Welcome

Unbeschwertes Dependency-Management für Java-Projekte

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APP SCREEN

LIB

JAVARCA-MODEL.JAR

JAVARCA-ENGINE.JAR

REPOSITORY

https://repo1.maven.org/maven2

```
java --class-path  lib/* de.javarca.engine.Engine
Exception in thread "main" java.lang.NoClassDefFoundError: org/slf4j/LoggerFactory
```

APP SCREEN

LIB

REPOSITORY

https://repo1.maven.org/maven2

```
java --module-path lib --module de.javarca.engine
Error occurred during initialization of boot layer
java.lang.module.FindException: Module org.slf4j not found, required by de.javarca.engine
```

APP SCREEN

LIB

REPOSITORY

- https://repo1.maven.org/maven2

```
java --module-path lib --module de.javarca.engine
SLF4J(W): No SLF4J providers were found.
SLF4J(W): Defaulting to no-operation (NOP) logger implementation
SLF4J(W): See https://www.slf4j.org/codes.html#noProviders for further details.
```

APP SCREEN

LIB

REPOSITORY

https://repo1.maven.org/maven2

```
java --module-path lib --module de.javarca.engine
[main] INFO de.javarca.engine.Renderer - Welcome to Javarcade!
[main] WARN de.javarca.engine.Renderer - No renderer implementation available
```

APP SCREEN

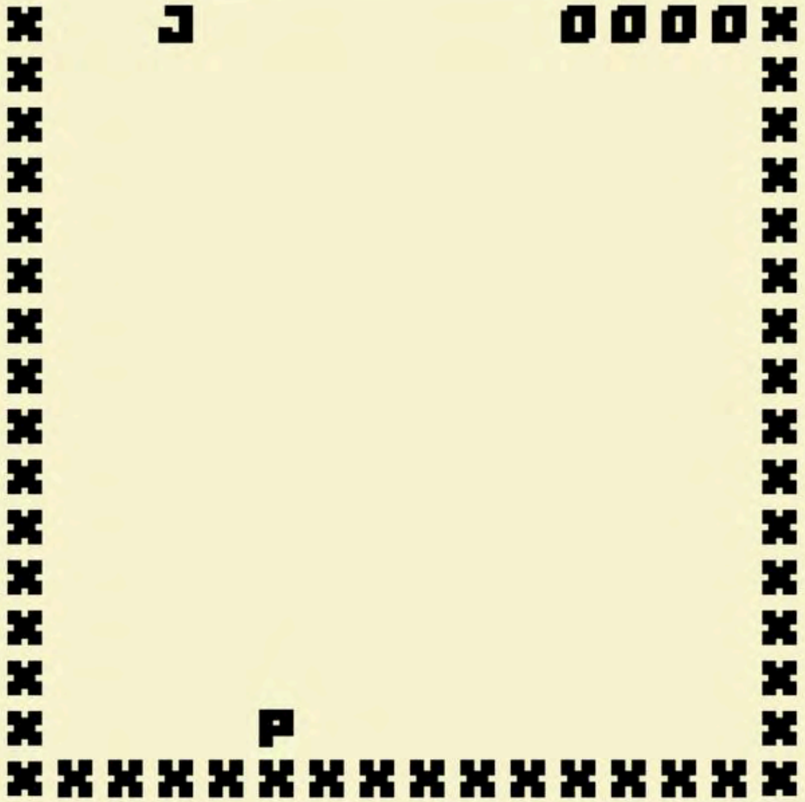
LIB

REPOSITORY

▶ https://repo1.maven.org/maven2

```
java --module-path lib --module de.javarca.engine
```

APP SCREEN



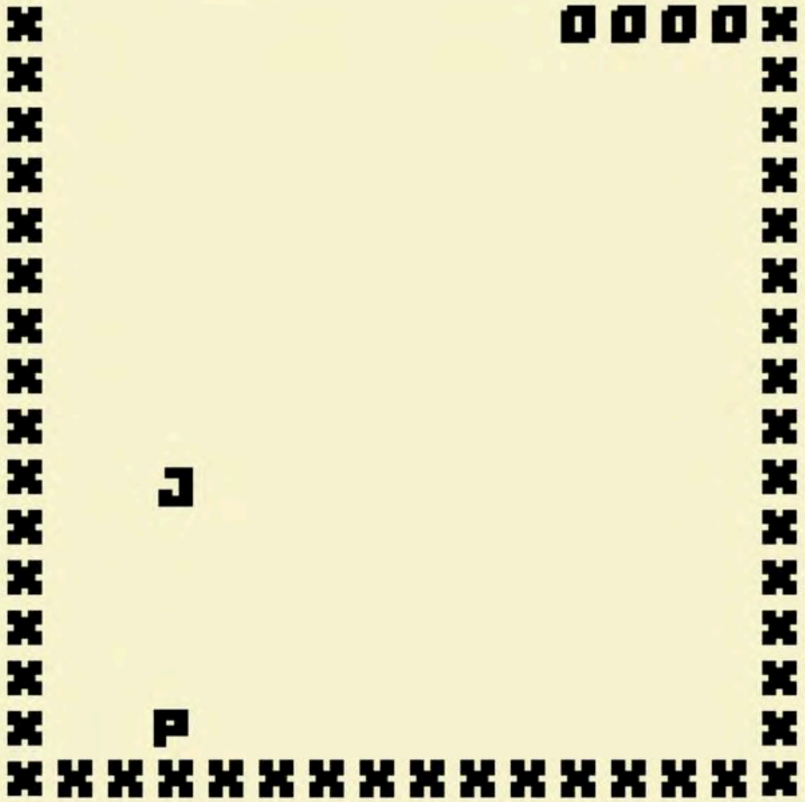
LIB

REPOSITORY

https://repo1.maven.org/maven2

```
java --module-path lib --module de.javarca.engine
```

APP SCREEN



LIB

REPOSITORY

https://repo1.maven.org/maven2

```
java --module-path lib --module de.javarca.engine
```

APP SCREEN

LIB

REPOSITORY

▸ https://repo1.maven.org/maven2

```
java --module-path lib --module de.javarca.engine
```

LIB

REPOSITORY

- https://repo1.maven.org/maven2
  - org/apache/commons/commons-csv/1.14.0
    - commons-csv-1.14.0.jar
      - org/apache/commons/csv/**/*.class
      - META-INF/MANIFEST.MF
      - module-info.class
    - commons-csv-1.14.0.pom

EDITOR

```
<project>
  <modelVersion>4.0.0</modelVersion>
  <artifactId>commons-csv</artifactId>
  <version>1.14.0</version>
  <dependencies>
    <dependency>
      <groupId>commons-codec</groupId>
      <artifactId>commons-codec</artifactId>
      <version>1.18.0</version>
    </dependency>
    <dependency>
      <groupId>commons-io</groupId>
      <artifactId>commons-io</artifactId>
      <version>2.18.0</version>
    </dependency>
  </dependencies>
</project>
```

```
java --module-path lib --module de.javarca.engine
```

