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AppDynamics_Cloud_Topology_Schema_Service 22.6.0

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   /opt/cola/permits/1274705121_1645234458.01/0/vavr-0-9-2-sources-jar/io/vavr/collection/Multimaps.java
   /opt/cola/permits/1274705121_1645234458.01/0/vavr-0-9-2-sources-jar/io/vavr/control/Try.java
   /opt/cola/permits/1274705121_1645234458.01/0/vavr-0-9-2-sources-jar/io/vavr/collection/TreeSet.java
   /opt/cola/permits/1274705121_1645234458.01/0/vavr-0-9-2-sources-jar/io/vavr/collection/HashMap.java
   /opt/cola/permits/1274705121_1645234458.01/0/vavr-0-9-2-sources-jar/io/vavr/collection/HashSet.java
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   /opt/cola/permits/1274705121_1645234458.01/0/vavr-0-9-2-sources-jar/io/vavr/collection/AbstractIterator.java
   /opt/cola/permits/1274705121_1645234458.01/0/vavr-0-9-2-sources-jar/io/vavr/collection/HashArrayMappedTrie.java
   /opt/cola/permits/1274705121_1645234458.01/0/vavr-0-9-2-sources-jar/io/vavr/collection/CharSeq.java
   /opt/cola/permits/1274705121_1645234458.01/0/vavr-0-9-2-sources-jar/io/vavr/collection/Traversable.java
   /opt/cola/permits/1274705121_1645234458.01/0/vavr-0-9-2-sources-jar/io/vavr/collection/Map.java
1.5 swagger-models 1.6.2

1.5.1 Available under license:

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

package io.swagger.models;

import com.fasterxml.jackson.annotation.JsonAnyGetter;
import com.fasterxml.jackson.annotation.JsonAnySetter;
import java.util.LinkedHashMap;
import java.util.Map;
public class License {
    private Map<String, Object> vendorExtensions = new LinkedHashMap<String, Object>();
    private String name;
    private String url;

    public License name(String name) {
        setName(name);
        return this;
    }

    public License url(String url) {
        setUrl(url);
        return this;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getUrl() {
return url;
}

public void setUrl(String url) {
    this.url = url;
}

@JsonAnyGetter
public Map<String, Object> getVendorExtensions() {
    return vendorExtensions;
}

@JsonAnySetter
public void setVendorExtension(String name, Object value) {
    if (name.startsWith("x-")) {
        vendorExtensions.put(name, value);
    }
}

public void setVendorExtensions(Map<String, Object> vendorExtensions) {
    this.vendorExtensions = vendorExtensions;
}

@Override
public int hashCode() {
    final int prime = 31;
    int result = 1;
    result = prime * result + ((name == null) ? 0 : name.hashCode());
    result = prime * result + ((url == null) ? 0 : url.hashCode());
    result = prime * result + ((vendorExtensions == null) ? 0 : vendorExtensions.hashCode());
    return result;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    License other = (License) obj;
    if (name == null) {
        if (other.name != null) {
            return false;
        }
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    License other = (License) obj;
    if (name == null) {
        if (other.name != null) {
            return false;
        }
    }
    return true;
}
Found in path(s):
* /opt/cola/permits/1340031769_1654618404.1267035/0/swagger-models-1-6-2-sources-1-jar/io/swagger/models/License.java
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package io.swagger.models;

import com.fasterxml.jackson.annotation.JsonAnyGetter;
import com.fasterxml.jackson.annotation.JsonAnySetter;
import java.util.LinkedHashMap;
import java.util.Map;

public class Info {
    private String description;
    private String version;
    private String title;
    private String termsOfService;
    private Contact contact;
    private License license;
    private Map<String, Object> vendorExtensions = new LinkedHashMap<String, Object>();

    public Info version(String version) {
        this.setVersion(version);
        return this;
    }
}
public Info title(String title) {
    this.setTitle(title);
    return this;
}

public Info description(String description) {
    this.setDescription(description);
    return this;
}

public Info termsOfService(String termsOfService) {
    this.setTermsOfService(termsOfService);
    return this;
}

public Info contact(Contact contact) {
    this.setContact(contact);
    return this;
}

public Info license(License license) {
    this.setLicense(license);
    return this;
}

public String getDescription() {
    return description;
}

public void setDescription(String description) {
    this.description = description;
}

public String getVersion() {
    return version;
}

public void setVersion(String version) {
    this.version = version;
}

public String getTitle() {
    return title;
}

public void setTitle(String title) {
    this.title = title;
}
public String getTermsOfService() {
    return termsOfService;
}

public void setTermsOfService(String termsOfService) {
    this.termsOfService = termsOfService;
}

public Contact getContact() {
    return contact;
}

public void setContact(Contact contact) {
    this.contact = contact;
}

public License getLicense() {
    return license;
}

public void setLicense(License license) {
    this.license = license;
}

public Info mergeWith(Info info) {
    if (info != null) {
        if (this.description == null) {
            this.description = info.description;
        }
        if (this.version == null) {
            this.version = info.version;
        }
        if (this.title == null) {
            this.title = info.title;
        }
        if (this.termsOfService == null) {
            this.termsOfService = info.termsOfService;
        }
        if (this.contact == null) {
            this.contact = info.contact;
        }
        if (this.license == null) {
            this.license = info.license;
        }
        if (this.vendorExtensions == null) {
            this.vendorExtensions = info.vendorExtensions;
        }
    }
    return this;
}
@JsonAnyGetter
public Map<String, Object> getVendorExtensions() {
    return vendorExtensions;
}

@JsonAnySetter
public void setVendorExtension(String name, Object value) {
    if (name.startsWith("x-")) {
        vendorExtensions.put(name, value);
    }
}

public void setVendorExtensions(Map<String, Object> vendorExtensions) {
    this.vendorExtensions = vendorExtensions;
}

@Override
public int hashCode() {
    final int prime = 31;
    int result = 1;
    result = prime * result + ((contact == null) ? 0 : contact.hashCode());
    result = prime * result + ((description == null) ? 0 : description.hashCode());
    result = prime * result + ((license == null) ? 0 : license.hashCode());
    result = prime * result + ((termsOfService == null) ? 0 : termsOfService.hashCode());
    result = prime * result + ((title == null) ? 0 : title.hashCode());
    result = prime * result + ((vendorExtensions == null) ? 0 : vendorExtensions.hashCode());
    result = prime * result + ((version == null) ? 0 : version.hashCode());
    return result;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    if (this != obj) {
        return false;
    }
    if (this == obj) {
        return true;
    }
    if (contact == null) {
        if (obj.contact != null) {
            return false;
        }
    } else if (!contact.equals(obj.contact)) {
        return false;
    }
    if (description == null) {
        if (obj.description != null) {
            return false;
        }
    } else if (!description.equals(obj.description)) {
        return false;
    }
    if (license == null) {
        if (obj.license != null) {
            return false;
        }
    } else if (!license.equals(obj.license)) {
        return false;
    }
    if (termsOfService == null) {
        if (obj.termsOfService != null) {
            return false;
        }
    } else if (!termsOfService.equals(obj.termsOfService)) {
        return false;
    }
    if (title == null) {
        if (obj.title != null) {
            return false;
        }
    } else if (!title.equals(obj.title)) {
        return false;
    }
    if (vendorExtensions == null) {
        if (obj.vendorExtensions != null) {
            return false;
        }
    } else if (!vendorExtensions.equals(obj.vendorExtensions)) {
        return false;
    }
    if (version == null) {
        if (obj.version != null) {
            return false;
        }
    } else if (!version.equals(obj.version)) {
        return false;
    }
    return true;
}

public String toString() {
    return "AppDynamics Software License [contact: " + contact + ", description: " + description + ",
    license: " + license + ", termsOfService: " + termsOfService + ", title: " + title + ",
    vendorExtensions: " + vendorExtensions + ", version: " + version + "]
}

public static void main(String[] args) {
    AppDynamicsSoftwareLicense license = new AppDynamicsSoftwareLicense()
    .setContact("John Doe")
    .setDescription("Example description")
    .setLicense("Example license")
    .setTermsOfService("Example terms of service")
    .setTitle("Example title")
    .setVendorExtensions(new HashMap<String, Object>()
        .put("x-example", "Example extension"));
    System.out.println(license.toString());
}
Info other = (Info) obj;
if (contact == null) {
    if (other.contact != null) {
        return false;
    }
} else if (!contact.equals(other.contact)) {
    return false;
}
if (description == null) {
    if (other.description != null) {
        return false;
    }
} else if (!description.equals(other.description)) {
    return false;
}
if (license == null) {
    if (other.license != null) {
        return false;
    }
} else if (!license.equals(other.license)) {
    return false;
}
if (termsOfService == null) {
    if (other.termsOfService != null) {
        return false;
    }
} else if (!termsOfService.equals(other.termsOfService)) {
    return false;
}
if (title == null) {
    if (other.title != null) {
        return false;
    }
} else if (!title.equals(other.title)) {
    return false;
}
if (vendorExtensions == null) {
    if (other.vendorExtensions != null) {
        return false;
    }
} else if (!vendorExtensions.equals(other.vendorExtensions)) {
    return false;
}
if (version == null) {
    if (other.version != null) {
        return false;
    }
}
} else if (!version.equals(other.version)) {
    return false;
} else {
    return true;
}

Found in path(s):
* /opt/cola/permits/1340031769_1654618404.1267035/0/swagger-models-1-6-2-sources-1-
  jar/io/swagger/models/Info.java

1.6 swagger-core 2.1.6
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1.8 osgi-resource-locator-bundle 1.0.3

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1.9 hk2-api-module 2.6.1

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1.10 slf4j-api-module 1.7.32

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1.11 wire-protocol-buffer-runtime 3.6.0

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1.13 jersey-ext-entity-filtering 2.35
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* /opt/cola/permits/1206718612_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-jar/com/google/errorprone/annotations/MustBeClosed.java

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* /opt/cola/permits/1206718612_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-jar/com/google/errorprone/annotations/ForOverride.java
* /opt/cola/permits/1206718612_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-jar/com/google/errorprone/annotations/IncompatibleModifiers.java
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1.16 dropwizard-configuration-support 2.0.25

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1.18 jackson-module-afterburner 2.10.3

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1.20 jersey-container-servlet-core 2.35

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1.29 jackson-datatype-jdk8 2.10.5

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Manifest-Version: 1.0
Bnd-LastModified: 1595301005506
Build-Jdk: 1.8.0_162
Built-By: tatu
Bundle-Description: Add-on module for Jackson (http://jackson.codehaus.org) to support JDK 8 data types.
Bundle-DocURL: https://github.com/FasterXML/jackson-modules-java8/jackson-datatype-jdk8
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Jackson datatype: jdk8
Bundle-SymbolicName: com.fasterxml.jackson.datatype.jackson-datatype-jdk8
Bundle-Vendor: FasterXML
Bundle-Version: 2.10.5
Created-By: Apache Maven Bundle Plugin
Export-Package: com.fasterxml.jackson.datatype.jdk8;version="2.10.5";uses:="com.fasterxml.jackson.core,com.fasterxml.jackson.core.io,com.fasterxml.jackson.databind,com.fasterxml.jackson.databind.deser,com.fasterxml.jackson.databind.jsr310"
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1.35 feign-core 8.18.0
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* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/SynchronousMethodHandler.java
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* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/codec/ErrorDecoder.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/Contract.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/codec/EncodingException.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/Request.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/RequestInterceptor.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/auth/Base64.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/Util.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/RequestTemplate.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/Client.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/codec/StringDecoder.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/codec/DecodeException.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/Target.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/auth/BasicAuthRequestInterceptor.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/RetryableException.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/Logger.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/ReflectiveFeign.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/Retryer.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/Feign.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/MethodMetadata.java

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1.36 open-telemetery/opentelemetery-java 1.6.0

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* /opt/cola/permits/1310721497_1650631670.66/0/opentelemetry-exporter-otlp-common-1-6-0-sources-
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* /opt/cola/permits/1310721497_1650631670.66/0/opentelemetry-exporter-otlp-common-1-6-0-sources-
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Open Source Used In AppDynamics_Cloud_Topology_Schema_Service 22.6.0 198

1.37 protobuf-java-format 1.2

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1.38 netty-project 4.1.72

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Manifest-Version: 1.0
Implementation-Title: Netty/Handler/Proxy
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.handler.proxy
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.handler-proxy
Implementation-Version: 4.1.72.Final
Built-By: root
Bnd-LastModified: 1639393488770
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: io.netty.buffer;version="[4.1,5)";io.netty.channel;version="[4.1,5)";io.netty.handler.codec.base64;version="[4.1,5)";io.netty.handler.codec.http;version="[4.1,5)";io.netty.handler.codec.socksx.v4;version="[4.1,5)";io.netty.handler.codec.socksx.v5;version="[4.1,5)";io.netty.util;version="[4.1,5)";io.netty.util.concurrent;version="[4.1,5)";io.netty.util.internal;version="[4.1,5)";io.netty.util.internal.logging;version="[4.1,5)";sun.nio.ch;resolution:=optional;org.eclipse.jetty.npn;version="[1,2)";resolution:=optional;org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_312
Implementation-URL: https://netty.io/netty-handler-proxy/

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1.39 jdbi-sqlobject 3.27.2
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* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-jar/org/jdbi/v3/sqlobject/statement/internal/SqlUpdateHandler.java
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1.40 bean-validation-api 2.0.2

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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
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The original XML Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd
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1.46 jetbrains-kotlin-kotlin-stdlib-jdk7 1.4.10

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1.47 json-schema-core 1.2.14

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## Fabio Di Fabio

* Allow to disable schema caching (except for preloaded schemas)

## Randy Watler

* Support for reading schemas from non standard JSON (comments etc).

## Matt Bishop

* OSGi support for Maven (now deprecated).

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1.48 kafka-schema-registry-client 5.5.5

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```xml
<project xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://maven.apache.org/POM/4.0.0"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>

  <parent>
    <groupId>io.confluent</groupId>
    <artifactId>kafka-schema-registry-parent</artifactId>
    <version>5.5.5</version>
  </parent>

  <licenses>
    <license>
      <name>Apache License 2.0</name>
      <url>http://www.apache.org/licenses/LICENSE-2.0.html</url>
      <distribution>repo</distribution>
    </license>
  </licenses>

  <artifactId>kafka-schema-registry-client</artifactId>
  <packaging>jar</packaging>
  <name>kafka-schema-registry-client</name>

  <dependencies>
    <dependency>
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      <artifactId>kafka-clients</artifactId>
    </dependency>
    <dependency>
      <groupId>io.confluent</groupId>
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    <dependency>
      <groupId>org.apache.avro</groupId>
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    </dependency>
    <dependency>
      <groupId>com.fasterxml.jackson.core</groupId>
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  </dependencies>
</project>
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<dependencies>
  <dependency>
    <groupId>jakarta.ws.rs</groupId>
    <artifactId>jakarta.ws.rs-api</artifactId>
  </dependency>
  <dependency>
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    <artifactId>jersey-common</artifactId>
    <version>${jersey.version}</version>
  </dependency>
  <dependency>
    <groupId>org.easymock</groupId>
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  </dependency>
  <dependency>
    <groupId>org.powermock</groupId>
    <artifactId>powermock-module-junit4</artifactId>
    <scope>test</scope>
  </dependency>
  <dependency>
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    <artifactId>powermock-api-easymock</artifactId>
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  </dependency>
  <dependency>
    <groupId>junit</groupId>
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  </dependency>
  <dependency>
    <groupId>io.swagger</groupId>
    <artifactId>swagger-annotations</artifactId>
  </dependency>
  <dependency>
    <groupId>com.google.guava</groupId>
    <artifactId>guava</artifactId>
    <scope>test</scope>
  </dependency>
</dependencies>

Found in path(s):
1.49 snappy-java 1.1.8.1

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* Alec Wysoker
* Performance and memory usage improvement

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1.50 io-swagger-swagger-annotations 2.1.6
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Manifest-Version: 1.0
Automatic-Module-Name: io.swagger.v3.oas.annotations
Bnd-LastModified: 1607101094164
Build-Jdk: 1.8.0_275
Built-By: runner
Bundle-Description: swagger-annotations
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: swagger-annotations
Bundle-SymbolicName: io.swagger.core.v3.swagger-annotations
Bundle-Version: 2.1.6
1.51 metrics-core 4.1.25
1.51.1 Available under license:
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1.52 java-servlet-api 4.0.3
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* /opt/cola/permits/1341639896_1654810863.4836817/0/jakarta-servlet-api-4-0-3-sources-1-jar/javax/servlet/descriptor/package.html
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 */
/**
 * Constructor to establish non-empty getRolesAllowed and/or <tt>TransportGuarantee.CONFIDENTIAL</tt>.  
 * @param guarantee <tt>TransportGuarantee.NONE</tt> or <tt>TransportGuarantee.CONFIDENTIAL</tt>
 * @param roleNames the names of the roles that are to be allowed access
 */

Found in path(s):
* /opt/cola/permits/1341639896_1654810863.4836817/0/jakarta-servlet-api-4-0-3-sources-1-jar/javax/servlet/HttpConstraintElement.java
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* /opt/cola/permits/1341639896_1654810863.4836817/0/jakarta-servlet-api-4-0-3-sources-1-jar/javax/servlet/package.html

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* /opt/cola/permits/1341639896_1654810863.4836817/0/jakarta-servlet-api-4-0-3-sources-1-jar/javax/servlet/HttpUtils.java
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* /opt/cola/permits/1341639896_1654810863.4836817/0/jakarta-servlet-api-4-0-3-sources-1-jar/javax/servlet/ServletContextAttributeListener.java
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jar/javax/servlet/annotation/package.html

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jar/javax/servlet/annotation/HandlesTypes.java
* /opt/cola/permits/1341639896_1654810863.4836817/0/jakarta-servlet-api-4-0-3-sources-1-
jar/javax/servlet/annotation/WebInitParam.java
* /opt/cola/permits/1341639896_1654810863.4836817/0/jakarta-servlet-api-4-0-3-sources-1-
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* /opt/cola/permits/1341639896_1654810863.4836817/0/jakarta-servlet-api-4-0-3-sources-1-
jar/javax/servlet/ServletRegistration.java
* /opt/cola/permits/1341639896_1654810863.4836817/0/jakarta-servlet-api-4-0-3-sources-1-
jar/javax/servlet/annotation/WebListener.java
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jar/javax/servlet/LocalStrings_ja.properties
* /opt/cola/permits/1341639896_1654810863.4836817/0/jakarta-servlet-api-4-0-3-sources-1-
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1.54 javax-ws-rs-api 2.1

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1.55 jvm-integration-for-metrics 4.1.25

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jvm
Build-Jdk: 1.8.0_292
Built-By: runner
Bundle-Description: A set of classes which allow you to monitor critical aspects of your Java Virtual Machine using Metrics.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: JVM Integration for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.jvm
Bundle-Version: 4.1.25
Created-By: Apache Maven Bundle Plugin
Export-Package: com.codahale.metrics.jvm;uses="com.codahale.metrics,javax.management";version="4.1.25"
Implementation-Title: JVM Integration for Metrics
Implementation-URL: https://metrics.dropwizard.io/metrics-jvm
Implementation-Vendor-Id: io.dropwizard.metrics
Implementation-Version: 4.1.25
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",javax.management.resolution=optional,com.codahale.metrics;version="[4.1,5)",javax.management
Private-Package: com.codahale.metrics.jvm
1.56 jcommander-library 1.72

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 */
1.57 kafka-avro-serializer 5.5.5

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          </configuration>
        </execution>
      </executions>
    </plugin>
  </plugins>
</build>

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1.60 couchbase-jvm-core-io 1.7.18

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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.
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### 1.61 io-swagger-swagger-annotations 1.6.2

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Manifest-Version: 1.0
Bnd-LastModified: 1593602041104
Build-Jdk: 1.8.0_151
Built-By: frantuma
Bundle-Description: Sonatype helps open source projects to set up Maven repositories on https://oss.sonatype.org/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: swagger-annotations
Bundle-SymbolicName: io.swagger.annotations
Bundle-Version: 1.6.2
Created-By: Apache Maven Bundle Plugin
Export-Package: io.swagger.annotations;version="1.6.2"
implementation-version: 1.6.2
mode: development
package: io.swagger
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.3.0.201609221906
url: https://github.com/swagger-api/swagger-core/modules/swagger-annotations

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* /opt/cola/permits/1170799104_1654737045.2729578/0/swagger-annotations-1-6-2-jar/META-INF/MANIFEST.MF

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* /opt/cola/permits/1341639818_1654816582.0388222/0/common-config-5-5-5-jar/META-INF/maven/io.confluent/common-config/pom.xml

1.64 google-guice 4.2.2
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1.66 commons-logging 1.2

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1.67 libphonenumber v8.11.1

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: kkeshava
Build-Jdk: 9.0.4
Bnd-LastModified: 1575993219283
Bundle-Description: Google's common Java library for parsing, formatti
g, storing and validating international phone numbers. Optimized
for running on smartphones.
Bundle-DocURL: http://www.google.com/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: libphonenumber
Bundle-SymbolicName: com.googlecode.libphonenumber
Bundle-Vendor: Google
Bundle-Version: 8.11.1
Export-Package: com.google.i18n.phonenumbers;version="8.11.1"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-3.2.0.201605172007

Found in path(s):
* /opt/cola/permits/1340076228_1654760359.799498/0/libphonenumber-8-11-1.jar/META-INF/MANIFEST.MF
1.68 cloudevents---kafka-transport-binding

2.1.1

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* /opt/cola/permits/1337069740_1654221784.6351657/0/cloudevents-kafka-2-1-1-jar/META-INF/maven/io.cloudevents/cloudevents-kafka/pom.xml

1.69 hamcrest v2.2

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1.70 jdbi-guava-integration 3.21.0

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jar/org/jdbi/v3/guava/GuavaCollectors.java
* /opt/cola/permits/1341639914_1654808816.3083324/0/jdbi3-guava-3-21-0-sources-
jar/org/jdbi/v3/guava/GuavaArguments.java
* /opt/cola/permits/1341639914_1654808816.3083324/0/jdbi3-guava-3-21-0-sources-
jar/org/jdbi/v3/guava/codec/TypeResolvingCodecFactory.java
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INF/maven/org.jdbi/jdbi3-guava/pom.xml

1.71 asm 7.1
1.72 jackson-coreutils-equivalence 1.0

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  jar/com/github/fge/jackson/JsonNumEquivalence.java

