriberException.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-  
jar/io/micronaut/mqtt/bind/impl/RetainedMqttBinder.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-  
jar/io/micronaut/mqtt/bind/MqttBinder.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-  
jar/io/micronaut/mqtt/exception/MqttClientException.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-  
jar/io/micronaut/mqtt/bind/impl/IdMqttBinder.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-  
jar/io/micronaut/mqtt/bind/TypedMqttBinder.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-  
jar/io/micronaut/mqtt/serdes/JsonMqttPayloadSerDes.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-  
jar/io/micronaut/mqtt/bind/impl/PayloadMqttBinder.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-  
jar/io/micronaut/mqtt/annotation/MqttSubscriber.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-  
jar/io/micronaut/mqtt/annotation/Qos.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-  
jar/io/micronaut/mqtt/executor/MqttExecutorFactory.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-  
jar/io/micronaut/mqtt/annotation/package-info.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-  
jar/io/micronaut/mqtt/exception/DefaultMqttSubscriberExceptionHandler.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-  
jar/io/micronaut/mqtt/intercept/MqttPublisherState.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-  
jar/io/micronaut/mqtt/bind/impl/TopicMqttBinder.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-  
jar/io/micronaut/mqtt/bind/FallbackMqttBinder.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-

jar/io/micronaut/mqtt/annotation/Id.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/serdes/DefaultMqttPayloadSerDesRegistry.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/serdes/package-info.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/intercept/AbstractMqttIntroductionAdvice.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/annotation/Topics.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/bind/impl/AcknowledgeMqttBinder.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/intercept/AbstractMqttSubscriberAdvice.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/bind/impl/DefaultMqttBinder.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/exception/MqttSubscriberExceptionHandler.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/bind/MqttBindingContext.java

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\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/annotation/Topic.java

## 1.137 commons-compress 1.21

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# 1.138 objenesis 3.2

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\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletResponseFactory.java  
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\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletBinderRegistry.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletHttpRequest.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/encoders/SystemFileEncoder.java

## 1.140 saxon-xslt-and-xquery-processor 10.3

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\*/

```

/**
 * Called when either the command, option or positional parameter that has this preprocessor configured was
 * recognized by the picocli parser.
 * <p>Implementors are free to modify one or more of the specified command line arguments before they are
 * processed by the picocli parser (or by the option's { @link IParameterConsumer parameter consumer }, if one
 is specified).
 * </p><p>
 * Implementors may optionally consume one or more of the specified command line arguments:
 * a return value of { @code true } signals that the preprocessor consumed the parameter:
 * picocli should skip further processing of this option or positional parameter,
 * and the preprocessor implementation takes responsibility for assigning the
 * option or positional parameter a value. A return value of { @code false } means that picocli should
 * process the stack as usual for this option or positional parameter, and picocli is responsible for
 * assigning this option or positional parameter a value.
 * </p><p>
 * For a command, returning { @code true } signals that the preprocessor takes responsibility for parsing all
 * options and positional parameters for this command, and takes responsibility for validating constraints like
 * whether all required options and positional parameters were specified.
 * A return value of { @code false } means that picocli should
 * process the stack as usual for this command, and picocli is responsible for validation.
 * Command preprocessors can signal back to the picocli parser when they detect that the user requested version
 * information or usage help by putting a value of { @code true } in the specified
 * { @code info } map for keys { @code versionHelpRequested } or { @code usageHelpRequested }, respectively.
 * </p><p>
 * If the user input is invalid, implementations should throw a { @link ParameterException }
 * with a message to display to the user.
 * </p>
 * @param args the remaining command line arguments that follow the matched argument
 * (the matched argument is not on the stack anymore)
 * @param commandSpec the command or subcommand that was matched (if the specified { @code argSpec } is
 * { @code null }), or the command that the matched option or positional parameter belongs to
 * @param argSpec the option or positional parameter for which to pre-process command line arguments
 * (may be { @code null } when this method is called for a subcommand that was matched)
 * @param info a map containing additional information on the current parser state,
 * including whether the option parameter was attached to the option name with
 * a `=` separator, whether quotes have already been stripped off the option, etc.
 * Implementations may modify this map to communicate back to the picocli parser.
 * Supported values:
 * <table>
 * <tr>
 * <th>key</th><th>valid values</th><th>type</th>
 * </tr>
 * <tr>
 * <td>separator</td><td>" (empty string): attached without separator, ' ' (space): not attached, (any
 other string): option name was attached to option param with specified separator</td>
 * <td>java.lang.String</td>
 * </tr>
 * <tr>