LIB

REPOSITORY

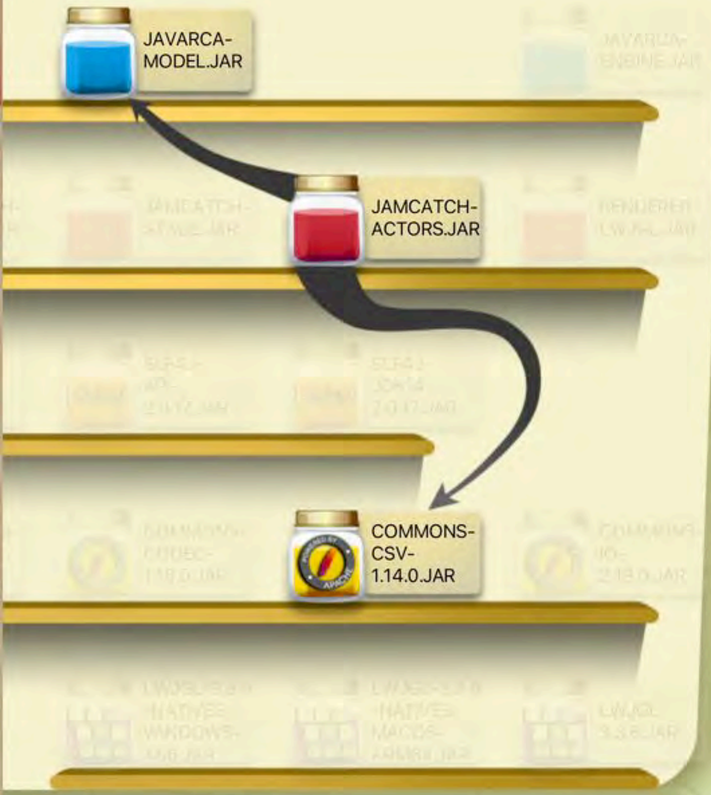
- https://repo1.maven.org/maven2
  - org/apache/commons/commons-csv/1.14.0
    - commons-csv-1.14.0.jar
      - org/apache/commons/csv/**/*.class
      - META-INF/MANIFEST.MF
      - module-info.class
    - commons-csv-1.14.0.pom

EDITOR

```
module org.apache.commons.csv {
  requires java.sql;
  requires org.apache.commons.codec;
  requires org.apache.commons.io;

  exports org.apache.commons.csv;
}
```

```
java --module-path lib --module de.javarca.engine
```

LIB



REPOSITORY

- javarcade
  - gradle/plugins/src/main/kotlin
  - gradle/versions
  - modules
    - javarca-model
    - javarca-engine
    - jamcatch-stage
    - jamcatch-assets
    - jamcatch-actors
      - src/main/java/module-info.java
      - build.gradle.kts
    - renderer-lwjgl

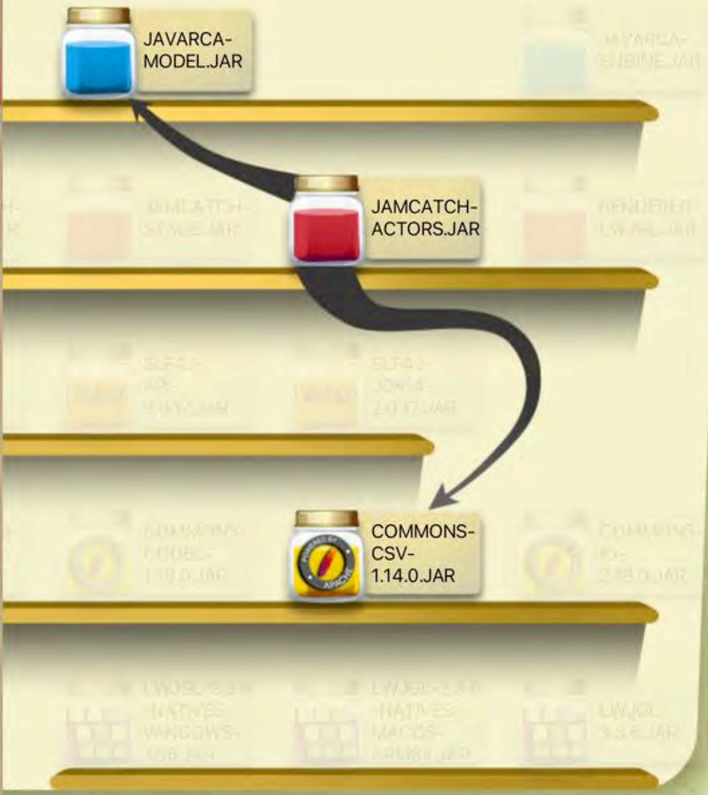
EDITOR

```
module de.javarca.classic.items {
  requires transitive de.javarca.model;
  requires org.apache.commons.csv;

  exports de.javarca.jamcatch.actors;

  provides de.javarca.model.ActorSet with
          de.javarca.jamcatch.actors.JamCatchActorSet;
}
```

```
./gradlew build
```

Module Dependency Definition | Module Version Management | Retrieving & Building JARs | Version & Variant Conflicts | Dependency Consistency Checks | Version Update Management

LIB



REPOSITORY

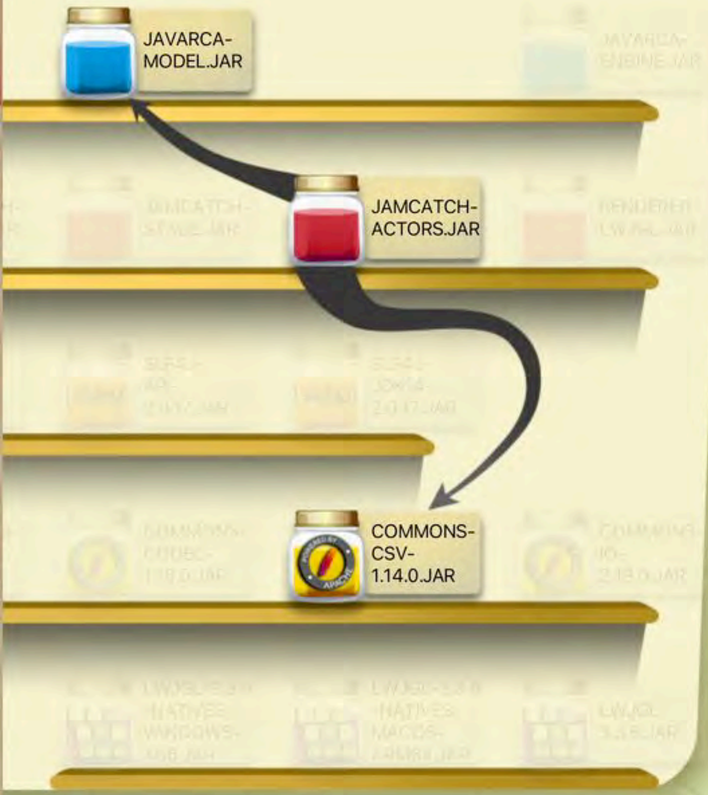
- javarcade
  - gradle/plugins/src/main/kotlin
  - gradle/versions
  - modules
    - javarca-model
    - javarca-engine
    - jamcatch-stage
    - jamcatch-assets
    - jamcatch-actors
      - src/main/java/**/*.java
      - build.gradle.kts
    - renderer-lwjgl