1.73 netty-transport-native-unix-common

4.1.72.Final

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* /opt/cola/permits/1341130306_1654757843.8643026/0/netty-transport-native_unix-common-4-1-72-final-sources-1-jar/io/netty/channel/unix/package-info.java
* /opt/cola/permits/1341130306_1654757843.8643026/0/netty-transport-native- unix-common-4-1-72-final-sources-1-jar/io/netty/channel/unix/Unix.java
* /opt/cola/permits/1341130306_1654757843.8643026/0/netty-transport-native- unix-common-4-1-72-final-sources-1-jar/io/netty/channel/unix/UnixChannelOption.java
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* /opt/cola/permits/1341130306_1654757843.8643026/0/netty-transport-native- unix-common-4-1-72-final-sources-1-jar/io/netty/channel/unix/DomainDatagramPacket.java
* /opt/cola/permits/1341130306_1654757843.8643026/0/netty-transport-native- unix-common-4-1-72-final-sources-1-jar/io/netty/channel/unix/DomainDatagramSocketAddress.java
* /opt/cola/permits/1341130306_1654757843.8643026/0/netty-transport-native- unix-common-4-1-72-final-sources-1-jar/io/netty/channel/unix/DomainDatagramPacket.java
* /opt/cola/permits/1341130306_1654757843.8643026/0/netty-transport-native- unix-common-4-1-72-final-sources-1-jar/io/netty/channel/unix/SegmentedDatagramPacket.java
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* /opt/cola/permits/1341130306_1654757843.8643026/0/netty-transport-native-unix-common-4-1-72-final-sources-1-jar/io/netty/channel/unix/DomainSocketAddress.java
* /opt/cola/permits/1341130306_1654757843.8643026/0/netty-transport-native-unix-common-4-1-72-final-sources-1-jar/netty_unix_filedescriptor.c
* /opt/cola/permits/1341130306_1654757843.8643026/0/netty-transport-native-unix-common-4-1-72-final-sources-1-jar/netty_unix_errors.c
* /opt/cola/permits/1341130306_1654757843.8643026/0/netty-transport-native-unix-common-4-1-72-final-sources-1-jar/netty_unix_errors.h
* /opt/cola/permits/1341130306_1654757843.8643026/0/netty-transport-native-unix-common-4-1-72-final-sources-
1-jar/netty_unix_filedescriptor.h
* /opt/cola/permits/1341130306_1654757843.8643026/0/netty-transport-native-unix-common-4-1-72-final-sources-1-jar/io/netty/channel/unix/DomainSocketChannel.java
* /opt/cola/permits/1341130306_1654757843.8643026/0/netty-transport-native-unix-common-4-1-72-final-sources-1-jar/netty_unix_socket.h
* /opt/cola/permits/1341130306_1654757843.8643026/0/netty-transport-native-unix-common-4-1-72-final-sources-1-jar/io/netty/channel/unix/DomainSocketReadMode.java
* /opt/cola/permits/1341130306_1654757843.8643026/0/netty-transport-native-unix-common-4-1-72-final-sources-1-jar/io/netty/channel/unix/Socket.java
* /opt/cola/permits/1341130306_1654757843.8643026/0/netty-transport-native-unix-common-4-1-72-final-sources-1-jar/io/netty/channel/unix/Errors.java
* /opt/cola/permits/1341130306_1654757843.8643026/0/netty-transport-native-unix-common-4-1-72-final-sources-1-jar/io/netty/channel/unix/UnixChannel.java
* /opt/cola/permits/1341130306_1654757843.8643026/0/netty-transport-native-unix-common-4-1-72-final-sources-1-jar/netty_unix_socket.c
* /opt/cola/permits/1341130306_1654757843.8643026/0/netty-transport-native-unix-common-4-1-72-final-sources-1-jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /opt/cola/permits/1341130306_1654757843.8643026/0/netty-transport-native-unix-common-4-1-72-final-sources-1-jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /opt/cola/permits/1341130306_1654757843.8643026/0/netty-transport-native-unix-common-4-1-72-final-sources-1-jar/io/netty/channel/unix/DatagramSocketAddress.java
* /opt/cola/permits/1341130306_1654757843.8643026/0/netty-transport-native-unix-common-4-1-72-final-sources-1-jar/io/netty/channel/unix/FileDescriptor.java

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* /opt/cola/permits/1341130306_1654757843.8643026/0/netty-transport-native-unix-common-4-1-72-final-sources-1-jar/netty_unix_buffer.c
* /opt/cola/permits/1341130306_1654757843.8643026/0/netty-transport-native-unix-common-4-1-72-final-sources-1-jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java
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* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
  jar/com/couchbase/client/java/search/queries/MatchPhraseQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
  jar/com/couchbase/client/java/auth/Credential.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
  jar/com/couchbase/client/java/query/dsl/path/DefaultMergeInsertPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
  jar/com/couchbase/client/java/query/dsl/path/DefaultMergeUpdateUnsetPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
  jar/com/couchbase/client/java/query/N1qlQueryResult.java
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  jar/com/couchbase/client/java/query/dsl/path/OffsetPath.java
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  jar/com/couchbase/client/java/util/LRUCache.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
  jar/com/couchbase/client/java/query/dsl/path/index/UsingWithPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
  jar/com/couchbase/client/java/query/dsl/path/MergeUpdateUnsetPath.java
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  jar/com/couchbase/client/java/error/ViewDoesNotExistException.java
jar/com/couchbase/client/java/query/utill/IndexInfo.java
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* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/query/dsl/path/WherePath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/search/result/hits/HitLocation.java
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1.75 asm 9.1

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1.76 jackson-dataformat-yaml 2.13.2

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1.78 jackson-module-afterburner 2.11.2

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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, as well as supported commercially by FasterXML.com.

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1.88 caffeine-cache 2.9.2

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1.89 metrics-health-checks 4.1.11
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Manifest-Version: 1.0
Build-Jdk-Spec: 1.8
Bundle-Description: An addition to Metrics which provides the ability to run application-specific health checks, allowing you to check your application's health in production.
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Bundle-ManifestVersion: 2
Bundle-Name: Metrics Health Checks
Bundle-SymbolicName: io.dropwizard.metrics.healthchecks
Bundle-Version: 4.1.11
Created-By: Apache Maven Bundle Plugin
Implementation-Title: Metrics Health Checks
Implementation-Version: 4.1.11
Import-Package: com.codahale.metrics;resolution:=optional;version="[4.1,5)",com.codahale.metrics.health,com.codahale.metrics.health.annotation,com.codahale.metrics.jvm;resolution:=optional;version="[4.1,5)",org.slf4j;version="[1.6.0,2.0.0)"
Require-Capability: osgi.ee;filter:="(&osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

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Amendment III

No soldier shall, in time of peace be quartered in any house, without the consent of the owner, nor in time of war,
but in a manner to be prescribed by law.

Amendment IV

The right of the people to be secure in their persons, houses, papers, and effects, against unreasonable searches and
seizures, shall not be violated, and no warrants shall issue, but upon probable cause, supported by oath or
affirmation, and particularly describing the place to be searched, and the persons or things to be seized.

Amendment V

No person shall be held to answer for a capital, or otherwise infamous crime, unless on a presentment or indictment
of a grand jury, except in cases arising in the land or naval forces, or in the militia, when in actual service in time of
war or public danger; nor shall any person be subject for the same offense to be twice put in jeopardy of life or limb;
nor shall be compelled in any criminal case to be a witness against himself, nor be deprived of life, liberty, or
property, without due process of law; nor shall private property be taken for public use, without just compensation.

Amendment VI

In all criminal prosecutions, the accused shall enjoy the right to a speedy and public trial, by an impartial jury of the
state and district wherein the crime shall have been committed, which district shall have been previously ascertained
by law, and to be informed of the nature and cause of the accusation; to be confronted with the witnesses against
him; to have compulsory process for obtaining witnesses in his favor, and to have the assistance of counsel for his
defense.

Amendment VII

In suits at common law, where the value in controversy shall exceed twenty dollars, the right of trial by jury shall be
preserved, and no fact tried by a jury, shall be otherwise reexamined in any court of the United States, than
according to the rules of the common law.

Amendment VIII

Excessive bail shall not be required, nor excessive fines imposed, nor cruel and unusual punishments inflicted.

Amendment IX

The enumeration in the Constitution, of certain rights, shall not be construed to deny or disparage others retained by
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* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/exceptions/NotModifiedException.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/exceptions/NotImplementedException.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/exceptions/UnauthorizedException.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/X509Certificate.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/PhoneNumber.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/Role.java
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* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/filters/CombiningFilter.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/utils/GenericScimObjectDeserializer.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/filters/ContainsFilter.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/filters/ComplexValueFilter.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/PatchConfig.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/utils/FilterEvaluator.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/utils/CaseIgnoreObjectNode.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/utils/package-info.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/Address.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/Email.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/ServiceProviderConfigResource.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/filters/ComparisonFilter.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/exceptions/MethodNotAllowedException.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/filters/EndsWithFilter.java

1.92 feign-jax-rs 11.0
1.92.1 Available under license:

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 */

1.93 swagger-parser-v3 2.0.23
1.93.1 Available under license :
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public License getLicense(ObjectNode node, String location, ParseResult result) {

Found in path(s):
* /opt/cola/permits/1341639872_1654809586.8403437/0/swagger-parser-v3-2-0-23-sources-1- jar/io/swagger/v3/parser/util/OpenAPIDeserializer.java

1.94 java-classmate 1.3.4
1.94.1 Available under license :
Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel
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1.95 jetty-java-based-http-1-x-http-2-servlet-websocket-server 9.4.44.20210927

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- * org.eclipse.jetty.orbit:org.eclipse.jdt.core

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- * org.eclipse.jetty.orbit:javax.security.auth.message

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- * org.eclipse.jetty.orbit:javax.mail.glassfish

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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

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- * 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

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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

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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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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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.96 java-servlet-api 4.0.1
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## Source Code

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Found in path(s):
* /opt/cola/permits/1131827140_1613019870.2/0/feign-core-11-0-sources-2-jar/feign/codec/Decoder.java
* /opt/cola/permits/1131827140_1613019870.2/0/feign-core-11-0-sources-2-jar/feign/Headers.java
* /opt/cola/permits/1131827140_1613019870.2/0/feign-core-11-0-sources-2-jar/feign/Body.java
* /opt/cola/permits/1131827140_1613019870.2/0/feign-core-11-0-sources-2-jar/feign/RequestInterceptor.java
* /opt/cola/permits/1131827140_1613019870.2/0/feign-core-11-0-sources-2-jar/feign/Retryer.java
* /opt/cola/permits/1131827140_1613019870.2/0/feign-core-11-0-sources-2-jar/feign/codec/DecodeException.java
* /opt/cola/permits/1131827140_1613019870.2/0/feign-core-11-0-sources-2-jar/feign/auth/BasicAuthRequestInterceptor.java
* /opt/cola/permits/1131827140_1613019870.2/0/feign-core-11-0-sources-2-jar/feign/optionals/OptionalDecoder.java
* /opt/cola/permits/1131827140_1613019870.2/0/feign-core-11-0-sources-2-jar/feign/ResponseMapper.java
* /opt/cola/permits/1131827140_1613019870.2/0/feign-core-11-0-sources-2-jar/feign/template/UriTemplate.java
* /opt/cola/permits/1131827140_1613019870.2/0/feign-core-11-0-sources-2-jar/feign/Experimental.java
* /opt/cola/permits/1131827140_1613019870.2/0/feign-core-11-0-sources-2-jar/feign/codec/ErrorDecoder.java
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1.108 metrics-integration-for-logback 4.1.25

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.logback
Build-Jdk: 1.8.0_292
Built-By: runner
Bundle-Description: An instrumented appender for Logback.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration for Logback
Bundle-SymbolicName: io.dropwizard.metrics.logback
Bundle-Version: 4.1.25
Created-By: Apache Maven Bundle Plugin
Export-Package: com.codahale.metrics.logback;uses:="ch.qos.logback.classic.spi,ch.qos.logback.core,com.codahale.metrics";version="4.1.25"
Implementation-Title: Metrics Integration for Logback
Implementation-URL: https://metrics.dropwizard.io/metrics-logback
Implementation-Vendor-Id: io.dropwizard.metrics
Implementation-Version: 4.1.25
Import-Package: ch.qos.logback.classic;version="[1.2,2)";ch.qos.logback.classic.spi;version="[1.2,2)";ch.qos.logback.core;version="[1.2,2)"
,com.codahale.metrics;version="[4.1,5)"
Private-Package: com.codahale.metrics.logback
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

Found in path(s):
* /opt/cola/permits/1300427995_1649177643.65/0/metrics-logback-4-1-25-jar/META-INF/MANIFEST.MF

1.109 json-path 4.3.3
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Found in path(s):
* /opt/cola/permits/1340076254_1654622358.780958/0/json-path-4-3-3-sources-2-
jar/io/restassured/internal/path/json/mapping/JsonObjectDeserializer.groovy

1.110 kafka-schema-serializer 5.5.5

1.110.1 Available under license:
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<project xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmns="http://maven.apache.org/POM/4.0.0"
<modelVersion>4.0.0</modelVersion>

<parent>
  <groupId>io.confluent</groupId>
  <artifactId>kafka-schema-registry-parent</artifactId>
  <version>5.5.5</version>
</parent>

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  <license>
    <name>Apache License 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.html</url>
    <distribution>repo</distribution>
  </license>
</licenses>

<artifactId>kafka-schema-serializer</artifactId>
<packaging>jar</packaging>
<name>kafka-schema-serializer</name>

<dependencies>
  <dependency>
    <groupId>org.apache.kafka</groupId>
    <artifactId>kafka_${kafka.scala.version}</artifactId>
    <scope>provided</scope>
  </dependency>

  <dependency>
    <groupId>io.confluent</groupId>
    <artifactId>kafka-schema-registry-client</artifactId>
  </dependency>

  <dependency>
    <groupId>io.confluent</groupId>
    <artifactId>common-config</artifactId>
  </dependency>

  <dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <scope>test</scope>
  </dependency>
</dependencies>

Found in path(s):
1.111 lz4-and-xxhash 1.7.1
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1.113 jackson-datatype-jsr310 2.11.1

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* /opt/cola/permits/1274701436_1645235201.06/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/impl/action/StoreArgumentAction.java
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* /opt/cola/permits/1274701436_1645235201.06/0/argparse4j-0-8-1-sources-jar/net.sourceforge/argparse4j/impl/type/CaseInsensitiveEnumNameArgumentType.java
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1.121 archaius-core 0.7.6

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* /opt/cola/permits/1341639992_1654810449.552752/0/jdbi3-jodatime2-3-21-0-sources-jar/org/jdbi/v3/jodatime2/DateTimeArgumentFactory.java

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1.129 dropwizard-validation-support 2.0.25

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1.131 google-android-annotations-library

4.1.1.4

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1.132 io-grpc-grpc-netty 1.39.0

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* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/CallCredentials2.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/NameResolverProvider.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/CallCredentials.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/InternalMethodDescriptor.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/LoadBalancer.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/ServerTransportFilter.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/BindableService.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/BindableService.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/ConnectivityState.java

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Found in path(s):
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/PartialForwardingClientCall.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/LoadBalancerRegistry.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/SynchronizationContext.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/InternalClientInterceptors.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/InternalChannelz.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/LoadBalancerProvider.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/ChannelLogger.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/PartialForwardingClientCallListener.java

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Found in path(s):
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/BinaryLog.java
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 */

/**
 * Key managers and trust managers may be specified as { @link KeyManager} and { @link
 * TrustManager} objects. This feature by itself only implies { @link #getKeyManagers()} needs to
 * be observed. But along with { @link #MTLS}, then { @link #getTrustManagers()} needs to be
 * observed as well. When a manager is non-{ @code null}, then it is wholly responsible for key
 * or trust material and usage; there is no need to check other manager sources like { @link
 * #getCertificateChain()} or { @link #getPrivate Key()} (if { @code KeyManager} is available), or
 * { @link #getRootCertificates()} (if { @code TrustManager} is available).
 * 
 * <p>If other manager sources are available (e.g., { @code getPrivateKey} != null)), then they
 * may be alternative representations of the same configuration and the consumer is free to use
 * those alternative representations if it prefers. But before doing so it <em>must</em>/ without{ @code CUSTOM_MANAGERS} feature.
 */

Found in path(s):
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-
jar/io/grpc/TlsServerCredentials.java

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Found in path(s):
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/CompositeChannelCredentials.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/ForwardingServerBuilder.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/ServerRegistry.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/ChoiceServerCredentials.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/ChoiceChannelCredentials.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/InsecureServerCredentials.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/ManagedChannelRegistry.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/ServerCredentials.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/InternalServer.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/ChannelCredentials.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/CompositeCallCredentials.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/InsecureChannelCredentials.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-jar/io/grpc/InternalConfigSelector.java
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 * #getTrustManagers()}. Generally { @link #MTLS} should also be supported, as that is the more
 * common method of configuration. When a manager is non-{ @code null}, then it is wholly
 * responsible for key or trust material and usage; there is no need to check other manager
 * sources like { @link #getCertificateChain()} or { @link #getPrivateKey()} (if { @code
 * KeyManager} is available), or { @link #getRootCertificates()} (if { @code TrustManager} is
 * available).
 *
 * <p>If other manager sources are available (e.g., { @code getPrivateKey() != null}), then they
 * may be alternative representations of the same configuration and the consumer is free to use
* those alternative representations if it prefers. But before doing so it <em>must</em> first
* check that it understands that alternative representation by using {@link #incomprehensible}
* <em>without</em> the {@code CUSTOM_MANAGERS} feature.
*/

Found in path(s):
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-
jar/io/grpc/TlsChannelCredentials.java
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Found in path(s):
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-
jar/io/grpc/InternalCallOptions.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-
jar/io/grpc/NameResolverRegistry.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-
jar/io/grpc/HttpConnectProxiedSocketAddress.java
* /opt/cola/permits/1162691639_1655090045.771854/0/grpc-api-1-37-0-sources-
jar/io/grpc/ProxiedSocketAddress.java

1.134 jsr311-api 1.1.1
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1.135 error_prone_annotations 2.5.1

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* /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/IncompatibleModifiers.java
* /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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jar/com/google/errorprone/annotations/CheckReturnValue.java
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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxrs-api

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This project leverages the following third party content.

javaee-api (7.0)

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JUnit (4.11)

* License: Common Public License 1.0

Mockito (2.16.0)

* Project: http://site.mockito.org
* Source: https://github.com/mockito/mockito/releases/tag/v2.16.0

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* /opt/cola/permits/1145408230_1616177377.16/0/hystrix-core-1-5-12-sources-2.jar/com/netflix/hystrix/HystrixCommandMetrics.java
* /opt/cola/permits/1145408230_1616177377.16/0/hystrix-core-1-5-12-sources-2.jar/com/netflix/hystrix/HystrixCollapserKey.java
* /opt/cola/permits/1145408230_1616177377.16/0/hystrix-core-1-5-12-sources-2.jar/com/netflix/hystrix/strategy/metrics/HystrixMetricsPublisherFactory.java
* /opt/cola/permits/1145408230_1616177377.16/0/hystrix-core-1-5-12-sources-2.jar/com/netflix/hystrix/strategy/concurrency/HystrixContexSchedulerAction.java
* /opt/cola/permits/1145408230_1616177377.16/0/hystrix-core-1-5-12-sources-2.jar/com/netflix/hystrix/strategy/metrics/HystrixMetricsPublisher.java
* /opt/cola/permits/1145408230_1616177377.16/0/hystrix-core-1-5-12-sources-2.jar/com/netflix/hystrix/HystrixCommandProperties.java
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* /opt/cola/permits/1145408230_1616177377.16/0/hystrix-core-1-5-12-sources-2.jar/com/netflix/hystrix/strategy/metrics/HystrixMetricsPublisherDefault.java
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* /opt/cola/permits/1145408230_1616177377.16/0/hystrix-core-1-5-12-sources-2.jar/com/netflix/hystrix/strategy/concurrency/HystrixRequestContext.java
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* /opt/cola/permits/1145408230_1616177377.16/0/hystrix-core-1-5-12-sources-2.jar/com/netflix/hystrix/util/HystrixRollingPercentile.java
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* /opt/cola/permits/1145408230_1616177377.16/0/hystrix-core-1-5-12-sources-2.jar/com/netflix/hystrix/strategy/concurrency/HystrixRequestVariableHolder.java
* /opt/cola/permits/1145408230_1616177377.16/0/hystrix-core-1-5-12-sources-2.jar/com/netflix/hystrix/HystrixCollapser.java
* /opt/cola/permits/1145408230_1616177377.16/0/hystrix-core-1-5-12-sources-2.jar/com/netflix/hystrix/HystrixCircuitBreaker.java

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* /opt/cola/permits/1145408230_1616177377.16/0/hystrix-core-1-5-12-sources-2-jar/com/netflix/hystrix/util/Striped64.java
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* /opt/cola/permits/1145408230_1616177377.16/0/hystrix-core-1-5-12-sources-2-
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* /opt/ws_local/PERMITS_SQL/1012082052_1591372884.94/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/ZStreamException.java
* /opt/ws_local/PERMITS_SQL/1012082052_1591372884.94/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/InfTree.java
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* /opt/ws_local/PERMITS_SQL/1012082052_1591372884.94/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Adler32.java
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include/GL/glx.h :
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include/GL/wglxext.h :

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## xwd v1.0.7

### xwd utility

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* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/CaffeineSpec.java
No license file was found, but licenses were detected in source scan.