```

```

* <td>negated</td>
* <td>{@code true}: the option or positional parameter is a {@linkplain Option#negatable()
negated} option/parameter, {@code false}: the option or positional parameter is not a negated
option/parameter</td>
* <td>java.lang.Boolean</td>
* </tr>
* <tr>
* <td>unquoted</td>
* <td>{@code true}: quotes surrounding the value have already been stripped off, {@code false}:
quotes surrounding the value have not yet been stripped off</td>
* <td>java.lang.Boolean</td>
* </tr>
* <tr>
* <td>versionHelpRequested</td>
* <td>{@code true}: version help was requested, {@code false}: version help was not
requested</td>
* <td>java.lang.Boolean</td>
* </tr>
* <tr>
* <td>usageHelpRequested</td>
* <td>{@code true}: usage help was requested, {@code false}: usage help was not requested</td>
* <td>java.lang.Boolean</td>
* </tr>
* </table>
* @returns true if the preprocessor consumed the parameter
* and picocli should skip further processing of the stack for this option or positional parameter;
* false if picocli should continue processing the stack for this option or positional parameter
* @throws ParameterException if the user input is invalid
*/

```

Found in path(s):

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## 1.143 asm 9.1

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\* /opt/cola/permits/1150153141\_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/ClassVisitor.java

# 1.144 bean-validation-api 2.0.1

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- Brian McCallister
- Martin Traverso
- Henning Schmiedehausen
- Jax Law
- maniax, for finding a nasty bug in named parameter substitution
- Robert Sfeir, for batch processing feature requests
- Henry Yandell, for `in` clause expansion feature request
- Patrick Burlinson, for showing that `DBIException` should extend `RuntimeException`
- Thomas Risberg, for the Spring `DataAccessException` wrapping code
- Simone Gianni, for finding and solving a nasty `setNull` bug
- Thomas Dudziak

# Jdbi 3

- Steven Schlansker
- Matthew Hall
- Artem Prigoda
- Marnick L'Eau

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## 1.147 system-stubs-core 2.0.1

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## 1.148 apiguardian-apiguardian-api 1.1.2

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# 1.149 junit-platform-junit-platform-commons

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# 1.151 javabeans-activation-framework-api

## 1.2.1

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* /opt/cola/permits/1331473860_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-
jar/io/micronaut/configuration/mongo/core/convert/StringToReadConcernConverter.java
* /opt/cola/permits/1331473860_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-
jar/io/micronaut/configuration/mongo/core/convert/MongoConverterRegistrar.java
* /opt/cola/permits/1331473860_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-
jar/io/micronaut/configuration/mongo/core/convert/StringToWriteConcernConverter.java
* /opt/cola/permits/1331473860_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-
jar/io/micronaut/configuration/mongo/core/MongoSettings.java
* /opt/cola/permits/1331473860_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-
jar/io/micronaut/configuration/mongo/core/test/AbstractMongoProcessFactory.java
* /opt/cola/permits/1331473860_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-
jar/io/micronaut/configuration/mongo/core/DefaultMongoConfiguration.java
* /opt/cola/permits/1331473860_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-
jar/io/micronaut/configuration/mongo/core/NamedMongoConfiguration.java
* /opt/cola/permits/1331473860_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-
jar/io/micronaut/configuration/mongo/core/AbstractMongoConfiguration.java
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## 1.155 error\_prone\_annotations 2.3.4