EDITOR

```
plugins { id("de.javarca.build.java-module") }

dependencies {
  api(project(":javarca-model"))
  implementation("org.apache.commons:commons-csv")
}
```

```
./gradlew build
```

LIB



REPOSITORY

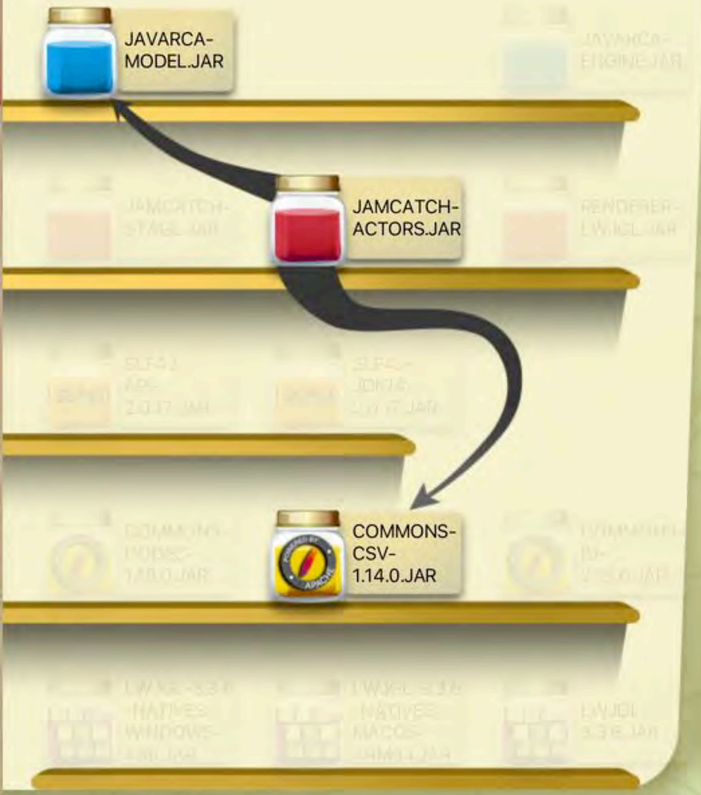
- javarcade
  - .mvn/config
  - .mvn/versions
  - modules
    - javarca-model
    - javarca-engine
    - jamcatch-stage
    - jamcatch-assets
    - jamcatch-actors
      - src/main/java/**/*.java
      - pom.xml
    - renderer-lwjgl

EDITOR

```
<project>
  <modelVersion>4.0.0</modelVersion>
  <parent>
    <relativePath>../../.mvn/config/java-module</relativeP
    <artifactId>mavenbuild-java-module</artifactId>
    <groupId>de.javarca</groupId>
    <version>${revision}</version>
  </parent>
  <artifactId>jamcatch-actors</artifactId>

  <dependencies>
    <dependency>
      <groupId>de.javarca</groupId>
      <artifactId>javarca-model</artifactId>
      <version>${revision}</version>
    </dependency>
    <dependency>
      <groupId>org.apache.commons</groupId>
      <artifactId>commons-csv</artifactId>
    </dependency>
  </dependencies>
</project>
```

```
./mvnw clean verify
```

LIB



REPOSITORY

- javarcade
  - gradle/plugins/src/main/kotlin
  - gradle/versions
    - build.gradle.kts
  - modules
    - javarca-model
    - javarca-engine
    - jamcatch-stage
    - jamcatch-assets
    - jamcatch-actors
      - src/main/java/module-info.java
      - build.gradle.kts
    - renderer-lwjgl

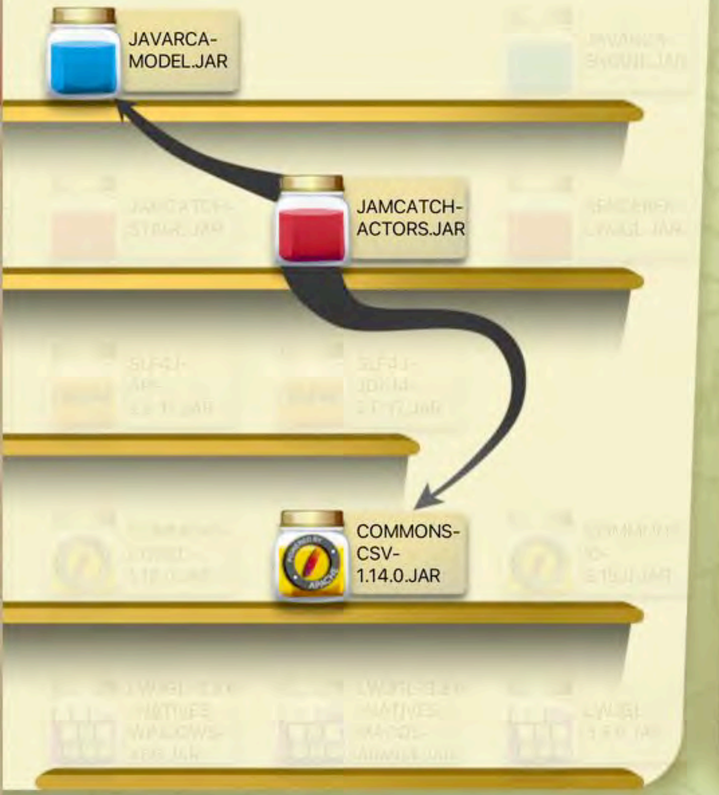
EDITOR

```
plugins {
  id("java-platform")
}

javaPlatform { allowDependencies() }

dependencies {
  api(platform("org.lwjgl:lwjgl-bom:3.3.6"))
  api(platform("org.slf4j:slf4j-bom:2.0.17"))
}

dependencies.constraints {
  // org.apache.commons.io
  api("commons-io:commons-io:2.16.1")
  // org.apache.commons.csv
  api("org.apache.commons:commons-csv:1.14.0")
}
```

```
./gradlew build
```