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Found in path(s):
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* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/SSLSAR.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WILMWWR.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WSW.java
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* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WILSMWA.java
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* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WILSMSA.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WIS.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WI.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/PDW.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/PSWRMW.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/PDW.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/SSLSMSA.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WI.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WIMWA.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/SSSA.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/SSAWR.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/SILMSAR.java

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* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WILR.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/SSLMSAR.java
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* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WISMWW.java
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* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WILWR.java
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* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WISAW.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/SSS.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WSSAR.java
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* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/PDWRMS.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WSLSR.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/SISMWR.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/SSMSA.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/FSWMS.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WILSMWAR.java
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* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/PSWMW.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WSMWAR.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/FDWR.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/SILSAW.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/SSSW.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/FSAWMS.java
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* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/PSAWR.java
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* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WIWR.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/SSLWSW.java
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* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/SSMWW.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WIMSAW.java
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* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/PDRMW.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/PWMS.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/PWWW.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/SILMW.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/PDWRMW.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WSLS.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/PDAWR.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/PWRMW.java
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* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WSLW.java
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* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/PDAWMW.java
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* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/PDS.java
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* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/PDWS.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/PDWW.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WIWR.java

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* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/FSAWR.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/SSLMWR.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WLSLSAW.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/SILMWA.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/SIMWAR.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/SIMW.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WSSWR.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/FWAWR.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/PSAW.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WILMWR.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/PDWMW.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/SIMS.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WIMSW.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/FSRMS.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WILMSWR.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WIMWAR.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/FWWRMW.java
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* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/SSLMSMAWR.java
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* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/FSR.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WSSMSAW.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WSMWAWR.java
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* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/Pacer.java

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* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/FrequencySketch.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/Buffer.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/Async.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/LocalAsyncLoadingCache.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/References.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/stats/package-info.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/LocalLoadingCache.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WriteThroughEntry.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/Node.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/BoundedBuffer.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/package-info.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/SerializationProxy.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/LocalCache.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/stats/GuardedStatsCounter.java
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/LocalManualCache.java

1.148 jdbi3-jackson2 3.27.2

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1.149 geantyref 1.3.13

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Manifest-Version: 1.0
Bundle-Description: Generic type reflection library with support for A
notatedType
Automatic-Module-Name: io.leangen.geantyref
Bundle-License: "The Apache Software License, Version 2.0";link="http:
//www.apache.org/licenses/LICENSE-2.0.txt"
Bundle-SymbolicName: io.leangen.geantyref.geantyref
Bnd-LastModified: 1636765501077
Bundle-ManifestVersion: 2
Bundle-DocURL: https://github.com/leangen/geantyref
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.0.0.202110041835
Export-Package: io.leangen.geantyref;version="1.3.1"
Bundle-Name: GeantyRef
Bundle-Version: 1.3.13
Build-Jdk-Spec: 1.8
Created-By: 1.8.0_281 (Oracle Corporation)

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      <artifactId>maven-jar-plugin</artifactId>
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      <configuration>
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          </manifestEntries>
        </archive>
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  <groupId>org.apache.maven.plugins</groupId>
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<developers>
<developer>
<name>Bojan Tomic</name>
<email>veggen@gmail.com</email>
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</developer>
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1.150 jackson-annotations 2.13.2
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* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-jar/net/minidev/json/parser/JSONParserByteArray.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-jar/net/minidev/json/JSONStreamAware.java
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* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-jar/net/minidev/json/parser/ParseException.java
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* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-jar/net/minidev/json/parser/JSONParser.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-jar/net/minidev/json/JSONAwareEx.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-jar/net/minidev/json/parser/JSONParserString.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-jar/net/minidev/json/JSONStreamAwareEx.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-jar/net/minidev/json/JSONUtil.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-jar/net/minidev/json/writer/CompessorMapper.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-jar/net/minidev/json/parser/ParseException.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-jar/net/minidev/json/writer/DefaultMapper.java

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* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-jar/net/minidev/json/JSONStyle.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-jar/net/minidev/json/parser/JSONParserByteArray.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-jar/net/minidev/json/JSONStreamAware.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-jar/net/minidev/json/writer/JsonReaderI.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-jar/net/minidev/json/JStylerObj.java
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* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-jar/net/minidev/json/parser/ParseException.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-jar/net/minidev/json/writer/DefaultMapper.java
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* /opt/cola/permits/1340076374_1654622289.9189506/0/json-unit-core-2-19-0-sources-1.jar/net/javacrumbs/jsonunit/core/Option.java
* /opt/cola/permits/1340076374_1654622289.9189506/0/json-unit-core-2-19-0-sources-1.jar/net/javacrumbs/jsonunit/core/internal/JsonUnitLogger.java
* /opt/cola/permits/1340076374_1654622289.9189506/0/json-unit-core-2-19-0-sources-1.jar/net/javacrumbs/jsonunit/core/internal/Utils.java
* /opt/cola/permits/1340076374_1654622289.9189506/0/json-unit-core-2-19-0-sources-1.jar/net/javacrumbs/jsonunit/core/internal/JsonSource.java
* /opt/cola/permits/1340076374_1654622289.9189506/0/json-unit-core-2-19-0-sources-1.jar/net/javacrumbs/jsonunit/core/internal/ClassUtils.java
* /opt/cola/permits/1340076374_1654622289.9189506/0/json-unit-core-2-19-0-sources-1.jar/net/javacrumbs/jsonunit/core/internal/Configuration.java
* /opt/cola/permits/1340076374_1654622289.9189506/0/json-unit-core-2-19-0-sources-1.jar/net/javacrumbs/jsonunit/core/internal/Converter.java
* /opt/cola/permits/1340076374_1654622289.9189506/0/json-unit-core-2-19-0-sources-1.jar/net/javacrumbs/jsonunit/core/internal/GsonNodeFactory.java
* /opt/cola/permits/1340076374_1654622289.9189506/0/json-unit-core-2-19-0-sources-1.jar/net/javacrumbs/jsonunit/core/internal/GenericNodeBuilder.java
* /opt/cola/permits/1340076374_1654622289.9189506/0/json-unit-core-2-19-0-sources-1.jar/net/javacrumbs/jsonunit/core/internal/Context.java
* /opt/cola/permits/1340076374_1654622289.9189506/0/json-unit-core-2-19-0-sources-1.jar/net/javacrumbs/jsonunit/core/internal/DifferenceImpl.java
* /opt/cola/permits/1340076374_1654622289.9189506/0/json-unit-core-2-19-0-sources-1.jar/net/javacrumbs/jsonunit/core/internal/Node.java
* /opt/cola/permits/1340076374_1654622289.9189506/0/json-unit-core-2-19-0-sources-1.jar/net/javacrumbs/jsonunit/core/internal/JsonDifference.java
* /opt/cola/permits/1340076374_1654622289.9189506/0/json-unit-core-2-19-0-sources-1.jar/net/javacrumbs/jsonunit/core/internal/NodeBuilder.java
* /opt/cola/permits/1340076374_1654622289.9189506/0/json-unit-core-2-19-0-sources-1.jar/net/javacrumbs/jsonunit/core/internal/ArrayComparison.java
* /opt/cola/permits/1340076374_1654622289.9189506/0/json-unit-core-2-19-0-sources-1-
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* /opt/cola/permits/1340076374_1654622289.9189506/0/json-unit-core-2-19-0-sources-1-
  jar/net/javacrumbs/jsonunit/core/internal/ComparisonMatrix.java
* /opt/cola/permits/1340076374_1654622289.9189506/0/json-unit-core-2-19-0-sources-1-
  jar/net/javacrumbs/jsonunit/core/internal/matchers/InternalMatcher.java
* /opt/cola/permits/1340076374_1654622289.9189506/0/json-unit-core-2-19-0-sources-1-
  jar/net/javacrumbs/jsonunit/core/internal/JohnzonNodeFactory.java
* /opt/cola/permits/1340076374_1654622289.9189506/0/json-unit-core-2-19-0-sources-1-
  jar/net/javacrumbs/jsonunit/core/internal/ArrayUtils.java

1.154 com.helger:profiler 1.1.1

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Found in path(s):
* /opt/cola/permits/1293853635_1649177431.36/0/profiler-1-1-1-jar/META-INF/maven/com.helger/profiler/pom.xml
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Manifest-Version: 1.0
Automatic-Module-Name: com.papertrail.profiler
Bnd-LastModified: 1563722217801
Build-Jdk: 1.8.0_202
Built-By: philip
Bundle-Description: A pure-java implementation of the twitter/util project's 'CpuProfile' and related classes.
Bundle-DocURL: http://www.helger.com
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: com.helger:profiler
Bundle-SymbolicName: com.helger.profiler
Bundle-Vendor: Philip Helger
Bundle-Version: 1.1.1
Created-By: Apache Maven Bundle Plugin
Export-Package: com.papertrail.profiler;version="1.1.1",com.papertrail.profiler.jaxrs;uses="javax.ws.rs";version="1.1.1"
Implementation-Title: com.helger:profiler
Implementation-URL: https://github.com/phax/profiler
Implementation-Vendor: Philip Helger
Implementation-Vendor-Id: com.helger
Implementation-Version: 1.1.1
Import-Package: com.papertrail.profiler, javax.ws.rs;version="[2.1,3)"
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-4.1.0.201810181252

Found in path(s):
* /opt/cola/permits/1293853635_1649177431.36/0/profiler-1-1-1-jar/META-INF/MANIFEST.MF

1.155 hibernate-validator 6.0.22.Final

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**1.156 apache-httpcomponents-asynclient**

**4.1.4**

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1.157 xmlunit-xmlunit-core 2.8.0

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Manifest-Version: 1.0
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: org.xmlunit.xmlunit-core
Built-By: stefan
X-Git-Hash: 5ae4f721496157ea252426fb891fc77e602d7438 (Branch main)
Bnd-LastModified: 1604075567511
Specification-Title: org.xmlunit:xmlunit-core
Implementation-Vendor-Id: org.xmlunit
Bundle-DocURL: https://www.xmlunit.org/
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Export-Package: org.xmlunit;version="2.8.0", org.xmlunit.builder;version="2.8.0", org.xmlunit.diff;version="2.8.0", org.xmlunit.input;version="2.8.0", org.xmlunit.transform;version="2.8.0", org.xmlunit.util;version="2.8.0", org.xmlunit.validation;version="2.8.0", org.xmlunit.xpath;version="2.8.0"
Bundle-Name: org.xmlunit:xmlunit-core
Implementation-Title: org.xmlunit:xmlunit-core
Bundle-Description: XMLUnit for Java
Automatic-Module-Name: org.xmlunit
Implementation-Version: 2.8.0
Specification-Vendor: XMLUnit
Bundle-ManifestVersion: 2
Bundle-Vendor: XMLUnit
Tool: Bnd-3.2.0.201605172007
Implementation-Vendor: XMLUnit
Bundle-Version: 2.8.0
X-Compile-Target-JDK: 1.7
build-time: 2020-10-30T16:32:19Z
X-Compile-Source-JDK: 1.7
Created-By: Apache Maven Bundle Plugin
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### 1.160 Metrics-Utility-Servlets 4.1.25

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.servlets
Build-Jdk: 1.8.0_292
Built-By: runner
Bundle-Description: A set of utility servlets for Metrics, allowing you to expose valuable information about your production environment.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Utility Servlets
Bundle-SymbolicName: io.dropwizard.metrics.servlets
Bundle-Version: 4.1.25
Created-By: Apache Maven Bundle Plugin
Implementation-Title: Metrics Utility Servlets
Implementation-URL: https://metrics.dropwizard.io/metrics-servlets
Implementation-Vendor-Id: io.dropwizard.metrics
Implementation-Version: 4.1.25
Import-Package: javax.servlet;version="[2.5.0,4.0.0)",javax.servlet.http;version="[2.5.0,4.0.0)",com.codahale.metrics;version="[4.1.5)"
1.161 mockserver-core 5.11.2

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* /opt/cola/permits/1340076503_165462390.49028/0/mockserver-core-5-11-2-sources-1-jar/org/mockserver/openapi/examples/ExampleBuilder.java
* /opt/cola/permits/1340076503_165462390.49028/0/mockserver-core-5-11-2-sources-1-jar/org/mockserver/openapi/examples/models/DecimalExample.java

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* /opt/cola/permits/1340076503_165462390.49028/0/mockserver-core-5-11-2-sources-1-jar/org/mockserver/openapi/examples/models/DecimalExample.java
1.162 mozilla-rhino 1.7.7.2

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* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxSwitchOnFirst.java
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxFilterFuseable.java
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoWhen.java
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxRetryWhen.java
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/EmitterProcessor.java
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/Mono.java
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxBufferPredicate.java
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoPeekTerminal.java
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxBufferWhen.java
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxBuffer.java
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoFunctions.kt
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxMetrics.java
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoZip.java
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* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoProcessor.java
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* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxBufferBoundary.java
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* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxFilter.java
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* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoCompletionStage.java
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* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoCacheTime.java
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* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxConcatMap.java
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* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxOnBackpressureBufferTimeout.java
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* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxPublish.java
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* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxCombineLatest.java
*/
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxExtensions.kt
*/
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/NonBlocking.java
*/
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoMetrics.java
*/
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/scheduler/InstantPeriodicWorkerTask.java
*/
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/Operators.java
*/
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxBufferTimeout.java

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* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoCollect.java
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxCreate.java
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* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxDoFirstFuseable.java
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  jar/reactor/core/publisher/MonoLift.java
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  jar/reactor/core/publisher/SignalLogger.java
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* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoSourceFuseable.java
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/Hooks.java
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* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/ParallelFilter.java
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/Scannable.java
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxMerge.java
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/ParallelMergeReduce.java
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoHasElement.java
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoCallable.java
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/TopicProcessor.java
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxRepeatWhen.java
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxZipIterable.java
* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxSubscribeOnValue.java
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* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoCancelOn.java
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* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoDematerialize.java
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* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/package-info.java
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* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoTakeUntilOther.java
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* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/QueueDrainSubscriber.java
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* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxUsingWhen.java
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* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxMergeOrdered.java
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* /opt/cola/permits/1274703621_1645234326.92/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoDoOnEach.java
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1.165 slf4j 1.7.28

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* /opt/cola/permits/1341639788_1654785854.1520684/0/slf4j-api-1-7-28-sources-jar/org/slf4j/impl/StaticMarkerBinder.java
* /opt/cola/permits/1341639788_1654785854.1520684/0/slf4j-api-1-7-28-sources-jar/org/slf4j/Marker.java
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* /opt/cola/permits/1341639788_1654785854.1520684/0/slf4j-api-1-7-28-sources-jar/org/slf4j/spi/MDCAdapter.java
1.166 rxjava 1.3.8

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core/src/main/java/org/jctools/util/Pow2.java
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This package "rx.internal.operators" is for internal implementation details and can change at any time.

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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/ActionN.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/OnErrorNotImplementedException.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorToObservableSortedList.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subjects/BehaviorSubject.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observables/GroupedObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/OperatorToObservableSortedList.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/CompositeException.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/OnBackpressureDrop.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/OperatorToObservableSortedList.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/OperatorMaterialize.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/Observer.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/GroupedObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/Observer.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/Observer.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/Observer.java
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This package contains code that relies on sun.misc.Unsafe. Before using it you MUST assert
UnsafeAccess.isUnsafeAvailable() == true

Much of the code in this package comes from or is inspired by the JCTools project:
https://github.com/JCTools/JCTools

RxJava has a "zero dependency" policy for the core library, so if we do add it as a dependency, it won't be an externally visible dependency that results in a separate jar.

The license for the JCTools code is https://github.com/JCTools/JCTools/blob/master/LICENSE

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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observers/AssertableSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observers/SafeCompletableSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/CompletableFlatMapSingleToCompletable.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/DeferredScalarSubscriberSafe.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeFromCallable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleOperatorOnErrorResumeNext.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleOnSubscribeUsing.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeReduceSeed.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeConcatMap.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleOperatorZip.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeTakeLastOne.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/BackpressureUtils.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/producers/ProducerArbiter.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeTimerOnce.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/schedulers/ExecutorScheduler.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorWindowWithObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDistinctUntilChanged.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorMulticast.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeDelaySubscription.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeSkipTimed.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDelayWithSelector.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeRefCount.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/atomic/SpscLinkedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDistinct.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDebounceWithSelector.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDebounceWithTime.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorWindowWithObservableFactory.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorWindowWithTime.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleDoAfterTerminate.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/CompletableSubscriber.java
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* /opt/cola/permits/1274704089_1645233859.96/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/schedulers/InstantPeriodicTask.java
* /opt/cola/permits/1274704089_1645233859.96/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/schedulers/ScheduledDirectTask.java
* /opt/cola/permits/1274704089_1645233859.96/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/schedulers/ScheduledDirectPeriodicTask.java

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1.170 swagger-compat-spec-parser 1.0.52

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package io.swagger.models.resourcelisting;

import io.swagger.models.SwaggerBaseModel;

public class ApiInfo extends SwaggerBaseModel {
    private String title = null;
    private String description = null;
    private String termsOfServiceUrl = null;
    private String contact = null;
    private String license = null;
    private String licenseUrl = null;

    public String getTitle() {
        return title;
    }

    public void setTitle(String title) {
        this.title = title;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }
}
public String getTermsOfServiceUrl() {
    return termsOfServiceUrl;
}

public void setTermsOfServiceUrl(String termsOfServiceUrl) {
    this.termsOfServiceUrl = termsOfServiceUrl;
}

public String getContact() {
    return contact;
}

public void setContact(String contact) {
    this.contact = contact;
}

public String getLicense() {
    return license;
}

public void setLicense(String license) {
    this.license = license;
}

public String getLicenseUrl() {
    return licenseUrl;
}

public void setLicenseUrl(String licenseUrl) {
    this.licenseUrl = licenseUrl;
}

@Override
public String toString() {
    StringBuilder sb = new StringBuilder();
    sb.append("class ApiInfo {\n");
    sb.append("  title: ").append(title).append("\n");
    sb.append("  description: ").append(description).append("\n");
    sb.append("  termsOfServiceUrl: ").append(termsOfServiceUrl).append("\n");
    sb.append("  contact: ").append(contact).append("\n");
    sb.append("  license: ").append(license).append("\n");
    sb.append("  licenseUrl: ").append(licenseUrl).append("\n");
    sb.append("  extraFields: ").append(getExtraFields()).append("\n");
    sb.append("}\n");
    return sb.toString();
}
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* /opt/cola/permits/1274699229_1654840286.013314/0/resilience4j-core-0-13-1-sources-jar/io/github/resilience4j/core/EventPublisher.java
* /opt/cola/permits/1274699229_1654840286.013314/0/resilience4j-core-0-13-1-sources-jar/io/github/resilience4j/core/StopWatch.java
1.174 java-servlet-api 3.1.0

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1.176 javax.inject:javax.inject 1

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1.177 okio 2.8.0

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1.178 jakarta-expression-language-3.0-api

3.0.3

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http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/
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The specification of DOM Level 2’s various parts is at:
http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/

The specification of DOM Level 1’s various parts is at:

Links to all available W3C DOM Java Bindings can be found at:
http://www.w3.org/DOM/DOMTR
The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
http://www.w3.org/2002/06/sacjava-1.3.zip

The actual DOM Java Language Binding classes for SMIL came from:
http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
(both ElementTimeControl.java and TimeEvent.java were taken at revision 1.1)

The actual DOM Java Language Binding classes for SVG 1.1 came from:
http://www.w3.org/TR/SVG11/java.html
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## The Unicode Standard, Unicode Character Database, Version 10.0.0

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## xwd v1.0.7

### xwd utility

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1.183 commons-io 2.7

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1.184 metrics-integration-with-jmx 4.1.25

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jmx
Build-Jdk: 1.8.0_292
Built-By: runner
Bundle-Description: A set of classes which allow you to report metrics
via JMX.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration with JMX
Bundle-SymbolicName: io.dropwizard.metrics.jmx
Bundle-Version: 4.1.25
Created-By: Apache Maven Bundle Plugin
Export-Package: com.codahale.metrics.jmx;uses:="com.codahale.metrics,javax.management";version="4.1.25"
Implementation-Title: Metrics Integration with JMX
Implementation-URL: https://metrics.dropwizard.io/metrics-jmx
Implementation-Vendor-Id: io.dropwizard.metrics
Implementation-Version: 4.1.25
Import-Package: org.slf4j;version="[1.6.0,2.0.0)" , com.codahale.metrics :version="[4.1,5)" , javax.management
Private-Package: com.codahale.metrics.jmx
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

Found in path(s):
* /opt/cola/permits/1300428274_1649930643.63/0/metrics-jmx-4-1-25-jar/META-INF/MANIFEST.MF

1.185 dropwizard-jackson-support 2.0.25
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**1.187 jersey-media-jaxb 2.35**

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1.189 **swagger-parser 2.0.23**
1.189.1 Available under license:
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1.190 **jackson-module-afterburner 2.10.5**
1.190.1 Available under license:
   
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1.191 jackson-integration-for-metrics 4.1.25

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.servlets
Build-Jdk: 1.8.0_292
Built-By: runner
Bundle-Description: A set of utility servlets for Metrics, allowing you to expose valuable information about your production environment.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Utility Servlets
Bundle-SymbolicName: io.dropwizard.metrics.servlets
Bundle-Version: 4.1.25
Created-By: Apache Maven Bundle Plugin
Implementation-Title: Metrics Utility Servlets
Implementation-URL: https://metrics.dropwizard.io/metrics-servlets
Implementation-Vendor-Id: io.dropwizard.metrics
Implementation-Version: 4.1.25
Import-Package: javax.servlet;version="[2.5.0,4.0.0)";javax.servlet.http;version="[2.5.0,4.0.0)";com.codahale.metrics;version="[4.1,5)";com.codahale.metrics.health;version="[4.1,5)";com.codahale.metrics.json;version="[4.1,5)";com.codahale.metrics.jvm;version="[4.1,5)";com.fasterxml.jackson.databind;version="[2.9,3)";com.fasterxml.jackson.databind.util;version="[2.9,3)";com.papertrail.profiler;version="[1.1.2)"
Private-Package: com.codahale.metrics.servlets
Require-Capability: osgi.ee:filter="(&amp;osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

Found in path(s):
* /opt/cola/permits/1300428497_1649932357.8/0/metrics-servlets-4-1-25-jar/META-INF/MANIFEST.MF
1.192 dropwizard-jdbi3-support 2.0.25

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Found in path(s):
* /opt/cola/permits/1198379913_1630347367.42/0/log4j-over-slf4j-1-7-32-jar/META-INF/maven/org.slf4j/log4j-over-slf4j/pom.xml

1.194 org.xmlunit:xmlunit-placeholders 2.8.0
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Manifest-Version: 1.0
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
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* /opt/cola/permits/1340076469_1654758254.3705735/0/xmlunit-placeholders-2-8-0-jar/META-INF/maven/org.xmlunit/xmlunit-placeholders/pom.xml

1.195 swagger-jaxrs2 2.1.6

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Manifest-Version: 1.0
Automatic-Module-Name: io.swagger.v3.jaxrs2
Bnd-LastModified: 1607101154572
Build-Jdk: 1.8.0_275
Built-By: runner
Bundle-Description: swagger-jaxrs2
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: swagger-jaxrs2
Bundle-SymbolicName: io.swagger.core.v3.swagger-jaxrs2
Bundle-Version: 2.1.6
Created-By: Apache Maven Bundle Plugin
s.java.ws.rs.core;version="2.1.6"
implementation-version: 2.1.6
mode: development
package: io.swagger
Require-Capability: osgi.ee:filter="(&amp; osgi.ee=JavaSE)(version=1.8)"
Tool: Bnd-4.2.0.201903051501
url: https://github.com/swagger-api/swagger-core/modules/swagger-jaxrs

Found in path(s):
* /opt/cola/permits/1148119609_1654840282.6346464/0/swagger-jaxrs2-2-1-6-jar/META-INF/MANIFEST.MF