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\* /opt/cola/permits/1206718612\_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-jar/com/google/errorprone/annotations/concurrent/LockMethod.java  
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jar/com/google/errorprone/annotations/CompileTimeConstant.java  
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/**
 * Constructs a new { @link BasicInterpreter} for the latest ASM API version. <i>Subclasses must
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 * version.
 */
```

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/**
 * Constructs a new { @link SourceInterpreter} for the latest ASM API version. <i>Subclasses must
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 * version.
 */
```

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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/IgnoreJRERequirement.java

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Found in path(s):

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/Throwables.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/eventbus/AsyncEventBus.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/FinalizableWeakReference.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/io/Files.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/io/package-info.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/eventbus/EventBus.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/eventbus/AllowConcurrentEvents.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/Charsets.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/io/Resources.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/Predicates.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/HashBiMap.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/EnumMultiset.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-

jar/com/google/common/base/Functions.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/io/LittleEndianDataInputStream.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/eventbus/package-info.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/base/FinalizableReference.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/io/CountingOutputStream.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/util/concurrent/AbstractFuture.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/eventbus/Subscribe.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/eventbus/DeadEvent.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/io/ByteStreams.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/base/FinalizablePhantomReference.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/base/Defaults.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/base/Objects.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/io/Flushables.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/Interners.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/base/Suppliers.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/util/concurrent/package-info.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/primitives/Primitives.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/base/Preconditions.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/io/LittleEndianDataOutputStream.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/io/CharStreams.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/base/FinalizableReferenceQueue.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/base/package-info.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/io/Closeables.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/base/FinalizableSoftReference.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-

jar/com/google/common/io/LineBuffer.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/util/concurrent/ListenableFuture.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/base/Supplier.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/io/LineReader.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/util/concurrent/ExecutionList.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/base/Function.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/io/CountingInputStream.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/base/AbstractIterator.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/util/concurrent/DirectExecutor.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/io/MultiInputStream.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/base/Predicate.java  
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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/AbstractRangeSet.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/Count.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/ForwardingSortedMultiset.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-

```
jar/com/google/common/collect/SortedIterable.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/GeneralRange.java
```

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* the License.
*/
/**
* Holder for web specializations of methods of { @code Doubles}. Intended to be empty for regular
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/primitives/DoublesMethodsForWeb.java
```

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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/internal/Finalizer.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/thirdparty/publicsuffix/TrieParser.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/SequentialExecutor.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/CharMatcher.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/net/PercentEscaper.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/primitives/Doubles.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/Joiner.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/primitives/Booleans.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/Converter.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/primitives/Longs.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/primitives/Floats.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/primitives/Ints.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/FluentIterable.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/io/FileBackedOutputStream.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/escape/UnicodeEscaper.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/ListenableFutureTask.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/net/InetAddresses.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/primitives/Bytes.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/escape/Escaper.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/primitives/Chars.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/Stopwatch.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-

jar/com/google/common/io/MultiReader.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/primitives/Shorts.java  
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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/JdkBackedImmutableMultiset.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/JdkBackedImmutableSet.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/hash/ImmutableSupplier.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/util/concurrent/ExecutionSequencer.java  
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*/
/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
```



```
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
* following header:
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*/
```

Found in path(s):

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/Hashing.java
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*/
```

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```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ForwardingListMultimap.java
```

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/RowSortedTable.java
```

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ForwardingSortedSetMultimap.java
```

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/SortedMapDifference.java
```

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ForwardingImmutableCollection.java
```

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ForwardingSetMultimap.java
```

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/MinMaxPriorityQueue.java
```

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/AbstractSequentialIterator.java
```

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/UnmodifiableListIterator.java
```

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jar/com/google/common/eventbus/SubscriberRegistry.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/eventbus/Subscriber.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/eventbus/Dispatcher.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/base/MoreObjects.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/util/concurrent/ListenerCallQueue.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/math/Quantiles.java

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```
/*
 * This method was written by Doug Lea with assistance from members of JCP JSR-166 Expert Group
 * and released to the public domain, as explained at
 * http://creativecommons.org/licenses/publicdomain
 *
 * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
 * java.util.HashMap class.
 */
```

Found in path(s):

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/Striped.java
```