Module Dependency Definition | Module Version Management | Retrieving & Building JARs | Version & Variant Conflicts | Dependency Consistency Checks | Version Update Management

LIB



REPOSITORY

- javarcade
  - .mvn/config
  - .mvn/versions
    - pom.xml
  - modules
    - javarca-model
    - javarca-engine
    - jamcatch-stage
    - jamcatch-assets
    - jamcatch-actors
      - src/main/java/module-info.java
      - pom.xml
    - renderer-lwjgl

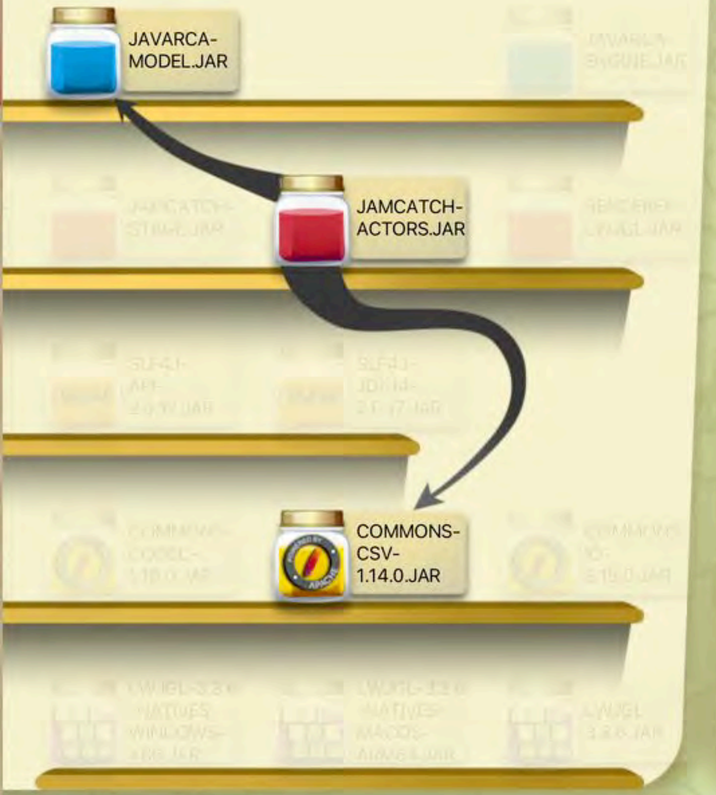
EDITOR

```
<dependencyManagement>
  <dependencies>
    <dependency>
      <groupId>org.lwjgl</groupId>
      <artifactId>lwjgl-bom</artifactId>
      <version>3.3.6</version>
      <type>pom</type>
      <scope>import</scope>
    </dependency>
    <dependency>
      <groupId>org.slf4j</groupId>
      <artifactId>slf4j-bom</artifactId>
      <version>2.0.17</version>
      <type>pom</type>
      <scope>import</scope>
    </dependency>

    <dependency>
      <!-- org.apache.commons.io -->
      <groupId>commons-io</groupId>
      <artifactId>commons-io</artifactId>
      <version>2.16.1</version>
    </dependency>
    <dependency>
      <!-- org.apache.commons.csv -->
      <groupId>org.apache.commons</groupId>
      <artifactId>commons-csv</artifactId>
```

```
./mvnw clean verify
```

Module Dependency Definition | Module Version Management | Retrieving & Building JARs | Version & Variant Conflicts | Dependency Consistency Checks | Version Update Management

LIB



REPOSITORY

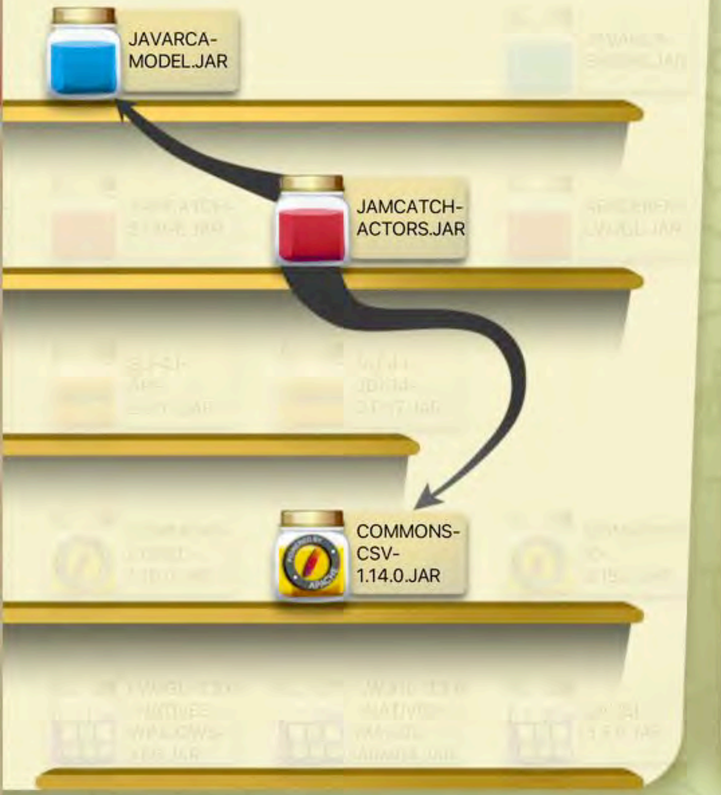
- javarcade
  - gradle/plugins/src/main/kotlin
    - repositories.gradle.kts
    - dependency-rules.gradle.kts
    - quality-check.gradle.kts
    - compile.gradle.kts
    - test.gradle.kts
    - java-module.gradle.kts
  - gradle/versions
    - build.gradle.kts
  - modules
    - javarca-model
    - javarca-engine
    - jamcatch-stage
    - jamcatch-assets

EDITOR

```
repositories {
  maven("https://repo.maven.apache.org/maven2")
}
```

```
./gradlew build
```