1.196 servicelocator-default-implementation
2.6.1
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### 1.197 swagger-integration 2.1.6

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Manifest-Version: 1.0
Automatic-Module-Name: io.swagger.v3.oas.integration
Bnd-LastModified: 1607101128644
Build-Jdk: 1.8.0_275
Built-By: runner
Bundle-Description: swagger-integration
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: swagger-integration
Bundle-SymbolicName: io.swagger.core.v3.swagger-integration
Bundle-Version: 2.1.6
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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/glassfish-ha-api
* https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor
* https://github.com/eclipse-ee4j/glassfish-shoal
* https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck
* https://github.com/eclipse-ee4j/glassfish-jsftemplating
* https://github.com/eclipse-ee4j/glassfish-hk2-extra
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* /opt/cola/permits/1274698934_1645233552.09/0/jose4j-0-6-3-sources-jar/org/jose4j/base64url/internal/apache/commons/codec/binary/BaseNCodec.java

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* /opt/cola/permits/1274698934_1645233552.09/0/jose4j-jwk/OctJwkGenerator.java
* /opt/cola/permits/1274698934_1645233552.09/0/jose4j-jwk/JwsCustomizer.java
* /opt/cola/permits/1274698934_1645233552.09/0/jose4j-jwk/JwtConsumerBuilder.java
* /opt/cola/permits/1274698934_1645233552.09/0/jose4j-jwe/kdf/PasswordBasedKeyDerivationFunction2.java
* /opt/cola/permits/1274698934_1645233552.09/0/jose4j-jws/JsonWebSignatureAlgorithm.java
* /opt/cola/permits/1274698934_1645233552.09/0/jose4j-keys/KeyPersuasion.java
* /opt/cola/permits/1274698934_1645233552.09/0/jose4j/lang/ByteUtil.java
* /opt/cola/permits/1274698934_1645233552.09/0/jose4j/lang/InvalidKeyException.java
* /opt/cola/permits/1274698934_1645233552.09/0/jose4j-jwk/SelectorSupport.java
* /opt/cola/permits/1274698934_1645233552.09/0/jose4j-jwk/DecryptionJwkSelector.java
* /opt/cola/permits/1274698934_1645233552.09/0/jose4j-jwt/consumer/ErrorCodes.java
* /opt/cola/permits/1274698934_1645233552.09/0/jose4j-jwt/consumer/ErrorCodeValidator.java
* /opt/cola/permits/1274698934_1645233552.09/0/jose4j-jws/JsonWebSignature.java
* /opt/cola/permits/1274698934_1645233552.09/0/jose4j-0-6-3-sources-jar/org/jose4j/jwt/NumericDate.java
* /opt/cola/permits/1274698934_1645233552.09/0/jose4j-0-6-3-sources-jar/org/jose4j/jwt/consumer/JtiValidator.java
* /opt/cola/permits/1274698934_1645233552.09/0/jose4j-0-6-3-sources-jar/org/jose4j/keys/resolvers/JwksDecryptionKeyResolver.java
* /opt/cola/permits/1274698934_1645233552.09/0/jose4j-0-6-3-sources-jar/org/jose4j/jws/RsaUsingShaAlgorithm.java
* /opt/cola/permits/1274698934_1645233552.09/0/jose4j-0-6-3-sources-jar/org/jose4j/keys/HmacKey.java
* /opt/cola/permits/1274698934_1645233552.09/0/jose4j-0-6-3-sources-jar/org/jose4j/jwx/CompactSerializer.java
* /opt/cola/permits/1274698934_1645233552.09/0/jose4j-0-6-3-sources-jar/org/jose4j/keys/EcKeyUtil.java
* /opt/cola/permits/1274698934_1645233552.09/0/jose4j-0-6-3-sources-jar/org/jose4j/jwk/JsonWebKey.java
* /opt/cola/permits/1274698934_1645233552.09/0/jose4j-0-6-3-sources-jar/org/jose4j/jwa/AlgorithmFactory.java
1.200 cloudevents---api 2.1.1

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1.201 metrics-integration-for-jersey-2.x 4.1.25

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jersey2
Build-Jdk: 1.8.0_292
Built-By: runner
Bundle-Description: A set of class providing Metrics integration for Jersey, the reference JAX-RS implementation.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration for Jersey 2.x
Bundle-SymbolicName: io.dropwizard.metrics.jersey2
Bundle-Version: 4.1.25
Created-By: Apache Maven Bundle Plugin
Export-Package: com.codahale.metrics.jersey2;uses="com.codahale.metrics,
javax.ws.rs.core,javax.ws.rs.ext,org.glassfish.jersey.server.model,
org.glassfish.jersey.server.monitoring";version="4.1.25"
Implementation-Title: Metrics Integration for Jersey 2.x
Implementation-URL: https://metrics.dropwizard.io/metrics-jersey2
Implementation-Vendor-Id: io.dropwizard.metrics
Implementation-Version: 4.1.25
Import-Package: com.codahale.metrics;version="[4.1,5)",com.codahale.metrics.annotation;version="[4.1,5)",javax.ws.rs.core;version="[2.1,3)"
javax.ws.rs.ext;version="[2.1,3)",org.glassfish.jersey.server;version="[2.33,3)",org.glassfish.jersey.server.model;version="[2.33,3)",org.glassfish.jersey.server.monitoring;version="[2.33,3)
Private-Package: com.codahale.metrics.jersey2
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

1.202 logback-access-module 1.2.10

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* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/jar/ch/qos/logback/access/pattern/QueryStringConverter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/jar/ch/qos/logback/access/pattern/SessionIDConverter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/jar/ch/qos/logback/access/pattern/ElapsedSecondsConverter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/jar/ch/qos/logback/access/pattern/ThreadNameConverter.java
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# This SQL script creates the required tables by ch.qos.logback.access.db.DBApender
#
# It is intended for HSQL databases.

DROP TABLE access_event_header IF EXISTS;
DROP TABLE access_event IF EXISTS;

CREATE TABLE access_event (
timestamp BIGINT NOT NULL,
requestURI VARCHAR(254),
requestURL VARCHAR(254),
remoteHost VARCHAR(254),
remoteUser VARCHAR(254),
remoteAddr VARCHAR(254),
protocol VARCHAR(254),
method VARCHAR(254),
serverName VARCHAR(254),

Open Source Used In AppDynamics_Cloud_Topology_Schema_Service 22.6.0 1611
postContent VARCHAR(254),
event_id BIGINT NOT NULL IDENTITY);

CREATE TABLE access_event_header (  
event_id BIGINT NOT NULL,
header_key VARCHAR(254) NOT NULL,
header_value LONGVARCHAR,
PRIMARY KEY(event_id, header_key),
FOREIGN KEY (event_id) REFERENCES access_event(event_id));

Found in path(s):
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/db/script/hsqldb.sql
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* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/servlet/TeeHttpServletResponse.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/tomcat/LogbackValve.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/servlet/TeeServletOutputStream.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/servlet/TeeFilter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/net/SSLSocketAppender.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/pattern/ServerNameConverter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/filter/StatsByMinute.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/net/SimpleSocketServer.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/pattern/RequestContentConverter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/jetty/JettyServerAdapter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/pattern/RequestProtocolConverter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/pattern/RemoteUserConverter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/pattern/RemoteHostConverter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/pattern/RequestHeaderConverter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/html/HTMLELayout.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/filter/StatisticalViewImpl.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/boolex/JaninoEventEvaluator.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/pattern/LineSeparatorConverter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/pattern/RequestURLConverter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/net/AccessEventPreSerializationTransformer.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/pattern/AccessConverter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/filter/StatsByWeek.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/spi/AccessContext.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/AccessConstants.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/pattern/ResponseContentConverter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/pattern/RemoteIPAddressConverter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/joran/action/ConfigurationAction.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/pattern/FullResponseConverter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/pattern/RequestAttributeConverter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/pattern/DateConverter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/spi/AccessEvent.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/PatternLayoutEncoder.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/spi/Util.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/tomcat/TomcatServerAdapter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/pattern/EnsureLineSeparation.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/pattern/LocalPortConverter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/net/SocketAppender.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/servlet/Util.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/pattern/StatusCodeConverter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/net/server/ServerSocketAppender.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/pattern/NAConverter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/pattern/UrlCssBuilder.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/sift/AccessEventDiscriminator.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/pattern/ElapsedTimeConverter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/filter/StatsByHour.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/jetty/RequestLogRegistry.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/pattern/RequestParameterConverter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/pattern/RequestCookieConverter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/pattern/FullRequestConverter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/sift/AppenderFactoryUsingJoran.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/filter/CountingFilter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/sift/SiftAction.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/net/server/ServerSocketAppender.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/pattern/NAConverter.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/net/URLEvaluator.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/access/PatternLayout.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/jetty/RequestLogImpl.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/html/UrlCssBuilder.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/sift/AccessEventDiscriminator.java
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/pattern/ElapsedTimeConverter.java
# This SQL script creates the required tables by ch.qos.logback.classic.db.DBAppler
#
# It is intended for PostgreSQL databases.

DROP TABLE access_event_exception;
DROP SEQUENCE access_event_id_seq;
DROP TABLE access_event;

CREATE SEQUENCE access_event_id_seq MINVALUE 1 START 1;

CREATE TABLE access_event
(
    timestmp BIGINT NOT NULL,
    requestURI VARCHAR(254),
    requestURL VARCHAR(254),
    remoteHost VARCHAR(254),
    remoteUser VARCHAR(254),
    remoteAddr VARCHAR(254),
    protocol VARCHAR(254),
    method VARCHAR(254),
    serverName VARCHAR(254),
    postContent VARCHAR(254),
    event_id BIGINT DEFAULT nextval('access_event_id_seq') PRIMARY KEY
);

CREATE TABLE access_event_header
(
    event_id BIGINT NOT NULL,
    header_key VARCHAR(254) NOT NULL,
    header_value VARCHAR(1024),
    PRIMARY KEY(event_id, header_key),
    FOREIGN KEY (event_id) REFERENCES access_event(event_id)
);

Found in path(s):
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
jar/ch/qos/logback/access/db/script/postgresql.sql

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-- This SQL script creates the required tables by ch.qos.logback.access.db.DBAppler
DROP TABLE access_event_header
DROP TABLE access_event

CREATE TABLE access_event
(
timestamp          BIGINT NOT NULL,
requestURI        VARCHAR(254),
requestURL        VARCHAR(254),
remoteHost        VARCHAR(254),
remoteUser        VARCHAR(254),
remoteAddr        VARCHAR(254),
protocol          VARCHAR(254),
method            VARCHAR(254),
servername        VARCHAR(254),
postContent       VARCHAR(254),
event_id          INT NOT NULL identity,
PRIMARY KEY(event_id)
)

CREATE TABLE access_event_header
(
event_id          INT NOT NULL,
header_key        VARCHAR(254) NOT NULL,
header_value      VARCHAR(1024),
PRIMARY KEY(event_id, header_key),
FOREIGN KEY (event_id) REFERENCES access_event(event_id)
)

Found in path(s):
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-
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# This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender
#
# It is intended for IBM DB2 databases.
#
# WARNING  WARNING WARNING  WARNING  WARNING
# ==----------------------------------------------------------
# This SQL script has not been tested on an actual DB2
# instance. It may contain errors or even invalid SQL
# statements.

DROP TABLE access_event_header;
DROP TABLE access_event;

CREATE TABLE access_event
(
  timestmp          BIGINT NOT NULL,
  requestURI        VARCHAR(254),
  requestURL        VARCHAR(254),
  remoteHost        VARCHAR(254),
  remoteUser        VARCHAR(254),
  remoteAddr        VARCHAR(254),
  protocol          VARCHAR(254),
  method            VARCHAR(254),
  serverName        VARCHAR(254),
  postContent       VARCHAR(254),
  event_id          INTEGER GENERATED ALWAYS AS IDENTITY (START WITH 1)
);

CREATE TABLE access_event_header
(
  event_id      INTEGER NOT NULL,
  header_key    VARCHAR(254) NOT NULL,
  header_value  VARCHAR(1024),
  PRIMARY KEY(event_id, header_key),
  FOREIGN KEY (event_id) REFERENCES access_event(event_id)
);

BEGIN;
DROP TABLE IF EXISTS access_event_header;
DROP TABLE IF EXISTS access_event;
COMMIT;

BEGIN;
CREATE TABLE access_event
(
    timestmp          BIGINT NOT NULL,
    requestURI        VARCHAR(254),
    requestURL        VARCHAR(254),
    remoteHost        VARCHAR(254),
    remoteUser        VARCHAR(254),
    remoteAddr        VARCHAR(254),
    protocol          VARCHAR(254),
    method            VARCHAR(254),
    serverName        VARCHAR(254),
    postContent       VARCHAR(254),
    event_id          BIGINT NOT NULL AUTO_INCREMENT PRIMARY KEY
);
COMMIT;

BEGIN;
CREATE TABLE access_event_header
(
    event_id      BIGINT NOT NULL,
    header_key    VARCHAR(254) NOT NULL,
    header_value  VARCHAR(1024),
    PRIMARY KEY(event_id, header_key),
    FOREIGN KEY (event_id) REFERENCES access_event(event_id)
);
COMMIT;

Found in path(s):
* /opt/cola/permits/1341639890_1654808323.334134/0/logback-access-1-2-10-sources-jar/ch/qos/logback/access/db/script/mysql.sql
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-- This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender
--
-- It is intended for Oracle databases.

CREATE SEQUENCE access_event_id_seq MINVALUE 1 START WITH 1;
CREATE TABLE access_event
(
    timestamp NUMBER(20) NOT NULL,
    requestURI VARCHAR(254),
    requestURL VARCHAR(254),
    remoteHost VARCHAR(254),
    remoteUser VARCHAR(254),
    remoteAddr VARCHAR(254),
    protocol VARCHAR(254),
    method VARCHAR(254),
    serverName VARCHAR(254),
    postContent VARCHAR(254),
    event_id NUMBER(20) PRIMARY KEY
);

-- the / suffix may or may not be needed depending on your SQL Client
-- Some SQL Clients, e.g. SQuirrel SQL has trouble with the following
-- trigger creation command, while SQLPlus (the basic SQL Client which
-- ships with Oracle) has no trouble at all.

CREATE TRIGGER access_event_id_seq_trig
BEFORE INSERT ON access_event
FOR EACH ROW
BEGIN
    SELECT access_event_id_seq.NEXTVAL
    INTO   :NEW.event_id
    FROM   DUAL;
END access_event_id_seq_trig;
/

CREATE TABLE access_event_header
(
    event_id NUMBER(20) NOT NULL,
    header_key VARCHAR2(254) NOT NULL,
    header_value VARCHAR2(1024),
    PRIMARY KEY(event_id, header_key),
    FOREIGN KEY (event_id) REFERENCES access_event(event_id)
);

Found in path(s):
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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: http://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.transport-native-kqueue
Implementation-Version: 4.1.51.Final
Built-By: norman
Bnd-LastModified: 1594301463957
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel.io.netty.channel.socket;version="[4.1,5)",io.netty.channel.socket.socket;version="[4.1,5)",io.netty.channel.socket.unix;version="[4.1,5)";io.netty.util;version="[4.1,5)";io.netty.util.collection;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)";io.netty.util.concurrent.concurrent;version="[4.1,5)";io.netty.util.logging;version="[4.1,5)";io.netty.util.logging.logback;version="[4.1,5)"
.sun.nio.ch.resolution:optional.org.eclipse.jetty.npn;version="[1,2)",sun.nio.ch.resolution=optional.org.eclipse.jetty.alpn;version="[1,2)";resolution=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.channel.kqueue;uses="io.netty.buffer.io.netty.channel.io.netty.channel.socket;io.netty.channel.socket.socket;io.netty.channel.socket.unix;io.netty.util.concurrent.concurrent;version="4.1.51"
Bundle-Name: Netty/Transport/Native/KQueue
Bundle-Version: 4.1.51.Final
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/1341130358_1654769302.1305373/0/netty-transport-native-kqueue-4-1-51-final-jar/META-INF/MANIFEST.MF
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1.207 feign-apache-httpclient 11.0
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* /opt/cola/permits/1341640016_1654809633.0058272/0/feign-httpclient-11.0-sources-jar/feign/httpclient/ApacheHttpClient.java

1.208 jetty-toolchain 1.0.4

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* /opt/cola/permits/1293852964_1649804864.87/0/jetty-setuid-java-1.0-4-sources-jar/org/eclipse/jetty/setuid/Group.java
* /opt/cola/permits/1293852964_1649804864.87/0/jetty-setuid-java-1.0-4-sources-jar/org/eclipse/jetty/setuid/SetUIDServer.java
* /opt/cola/permits/1293852964_1649804864.87/0/jetty-setuid-java-1.0-4-sources-jar/org/eclipse/jetty/setuid/SetUID.java
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* /opt/cola/permits/1293852964_1649804864.87/0/jetty-setuid-java-1.0-4-sources-jar/org/eclipse/jetty/setuid/RLimit.java
* /opt/cola/permits/1293852964_1649804864.87/0/jetty-setuid-java-1.0-4-sources-jar/...
1.209 netty/tomcatnative-[openssl---classes]
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1.210 kotlin-stdlib 1.4.21

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  * /opt/cola/permits/1142015795_1615265345.39/0/kotlin-stdlib-1-4-21-sources-1-jar/kotlin/Library.kt
  * /opt/cola/permits/1142015795_1615265345.39/0/kotlin-stdlib-1-4-21-sources-1-jar/kotlin/internal/InternalAnnotations.kt
  * /opt/cola/permits/1142015795_1615265345.39/0/kotlin-stdlib-1-4-21-sources-1-jar/kotlin/reflect/KVisibility.kt
  * /opt/cola/permits/1142015795_1615265345.39/0/kotlin-stdlib-1-4-21-sources-1-jar/kotlin/ArrayIntrinsics.kt
  * /opt/cola/permits/1142015795_1615265345.39/0/kotlin-stdlib-1-4-21-sources-1-jar/kotlin/String.kt
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  * /opt/cola/permits/1142015795_1615265345.39/0/kotlin-stdlib-1-4-21-sources-1-jar/kotlin/Iterator.kt
  * /opt/cola/permits/1142015795_1615265345.39/0/kotlin-stdlib-1-4-21-sources-1-jar/kotlin/annotation/Annotations.kt
  * /opt/cola/permits/1142015795_1615265345.39/0/kotlin-stdlib-1-4-21-sources-1-jar/kotlin/Unit.kt
  * /opt/cola/permits/1142015795_1615265345.39/0/kotlin-stdlib-1-4-21-sources-1-jar/kotlin/Function.kt
  * /opt/cola/permits/1142015795_1615265345.39/0/kotlin-stdlib-1-4-21-sources-1-jar/kotlin/Any.kt
  * /opt/cola/permits/1142015795_1615265345.39/0/kotlin-stdlib-1-4-21-sources-1-jar/kotlin/CharSequence.kt
  * /opt/cola/permits/1142015795_1615265345.39/0/kotlin-stdlib-1-4-21-sources-1-jar/kotlin/reflect/KDeclarationContainer.kt
  * /opt/cola/permits/1142015795_1615265345.39/0/kotlin-stdlib-1-4-21-sources-1-jar/kotlin/Number.kt
  * /opt/cola/permits/1142015795_1615265345.39/0/kotlin-stdlib-1-4-21-sources-1-jar/kotlin/Char.kt
  * /opt/cola/permits/1142015795_1615265345.39/0/kotlin-stdlib-1-4-21-sources-1-jar/kotlin/Comparable.kt
  * /opt/cola/permits/1142015795_1615265345.39/0/kotlin-stdlib-1-4-21-sources-1-jar/kotlin/Throwerable.kt
  * /opt/cola/permits/1142015795_1615265345.39/0/kotlin-stdlib-1-4-21-sources-1-jar/kotlin/Boolean.kt
  * /opt/cola/permits/1142015795_1615265345.39/0/kotlin-stdlib-1-4-21-sources-1-jar/kotlin/reflect/KParameter.kt
  * /opt/cola/permits/1142015795_1615265345.39/0/kotlin-stdlib-1-4-21-sources-1-jar/kotlin/Nothing.kt
1.211 apache-commons-pool 2.4.3

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* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/RegularImmutableAsList.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/DescendingMultiset.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/AllEqualOrdering.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/ForwardingImmutableMap.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/FilteredSetMultimap.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/FilteredKeySetMultimap.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/ForwardingImmutableSet.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/CompactLinkedHashMap.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/SortedMultisetBridge.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/FilteredKeyListMultimap.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/DescendingImmutableSortedSet.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/ForwardingDeque.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/ForwardingNavigableSet.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/TreeTraverser.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/FilteredEntryMultimap.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/FilteredEntrySetMultimap.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/CompactHashMap.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/AbstractNavigableMap.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/TransformedIterator.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
*/

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* 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/1118682349_1608591170.06/0/guava-30-1-jre-sources-
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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/1118682349_1608591170.06/0/guava-30-1-jre-sources-
jar/com/google/common/collection/ImmutableSortedMapFauxVerideShim.java
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* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/BaseImmutableMultimap.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/JdkBackedImmutableBiMap.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/IndexedImmutableSet.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/JdkBackedImmutableMap.java

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* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/base/Splitter.java
jar/com/google/common/util/concurrent/AbstractService.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/Cut.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/escape/Scaprs.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/SparseImmutableTable.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/net/HostSpecifier.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/io/ByteArrayDataInput.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/xml/XmlEscapers.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/primitives/SignedBytes.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/escape/Platform.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/cache/CacheBuilder.java

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* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/DiscreteDomain.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/ImmutableSortedMap.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/ComputationException.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/EmptyImmutableSetMultimap.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/AbstractIndexedListIterator.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/ImmutableTable.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/ImmutableAsList.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/RegularImmutableSortedSet.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/ForwardingTable.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/ComparisonChain.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/ArrayTable.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/TableCollectors.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/RegularImmutableList.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/RegularImmutableList.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/SingletonImmutableTable.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/SingletonImmutableList.java

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* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/math/Quantiles.java
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* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/eventbus/Subscriber.java
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* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/ForwardingSortedSetMultimap.java
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* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/SortedMapDifference.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/UnmodifiableListIterator.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/AbstractSequentialIterator.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/ForwardingListMultimap.java

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*/
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  * /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/reflect/Types.java
  * /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/cache/LoadingCache.java
  * /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/cache/RemovalListener.java
  * /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/AbstractSortedMultiset.java
  * /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/cache/Cache.java
  * /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/util/concurrent/Uninterruptibles.java
  * /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/cache/RemovalCause.java
  * /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/base/Enums.java
  * /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/base/Optional.java
  * /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/hash/Funnels.java
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 */
/**
 * Holder for web specializations of methods of @code Doubles}. Intended to be empty for regular
 * version.
 */