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```
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```

Found in path(s):

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/ServiceManagerBridge.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/Java8Usage.java
```

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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/io/BaseEncoding.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/reflect/package-info.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/CartesianList.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/math/PairedStats.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/RateLimiter.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/reflect/Element.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/xml/package-info.java  
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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/FilteredKeyMultimap.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/reflect/Parameter.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/hash/LongAddable.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/reflect/MutableTypeToInstanceMap.java  
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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableRangeMap.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/io/ByteSource.java  
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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/math/StatsAccumulator.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/cache/LongAddables.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/math/LinearTransformation.java

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jar/com/google/common/collect/GwtTransient.java  
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jar/com/google/common/util/concurrent/AtomicLongMap.java  
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jar/com/google/common/collect/TreeRangeMap.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/UnmodifiableSortedMultiset.java

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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/CompactHashSet.java

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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/EvictingQueue.java

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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/RegularImmutableAsList.java

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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/ForwardingSet.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/HashMultimap.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/Multiset.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/AbstractBiMap.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/NaturalOrdering.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/ForwardingList.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/UsingToStringOrdering.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/Iterators.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/ByFunctionOrdering.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/LexicographicalOrdering.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/ArrayListMultimap.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/BiMap.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/ForwardingMapEntry.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/ForwardingSortedSet.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-

jar/com/google/common/collect/CompoundOrdering.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/SortedSetMultimap.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/ExplicitOrdering.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/Ordering.java  
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jar/com/google/common/collect/ForwardingMultiset.java  
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jar/com/google/common/collect/CompactHashing.java  
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* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/io/MoreFiles.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ImmutableMapEntry.java
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*/
/**
* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
* under GWT but with a slightly different signature.
*
* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler wouldn't recognize
* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/Partially.java
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jar/com/google/common/eventbus/SubscriberExceptionHandler.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/base/Utf8.java

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jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/eventbus/SubscriberExceptionContext.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java

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jar/com/google/common/hash/HashingInputStream.java

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jar/com/google/common/base/Verify.java

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jar/com/google/common/collect/AbstractTable.java

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jar/com/google/common/util/concurrent/Runnables.java

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jar/com/google/common/reflect/TypeVisitor.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/io/CharSequenceReader.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/FilteredMultimapValues.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/base/VerifyException.java

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jar/com/google/common/collect/SparseImmutableTable.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/MapMakerInternalMap.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/html/HtmlEscapers.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/util/concurrent/ForwardingFuture.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/util/concurrent/JdkFutureAdapters.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/util/concurrent/ForwardingListenableFuture.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/annotations/GwtCompatible.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/net/InternetDomainName.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/net/HostSpecifier.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/escape/Escapers.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/annotations/GwtIncompatible.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/cache/ReferenceEntry.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/escape/ArrayBasedCharEscaper.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/escape/ArrayBasedEscaperMap.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/reflect/TypeResolver.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/io/LineProcessor.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/DenseImmutableTable.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/SettableFuture.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/Callables.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/net/UrlEscapers.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/Cut.java  
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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/MapMaker.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/io/ByteArrayDataInput.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/Platform.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/cache/CacheBuilder.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/AbstractService.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/RegularImmutableTable.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/xml/XmlEscapers.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/io/ByteProcessor.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/io/ByteArrayDataOutput.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/primitives/UnsignedBytes.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/Service.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/primitives/SignedBytes.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/AbstractIdleService.java  
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* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/io/Java8Compatibility.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/math/BigDecimalMath.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/hash/Java8Compatibility.java
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jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/TopKSelector.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/io/RecursiveDeleteOption.java
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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/PredecessorsFunction.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/Network.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/MutableGraph.java  
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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/SuccessorsFunction.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/ImmutableGraph.java

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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableSetMultimap.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableSortedMap.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/RegularImmutableList.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableEnumSet.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ComputationException.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-

jar/com/google/common/collect/ComparisonChain.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/RegularImmutableSortedSet.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/AbstractIndexedListAdapter.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/SingletonImmutableTable.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/ImmutableAsList.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/ArrayTable.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/ForwardingTable.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/EmptyImmutableSetMultimap.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/DiscreteDomain.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/ImmutableClassToInstanceMap.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/ImmutableTable.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/TableCollectors.java  
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jar/com/google/common/hash/LongAdder.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/util/concurrent/AtomicDoubleArray.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/cache/Striped64.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/StandardRowSortedTable.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableMap.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableBiMap.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/PeekingIterator.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableSortedSet.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableMultiset.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/UnmodifiableIterator.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/Range.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/RegularImmutableMap.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableListMultimap.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/CollectPreconditions.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableEntry.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableMultimap.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableCollection.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-

jar/com/google/common/collect/RegularImmutableBiMap.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/Tables.java  
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jar/com/google/common/collect/Collections2.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/EmptyImmutableListMultimap.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/Table.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/StandardTable.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/TreeBasedTable.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/HashBasedTable.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/ImmutableMapKeySet.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/SingletonImmutableBiMap.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/Serialization.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/ImmutableMapValues.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/ImmutableMapEntrySet.java  
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jar/com/google/common/graph/AbstractValueGraph.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/graph/ElementOrder.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/GraphConstants.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/ImmutableValueGraph.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/MapRetrievalCache.java

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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/DirectedMultiNetworkConnections.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/StandardMutableNetwork.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/StandardNetwork.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/NetworkConnections.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/MultiEdgesConnecting.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/GraphBuilder.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/MutableValueGraph.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/ForwardingNetwork.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/MoreCollectors.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/EndpointPair.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/DirectedGraphConnections.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/CollectCollectors.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/AbstractGraphBuilder.java

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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/AbstractNetwork.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/GraphConnections.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/NetworkBuilder.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/ValueGraphBuilder.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/ForwardingValueGraph.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/EdgesConnecting.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/MapIteratorCache.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/UndirectedGraphConnections.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/RangeGwtSerializationDependencies.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/ValueGraph.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/ForwardingGraph.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/StandardMutableValueGraph.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/EndpointPairIterator.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/UndirectedNetworkConnections.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/StandardMutableGraph.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/DirectedNetworkConnections.java

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- \* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/Traverser.java
- \* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/ClosingFuture.java

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- \* Holder for web specializations of methods of { @code Shorts }. Intended to be empty for regular
- \* version.

\*/

Found in path(s):

- \* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/primitives/ShortsMethodsForWeb.java

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*/
/**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
* version.
*/
```