LIB



REPOSITORY

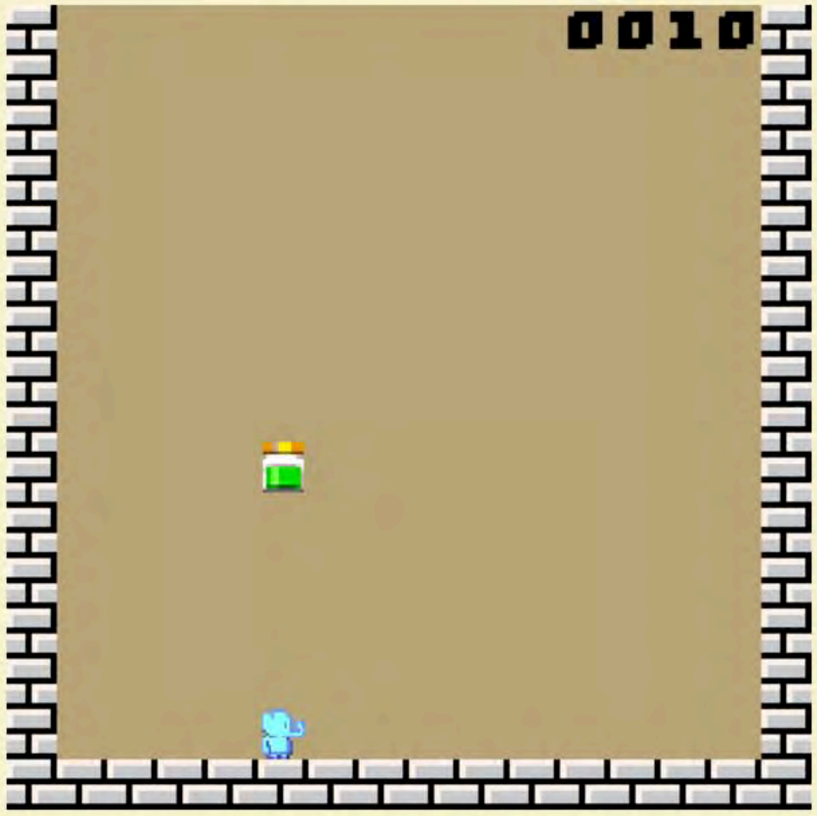
- javarcade
  - .mvn/config
    - repositories/pom.xml
    - dependency-rules/pom.xml
    - quality-check/pom.xml
    - compile/pom.xml
    - test/pom.xml
    - java-module/pom.xml
  - .mvn/versions
    - pom.xml
  - modules
    - javarca-model
    - javarca-engine
    - jamcatch-stage
    - jamcatch-assets

EDITOR

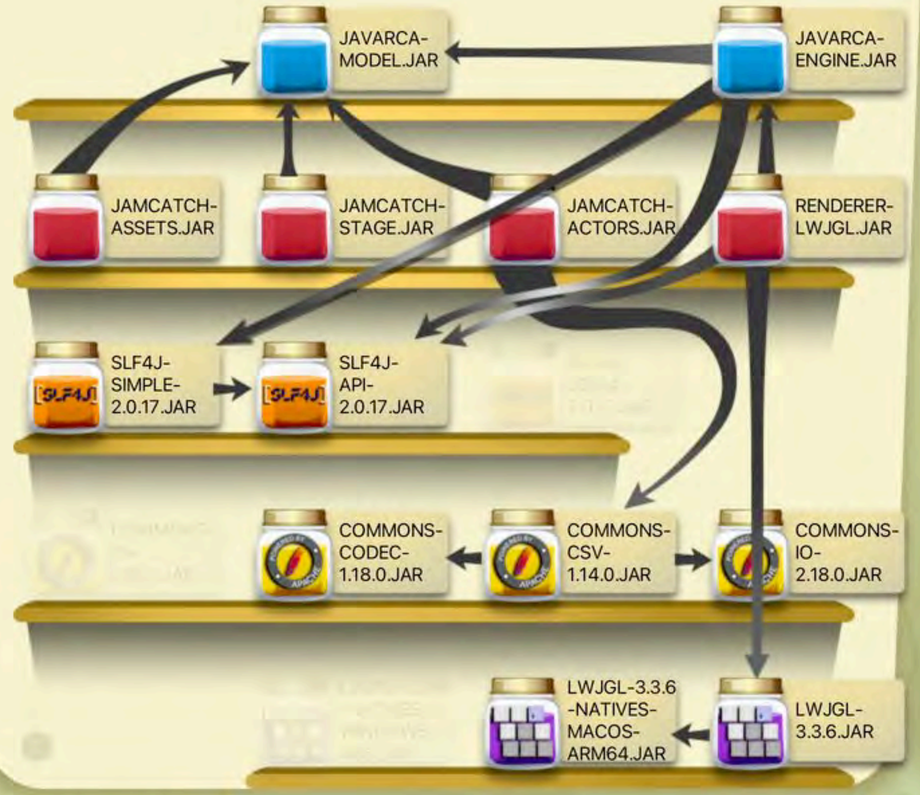
```
<project>
  <modelVersion>4.0.0</modelVersion>
  <packaging>pom</packaging>
  <parent>
    <relativePath>../dependency-rules</relativePath>
    <groupId>de.javarca</groupId>
    <artifactId>mavenbuild-dependency-rules</artifactId>
    <version>${revision}</version>
  </parent>
  <artifactId>mavenbuild-repositories</artifactId>

  <repositories>
    <repository>
      <id>MavenCentral</id>
      <url>https://repo.maven.apache.org/maven2</url>
    </repository>
  </repositories>
</project>
```

```
./mvnw clean verify
```

APP SCREEN



LIB



REPOSITORY

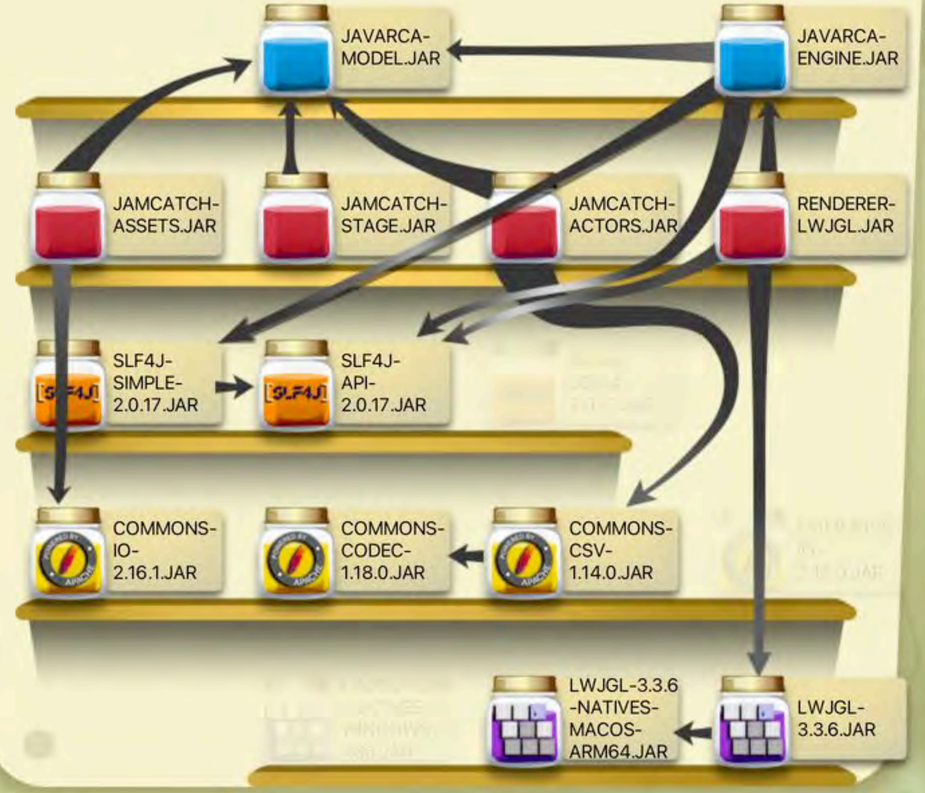
- compile.gradle.kts
- test.gradle.kts
- java-module.gradle.kts
- gradle/versions
  - build.gradle.kts
- modules
  - javarca-model
  - javarca-engine
  - jamcatch-stage
  - jamcatch-assets
  - jamcatch-actors
    - src/main/java/module-info.jav
    - build.gradle.kts
  - renderer-lwjgl

```
> Task :app-jamcatch:distTar
> Task :app-jamcatch:distZip
> Task :app-jamcatch:assemble
> Task :app-jamcatch:build

BUILD SUCCESSFUL in 34s
228 actionable tasks: 184 executed, 44 from cache
Configuration cache entry stored.
```