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  * /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/primitives/DoublesMethodsForWeb.java
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* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/RegularImmutableBiMap.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/Platform.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/Range.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/util/concurrent/ServiceManagerBridge.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/base/Java8Usage.java

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* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/RegularImmutableBiMap.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/Platform.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/Range.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-
Jar/com/google/common/collect/Collections2.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
 */

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/ opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/ObjectArrays.java
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* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/graph/package-info.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java
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* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/MutableClassToInstanceMap.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/NullsLastOrdering.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/ForwardingMultiset.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/Multimaps.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/AbstractSetMultimap.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/AbstractMapEntry.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/ComparatorOrdering.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/HashMultimap.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/ForwardingCollection.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/ListMultimap.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/Iterables.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/ForwardingMapEntry.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/MapDifference.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/TreeMultiset.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/ImmutableSet.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/HashMultiset.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/ByFunctionOrdering.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/ClassToInstanceMap.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/AbstractListMultimap.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/AbstractIterator.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/UsingToStringOrdering.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/Iterators.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/RegularImmutableSet.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/ForwardingSet.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/ReverseOrdering.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/ForwardingMap.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/Multiset.java
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* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/graph/IncidentEdgeSet.java
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* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/util/concurrent/ClosingFuture.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/graph/AbstractBaseGraph.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/graph/Traverser.java

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* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/base/CommonPattern.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/base/PatternCompiler.java
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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.
 */

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  jar/com/google/common/collection/SortedMultisets.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](http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp), which contained the
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* `/opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/util/concurrent/CombinedFuture.java`
* `/opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/util/concurrent/AsyncCallable.java`
* `/opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/io/ReaderInputStream.java`
* `/opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/hash/MacHashFunction.java`
* `/opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/util/concurrent/Platform.java`
* `/opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/util/concurrent/AggregateFutureState.java`
* `/opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/hash/LittleEndianByteArray.java`
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* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/escape/UnicodeEscaper.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/base/Joiner.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/base/internal/Finalizer.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/base/Converter.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/primitives/Ints.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collect/FluentIterable.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/io/MultiReader.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/primitives/Floats.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/net/InetAddresses.java

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*/
/**
* Holder for web specializations of methods of { @code Ints }. Intended to be empty for regular
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*/

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*/
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* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/base/Suppliers.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/io/CountingOutputStream.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/base/Supplier.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/io/LineReader.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/base/package-info.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/base/Objects.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/eventbus/AsyncEventBus.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/eventbus/Subscribe.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/base/FinalizableReference.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/io/CharStreams.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/util/concurrent/DirectExecutor.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/collection/EnumMultiset.java
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* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/io/Flushables.java
* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-jar/com/google/common/io/Files.java
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    jar/com/google/common/collect/ImmutableRangeMap.java
  * /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-
    jar/com/google/common/reflect/Invokable.java
  * /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-
    jar/com/google/common/collect/ImmutableRangeSet.java
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  * /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-
    jar/com/google/common/cache/LongAddable.java
  * /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources-
    jar/com/google/common/io/ByteSink.java
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    jar/com/google/common/hash/LongAddables.java
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    jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
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* /opt/cola/permits/1118682349_1608591170.06/0/guava-30-1-jre-sources.jar/com/google/common/util/concurrent/SmoothRateLimiter.java
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1.217 jackson-databind 2.13.2.2

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Version: 3.0
Status: Final Release
Release: 8 May 2006
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* /opt/cola/permits/1127519953_1611825926.02/0/animal-sniffer-annotations-1-19-sources-
jar/org/codehaus/mojo/animal_sniffer/IgnoreJRERequirement.java

1.223 commons-codec 1.15

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* /opt/cola/permits/1274698784_1645233710.69/0/feign-jaxrs-8-18-0-sources-jar/feign/jaxrs/JAXRSContract.java

1.227 jdbi-sqlobject 3.21.0

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* /opt/cola/permits/1341639717_1654808651.9480019/0/jdbi3-sqlobject-3-21-0-sources-jar/META-INF/maven/org.jdbi/jdbi3-sqlobject/pom.xml
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* /opt/cola/permits/1341639717_1654808651.9480019/0/jdbi3-sqlobject-3-21-0-sources-
  jar/org/jdbi/v3/sqlobject/config/RegisterJoinRowMapper.java
* /opt/cola/permits/1341639717_1654808651.9480019/0/jdbi3-sqlobject-3-21-0-sources-
  jar/org/jdbi/v3/sqlobject/customizer/BindBeanList.java
* /opt/cola/permits/1341639717_1654808651.9480019/0/jdbi3-sqlobject-3-21-0-sources-
  jar/org/jdbi/v3/sqlobject/customizer/internal/OutParameterFactory.java
* /opt/cola/permits/1341639717_1654808651.9480019/0/jdbi3-sqlobject-3-21-0-sources-
  jar/org/jdbi/v3/sqlobject/Handler.java
* /opt/cola/permits/1341639717_1654808651.9480019/0/jdbi3-sqlobject-3-21-0-sources-
  jar/org/jdbi/v3/sqlobject/customizer/BindMethods.java
* /opt/cola/permits/1341639717_1654808651.9480019/0/jdbi3-sqlobject-3-21-0-sources-
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  jar/org/jdbi/v3/sqlobject/SqlMethodDecoratingAnnotation.java
* /opt/cola/permits/1341639717_1654808651.9480019/0/jdbi3-sqlobject-3-21-0-sources-
  jar/org/jdbi/v3/sqlobject/config/RegisterRowMapper.java
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  jar/org/jdbi/v3/sqlobject/customizer/DefaultMethodHandlerFactory.java
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* /opt/cola/permits/1341639717_1654808651.9480019/0/jdbi3-sqlobject-3-21-0-sources-jar/org/jdbi/v3/sqlobject/UnableToCreateSqlObjectException.java
* /opt/cola/permits/1341639717_1654808651.9480019/0/jdbi3-sqlobject-3-21-0-sources-jar/org/jdbi/v3/sqlobject/config/UseTemplateEngine.java
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* /opt/cola/permits/1341639717_1654808651.9480019/0/jdbi3-sqlobject-3-21-0-sources-jar/org/jdbi/v3/sqlobject/config/RegisterFieldMappersImpl.java
* /opt/cola/permits/1341639717_1654808651.9480019/0/jdbi3-sqlobject-3-21-0-sources-jar/org/jdbi/v3/sqlobject/config/RegisterRowMapperFactory.java
* /opt/cola/permits/1341639717_1654808651.9480019/0/jdbi3-sqlobject-3-21-0-sources-jar/org/jdbi/v3/sqlobject/statement(internal/ResultReturner.java
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* /opt/cola/permits/1341639717_1654808651.9480019/0/jdbi3-sqlobject-3-21-0-sources-jar/org/jdbi/v3/sqlobject/config/DestroyFactory.java
* /opt/cola/permits/1341639717_1654808651.9480019/0/jdbi3-sqlobject-3-21-0-sources-jar/org/jdbi/v3/sqlobject/config/RegisterFieldMappers.java

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1.228 \texttt{javax-ws-rs-api} 2.0.1

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### 1.231 javassist 3.22.0-GA

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 */

Found in path(s):
* /opt/cola/permits/1145434175_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/ClassFileWriter.java
* /opt/cola/permits/1145434175_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/scopedpool/ScopedClassPoolFactory.java
* /opt/cola/permits/1145434175_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/compiler/JvstTypeChecker.java
* /opt/cola/permits/1145434175_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/LineNumberAttribute.java
* /opt/cola/permits/1145434175_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/ClassWriter.java
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* /opt/cola/permits/1145434175_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1145434175_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1145434175_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1145434175_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/annotation/CharMemberValue.java
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* /opt/cola/permits/1145434175_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1145434175_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1145434175_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1145434175_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1145434175_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1145434175_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1145434175_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1145434175_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1145434175_1616152007.27/0/javassist-3-22-0-ga-sources-5-
1.232 json-schema-validator 2.2.14

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### Pablo Pinhero

* Add a "lib" target to the build: jar with all dependencies builtin.
### Corey Sciuto

* Tests for date-time format attribute; date-time-millis format attribute (now superseded by date-time itself).

### Matt Bishop:

* Initial OSGi support for maven (now superseded by Gradle).

### Kelvin Pho

* Pointer collectors for draft v4 keywords (since then moved to -core).

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1.233 findbugs-jsr305 3.0.2

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1.234 xml-path 4.3.3
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* /opt/cola/permits/1340076242_1654622374.085916/0/xml-path-4-3-3-sources-3.jar/io/restassured/internal/path/xml/NodeImpl.groovy
* /opt/cola/permits/1340076242_1654622374.085916/0/xml-path-4-3-3-sources-3.jar/io/restassured/internal/path/xml/XmlPrettifier.groovy
* /opt/cola/permits/1340076242_1654622374.085916/0/xml-path-4-3-3-sources-3.jar/io/restassured/path/xml/config/XmlPathConfig.java
* /opt/cola/permits/1340076242_1654622374.085916/0/xml-path-4-3-3-sources-3.jar/io/restassured/path/xml/mapper/factory/DefaultJAXBObjectMapperFactory.java
* /opt/cola/permits/1340076242_1654622374.085916/0/xml-path-4-3-3-sources-3.jar/io/restassured/path/xml/mapping/XmlPathJaxbObjectDeserializer.groovy
* /opt/cola/permits/1340076242_1654622374.085916/0/xml-path-4-3-3-sources-3.jar/io/restassured/internal/path/xml/GroovyNodeSerializer.groovy
* /opt/cola/permits/1340076242_1654622374.085916/0/xml-path-4-3-3-sources-3.jar/io/restassured/internal/path/xml/NodeBase.groovy
* /opt/cola/permits/1340076242_1654622374.085916/0/xml-path-4-3-3-sources-3.jar/io/restassured/path/xml/mapper/factory/JAXBObjectMapperFactory.java
* /opt/cola/permits/1340076242_1654622374.085916/0/xml-path-4-3-3-sources-3.jar/io/restassured/path/xml/mapping/XmlPathObjectDeserializer.java
* /opt/cola/permits/1340076242_1654622374.085916/0/xml-path-4-3-3-sources-3.jar/io/restassured/path/xml/XmlPath.java
* /opt/cola/permits/1340076242_1654622374.085916/0/xml-path-4-3-3-sources-3.jar/io/restassured/path/xml/element/Node.java
* /opt/cola/permits/1340076242_1654622374.085916/0/xml-path-4-3-3-sources-3.jar/io/restassured/internal/path/xml/NodeChildrenImpl.groovy
* /opt/cola/permits/1340076242_1654622374.085916/0/xml-path-4-3-3-sources-3.jar/io/restassured/path/xml/exception/XmlPathException.java
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* /opt/cola/permits/1340076242_1654622374.085916/0/xml-path-4-3-3-sources-3.jar/io/restassured/internal/path/xml/XMLObjectDeserializer.groovy
* /opt/cola/permits/1340076242_1654622374.085916/0/xml-path-4-3-3-sources-3.jar/io/restassured/path/xml/element/PathElement.java
* /opt/cola/permits/1340076242_1654622374.085916/0/xml-path-4-3-3-sources-3.jar/io/restassured/path/xml/element/NodeChildren.java

1.235 slf4j-api-module 1.7.21
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* /opt/ws_local/PERMITS_SQL/1010620336_1591383844.85/0/slf4j-api-1-7-21-sources-jar/org/slf4j/impl/StaticMarkerBinder.java
* /opt/ws_local/PERMITS_SQL/1010620336_1591383844.85/0/slf4j-api-1-7-21-sources-jar/org/slf4j/MarkerFactory.java
* /opt/ws_local/PERMITS_SQL/1010620336_1591383844.85/0/slf4j-api-1-7-21-sources-jar/org/slf4j/spi/LocationAwareLogger.java
* /opt/ws_local/PERMITS_SQL/1010620336_1591383844.85/0/slf4j-api-1-7-21-sources-jar/org/slf4j/helpers/SubstituteLoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1010620336_1591383844.85/0/slf4j-api-1-7-21-sources-jar/org/slf4j/helpers/BasicMDCAdapter.java
* /opt/ws_local/PERMITS_SQL/1010620336_1591383844.85/0/slf4j-api-1-7-21-sources-jar/org/slf4j/impl/StaticLoggerBinder.java
* /opt/ws_local/PERMITS_SQL/1010620336_1591383844.85/0/slf4j-api-1-7-21-sources-jar/org/slf4j/Marker.java
* /opt/ws_local/PERMITS_SQL/1010620336_1591383844.85/0/slf4j-api-1-7-21-sources-jar/org/slf4j/helpers/NOPMDCAdapter.java
* /opt/ws_local/PERMITS_SQL/1010620336_1591383844.85/0/slf4j-api-1-7-21-sources-jar/org/slf4j/Logger.java
* /opt/ws_local/PERMITS_SQL/1010620336_1591383844.85/0/slf4j-api-1-7-21-sources-jar/org/slf4j/helpers/BasicMarker.java
* /opt/ws_local/PERMITS_SQL/1010620336_1591383844.85/0/slf4j-api-1-7-21-sources-
1.236 jackson-module-parameter-names

2.10.3

1.236.1 Available under license:

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1.237 groovy-liquibase-dsl 3.0.2

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* /opt/cola/permits/1341639807_1654809483.2269216/0/liquibase-groovy-dsl-3-0-2-sources-jar/org/liquibase/groovy/delegate/KeyValueDelegate.groovy

1.238 checker-qual 3.15.0
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1.239 dropwizard-jersey-support 2.0.25

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1.240 rest-assured-common 4.3.3

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jar/io/restassured/internal/common/assertion/AssertionSupport.groovy
* /opt/cola/permits/1340076318_1654622352.7082882/0/rest-assured-common-4-3-3-sources-2-
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* /opt/cola/permits/1340076318_1654622352.7082882/0/rest-assured-common-4-3-3-sources-2-
jar/io/restassured/common/mapper/DataToDeserialize.java
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1.241 jackson-core 2.13.2
1.241.1 Available under license:

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1.244 rxjava 1.2.9

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* /opt/cola/permits/1294624893_1648234539.84/0/rxjava-1-2-9-sources-jar/rx/internal/operators/SingleDoOnSubscribe.java
* /opt/cola/permits/1294624893_1648234539.84/0/rxjava-1-2-9-sources-jar/rx/exceptions/AssemblyStackTraceException.java
* /opt/cola/permits/1294624893_1648234539.84/0/rxjava-1-2-9-sources-jar/rx/internal/operators/EmptyObservableHolder.java
* /opt/cola/permits/1294624893_1648234539.84/0/rxjava-1-2-9-sources-jar/rx/internal/operators/SingleFromFuture.java
* /opt/cola/permits/1294624893_1648234539.84/0/rxjava-1-2-9-sources-jar/rx/plugins/RxJavaSingleExecutionHookDefault.java
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* /opt/cola/permits/1294624893_1648234539.84/0/rxjava-1-2-9-sources-jar/rx/plugins/RxJavaCompletableExecutionHook.java
* /opt/cola/permits/1294624893_1648234539.84/0/rxjava-1-2-9-sources-jar/rx/internal/schedulers/GenericScheduledExecutorServiceFactory.java
* /opt/cola/permits/1294624893_1648234539.84/0/rxjava-1-2-9-sources-jar/rx/internal/subscriptions/CancellableSubscription.java
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* /opt/cola/permits/1294624893_1648234539.84/0/rxjava-1-2-9-sources-jar/rx/exceptions/package-info.java
* /opt/cola/permits/1294624893_1648234539.84/0/rxjava-1-2-9-sources-jar/rx/internal/schedulers/SchedulePeriodicHelper.java
* /opt/cola/permits/1294624893_1648234539.84/0/rxjava-1-2-9-sources-jar/rx/internal/operators/SingleDelay.java
* /opt/cola/permits/1294624893_1648234539.84/0/rxjava-1-2-9-sources-jar/rx/observations/package-info.java
* /opt/cola/permits/1294624893_1648234539.84/0/rxjava-1-2-9-sources-jar/rx/internal/operators/SingleObserveOn.java
* /opt/cola/permits/1294624893_1648234539.84/0/rxjava-1-2-9-sources-jar/rx/annotaions/package-info.java
* /opt/cola/permits/1294624893_1648234539.84/0/rxjava-1-2-9-sources-jar/rx/plugins/RxJavaHooks.java
* /opt/cola/permits/1294624893_1648234539.84/0/rxjava-1-2-9-sources-jar/rx/BackpressureOverflow.java
* /opt/cola/permits/1294624893_1648234539.84/0/rxjava-1-2-9-sources-jar/rx/internal/operators/SingleObserveOn.java
* /opt/cola/permits/1294624893_1648234539.84/0/rxjava-1-2-9-sources-jar/rx/internal/operators/SingleTimeout.java
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* /opt/cola/permits/1294624893_1648234539.84/0/rxjava-1-2-9-sources-jar/rx/subjects/package-info.java
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This package contains code that relies on sun.misc.Unsafe. Before using it you MUST assert
UnsafeAccess.isUnsafeAvailable() == true

Much of the code in this package comes from or is inspired by the JCTools project:
https://github.com/JCTools/JCTools

JCTools has now published artifacts (https://github.com/JCTools/JCTools/issues/17) so RxJava could add JCTools
as a "shadow” dependency (https://github.com/ReactiveX/RxJava/issues/1735).
RxJava has a "zero dependency” policy for the core library, so if we do add it as a dependency, it won't be an
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The license for the JCTools code is https://github.com/JCTools/JCTools/blob/master/LICENSE

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* /opt/cola/permits/1294624893_1648234539.84/0/rxjava-1-2-9-sources-jar/rx/internal/operators/BackpressureUtils.java
* /opt/cola/permits/1294624893_1648234539.84/0/rxjava-1-2-9-sources-jar/rx/internal/producers/SingleDelayedProducer.java
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  jar/rx/internal/operators/CompletableOnSubscribeMergeDelayErrorArray.java
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  jar/rx/internal/operators/OnSubscribeAutoConnect.java
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  jar/rx/internal/operators/OnSubscribeAutoConnect.java
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  jar/rx/internal/operators/OnSubscribeAutoConnect.java
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  jar/rx/internal/operators/OnSubscribeAutoConnect.java
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  jar/rx/internal/operators/OnSubscribeAutoConnect.java
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  jar/rx/internal/operators/OnSubscribeAutoConnect.java
* /opt/cola/permits/1294624893_1648234539.84/0/rxjava-1-2-9-sources-jar/rx/exceptions/OnErrorFailedException.java
* /opt/cola/permits/1294624893_1648234539.84/0/rxjava-1-2-9-sources-jar/rx/internal/operators/OnSubscribeDoOnEach.java
* /opt/cola/permits/1294624893_1648234539.84/0/rxjava-1-2-9-sources-jar/rx/internal/operators/OperatorWithLatestFromMany.java
* /opt/cola/permits/1294624893_1648234539.84/0/rxjava-1-2-9-sources-jar/rx/internal/operators/OperatorSerialize.java
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  jar/rx/internal/operators/OnSubscribeFlatMapCompletable.java
  */opt/cola/permits/1294624893_1648234539.84/0/rxjava-1-2-9-sources-
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  core/src/main/java/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
  */

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  * the 3 methods that return Scheduler (io(), computation(), newThread()).
  * 2. You may wrap/decorate an {@link Action0}, before it is handed off to a Scheduler. The system-
  * supplied Schedulers (Schedulers.ioScheduler, Schedulers.computationScheduler,
  * Scheduler.newThreadScheduler) all use this hook, so it's a convenient way to
  * modify Scheduler functionality without redefining Schedulers wholesale.
  *
  * Also, when redefining Schedulers, you are free to use/not use the onSchedule decoration hook.
  * <p>
  * See {@link RxJavaPlugins} or the RxJava GitHub Wiki for information on configuring plugins:
  */

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* /opt/cola/permits/1294624893_1648234539.84/0/rxjava-1-2-9-sources-jar/rx/internal/operators/CompletableFromEmitter.java

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Other developers who have contributed code are:

* Eric Bie contributed extensive unit test suite which has helped ensure high implementation quality

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Found in path(s):
* /opt/cola/permits/1131827181_1613019867.86/0/feign-jackson-11-0-sources-2-jar/feign/jackson/JacksonDecoder.java
* /opt/cola/permits/1131827181_1613019867.86/0/feign-jackson-11-0-sources-2-jar/feign/jackson/JacksonIteratorDecoder.java

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* /opt/cola/permits/1131827181_1613019867.86/0/feign-jackson-11-0-sources-2-
  jar/feign/jackson/JacksonEncoder.java
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Found in path(s):
* /opt/cola/permits/1131827181_1613019867.86/0/feign-jackson-11-0-sources-2-jar/META-
  INF/maven/io.github.openfeign/feign-jackson/pom.xml

1.251 utils 5.5.5

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1.253 antlr 4.9.2

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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;
}

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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;

public GrammarTreeVisitor() { this(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);
}
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);
sql

```java
optionValue returns [String v]
@init {
enterOptionValue($start);
$v = $start.token.getText();
}
@after {
exitOptionValue($start);
}

delegateGrammars
@init {
enterDelegateGrammars($start);
}
@after {
exitDelegateGrammars($start);
}

delegateGrammar
@init {
enterDelegateGrammar($start);
}
@after {
exitDelegateGrammar($start);
}

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($start);
}
mode
@init {
enterMode($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);
}
\( \text{^((RULE RULE \_REF {currentRuleName=$RULE\_REF.text; currentRuleAST=$RULE;} (RULEMODIFIERS (m=ruleModifier{mods.add($m.start);})+)))*} \)
\( \text{\textbf{ARG\_ACTION}?} \)
\( \text{ret=ruleReturns?} \)
\( \text{thr=throwsSpec?} \)
\( \text{loc=locals?} \)
\( \text{(opts=optionsSpec} \)
\( | \text{ a=ruleAction} \{a.start\}} \)
\( \text{)*} \)
\( \text{\{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));\}
\( \text{ruleBlock exceptionGroup} \)
\( \text{\{finishRule((RuleAST)$RULE, $RULE\_REF, $ruleBlock.start); currentRuleName=null; currentRuleAST=null;\}} \)
\( \text{;} \)
\( \text{exceptionGroup} \)
\( \text{@init} \{ \}
\( \text{enterExceptionGroup($start);} \)
\( \text{\} \)
\( \text{@after} \{ \}
\( \text{exitExceptionGroup($start);} \)
\( \text{\} \)
\( \text{:exceptionHandler* finallyClause?} \)
\( \text{;} \)
\( \text{exceptionHandler} \)
\( \text{@init} \{ \}
\( \text{enterExceptionHandler($start);} \)
\( \text{\} \)
\( \text{@after} \{ \}
\( \text{exitExceptionHandler($start);} \)
\( \text{\} \)
\( \text{:^(CATCH ARG\_ACTION ACTION)} \{\text{ruleCatch($ARG\_ACTION, (ActionAST)$ACTION);}\}
\( \text{;} \)
\( \text{finallyClause} \)
\( \text{@init} \{ \}
\( \text{enterFinallyClause($start);} \)
\( \text{\} \)
\( \text{@after} \{ \}
\( \text{exitFinallyClause($start);} \)
\( \text{\} \)
\( \text{:^(FINALLY ACTION)} \{\text{finallyAction((ActionAST)$ACTION);}\}
\( \text{;} \)
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);
}
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);
}
| ^((NOT blockSet)
| ^(NOT block)
; 

labeledElement
@init {
enterLabeledElement($start);
}
@after {
exitLabeledElement($start);
}
| ^((ASSIGN|PLUS_ASSIGN) ID element) {label($start, SID, Selement.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
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);
}
::\(\text{RULE\_REF} \ \text{arg=} ARG\_ACTION? \ \text{elementOptions}?\)

{ 
ruleRef(SRULE\_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);\}

\[\text{^\(\text{TOKEN\_REF} \ \text{elementOptions}\)\{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);
}
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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.
 */
```python
* 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
if sys.version_info[1] > 5:
    from typing import TextIO
else:
    from typing.io import TextIO