Found in path(s):

```
*/opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
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- \* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/AsyncCallable.java
- \* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/io/ReaderInputStream.java
- \* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/InterruptibleTask.java
- \* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/AggregateFutureState.java
- \* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ConsumingQueueIterator.java
- \* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/hash/LittleEndianByteArray.java
- \* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/CombinedFuture.java
- \* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/hash/MacHashFunction.java

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- \*/

Found in path(s):

- \* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableSortedAsList.java

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```

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```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/SortedLists.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/annotations/package-info.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/annotations/Beta.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/Strings.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/Ascii.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ContiguousSet.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/net/package-
info.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/ListeningExecutorService.java
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 * the License.
```

```
*/
/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
 * following header:
 *
 * MurmurHash3 was written by Austin Appleby, and is placed in the public domain. The author
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 */
```

Found in path(s):

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/SmallCharMatcher.java
```

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 * the License.
```

```
*/
/**
 * Holder for web specializations of methods of { @code Ints }. Intended to be empty for regular
 * version.
 */
```

Found in path(s):

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/primitives/IntsMethodsForWeb.java

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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/reflect/Reflection.java

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\*/

/\*\*

\* Returns an array containing all of the elements in the specified collection. This method  
\* returns the elements in the order they are returned by the collection's iterator. The returned  
\* array is "safe" in that no references to it are maintained by the collection. The caller is  
\* thus free to modify the returned array.