Module Dependency Definition | Module Version Management | Retrieving & Building JARs | Version & Variant Conflicts | Dependency Consistency Checks | Version Update Management

APP SCREEN

LIB



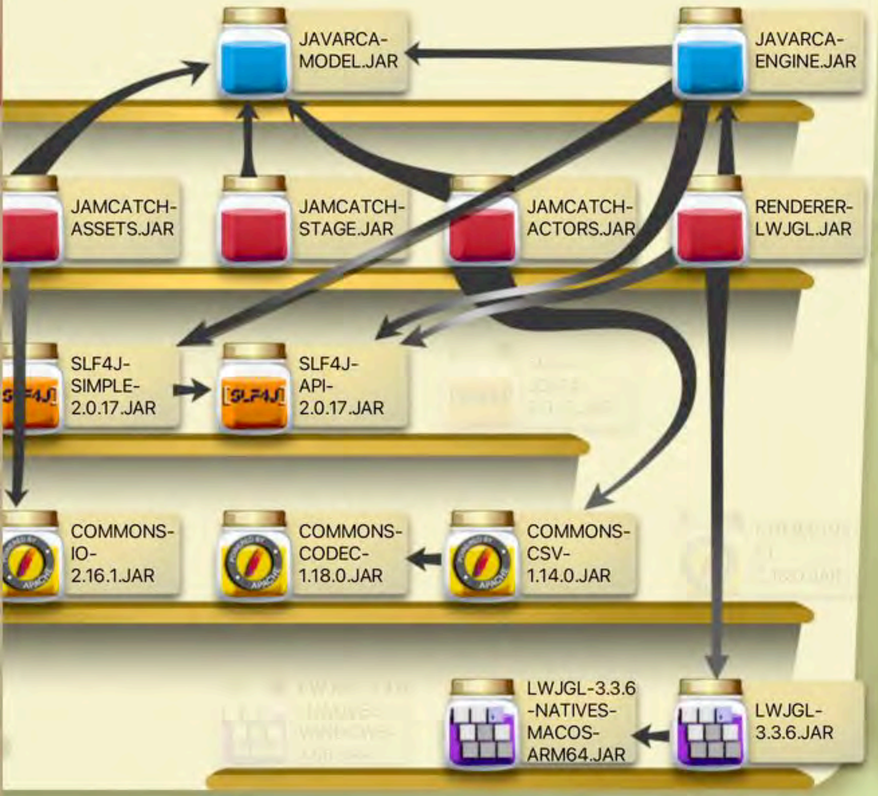
REPOSITORY

- compile/pom.xml
- test/pom.xml
- java-module/pom.xml
- .mvn/versions
- pom.xml
- modules
  - javarca-model
  - javarca-engine
  - jamcatch-stage
  - jamcatch-assets
  - jamcatch-actors
    - src/main/java/module-info.jav
    - pom.xml
  - renderer-lwjgl

```
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  13.946 s
[INFO] Finished at: 2025-06-27T08:03:44+02:00
[INFO] ------------------------------------------------------------------------

Caused by: java.lang.NoClassDefFoundError:
org/apache/commons/io/input/UnsynchronizedBufferedReader
```

Module Dependency Definition | Module Version Management | Retrieving & Building JARs | Version & Variant Conflicts | Dependency Consistency Checks | Version Update Management

LIB



REPOSITORY

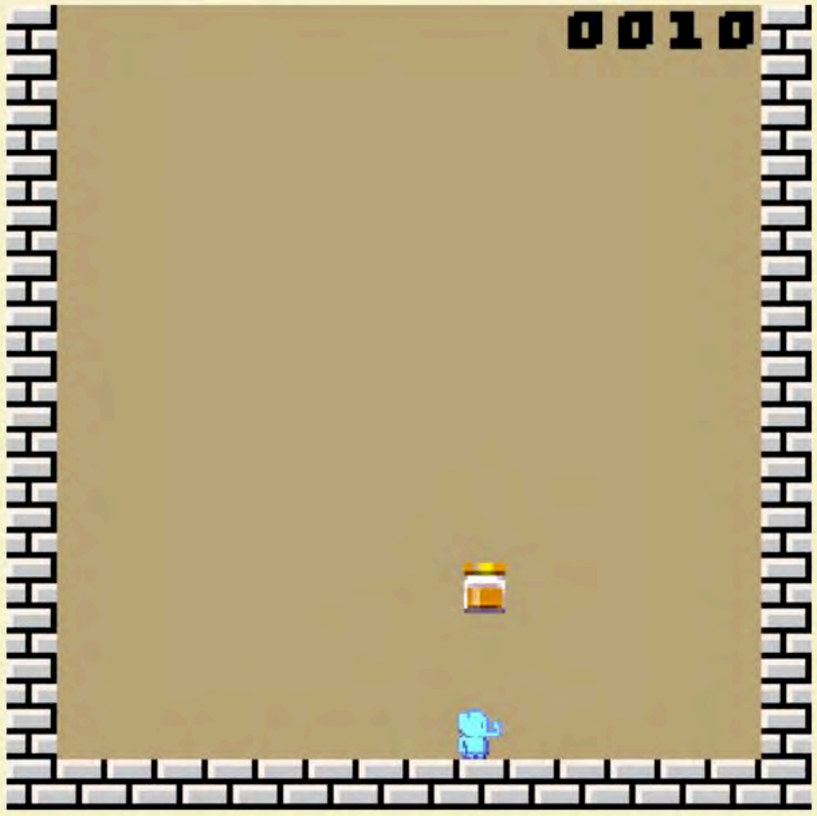
- compile/pom.xml
- test/pom.xml
- java-module/pom.xml
- .mvn/versions
  - pom.xml
- modules
  - javarca-model
  - javarca-engine
  - jamcatch-stage
  - jamcatch-assets
  - jamcatch-actors
    - src/main/java/module-info.java
    - pom.xml
  - renderer-lwjgl