<namedActions.header>
<parsers>

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):
```
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">

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

parser_ctor(p) ::= <<
def __init__(self, input:TokenStream, output:TextIO = sys.stdout):
    super().__init__(input, output)
    self.checkVersion("<file.ANTLRVersion>")
    self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
    self._predicates = None
>>
/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
def <r.name>_action(self, localctx:<r.ctxType> , actionIndex:int):
    <actions:{index|
        <if(first(actions))>
        if actionIndex == <index>:
            <actions.(index)>
        <elseif(rest(actions))>
        elif actionIndex == <index>:
            <actions.(index)>
        </endif> }; separator="\n"
>>

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

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

>>

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

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

    >>

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

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

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

  >>

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

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

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

>>

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

>>

// LL(*) stuff

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

>>

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

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

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_al = 1<if(!choice.ast.greedy)>+1<endif>
while _al!=<choice.exitAlt> and _al!=ATN.INVALID_ALT_NUMBER:
  <alts:{alt|
  if _al == <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
  else:
    <error>
    self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
    self._errHandler.sync(self)
    _al = 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) ::= <|
(\text{testShiftInRange}(\langle\text{offsetShiftVar}(s.varName, \text{bits.shift})\rangle) \land ((1 \ll \langle\text{offsetShiftVar}(s.varName, \text{bits.shift})\rangle) \& (\langle\text{bits.ttypes} : \{ \text{ttype} | (1 \ll \langle\text{offsetShiftType}(\text{ttype, bits.shift})\rangle) \rangle \neq 0) \\
]%>

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

offsetShiftVar(shiftAmount, offset) ::= <|
\text{if}(\text{isZero}(\text{offset}))\langle\text{shiftAmount}\rangle - \langle\text{offset}\rangle\rangle\langle\text{shiftAmount}\rangle\langle\text{endif}
%

offsetShiftType(shiftAmount, offset) ::= <|
\text{if}(\text{isZero}(\text{offset}))\langle\text{parser.name}\rangle.\langle\text{shiftAmount}\rangle - \langle\text{offset}\rangle\rangle\langle\text{else}\rangle\langle\text{parser.name}\rangle.\langle\text{shiftAmount}\rangle\langle\text{endif}
%

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

cases(ttypes) ::= <<
\text{if token in} \langle\text{ttypes} : \{ \text{t} | \langle\text{parser.name}\rangle.\langle\text{t}\rangle \} \rangle \langle\text{separator}, \rangle \rangle;
\text{separator}, \rangle]
>>

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

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

MatchSet(m, expr, capture) ::= "\langle\text{CommonSetStuff}(\text{m}, \text{expr}, \text{capture}, \text{false})\rangle"

MatchNotSet(m, expr, capture) ::= "\langle\text{CommonSetStuff}(\text{m}, \text{expr}, \text{capture}, \text{true})\rangle"

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

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

// ACTION STUFF

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

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

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

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

// lexer actions are not associated with model objects

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

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

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValueRef(a) ::= "localctx.<a.name>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"

/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null=[Token]>"
InputSymbolType() ::= "<file.InputSymbolType; null=[Token]>"

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

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

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

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

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

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

ContextTokenGetterDecl(t) ::= <<
    def <t.name>(self):
        return self.getToken(<parser.name>.<t.name>, 0)
>>
// should never be called
ContextTokenListGetterDecl(t) ::= <<
def <t.name>_list(self):
    return self.getTokens(<parser.name>,<t.name>)
>>

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

ContextRuleGetterDecl(r) ::= <<
def <r.name>(self):
    return self.getTypedRuleContext(<parser.name>,<r.ctxName>,0)
>>

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

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

LexerRuleContext() ::= "RuleContext"

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

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"
CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers) ::= <<
class <struct.name>(<if(contextSuperClass)<contextSuperClass><else>ParserRuleContext<endif>):
  __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 | self.<a.name> = <a.name>}; separator="\n">
    <struct.ctorAttrs:{a | <a>}; separator="\n">
    <getters:{g | <g>}; separator="\n
  def getRuleIndex(self):
    return <parser.name>.RULE_<struct.derivedFromName>

  <! 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">

  <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, _parentctx, _parentState)
    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, named Actions) ::= <<
<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"
channelNames = [ u"DEFAULT_TOKEN_CHANNEL", u"HIDDEN" ]

modeNames = [ u"<m>"]

literalNames = [ u"<t>"]

symbolicNames = [ u"<t>"]

ruleNames = [ u"<t>"]

grammarFileName = u"<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

    SerializedATN(model) ::= <<
        buf.write("<model.serialized; wrap=\"\">")
        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.

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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.
 */

/** 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) {} // TODO: can get parser errors for not matching pattern; make them go away
    public void binaryAlt(AltAST altTree, int alt) {} // public
    public void prefixAlt(AltAST altTree, int alt) {} // public
    public void suffixAlt(AltAST altTree, int alt) {} // public
    public void otherAlt(AltAST altTree, int alt) {} // public
    public void setReturnValues(GrammarAST t) {} // public
}

@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
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)
    | ^(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
    |epsilonElement
epsilonElement
  : ACTION
  | SEMPRE
  | 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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 */

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

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

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
    <fileHeader(file.grammarFileName, file.ANTLRVersion)>
    <if(file.genPackage)>
        library <file.genPackage>;
    <endif>
    import 'package:antlr4/antlr4.dart';
    import 'dart:io';
    <if(file.genListener)>
        part '<file.grammarName>Listener.dart';
        part '<file.grammarName>BaseListener.dart';
    <endif>
    <if(file.genVisitor)>
        part '<file.grammarName>Visitor.dart';
        part '<file.grammarName>BaseVisitor.dart';
    <endif>
    part '<file.grammarName>Lexer.dart';
    <else>
        import 'package:antlr4/antlr4.dart';
        import 'dart:io';
        <if(file.genListener)>
            import '<file.grammarName>Listener.dart';
            import '<file.grammarName>BaseListener.dart';
        <endif>
        <if(file.genVisitor)>
            import '<file.grammarName>Visitor.dart';
            import '<file.grammarName>BaseVisitor.dart';
        <endif>
        import 'package:antlr4/antlr4.dart';
        import 'dart:io';
    </else>
    <endif>
    <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>
    <<
*/
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';
  <endif>
  <header>
  /// This abstract class defines a complete listener for a parse tree produced by
  /// [<file.parserName>].
  abstract class <file.grammarName>Listener extends ParseTreeListener {
  <file.listenerNames:{lname |
  <if(file.listenerLabelRuleNames.(lname))>
  /// Enter a parse tree produced by the [<lname>]
  /// labeled alternative in [<file.parserName>..<file.listenerLabelRuleNames.(lname)>].
  <else>
  /// Enter a parse tree produced by [<file.parserName>..<lname>].
  <endif>
  /// [ctx] the parse tree
  void enter<lname; format="cap">(<lname; format="cap">Context ctx);
  <if(file.listenerLabelRuleNames.(lname))>
  /// Exit a parse tree produced by the [<lname>]
  /// labeled alternative in [<file.parserName>..<file.listenerLabelRuleNames.(lname)>].
  <else>
  /// Exit a parse tree produced by [<file.parserName>..<lname>].
  <endif>
  /// [ctx] the parse tree
  void exit<lname; format="cap">(<lname; format="cap">Context ctx); separators="\n">
  }
  >>

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

$header$

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

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

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

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

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

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

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

}</file.grammarName>BaseListener.

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><p>/// This abstract class defines a complete generic visitor for a parse tree</p><p/// produced by [<file.parserName>].</p><p/// /// [T] is the return type of the visit operation. Use `void` for</p><p/// operations with no return type.</p><p CREATED>abstract class <file.grammarName>Visitor\<T> extends ParseTreeVisitor\<T> {</p><p CREATED>/// Visit a parse tree produced by the [@code <lname>]</p><p CREATED>/// labeled alternative in [@link <file.parserName>#$file.visitorLabelRuleNames.(lname)>].</p><p CREATED>/// Visit a parse tree produced by [<file.parserName>.<lname>].</p><p CREATED>/// [ctx] the parse tree.</p><p CREATED>/// Return the visitor result.</p><p CREATED>T visit<lname; format="cap">(<lname; format="cap">Context ctx);}</p><p CREATED>} separator="\n"></p><p CREATED>}</p><p CREATED>BaseVisitorFile(file, header, namedActions) ::= <<</p><p CREATED><fileHeader(file.grammarFileName, file.ANTLRVersion)>p</p><p CREATED>part of <file.genPackage>; </p><p CREATED>import 'package:antlr4/antlr4.dart';import '<file.parserName>.dart';import '<file.grammarName>Visitor.dart';<endif><header><p>/// This class provides an empty implementation of [<file.grammarName>Visitor],</p><p/// which can be extended to create a visitor which only needs to handle</p><p/// a subset of the available methods.</p><p/// /// [T] is the return type of the visit operation. Use `void` for</p><p/// operations with no return type.</p><p CREATED>class <file.grammarName>BaseVisitor\<T> extends ParseTreeVisitor\<T> implements</p><p CREATED><file.grammarName>Visitor\<T> {</p><p CREATED>/// The default implementation returns the result of calling</p><p CREATED>/// [visitChildren] on [ctx].</p><p CREATED>@override</p><p CREATED>T visit<lname; format="cap">(<lname; format="cap">Context ctx) => visitChildren(ctx);}</p><p CREATED>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) ::= <<
<Parsers_(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>
@override
bool sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
    case <f.ruleIndex>: 
        return _f.name_.sempred(_localctx, predIndex);} separator="\n"
    }
    return true;
    }
    <sempredFuncs.values; separator="\n">
@endif>

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

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) {
        case <f.ruleIndex>: 
            _f.name_.action(_localctx, actionIndex); 
            break;}; separator="\n"
    }
    <actionFuncs; separator="\n">
@endif>


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

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

RuleFunction(currentRule, args, code, locals, ruleCtx, altLabelCtxs, namedActions, finallyAction, postamble, exceptions) ::= <<
    <if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else><currentRule.ctxType><currentRule.name>({args; separator="", "}) {
dynamic _localctx = <currentRule.ctxType>(context, state<currentRule.args:{a | , <a.name>}>);
enterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
<namedActions.init>
<locals; separator="\n">
try {
    <if(currentRule.hasLookaheadBlock)>
        int _alt;
        <endif>
        <code>
            <postamble; separator="\n">
        </namedActions.after>
            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 {
                            return _localctx;
                        }
                    } finally {
                        <finallyAction>
                    }
                }
            }
        }
        <finallyAction>
    }
    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 {
                        return _localctx;
                    }
        }
    }

```
<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);
<preamble; separator="\n">
<if(choice.label)><labelref(choice.label)> = tokenStream.LT(1);<endif>
<alts:{alt | case <i>:
<alt>
break;}; separator="\n">
}
>>

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

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

PlusBlock(choice, alts, error) ::= <<
state = <choice.blockStartStateNumber>; <! alt block decision !>
errorHandler.sync(this);
_alts = 1<if(!choice.ast.greedy)>+1<endif>;
do {
switch (_alts) {
<alts:{alt|
case <i><if(!choice.ast.greedy)> + 1<endif>:
<alt>
break;}; separator="\n">
default:
<error>
}
state = <choice.loopBackStateNumber>; <! loopback/exit decision !>
errorHandler.sync(this);
_alts = interpreter.adaptivePredict(tokenStream, <choice.decision>, context);
} while (_alts != <choice.exitAlt> && _alts != 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({TOKEN_<ttype>}, bits.shift)>)) & (<bits.ttypes:{ttype | (BigInt.one << <offsetShift(TOKEN_<ttype>, bits.shift)>)}; separator=" | ">)) != BigInt.zero)
%>

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

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

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

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

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

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

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

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

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

// ACTION STUFF

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

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

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

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

// lexer actions are not associated with model objects

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

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

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

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

TokenPropertyRef_text(t) ::= "<ctx(t)>.<t.label>?.text"
TokenPropertyRef_type(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.type : 0""
TokenPropertyRef_line(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.line : 0""
TokenPropertyRef_pos(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.charPositionInLine : 0""
TokenPropertyRef_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_ctxt(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_ctxt(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<\text{Token}> \ <t.name> = List<\text{Token}>()"
RuleContextDecl(r) ::= "\ <r.ctxName> <r.name>"
RuleContextListDecl(rdecl) ::= "List\{\ <rdecl.ctxName>> <rdecl.name> = List\{\ <rdecl.ctxName>\}()"

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

LexerRuleContext() ::= "RuleContext"

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

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

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

StructDecl(struct, ctorAttrs, attrs, getters, dispatchMethods, interfaces, extensionMembers)
::= <<
class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext</endif><if(interfaces)> implements
<interfaces; separator=","<endif> { 
<attrs:{a | <a>;}; separator="\n"> 
<ctors:{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)>


import 'package:antlr4/antlr4.dart';

class $lexer 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;
  if(lexer.channels) static const int lexer.channels:{c | <c> = lexer.channels.(c)}; separator=" ", wrap, anchor;
  if(rest(lexer.modes)) static const int rest(lexer.modes):{m | <m> = <i>}; separator=" ", wrap, anchor;
  @override final List\<String> channelNames = [
    'DEFAULT_TOKEN_CHANNEL', 'HIDDEN'if (lexer.channels), <lexer.channels:{c | '<c>'}; separator=" ", wrap, anchor>
  ];
  @override final List\<String> modeNames = [
    <lexer.modes:{m | '<m>'}; separator=" ", wrap, anchor>
  ];
  @override final List\<String> ruleNames = [
    <lexer.ruleNames:{r | '<r>'}; separator=" ", wrap, anchor>
  ];
<vocabulary(lexer.literalNames, lexer.symbolicNames)>

<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"]';}; 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 = '<modelserialized; wrap=["\n"]'>;
@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"

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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
 */

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

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

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 */

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

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

// args must be <object-model-object>, <fields-resulting-in-STs>
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';
<if(file.genListener)>
import <file.grammarName>Listener from './<file.grammarName>Listener.js';
<endif>
<if(file.genVisitor)>
import <file.grammarName>Visitor from './<file.grammarName>Visitor.js';
<endif>

<namedActions.header>
<parser>
>>

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

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

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

}
>>

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

// This class defines a complete generic visitor for a parse tree produced by <file.parserName>.
export default class <file.grammarName>Visitor extends antlr4.tree.ParseTreeVisitor {

<file.visitorNames:{lname |
// Visit a parse tree produced by <file.parserName>#<lname>.
visit<lname; format="cap">(ctx) {
  return this.visitChildren(ctx);
}
}; separator="\n">

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

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

<atn>

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

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

const sharedContextCache = new antlr4.PredictionContextCache();

export default class <parser.name> extends <superClass; null="antlr4.Parser"> {
    static grammarFileName = '<parser.grammarFileName; format="java-escape">';
    static literalNames = [<parser.literalNames:{t | <t>}; null="null", separator=', ', wrap, anchor> ];
    static symbolicNames = [<parser.symbolicNames:{t | <t>}; null="null", separator=', ', wrap, anchor> ];
    static ruleNames = [<parser.ruleNames:{r | "<r>"}; separator=', ', wrap, anchor> ];

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

    get atn() {
        return atn;
    }

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

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

<funcs; separator="\n">

} 

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

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

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
<lexer.name>.prototype.action = function(localctx, ruleIndex, actionIndex) {
    switch (ruleIndex) {
        <recog.actionFuncs.values:{f}
            case <f.ruleIndex>:
                this.<f.name>_action(localctx, actionIndex);
                break;
        ; separator="\n">
        default:
            throw "No registered action for:" + ruleIndex;
    }

    <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;
    }
/* 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, localsCtx, 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"> 
    }<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, localsCtx, 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) {
    locctx.exception = error;
    this._errHandler.reportError(this, error);
    this._errHandler.recover(this, error);
  } else {
    throw error;
  }
} finally {
  <finallyAction>
    this.unrollRecursionContexts(_parentctx)
  }
return locctx;
}

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:
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(0) 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>
if()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);"

testShiftInRange(shiftAmount) ::= 

// Javascript language spec - shift operators are 32 bits long max
bitsetBitfieldComparison(s, bits) ::= <%
(t<shiftAmount> & ~0x1f) == 0
%>

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)> this.labels:{l | <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)> this.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)> this.labels:{l | <labelref(l)> = }><endif>this.input.LT(1);<endif>
capture
<if(invert)> if(<m.varName>&lt;=0 || <expr>)<else>if(!(<expr>))<endif> {
  <if(m.labels)> this.labels:{l | <labelref(l)> = }><endif>this.errHandler.recoverInline(this);
}
else {
  this.errHandler.reportMatch(this);
  this.consume();
}
>>

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

 // ACTION STUFF

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

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

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

// lexer actions are not associated with model objects

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

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValueRef(a) ::= "localctx.<a.name>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"

/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

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

TokenPropertyRef_text(t) ::= "((<ctx(t)>.<t.label>===null ? null : (<ctx(t)>.<t.label>).text)"
TokenPropertyRef_type(t) ::= "((<ctx(t)>.<t.label> === null ? 0 : (<ctx(t)>.<t.label>).type)"
TokenPropertyRef_line(t) ::= "((<ctx(t)>.<t.label> === null ? 0 : (<ctx(t)>.<t.label>).line)"
TokenPropertyRef_pos(t) ::= "((<ctx(t)>.<t.label> === null ? 0 : (<ctx(t)>.<t.label>).column)"
TokenPropertyRef_channel(t) ::= "((<ctx(t)>.<t.label> === null ? 0 : (<ctx(t)>.<t.label>).channel)"
TokenPropertyRef_tokenIndex(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);
    }
  }
>>

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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) ::= "_<set<id>"
ListLabelName(label) ::= "<label>"

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

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

}}
#endif;

>>

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) ::= "_<set<id>"
ListLabelName(label) ::= "<label>"

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

StructDecl(struct,ctorAttrs,attrs,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">
}</attrs>
<getters:{g | <g>}; separator="\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">
}</struct.attrs>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">
</dispatchMethods>
#endif

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"

  <dispatchMethods; separator="\n">

}</dispatchMethods>

<! 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>
    <if(!label)>
      localctx.<label>.push(_prevctx);
    </if>
  </if>
  localctx.<label>.push(localctx);
>>
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\t"}"]].join("\n");

>>

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

Found in path(s):
* /opt/cola/permissions/1300428068_1649144266.79/stdlib/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.

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

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

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

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

<parser>
>>

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

/**
* This interface defines a complete listener for a parse tree produced by
* {@link <file.parserName>}
*
*/
<accessLevelNotOpen(file)> protocol <file.grammarName>Listener: ParseTreeListener {
<file.listenerNames:{lname |
/**
* Enter a parse tree produced by the {@code <lname>}
* labeled alternative in {@link <file.parserName>#{<file.listenerLabelRuleNames.(lname)>}.
*<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)
}
/**
 * Exit a parse tree produced by the \{@code <lname>\}
 * labeled alternative in \{@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
 * \else\n * Exit a parse tree produced by \{@link <file.parserName>#<lname>\}.
 * \endif\n * - Parameters:
 *   - \texttt{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\}
 * \n<p>The default implementation does nothing.\</p>
 *\*/
<accessLevelOpenOK(file)> func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context) { \}

/**
 * \{@inheritDoc\}
 * \n<p>The default implementation does nothing.\</p>
 *\*/
<accessLevelOpenOK(file)> func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context) { \}; separator="\n">
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 | 
* Visit a parse tree produced by the [ @code <lname> ]
* labeled alternative in [ @link <file.parserName> #<file.visitorLabelRuleNames.(lname)> ];}
}}
Visit a parse tree produced by \{@link file.parserName}\#<lname>\}.