\*

\* <p>This method assumes that the collection size doesn't change while the method is running.

\*

\* <p>TODO(kevinb): support concurrently modified collections?

\*  
\* @param c the collection for which to return an array of elements  
\*/

Found in path(s):

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ObjectArrays.java

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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/JdkBackedImmutableBiMap.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/JdkBackedImmutableMap.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/BaseImmutableMultimap.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/IndexedImmutableSet.java

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```
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*/
/**
 * Not supported. You are attempting to create a map that may contain a non-{@code Comparable}
 * key. Proper calls will resolve to the version in { @code ImmutableSortedMap}, not this dummy
 * version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated Pass a key of type { @code Comparable} to use { @link
 * ImmutableSortedMap#of(Comparable, Object)}.
 */
```

Found in path(s):

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/cache/RemovalListener.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/ExecutionError.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/cache/package-info.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/Uninterruptibles.java
```

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/cache/ForwardingCache.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/hash/Murmur3\_128HashFunction.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/cache/LoadingCache.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/hash/BloomFilterStrategies.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/cache/CacheLoader.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/reflect/Types.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/FutureCallback.java

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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/AbstractScheduledService.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/Optional.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/cache/RemovalCause.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/cache/CacheBuilderSpec.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/cache/AbstractCache.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/hash/HashFunction.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/BoundType.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/hash/AbstractHasher.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/Queues.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/hash/Hasher.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/Enums.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/RegularImmutableMultiset.java



\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/primitives/UnsignedLong.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/math/package-info.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/hash/BloomFilter.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/WrappingExecutorService.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/hash/HashCode.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/cache/RemovalNotification.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/math/BigIntegerMath.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/UncheckedExecutionException.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/hash/AbstractCompositeHashFunction.java  
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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/AsyncFunction.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/net/HttpHeaders.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/math/IntMath.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/cache/RemovalListeners.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/hash/MessageDigestHashFunction.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/hash/Crc32cHashFunction.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/cache/Cache.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/AbstractSortedMultiset.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/primitives/UnsignedInteger.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/primitives/UnsignedLongs.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/primitives/ParseRequest.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/cache/AbstractLoadingCache.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/math/DoubleMath.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/Absent.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/hash/AbstractStreamingHasher.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/cache/CacheStats.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/FunctionalEquivalence.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/cache/ForwardingLoadingCache.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/TreeRangeSet.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/hash/Funnels.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/Present.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/Ticker.java  
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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/math/DoubleUtils.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/net/MediaType.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/PairwiseEquivalence.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/hash/HashingOutputStream.java  
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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/math/LongMath.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/hash/Hashing.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/EmptyContiguousSet.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/math/MathPreconditions.java

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/\*  
\* This following method is a modified version of one found in  
\* <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30>  
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Found in path(s):

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/util/concurrent/MoreExecutors.java

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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/CommonMatcher.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/PatternCompiler.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/CommonPattern.java

\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/JdkPattern.java

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\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/FuturesGetChecked.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/AggregateFuture.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/CaseFormat.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/annotations/VisibleForTesting.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/Futures.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/AbstractTransformFuture.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/escape/CharEscaperBuilder.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/TimeoutFuture.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/FakeTimeLimiter.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/escape/CharEscaper.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/FluentFuture.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/TimeLimiter.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/reflect/TypeToken.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/io/PatternFilenameFilter.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/ImmediateFuture.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java  
\* /opt/cola/permits/1162863591\_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/CollectionFuture.java