EDITOR

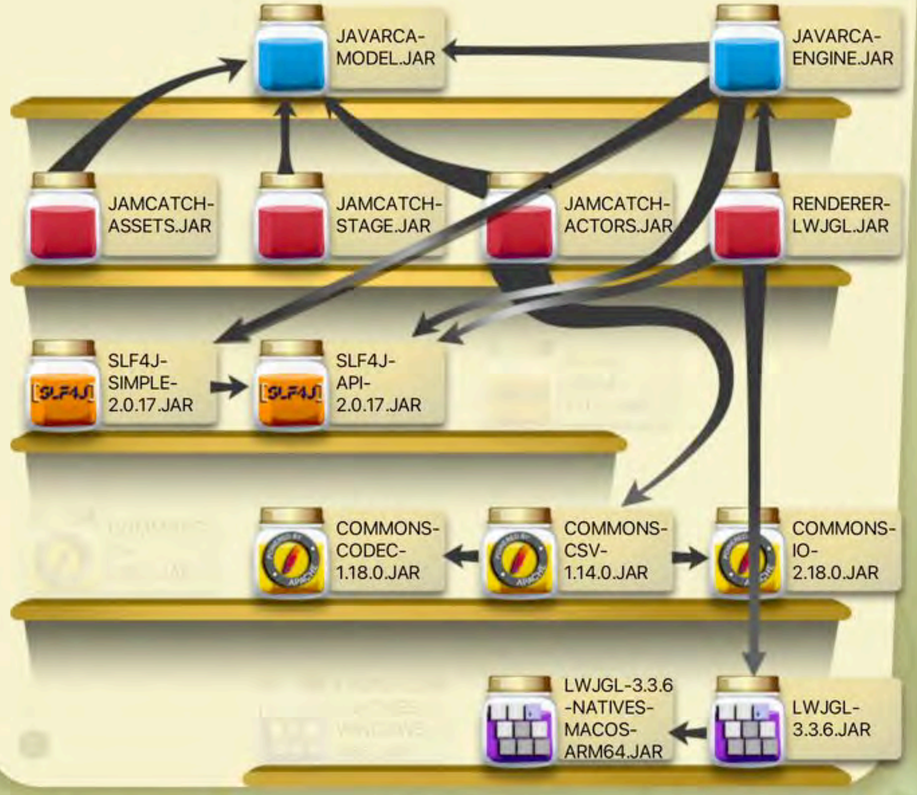
```
      <scope>import</scope>
    </dependency>
    <dependency>
      <groupId>org.slf4j</groupId>
      <artifactId>slf4j-bom</artifactId>
      <version>2.0.17</version>
      <type>pom</type>
      <scope>import</scope>
    </dependency>

    <dependency>
      <!-- org.apache.commons.io -->
      <groupId>commons-io</groupId>
      <artifactId>commons-io</artifactId>
      <version>2.18.0</version>
    </dependency>
    <dependency>
      <!-- org.apache.commons.csv -->
      <groupId>org.apache.commons</groupId>
      <artifactId>commons-csv</artifactId>
      <version>1.14.0</version>
    </dependency>
  </dependencies>
 </dependencyManagement>
</project>
```

```
./mvnw clean verify
```

APP SCREEN



LIB

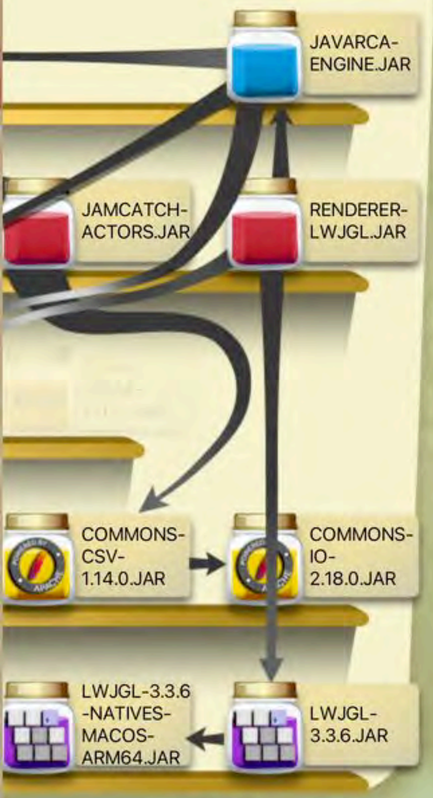


REPOSITORY

- compile/pom.xml
- test/pom.xml
- java-module/pom.xml
- .mvn/versions
- pom.xml
- modules
  - javarca-model
  - javarca-engine
  - jamcatch-stage
  - jamcatch-assets
  - jamcatch-actors
    - src/main/java/module-info.jav
    - pom.xml
  - renderer-lwjgl

```
[INFO] app-jamcatch ..................................... SUCCESS [  0.041 s]
[INFO] javarcade ........................................ SUCCESS [  0.005 s]
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  2.624 s
[INFO] Finished at: 2025-06-27T08:04:33+02:00
[INFO] ------------------------------------------------------------------------
```

Module Dependency Definition | Module Version Management | Retrieving & Building JARs | Version & Variant Conflicts | Dependency Consistency Checks | Version Update Management



REPOSITORY

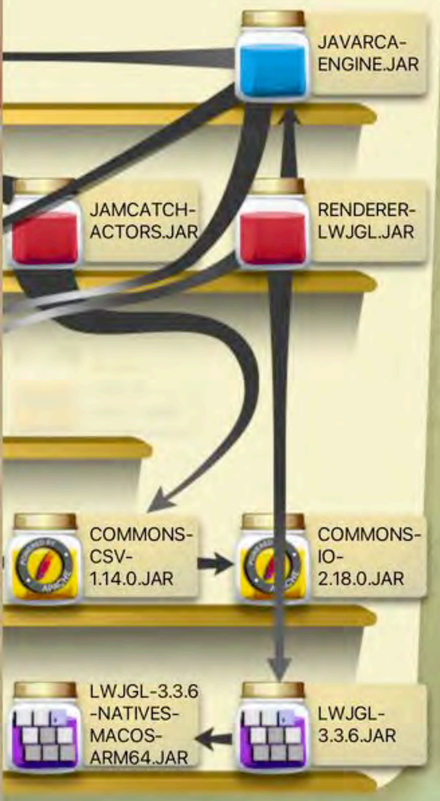
- javarcade
  - .mvn/config
    - repositories.gradle.kts
    - dependency-rules.gradle.kts
    - quality-check/pom.xml
    - compile/pom.xml
    - test/pom.xml
    - java-module/pom.xml
  - .mvn/versions
    - pom.xml
  - modules
    - javarca-model
    - javarca-engine
    - jamcatch-stage
    - jamcatch-assets