- 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)>
<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 }

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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) {
        case <f.ruleIndex>: return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)}
        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 | if _ }><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) ::= <<
  <l!/[
  <locals; separator="\n">
  <preamble; separator="\n">
  <ops; separator="\n">
  <l!/[>
  >>

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

LL1OptionalBlock(choice, alts, error) ::= <<
  setState(<choice.stateNumber>)
  try _errHandler.sync(self)
  switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {<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)) {<alt: [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
()
;
>
>
// 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!>
()
!
let test: Bool = (<testShiftInRange(s.varName, bits.shift))}>)!>
!
!var temp: Int64 = Int64(<offsetShift(s.varName, bits.shift)>)!>
!
!(<let test1: Int64 = (Int64(1) \< <temp)!>
!
!(<let test2: Int64 = (<first(bits.ttypes):{ttype | Util.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)}>))!>
!
!(<let test2: Int64 = Util.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)>)!>
!
!(<let test2: Int64 = Util.bitLeftShiftArray(testArray)!>
!
let testArray: [Int] = [<s.varName>, <bits.ttypes:{ttype | parserName(ttype) }>]; separator="","]>
!
!(<let test2: Int64 = Util.bitLeftShift(testArray)!>
!
let testArray: [Int] = [<s.varName>, <bits.ttypes:{ttype | parserName(ttype) }>]; separator="",">]
!
!(<let test2: Int64 = Util.bitLeftShiftArray(testArray)!>
!
return Util.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"> ; 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"> ; 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"> ; separator="\n">
  ()
  <else>try match(<parser.name>.Tokens.<m.name>.rawValue)<endif>
  >>

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

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

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>)
<if(m.labels)><m.labels:{l | <labelref(l)> = }><try _input.LT(1)<endif>
<capture>
if (<if(invert)><m.varName> \leq 0 || <else>!<endif>(<expr>)) {
  <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>try _errHandler.recoverInline(self)<if(m.labels)> as Token<endif>
}
else {
    _errHandler.reportMatch(self)
    try consume()
}

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

// ACTION STUFF

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

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

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

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

// lexer actions are not associated with model objects

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

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

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

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

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getText() ! : "")"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getType() : 0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getLine() : 0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getCharPositionInLine() : 0)"
TokenPropertyRef_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}) ::= <<
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 !> <if(struct.provideCopyFrom && struct.attrs)><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.<if(method.isEnter)>visit<else>exit<endif><struct.derivedFromName; format="cap">(self)
    } else if let visitor = visitor as? <parser.grammarName>BaseVisitor {
        return visitor.<if(method.isEnter)>visit<else>exit<endif><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;
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>
<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)
override func getGrammarFileName() -> String { return "<lexer.grammarFileName>" }

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

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

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

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

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

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

<atn>

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

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/1303428068_1649144266.79/0/antlr4-4-9-2-sources.jar/org/antlr/v4/tool/templates/codegen/Swift/Swift.stg

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*/
/*

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

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

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

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

wantsSingleLineMessage() ::= "true"
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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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* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/gui/GraphicsSupport.java

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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:{lname |
/**
 * Enter a parse tree produced by the `<lname>` labeled alternative in <see file.parserName>::<file.listenerLabelRuleNames.(lname)>()
.*
 */
public function enter<lname; format="cap">(Context\<lname; format="cap">Context $context) : void;
/**
 * Exit a parse tree produced by the `<lname>` labeled alternative
 * in <see file.parserName>::<file.listenerLabelRuleNames.(lname)>()
 */
public function exit<lname; format="cap">(Context\<lname; format="cap">Context $context) : void;

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 {}

/**
* {@inheritdoc}
*
* The default implementation does nothing.
*/
public function enterEveryRule(ParserRuleContext $context) : void {}

/**
* {@inheritdoc}
*
* The default implementation does nothing.
*/
public function exitEveryRule(ParserRuleContext $context) : void {}

}}
/** *
 * The default implementation does nothing.
 */
public function visitTerminal(TerminalNode $node) : void {}

/** *
 * The default implementation does nothing.
 */
public function visitErrorNode(ErrorNode $node) : void {}

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

<header>
use Antlr\Antlr4\Runtime\Tree\ParseTreeVisitor;

/** *
 * This interface defines a complete generic visitor for a parse tree produced by {@see <file.parserName>}. *
 */
interface <file.grammarName>Visitor extends ParseTreeVisitor
{
<file.visitorNames:{lname |
/** *
 * Visit a parse tree produced by the `{lname}` labeled alternative *
 * in {@see <file.parserName>::<file.visitorLabelRuleNames.(lname)>()}. *
 */
* Visit a parse tree produced by {@see <file.parserName>::<lname>()}.
<endif>
* @param Context\<lname; format="cap">Context $context The parse tree.
* *
* @return mixed The visitor result.
*/
public function visit<lname; format="cap">(Context\<lname; format="cap">Context $context);>

}}
BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>
use Antlr\Antlr4\Runtime\Tree\AbstractParseTreeVisitor;
/**
 * This class provides an empty implementation of {@see <file.grammarName>Visitor},
 * which can be extended to create a visitor which only needs to handle a subset
 * of the available methods.
 */
class <file.grammarName>BaseVisitor extends AbstractParseTreeVisitor implements <file.grammarName>Visitor
{
<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;

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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>

  <namedActions.members>
  <endif>

  <parser:(ctor)()>

  private static function initialize() : void
  {
    if (self::$atn !== null) {
    }
return;
}

RuntimeMetaData::checkVersion(\'<file.ANTLRVersion>', RuntimeMetaData::VERSION);

$atn = (new ATNDeserializer())->deserialize(self::SERIALIZED_ATN);

$decisionToDFA = [];
for ($i = 0, $count = $atn->getNumberOfDecisions(); $i < $count; $i++) {
    $decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
}

self::$atn = $atn;
self::$decisionToDFA = $decisionToDFA;
self::$sharedContextCache = new PredictionContextCache();

public function getGrammarFileName() : string
{
    return "<parser.grammarFileName>";
}

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

public function getSerializedATN() : string
{
    return self::SERIALIZED_ATN;
}

public function getATN() : ATN
{
    return self::$atn;
}

public function getVocabulary() : Vocabulary
{
    static $vocabulary;