## 1.164 micronaut-email 1.2.0

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Found in path(s):

```
* /opt/cola/permits/1340031375_1654618487.6340535/0/micronaut-email-1-2-0-sources-
jar/io/micronaut/email/StringBody.java
* /opt/cola/permits/1340031375_1654618487.6340535/0/micronaut-email-1-2-0-sources-
jar/io/micronaut/email/EmailDecorator.java
* /opt/cola/permits/1340031375_1654618487.6340535/0/micronaut-email-1-2-0-sources-
jar/io/micronaut/email/DefaultAsyncEmailSender.java
* /opt/cola/permits/1340031375_1654618487.6340535/0/micronaut-email-1-2-0-sources-
jar/io/micronaut/email/FromDecorator.java
* /opt/cola/permits/1340031375_1654618487.6340535/0/micronaut-email-1-2-0-sources-
jar/io/micronaut/email/validation/RecipientsUtils.java
* /opt/cola/permits/1340031375_1654618487.6340535/0/micronaut-email-1-2-0-sources-
jar/io/micronaut/email/Email.java
* /opt/cola/permits/1340031375_1654618487.6340535/0/micronaut-email-1-2-0-sources-
jar/io/micronaut/email/EmailSender.java
* /opt/cola/permits/1340031375_1654618487.6340535/0/micronaut-email-1-2-0-sources-
jar/io/micronaut/email/Attachment.java
* /opt/cola/permits/1340031375_1654618487.6340535/0/micronaut-email-1-2-0-sources-
jar/io/micronaut/email/validation/AnyRecipient.java
* /opt/cola/permits/1340031375_1654618487.6340535/0/micronaut-email-1-2-0-sources-
jar/io/micronaut/email/DefaultEmailSender.java
* /opt/cola/permits/1340031375_1654618487.6340535/0/micronaut-email-1-2-0-sources-
jar/io/micronaut/email/configuration/FromConfigurationProperties.java
* /opt/cola/permits/1340031375_1654618487.6340535/0/micronaut-email-1-2-0-sources-
jar/io/micronaut/email/MultipartBody.java
* /opt/cola/permits/1340031375_1654618487.6340535/0/micronaut-email-1-2-0-sources-
jar/io/micronaut/email/validation/AnyRecipientConstraintValidatorFactory.java
* /opt/cola/permits/1340031375_1654618487.6340535/0/micronaut-email-1-2-0-sources-
jar/io/micronaut/email/EmailException.java
```

\* /opt/cola/permits/1340031375\_1654618487.6340535/0/micronaut-email-1-2-0-sources-jar/io/micronaut/email/BodyType.java  
\* /opt/cola/permits/1340031375\_1654618487.6340535/0/micronaut-email-1-2-0-sources-jar/io/micronaut/email/Body.java  
\* /opt/cola/permits/1340031375\_1654618487.6340535/0/micronaut-email-1-2-0-sources-jar/io/micronaut/email/TransactionalEmailSender.java  
\* /opt/cola/permits/1340031375\_1654618487.6340535/0/micronaut-email-1-2-0-sources-jar/io/micronaut/email/TrackLinks.java  
\* /opt/cola/permits/1340031375\_1654618487.6340535/0/micronaut-email-1-2-0-sources-jar/io/micronaut/email/Contact.java  
\* /opt/cola/permits/1340031375\_1654618487.6340535/0/micronaut-email-1-2-0-sources-jar/io/micronaut/email/AsyncTransactionalEmailSender.java  
\* /opt/cola/permits/1340031375\_1654618487.6340535/0/micronaut-email-1-2-0-sources-jar/io/micronaut/email/validation/Recipients.java  
\* /opt/cola/permits/1340031375\_1654618487.6340535/0/micronaut-email-1-2-0-sources-jar/io/micronaut/email/configuration/FromConfiguration.java  
\* /opt/cola/permits/1340031375\_1654618487.6340535/0/micronaut-email-1-2-0-sources-jar/io/micronaut/email/EmailComposer.java  
\* /opt/cola/permits/1340031375\_1654618487.6340535/0/micronaut-email-1-2-0-sources-jar/io/micronaut/email/AsyncEmailSender.java  
\* /opt/cola/permits/1340031375\_1654618487.6340535/0/micronaut-email-1-2-0-sources-jar/io/micronaut/email/AbstractTransactionalEmailSender.java  
\* /opt/cola/permits/1340031375\_1654618487.6340535/0/micronaut-email-1-2-0-sources-jar/io/micronaut/email/validation/EmailMessages.java

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