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

<if(funcs)>
<funcs; separator="\n\n">  
<endif>
<if(sempredfuncs)>

```
public function sempred(?RuleContext $localContext, int $ruleIndex, int $predicateIndex) : bool
{
    switch ($ruleIndex) {
        <parser.sempredFuncs.values:{f|
            case <f.ruleIndex>:
                return $this->sempred<f.name; format="cap">($localContext, $predicateIndex);}; separator="\n\n">
            default:
                return true;
        }
    }

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

namespace <if(file.genPackage)><file.genPackage>\<endif>Context {
    use Antlr\Antlr4\Runtime\ParserRuleContext;
    use Antlr\Antlr4\Runtime\Token;
    use Antlr\Antlr4\Runtime\Tree\ParseTreeVisitor;
    use Antlr\Antlr4\Runtime\Tree\TerminalNode;
    use Antlr\Antlr4\Runtime\Tree\ParseTreeListener;
    use <if(file.genPackage)><file.genPackage>\<endif><parser.name>;
    <if (file.genVisitor)>use <if(file.genPackage)><file.genPackage>\<endif><file.grammarName>Visitor;<endif>
    <if (file.genListener)>use <if(file.genPackage)><file.genPackage>\<endif><file.grammarName>Listener;<endif>
    <namedActions.contexts>
    <funcs :{ func | <func.ruleCtx><if(func.altLabelCtxs)>
      <func.altLabelCtxs:{l | <func.altLabelCtxs.(l)>}; separator="\n\n"><endif>}; separator="\n\n">
    </func.altLabelCtxs:1| <func.altLabelCtxs.(l)>}; 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">
    }
} >>

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>
LeftRecursiveRuleFunction(currentRule, args, locals, ruleCtx, altLabelCtxs, namedActions, finallyAction, postamb
e) ::= <<
/**
 * @throws RecognitionException
 */
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function <currentRule.name>(<args;separator="\","> : Context\<currentRule.ctxType>
{
return $this->recursive<currentRule.name; format="cap">($<currentRule.args:{a | , <a.name>}>);}

/**
 * @throws RecognitionException
 */
private function recursive<currentRule.name; format="cap">(int $precedence<$currentRule.args:{a | , <a.name>}>): Context\<currentRule.ctxType>
{
$parentContext = $this->ctx;
$parentState = $this->getState();
$localContext = new Context\<currentRule.ctxType>(<currentRule.startState>, $parentState<$currentRule.args:{a | , <a.name}>);)
$previousContext = SlocalContext;
$startState = <currentRule.startState>;
$Sthis->enterRecursionRule($localContext, <currentRule.startState>, self::RULE_<currentRule.name>, $Sprecedence);
<namedActions.init>
<locals; separator="\n">
try {
<code>
<postamble; separator="\n">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)>
<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|
<if(!choice.ast.greedy)>+1<endif>:
<alt>
break;}; separator="\n\n">
default:
<error>
}

$this->setState(choice.loopBackStateNumber); <! loopback/exit decision !>
$this->errorHandler->sync($this);

$salt = $this->getInterpreter()-&gt;adaptivePredict($this-&gt;input, choice.decision, $this-&gt;ctx);
} while ($alt !== choice.exitAlt &amp;&amp; $alt !== ATN::INVALID_ALT_NUMBER);

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

ThrowNoViableAlt(t) ::= &quot;throw new NoViableAltException($this);&quot;

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({<offsetShiftVar(s.varName, bits.shift)>})> && ((1 &lt;&lt; <offsetShiftConst(ttype, bits.shift)>)) &amp; (<bitsets:{ttype | (1 &lt;&lt; <offsetShiftConst(ttype, bits.shift)>)}; separator=" | ">) !== 0

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

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

offsetShiftConst(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(self::$<shiftAmount> - <offset>)<else>self::$<shiftAmount><endif>
%>
// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | $<s.varName> === self::<ttype>}; separator=" || ">
%

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

InvokeRule(r, argExprsChunks) ::= <<
$this->setState(<r.stateNumber>);
<if(r.labels)><r.labels:{l | <labelref(l)> = }><endif>$this->recursive$r.name;
format="cap">else<$r.name><endif>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif>
<argExprsChunks>);
>>

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

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

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

CommonSetStuff(m, expr, capture, invert) ::= <<
$this->setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>$this->input->LT(1);<endif>
capture

if (<!invert>!<$m.varName> \<= 0 || <!else>!(<expr>)) {
    <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>$this->errorHandler->recoverInline($this);
} else {
if ($this->input->LA(1) === Token::EOF) {
    $this->matchedEOF = true;
}
$this->errorHandler->reportMatch($this);
$this->consume();
}

Wildcard(w) ::= <<
$this->setState(<w.stateNumber>);
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>$this->matchWildcard();
>>
// ACTION STUFF

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

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

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

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

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "$this->skip();"
LexerMoreCommand() ::= "$this->more();"
LexerPopModeCommand() ::= "$this->popMode();"

LexerTypeCommand(arg, grammar) ::= "$this->type = <arg>;"
LexerChannelCommand(arg, grammar) ::= "$this->channel = <arg>;"
LexerModeCommand(arg, grammar) ::= "$this->mode = <arg>;"
LexerPushModeCommand(arg, grammar) ::= "$this->pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "$localContext-><a.name>"
LocalRef(a) ::= "$localContext-><a.name>"
RetValueRef(a) ::= "$localContext-><a.name>"
QRetValueRef(a) ::= "<ctx(a)>::<a.dict>-><a.name>"

/* How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>::<t.name>"
LabelRef(t) ::= "<ctx(t)>::<t.name>"
ListLabelRef(t) ::= "<ctx(t)>::<ListLabelName(t.name)>"
SetAttr(s, rhsChunks) ::= "<ctx(s)>::<s.name> = <rhsChunks>;"

TokenLabelType() ::= "<file.TokenLabelType; null=\{Token\}"
InputSymbolType() ::= "<file.InputSymbolType; null=\{Token\}>"
TokenPropertyRef_text(t) ::= "(<ctx(t)-><t.label> !== null ? <ctx(t)-><t.label->getText() : null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)-><t.label> !== null ? <ctx(t)-><t.label->getType() : 0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)-><t.label> !== null ? <ctx(t)-><t.label->getLine() : 0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)-><t.label> !== null ? <ctx(t)-><t.label->getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)-><t.label> !== null ? <ctx(t)-><t.label->getChannel() : 0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)-><t.label> !== null ? <ctx(t)-><t.label->getTokenIndex() : 0)"

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.decls>
<if(struct.tokenDecls>
<endif>
<endif>
<struct.decls : [d | **
* @ var $<TokenLabelType>()null $<d.name>
*/
public $<d.name>;]; separator="\n\n">
```php
<<
* @return array\<TerminalNode\>|TerminalNode|null
*/
public function <t.name>(?int $index = null)
{
    if ($index === null) {
        return $this->getToken(<parser.name>::<t.name>, 0);
    }
}>>

```
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 Open Source Used In AppDynamics_Cloud_Topology_Schema_Service 22.6.0 2066


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);
    }
}
>>

<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces) implements<endif>
{

    public function __construct(?ParserRuleContext $parent, ?int $invokingState = null<ctorAttrs:{a | , ?<a> = null}>)
    {
        parent::__construct($parent, $invokingState);
    }

    public function getRuleIndex() : int
    {
        return <parser.name>::RULE_<struct.derivedFromName>;
    }

    <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);
    }
    </if(struct.provideCopyFrom)>

    <struct.attrs:{a | $this-><a.name> = $<a.name> ?? $this-><a.name>;}; separator="\n">
    </endif>

    <if(dispatchMethods)>
    <dispatchMethods; separator="\n\n">
    </endif>

    <if(extensionMembers)>
    <extensionMembers; separator="\n\n">
    </endif>

>
> $this->copyFrom($context);
> 
> $this->copyFrom($context);
> 
> if (getters) {
> 
> getters: { g | <g>; separator="\n\n" }
> 
> } // if (dispatchMethods)
> 
> if (dispatchMethods; separator="\n\n")
> 
> } // if (dispatchMethods)
> 
> 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);
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)> <lexerFile.genPackage><endif>
final class <lexer.name> extends <superClass; null="Lexer"> 
{
    public const <lexer.tokens>{k | <k> = <lexer.tokens.(k)>}; separator=" ", wrap, anchor>

    public const <lexer.channels>{c | <c> = <lexer.channels.(c)>}; separator=" ", wrap, anchor>

    public const <rest(lexer.modes):{m | <m>=<i>}; separator=" ", wrap, anchor> 

    /**
    * @var array<string>
    */
    public const CHANNEL_NAMES = [
    'DEFAULT_TOKEN_CHANNEL', 'HIDDEN' if (lexer.channels), <lexer.channels:{c| '<c>'}; separator=" ", wrap, anchor> 
    ];

    /**
    * @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>
    ];
protected static $atn;
protected static $decisionToDFA;
protected static $sharedContextCache;

public function __construct(CharStream $input)
{
    parent::__construct($input);
}

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++) {
        $decisionToDFA[$i] = 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))>

/**

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```
@var string

private const SERIALIZED_ATN =
"<model.segments:{segment|"<segment; wrap="\n">"}; separator="\n">;"

/**
 * @var string
 */

private const SERIALIZED_ATN =
"<model.serialized; wrap="\n">;"

/**<*/

/**
 * 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;
    }
  }

  toptdown :
    ^(RULE (id=TABLET_REF|id=TABLET_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>^[SBLOCK.token] ^(ALT<AltAST>^[SBLOCK.token,"ALT"] ^{SET^[SBLOCK.token,
        "SET"] setElement+}))

    ![inContext("RULE")]? // if not rule block and > 1 alt
    ^(BLOCK ^{ALT elementOptions? setElement[inLexer]} ( ^{ALT elementOptions? setElement[inLexer]) +) 
    ) -> ^(SET^[SBLOCK.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)
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
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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<fname; 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 <fname.grammarName>Visitor(ParseTreeVisitor):

    <fname.visitorNames:{lname |
    # Visit a parse tree produced by `<file.parserName>`#<lname>.
    def visit<fname; 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">
    <locals; separator="\n">
    try:
        <code>
        <postamble; separator="\n">
        <namedActions.after>
        <if(exceptions)>
        <exceptions; separator="\n">
        <else>
except RecognitionException as re:
    localctx.exception = re
    self._errHandler.reportError(self, re)
    self._errHandler.recover(self, re)
<endif>
finally:
    <finallyAction>
    self.exitRule()
    return localctx

>>

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

>>

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

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

>>

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

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

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

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

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

    >>

    // LL(*) stuff

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

    >>

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

    >>
StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_al = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _al!=<choice.exitAlt> and _al!=ATN.INVALID_ALT_NUMBER:
    if _al==1<if(!choice.ast.greedy)>+1<endif>:
        <iteration>
        <alts> <! should only be one !>
        self.state = <choice.loopBackStateNumber>
        self._errHandler.sync(self)
        _al = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
    >>
    PlusBlock(choice, alts, error) ::= <<
        self.state = <choice.blockStartStateNumber> <! alt block decision !>
        self._errHandler.sync(self)
        _al = 1<if(!choice.ast.greedy)>+1<endif>
        while _al!=<choice.exitAlt> and _al!=ATN.INVALID_ALT_NUMBER:
            alts:{alt|
                if _al == <i><if(!choice.ast.greedy)>+1<endif>:
                    <alt>
                }; separator="nel">
            else:
                <error>
            self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
            self._errHandler.sync(self)
            _al = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
        >>
    >>
Sync(s) ::= "sync(<s.expecting.name>)"

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

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

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

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

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<\< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<\< <offsetShiftType(ttype, bits.shift)>)}; separator=" | ">)) != 0)
%>
isZero ::= [
"0":true,
default:false
]
offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>
offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
%>
// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<parser.name>.<ttype>}; separator=" or ">
%>
cases(ttypes) ::= <<
if token in [<ttypes:{t | <parser.name>.<t>}; separator=", ">]:
>>
InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>self.<r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChu
nks>)
>>
MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>
MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"
MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"
CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{l | <labelref(l)> = }><else> <endif>self._errHandler.recoverInline(self)

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else:
    self._errHandler.reportMatch(self)
    self.consume()

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

// ACTION STUFF

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

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

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

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

// lexer actions are not associated with model objects

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

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

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValueRef(a) ::= "localctx.<a.name>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"

/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

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

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_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(localth.start, self._input.LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "localth"
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">  

        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">  
        </if>
        <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>
sself.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

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

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

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
    self.triggerExitRuleEvent()
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={"
            buf.write(u""
            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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 * 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.
 */

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.*;
}

/*
No license file was found, but licenses were detected in source scan.
*/
import java.util.HashMap;

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

dummy : block[null, null] ;

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

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

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

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

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

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

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

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

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

*/

// TODO: combine ROOT/BANG into one then just make new op ref'ing return value of atom/terminal...
// TODO: same for NOT

atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
:^(NOT a=atom[$label, true]) {$omos = $a.omos;} |

range[label]{$omos = $range.omos;} |
|^\(DOT ID terminal[$label]) |

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/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/SourceGenTriggers.g
No license file was found, but licenses were detected in source scan.

/*
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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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/*
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*/

Found in path(s):
*/
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/antlr/v4/tool/AttributeResolver.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/antlr/v4/codegen/target/JavaScriptTarget.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/antlr/v4/analysis/LeftRecursionDetector.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/antlr/v4/codegen/model/chunk/ArgRef.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/antlr/v4/ast/RuleRefAST.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/antlr/v4/codegen/model/decl/TokenDecl.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/antlr/v4/codegen/model/chunk/TokenPropertyRef_int.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/antlr/v4/codegen/model/SemPred.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/antlr/v4/ast/RuleElementAST.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/antlr/v4/tool/RuleElementAST.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/antlr/v4/semantics/SymbolCollector.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/antlr/v4/codegen/model/decl/ContextRuleListIndexedGetterDecl.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/antlr/v4/codegen/model/RuleFunction.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/antlr/v4/codegen/model/LabeledOp.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/antlr/v4/codegen/model/LabeledOp.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/antlr/v4/codegen/model/LabeledOp.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/antlr/v4/codegen/model/Wildcard.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/antlr/v4/automata/LexerATNFactory.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/antlr/v4/codegen/model/decl/ContextRuleListGetterDecl.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/antlr/v4/codegen/model/decl/ContextRuleListIndexedGetterDecl.java

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*/

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 */

tree grammar ATNBuilder;
  options {
    language     = Java;
    tokenVocab   = ANTLRParser;
    ASTLabelType = GrammarAST;
// Include the copyright in this source and also the generated source
@header {
/*
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*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.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)$ACTION);}
|  SEMPREDD{$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) {$p = factory.labelList($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);}
\[\text{WILDCARD} \{ p = \text{factory.wildcard}(\text{start}); \}\]
\[\text{blockSet}(\text{false}) \{ p = \text{blockSet}.p; \}\]
\[\text{terminal} \{ p = \text{terminal}.p; \}\]
\[\text{ruleref} \{ p = \text{ruleref}.p; \}\]

ruleref returns \[\text{ATNFactory.Handle} \ p\]
\[\text{^(RULE\_REF ARG\_ACTION?} \text{^(ELEMENT\_OPTIONS} \text{.})\{ p = \text{factory.ruleRef}(\$RULE\_REF); \}\]
\[\text{^\text{RULE\_REF ARG\_ACTION?}}\{ p = \text{factory.ruleRef}(\$RULE\_REF); \}\]
\[\text{RULE\_REF} \{ p = \text{factory.ruleRef}(\$RULE\_REF); \}\]

range returns \[\text{ATNFactory.Handle} \ p\]
\[\text{^(RANGE a=STRING\_LITERAL b=STRING\_LITERAL)} \{ p = \text{factory.range}(\text{a}, \text{b}); \}\]

terminal returns \[\text{ATNFactory.Handle} \ p\]
\[\text{^(STRING\_LITERAL} .) \{ p = \text{factory.stringLiteral}((\text{TerminalAST})\text{start}); \}\]
\[\text{STRING\_LITERAL} \{ p = \text{factory.stringLiteral}((\text{TerminalAST})\text{start}); \}\]
\[\text{^\text{TOKEN\_REF ARG\_ACTION} \{ p = \text{factory.tokenRef}((\text{TerminalAST})\text{start}); \}\]
\[\text{TOKEN\_REF} \{ p = \text{factory.tokenRef}((\text{TerminalAST})\text{start}); \}\]

elementOptions
\[\text{^(ELEMENT\_OPTIONS elementOption*)}\]

elementOption
\[\text{:ID}\]
\[\text{^\text{ASSIGN ID} ID}\]
\[\text{^\text{ASSIGN ID} STRING\_LITERAL}\]
\[\text{^\text{ASSIGN ID} ACTION}\]
\[\text{^\text{ASSIGN ID} INT}\]

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="; "/>}
>>

dge(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>];
>>
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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/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/templates/depend.stg
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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>;
    </if>
    <namedActions.header>
        import org.antlr.v4.runtime.atn.*;
        import org.antlr.v4.runtime.dfa.DFA;
        import org.antlr.v4.runtime.*;
    </namedActions.header>
>>>
import org.antlr.v4.runtime.misc.*;
import org.antlr.v4.runtime.tree.*;
import java.util.List;
import java.util.Iterator;
import java.util.ArrayList;

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeListener;
/**
* This interface defines a complete listener for a parse tree produced by
* {@link <file.parserName> }.
*/
public interface <file.grammarName>Listener extends ParseTreeListener {
<file.listenerNames:{lname |
/**
* Enter a parse tree produced by the { @code <lname>\} 
* labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(lname)>}. 
*<else>
* Enter a parse tree produced by { @link <file.parserName>#<lname>\}. 
*<endif>
* @param ctx the parse tree
*/
void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the { @code <lname>\}
* labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(lname)>}. 
<else>
* Exit a parse tree produced by { @link <file.parserName>#<lname>\}. 
<endif>
* @param ctx the parse tree
*/
void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx); 
}; separator="\n" >>

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

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

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

@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> {

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

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

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/**
 * This class provides an empty implementation of {@link 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 BaseVisitor<T> extends AbstractParseTreeVisitor<T> implements Visitor<T>
{

    /**
     * The default implementation returns the result of calling
     * @link #visitChildren on @code ctx.
     */

    @Override public T visit<Context ctx) { return visitChildren(ctx); }

    

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

Parser(parser, funcs, atn, sempredFuncs, 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>;
@end
@if(parser.rules)>public static final int <parser.rules:{r | RULE_<r.name> = <r.index}>; separator=", ", wrap, anchor>;
@end
private static String[] makeRuleNames() {
    return new String[] {
    
}
public static final String[] ruleNames = makeRuleNames();

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

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

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

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

private static String[] makeLiteralNames() {
    return new String[] {
        "<parser.literalNames, parser.symbolicNames>
    private static final String[] _LITERAL_NAMES = makeLiteralNames();
    private static String[] makeSymbolicNames() {
        return new String[] {
    }
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>:_action((<f.ctxType>)_localctx, actionIndex);
break;}; separator="\n">
@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>:
<actions.(index)>; return false;}; separator="\n"}
return true;
}
>>
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:{1 | <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);
enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
(CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...))
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; 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);
<preamble; separator="\n">
if(choice.label)<labelref(choice.label) = _input.LT(1);endif>
_preamble; separator="\n">
switch ( getInterpreter().adaptivePredict(_input,choice.decision,_ctx) ) {
<alts:{alt |<i>
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break;}; separator="\n">
}
>>

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

CommonSetStuff(m, expr, capture, invert) ::= <<
  setState(<m.stateNumber>);
  <if(m.labels)><m.labels:{l | <labelref(l)> = }>_input.LT(1);<endif>
  <capture>
  if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>) ) {
    <if(m.labels)><m.labels:{l | <labelref(l)> = (Token)}>_<errHandler.recoverInline(this);
  } else {
    if ( _input.LA(1)==Token.EOF ) matchedEOF = true;
    _errHandler.reportMatch(this);
    consume();
  }
  >>
Wildcard(w) ::= <<
setState(<w.stateNumber>);
<w.labels>:={l | <labelref(l)> = }><endif>matchWildcard();
>>

// ACTION STUFF

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

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

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

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

// lexer actions are not associated with model objects

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

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

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.name>"
LocalRef(a) ::= "_localctx.<a.name>"
RetValueRef(a) ::= "_localctx.<a.name>"
QRetValueRef(a) ::= "<ctx(a)>,<a.dict>,<a.name>"

/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>,<t.name>"
LabelRef(t) ::= "<ctx(t)>,<t.name>"
ListLabelRef(t) ::= "<ctx(t)>,<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>,<s.name> = <rhsChunks>;"

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

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

---

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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.dfa.DFA;
recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localsctx.<label>.add(_prevctx);
<else>
_localsctx.<label> = _prevctx;
<endif>
<endif>
<if(label)>
_localsctx.<label> = _prevctx;<endif>
pushNewRecursionContext(_localsctx, _startState, RULE_<ruleName>);
>>
recRuleReplaceContext(ctxName) ::= <<
_localsctx = new <ctxName>Context(_localctx);
_ctx = _localctx;
_prevctx = _localctx;
>>
recRuleSetPrevCtx() ::= <<
if ( _parseListeners!=null ) triggerExitRuleEvent();
_prevctx = _localctx;
>>
import org.antlr.v4.runtime.*;

<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();
<lexer.tokens>
public static final int <lexer.tokens:{k | <k>=lexer.tokens.(k)}>; separator="", wrap, anchor>;
<endif>
<lexer.channels>
public static final int <lexer.channels:{c | <c>=lexer.channels.(c)}>; separator="", wrap, anchor>;
<endif>
<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 = Utility.join(
new String[
<model.segments:{segment | _serializedATNSegment<i0}>}; separator=",
]
),
==
);
<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);
}
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"

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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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 */

// 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;

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

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

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

/// <summary>
/// Exit a parse tree produced by the \c<lname>
/// labeled alternative in \see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"./
/// /// Exit a parse tree produced by \see cref="<file.parserName>.<lname>/".
/// <endif>
/// 
/// /// \para The default implementation does nothing.\para
/// 
/// /// \summary
/// /// \<param name="context">The parse tree.\</param>
public virtual void Exit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context context) { }

/// <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) { }

>}

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>
public interface I<file.grammarName>Visitor<Result> : IParseTreeVisitor<Result> {
    /// <summary>
    /// Visit a parse tree produced by the \c <file.grammarName>\c\e label in \see cref="<file.grammarName>.<file.grammarLabelRuleNames.(lname)>".\/
    /// <else>
    /// Visit a parse tree produced by \see cref="<file.grammarName>.<file.grammarLabelRuleNames.(lname)>".\/
    /// </endif>
    /// <param name="context">The parse tree.\</param>
    /// <return>The visitor result.\</return>
    Result Visit<lname; format="cap">([NotNull] csIdentifier.<file.grammarName>.<lname; format="cap">Context context);}; separator="\n">

    /// \</summary>
    /// \The parse tree.\</param>
    /// \The visitor result.\</return>
    Result Visit<file.grammarName>(Context context););

    public partial class <file.grammarName>BaseVisitor<Result> : AbstractParseTreeVisitor<Result>, I<file.grammarName>Visitor<Result> {

    /// \</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.\</typeparamparam>
    [System.Diagnostics.DebuggerNonUserCode]
    [System.CLSCompliant(false)]
    public partial class <file.grammarName>BaseVisitor<Result> : AbstractParseTreeVisitor<Result>, I<file.grammarName>Visitor<Result> {
    /// <summary>
    /// Visit a parse tree produced by the \c <file.grammarName>\c\e label in \see cref="<file.grammarName>.<file.grammarLabelRuleNames.(lname)>".\/
    }
/// labeled alternative in 
/// Visit a parse tree produced by
/// The default implementation returns the result of calling
/// 
/// \</summary>
/// 
/// The default implementation returns the result of calling
/// \</summary>
/// 
/// The default implementation returns the result of calling
/// \</summary>
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/// The default implementation returns the result of calling
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/// The default implementation returns the result of calling
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/// The default implementation returns the result of calling
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/// The default implementation returns the result of calling
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/// 
/// The default implementation returns the result of calling
/// \</summary>
/// 
/// The default implementation returns the result of calling
/// 

fileHeader(grammarFileName, ANTLRVersion) ::= <<
	////////////////////////////////////////////////////////////////////////////////////////////////
	// 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.
	////////////////////////////////////////////////////////////////////////////////////////////////

	// 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, func, atn, sempredFuncs, superClass) ::= <<
	<Parser_(ctor="parser_ctor", ...)>
Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
[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;
}
<s sempredFuncs.values; separator="\n">
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) { }

global <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) {
<r: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) {
<r:actions:{index|
case <index>: return <actions.(index)>;}; separator="\n">}
    return true;
}
>>

RuleFunction(currentRule, args, code, locals, ruleCtx, altLabelCtxs, namedActions, finallyAction, postamble, exceptions) ::= <<
<if(ruleCtx)>
<rCtx>
<endif>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">[
    RuleVersion(<namedActions.version; null="0">)
    <if(currentRule.modifiers)><currentRule.modifiers:{f | <f>}><else>public</else><currentRule.ctxType>
<csIdentifier.(currentRule.name)>(<args; separator="," >)
            _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>}>);
            EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);}]}]}}}}
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) ::=
<<

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<ruleCtx>
<altLabelCtxs:[1 | <altLabelCtxs.(l)>]; separator="":

[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="":
try {
<if(currentRule.hasLookaheadBlock)>
int _alt;
<endif>
<code>
<postamble; separator="":
<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) ::= <<

---

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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> &amp; _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER ) {
  if (_alt==1 &lt;choice.exitAlt> &amp; _alt!=<choice.exitAlt> &amp; _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER ) {
    &lt;iteration&gt;
    &lt;als&gt; <! should only be one !&gt;
    }
  State = &lt;choice.loopBackStateNumber&gt;;
  ErrorHandler.Sync(this);
  _alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
}

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

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

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

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

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

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= &lt;%
  (testShiftInRange((&lt;offsetShift(s.varName, bits.shift)&gt;)) &amp;&amp; ((1L &lt;offsetShift(s.varName, bits.shift)&gt;) &amp;
Wildcard(w) ::= \<<
State = w.stateNumber;
<w.labels>\{l | <labelref(l)> = \}>>MatchWildcard();
\>>

// ACTION STUFF

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

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

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "Skip();"
LexerMoreCommand() ::= "More();"
LexerPopModeCommand() ::= "PopMode();"
LexerTypeCommand(arg, grammar) ::= "_type = <tokenType.(arg)>;"
LexerChannelCommand(arg, grammar) ::= "_channel = <channelName.(arg)>;"
LexerModeCommand(arg, grammar) ::= "_mode = <modeName.(arg)>;"
LexerPushModeCommand(arg, grammar) ::= "PushMode(<modeName.(arg)>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
LocalRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
RetValueRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<csIdentifier.(a.name)>"

/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<csIdentifier.(tokenType.(t.name))>"
LabelRef(t) ::= "<ctx(t)>.<csIdentifier.(t.name)>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(csIdentifier.(t.name))>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<csIdentifier.(s.name)> = <rhsChunks>;"
TokenLabelType() ::= "<file.TokenLabelType; null={IToken}>">
InputSymbolType() ::= "<file.InputSymbolType; null={IToken}>">

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

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

ThisRulePropertyRef_start(r) ::= 
"_localctx.Start"
ThisRulePropertyRef_stop(r) ::= 
"_localctx.Stop"
ThisRulePropertyRef_text(r) ::= 
"FileStream.GetText(_localctx.Start, FileStream.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>>(rdecl)"

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;
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>(ParserRuleContext parent, int invokingState) : 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">
        }
    }
    <dispatchMethods; separator="\n">
    <extensionMembers; 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) ::= "<(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)
        _localctx.<label>.Add(_prevctx);
    else
        _localctx.<label> = _prevctx;
    endif
    PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>>

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

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

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

LexerFile(file, lexer, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.IO;
using System.Text;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using DFA = Antlr4.Runtime.Dfa.DFA;
<lexer>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
[System.CLSCompliant(false)]
public partial class <csIdentifier.(lexer.name)> : <superClass; null="Lexer"> {
protected static DFA[] decisionToDFA;
protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
<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=", ",

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

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

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);
}

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>
}
}
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.

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/** 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

lexer grammar ANTLRLexer;

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

// Options

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

options {

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

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

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

// Include the copyright in this source and also the generated source

@lexer::header {
/*
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*/
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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 ) {
            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 descriptive
// 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 : ;

// 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);
   }
;

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
   )


// 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 belive to
// be mismatched. This won't be foolproof but we will
// be able to at least report an error against the
// opening brace that we feel is in error and this will
// guide the user to the correction as best we can.

// An embedded {} block

NESTED_ACTION

| // What appears to be a literal
//
ACTION_CHAR_LITERAL

| // We have assumed that the target language has C/Java
// type comments.
//
COMMENT

| // What appears to be a literal
//
ACTION_STRING_LITERAL

| // What appears to be an escape sequence
//
ACTION_ESC

| // Some other single character that is not
// handled above
//
// (~(\\"|\\'|\\''|\\'/|\\{|\\})\n
)*

(
    // Correctly balanced closing brace
    //
    '}

    // Looks like have an imblanced {} block, report
    // with respect to the opening brace.
    //
    {
        // TODO: Report imbalanced {}
        System.out.println("Block starting at line \"\"startLine + \"" offset \"\" + (offset+1) + \"\" contains imbalanced {} or is missing a }\")
    }
)
;

// Keywords
// --------
// keywords used to specify ANTLR v3 grammars. Keywords may not be used as
data 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"..'\u206F'
  | "\u2070"..'\u218F'
  | "\u2C00"..'\u2FEF'
  | "\u3001"..'\u30FF'
  ; // 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 arbtrary 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 | ~('"'|'\'|''|'
') ) )* ( '\'' |
    // 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\r]\n\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++; }
    (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());
    grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, bad);
  }
}
t.setCharPositionInLine(input.getCharPositionInLine()-numDigits);  
grammError(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  
//  
// A fragment rule for recognizing traditional whitespace  
// characters within lexer rules.  
//  
// fragment  
// WSCHARS  
// : ' '  
//  
// 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  
// : ' '  
//
// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a
// byte order mark. Since this Unicode character doesn't appear as a token
// anywhere else in the grammar, we can simply skip all instances of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
// STRING_LITERAL.
UnicodeBOM
    : '\uFEFF' {skip();}
;

// -----------------
// Illegal Character
//
// This is an illegal character trap which is always the last rule in the
// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the grammar file anyway
// but we will not try to analyse or code generate from a file with lexical
// errors.
//
// ERRCHAR
    : .
    {
        Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
        t.setLine(state.tokenStartLine);
        t.setText(state.text);
        t.setCharPositionInLine(state.tokenStartCharPositionInLine);
        String msg = getTokenErrorDisplay(t) + " came as a complete surprise to me";
        grammarError(ErrorType.SYNTAX_ERROR, t, msg);
        state.syntaxErrors++;
        skip();
    }
;

Found in path(s):
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/parse/ANTLRLexer.g
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*/

lexer grammar ActionSplitter;

options { filter=true; }

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

@members {
ActionSplitterListener delegate;

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

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

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

// ignore comments right away

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

LINE_COMMENT
    : '/\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());}
Open Source Used In AppDynamics_Cloud_Topology_Schema_Service 22.6.0  2183

*/

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<input type="submit" id="submit" value="Search" />
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====

This package "rx.internal.operators" is for internal implementation details and can change at any time.

It is excluded from the public Javadocs (http://netflix.github.io/RxJava/javadoc/) and should not be relied upon by
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In short, changes to public signatures of these classes will not be accounted for in the versioning of RxJava.

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/**
 * This plugin class provides 2 ways to customize [@link Scheduler] functionality
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 * the 3 methods that return Scheduler (io(), computation(), newThread()).
 * 2. You may wrap/decorate an [@link Action0], before it is handed off to a Scheduler. The system-
 * supplied Schedulers (Schedulers.ioScheduler, Schedulers.computationScheduler,
 * Scheduler.newThreadScheduler) all use this hook, so it's a convenient way to
 * modify Scheduler functionality without redefining Schedulers wholesale.
 *
 * Also, when redefining Schedulers, you are free to use/not use the onSchedule decoration hook.
 * <p>
 * See [@link RxJavaPlugins] or the RxJava GitHub Wiki for information on configuring plugins:
 */
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/operators/OnSubscribeRefCount.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/operators/OperatorRetryWithPredicate.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/operators/OperatorSampleWithObservable.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/operators/OperatorWindowWithObservable.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/operators/OperatorWindowWithObservableFactory.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/operators/OperatorDebounceWithTime.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/operators/OperatorWindowWithObservableFactory.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/operators/OperatorTakeTimed.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/operators/OperatorDistinctUntilChanged.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/operators/OperatorBufferWithSize.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/operators/OperatorWindowWithSize.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/operators/OperatorWindowWithStartEndObservable.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/operators/OperatorMapPair.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/operators/OperatorDoAfterTerminate.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/util/PlatformDependent.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/operators/OperatorBufferWithStartEndObservable.java

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* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/operators/OnSubscribeJoin.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/Subscription.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/operators/OperatorAny.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/operators/OnSubscribeSingle.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/operators/CompletableOnSubscribeTimeout.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/operators/OperatorTakeLast.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/schedulers/CachedThreadScheduler.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/plugins/RxJavaObservableExecutionHook.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/observables/ConnectableObservable.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/Observer.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/ObserverOnSubscribe.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/Scheduler.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/SubscriptionObserver.java
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* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/SubscriptionObserverOnSubscribe.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/SubscriptionObserverOnSubscribeSingle.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/SubscriptionObserverOnSubscribeTimeout.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/SubscriptionObserverTakeLast.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/SubscriptionObserverOnSubscribe_ANY.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/SubscriptionObserverOnSubscribe_ANY.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/SubscriptionObserverOnSubscribe_ANY.java
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 * core/src/main/java/org/jctools/queues/atomic/SpscUnboundedAtomicArrayQueue.java
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* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/operators/BackpressureUtils.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/producers/QueueProducer.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/producers/QueueValueProducer.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/producers/SingleProducer.java
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* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/SingleSubscriber.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/observables/AsyncOnSubscribe.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/operators/SingleDoAfterTerminate.java
* /opt/cola/permits/1274704065_1645234384.04/0/rxjava-1-3-0-sources-jar/rx/internal/util/BlockingUtils.java

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1.258 opentelemetry 1.6.0

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1.259 kafka-protobuf-serializer 5.5.5

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    <artifactId>kafka-schema-registry-parent</artifactId>
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      <url>http://www.confluent.io/confluent-community-license</url>
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1.260 rest-assured 4.3.3

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  * /opt/cola/permits/1340076275_1654622400.298697/0/rest-assured-4.3-3-sources-2.jar/io/restassured/internal/ResponseParserRegistrar.java
  * /opt/cola/permits/1340076275_1654622400.298697/0/rest-assured-4.3-3-sources-2.jar/io/restassured/internal/mapping/JsonbMapper.groovy

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  * /opt/cola/permits/1340076275_1654622400.298697/0/rest-assured-4.3-3-sources-2.jar/io/restassured/internal/mapping/ObjectMapperDeserializationContextImpl.groovy
  * /opt/cola/permits/1340076275_1654622400.298697/0/rest-assured-4.3-3-sources-2.jar/io/restassured/internal/http/ResponseParseException.java
  * /opt/cola/permits/1340076275_1654622400.298697/0/rest-assured-4.3-3-sources-2.jar/io/restassured/mapper/ObjectMapperSerializationContext.java
  * /opt/cola/permits/1340076275_1654622400.298697/0/rest-assured-4.3-3-sources-2.jar/io/restassured/config/Config.java
  * /opt/cola/permits/1340076275_1654622400.298697/0/rest-assured-4.3-3-sources-2.jar/io/restassured/assertion/BodyMatcherGroup.groovy
  * /opt/cola/permits/1340076275_1654622400.298697/0/rest-assured-4.3-3-sources-2.jar/io/restassured/http/Method.java
  * /opt/cola/permits/1340076275_1654622400.298697/0/rest-assured-4.3-3-sources-2.jar/io/restassured/config/JsonConfig.java
  * /opt/cola/permits/1340076275_1654622400.298697/0/rest-assured-4.3-3-sources-2.jar/io/restassured/internal/filter/SendRequestFilter.groovy
  * /opt/cola/permits/1340076275_1654622400.298697/0/rest-assured-4.3-3-sources-2.jar/io/restassured/internal/RestAssuredResponseImpl.groovy
  * /opt/cola/permits/1340076275_1654622400.298697/0/rest-assured-4.3-3-sources-2.jar/io/restassured/authentication/NoAuthScheme.groovy
  * /opt/cola/permits/1340076275_1654622400.298697/0/rest-assured-4.3-3-sources-2.jar/io/restassured/config/HttpClientConfig.java
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* /opt/cola/permits/1340076275_1654622400.298697/0/rest-assured-4-3-3-sources-2-jar/io/restassured/filter/time/TimingFilter.java
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* /opt/cola/permits/1340076275_1654622400.298697/0/rest-assured-4-3-3-sources-2-jar/io/restassured/internal/http/DeflateEncoding.java
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* /opt/cola/permits/1340076275_1654622400.298697/0/rest-assured-4-3-3-sources-2-jar/io/restassured/authentication/PreemptiveBasicAuthScheme.groovy
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1.261 jackson-datatype-jsr310 2.10.3
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1.262 asm-analysis 7.1

1.263 jackson-xc 2.13.2
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1.265 io-grpc-grpc-context 1.39.0

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1.266 jetty-java-based-http-1-x-http-2-servlet-websocket-server 9.4.43.v20210629

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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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.ws.rs:javax.ws.rs-api

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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

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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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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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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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. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.267 junit 4.13.1

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1.269 zstd-jni 1.4.9-1

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Manifest-Version: 1.0
Automatic-Module-Name: com.github.luben.zstd_jni
Bnd-LastModified: 1615191527618
Bundle-Description: JNI bindings for Zstd native library that provides fast and high compression lossless algorithm for Java and all JVM languages.
Bundle-License: https://opensource.org/licenses/BSD-2-Clause;description=BSD 2-Clause License
Bundle-ManifestVersion: 2
Bundle-Name: zstd-jni
Bundle-NativeCode: aix/ppc64/libzstd-jni.so;osname=AIX;processor=ppc64 , darwin/x86_64/libzstd-jni.dylib;osname=MacOS;osname=MacOSX;processor=x86_64 , darwin/aarch64/libzstd-jni.dylib;osname=MacOS;osname=MacOSX;processor=aarch64 , freebsd/amd64/libzstd-jni.so;osname=FreeBSD;processor=amd64 , freebsd/i386/libzstd-jni.so;osname=FreeBSD;processor=i386
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1.278 kafka-protobuf-provider 5.5.5

1.278.1 Available under license :

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```xml
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
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    <artifactId>kafka-schema-registry-parent</artifactId>
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  </dependency>
  <dependency>
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    <artifactId>mockito-core</artifactId>
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  </dependency>
  <dependency>
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    <artifactId>junit</artifactId>
    <scope>test</scope>
  </dependency>
</dependencies>

<build>
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    <plugin>
1.279 jackson-module-parameter-names

2.10.5

1.279.1 Available under license:
Apache-2.0

1.280 annotations-for-metrics 4.1.25

1.280.1 Available under license:
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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.annotation
Build-Jdk: 1.8.0_292
Built-By: runner
Bundle-Description: A dependency-less package of just the annotations used by other Metrics modules.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Annotations for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.annotation
Bundle-Version: 4.1.25
Created-By: Apache Maven Bundle Plugin
Export-Package: com.codahale.metrics.annotation;version="4.1.25"
Implementation-Title: Annotations for Metrics
Implementation-URL: https://metrics.dropwizard.io/metrics-annotation
Implementation-Vendor-Id: io.dropwizard.metrics
Implementation-Version: 4.1.25
Private-Package: com.codahale.metrics.annotation
Require-Capability: osgi.ee:filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

Found in path(s):
* /opt/cola/permits/1300428254_1650363010.71/0/metrics-annotation-4.1.25-jar/META-INF/MANIFEST.MF
1.281 javassist 3.28.0

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1.282 postgresql-jdbc-driver-pgjdbc 42.3.3

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1.283 javax-annotation-api 1.2

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1.289 dropwizard-lifecycle-support 2.0.25

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*  Optimize Java serialization of strings so that UTF-8 encoding happens only
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*  Fix bug with permanent callbacks that delete themselves when run.
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*  Fixed minor IBM xIC compiler build issues
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