EDITOR

```
<dependencyManagement>
  <dependencies>
    <dependency>
      <groupId>de.javarca</groupId>
      <artifactId>javarca-engine</artifactId>
      <exclusions>
        <exclusion>
          <groupId>org.slf4j</groupId>
          <artifactId>slf4j-jdk14</artifactId>
        </exclusion>
      </exclusions>
    </dependency>
  </dependencies>
</dependencyManagement>

<profiles>
  <profile>
    <id>lwjgl-natives-linux-amd64</id>
    <activation>
      <os>
        <family>unix</family>
        <name>linux</name>
        <arch>amd64</arch>
      </os>
    </activation>
    <properties>
      <lwjgl.natives>natives-linux</lwjgl.natives>
```

```
./mvnw clean verify
```

Module Dependency Definition | Module Version Management | Retrieving & Building JARs | Version & Variant Conflicts | Dependency Consistency Checks | Version Update Management



REPOSITORY

- javarcade
  - gradle/plugins/src/main/kotlin
    - repositories.gradle.kts
    - dependency-rules.gradle.kts
    - quality-check.gradle.kts
    - compile.gradle.kts
    - test.gradle.kts
    - java-module.gradle.kts
  - gradle/versions
    - build.gradle.kts
  - modules
    - javarca-model
    - javarca-engine
    - jamcatch-stage
    - jamcatch-assets

EDITOR

```
plugins {
  id("org.gradlex.jvm-dependency-conflict-resolution")
}

jvmDependencyConflicts {
  conflictResolution {
    select("org.gradlex:slf4j-impl", "org.slf4j:slf4j-simple")
  }

  patch {
    listOf("", "-glfw", "-opengl", "-stb").forEach { module ->
      module("org.lwjgl:lwjgl$module") {
        addTargetPlatformVariant("natives",
          "natives-linux", LINUX, X86_64)
        addTargetPlatformVariant("natives",
          "natives-linux-arm64", LINUX, ARM64)
        addTargetPlatformVariant("natives",
          "natives-macos", MACOS, X86_64)
        addTargetPlatformVariant("natives",
          "natives-macos-arm64", MACOS, ARM64)
        addTargetPlatformVariant("natives",
          "natives-windows", WINDOWS, X86_64)
        addTargetPlatformVariant("natives",
          "natives-windows-arm64", WINDOWS, ARM64)
      }
    }
  }
```

```
./gradlew build
```

REPOSITORY

- javarcade
  - gradle/plugins/src/main/kotlin
    - repositories.gradle.kts
    - dependency-rules.gradle.kts
    - quality-check.gradle.kts
    - compile.gradle.kts
    - test.gradle.kts
    - java-module.gradle.kts
  - gradle/versions
    - build.gradle.kts
  - modules
    - javarca-model
    - javarca-engine
    - jamcatch-stage
    - jamcatch-assets

EDITOR

```
plugins {
  id("org.gradlex.jvm-dependency-conflict-resolution")
}

jvmDependencyConflicts {
  conflictResolution {
    // select("org.gradlex:slf4j-impl", "org.slf4j:slf4j-simple")
  }

  patch {
    listOf("", "-glfw", "-opengl", "-stb").forEach { module ->
      module("org.lwjgl:lwjgl$module") {
        addTargetPlatformVariant("natives",
          "natives-linux", LINUX, X86_64)
        addTargetPlatformVariant("natives",
          "natives-linux-arm64", LINUX, ARM64)
        addTargetPlatformVariant("natives",
          "natives-macos", MACOS, X86_64)
        addTargetPlatformVariant("natives",
          "natives-macos-arm64", MACOS, ARM64)
        addTargetPlatformVariant("natives",
          "natives-windows", WINDOWS, X86_64)
        addTargetPlatformVariant("natives",
          "natives-windows-arm64", WINDOWS, ARM64)
      }
    }
  }
```

```
      > Module 'org.slf4j:slf4j-simple' has been rejected:
           Cannot select module with conflict on capability 'org.gradlex:slf4j-impl:1.0' also
provided by [org.slf4j:slf4j-jdk14:2.0.17(runtime)]
   > Could not resolve org.slf4j:slf4j-jdk14.
     Required by:
         project :app-jamcatch > project :javarca-engine
      > Module 'org.slf4j:slf4j-jdk14' has been rejected:
           Cannot select module with conflict on capability 'org.gradlex:slf4j-impl:1.0' also
```

Module Dependency Definition | Module Version Management | Retrieving & Building JARs | Version & Variant Conflicts | Dependency Consistency Checks | Version Update Management

REPOSITORY

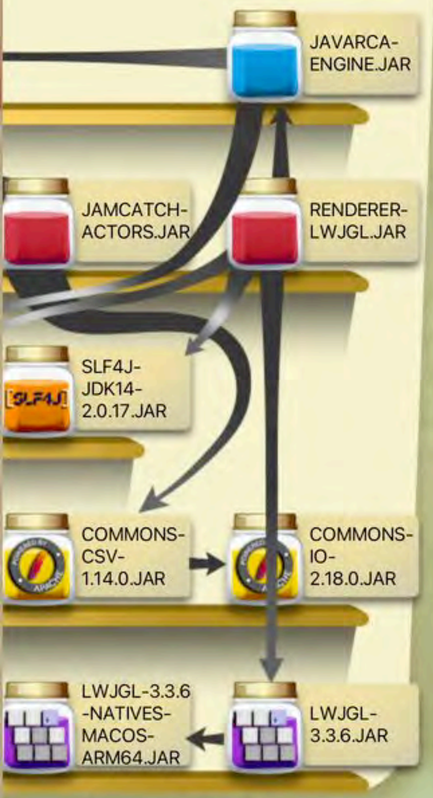
- javarcade
  - gradle/plugins/src/main/kotlin
    - repositories.gradle.kts
    - dependency-rules.gradle.kts
    - quality-check.gradle.kts
    - compile.gradle.kts
    - test.gradle.kts
    - java-module.gradle.kts
  - gradle/versions
    - build.gradle.kts
  - modules
    - javarca-model
    - javarca-engine
    - jamcatch-stage
    - jamcatch-assets

EDITOR

```
import org.gradle.nativeplatform.MachineArchitecture.*
import org.gradle.nativeplatform.OperatingSystemFamily.*

plugins {
  id("org.gradlex.jvm-dependency-conflict-resolution")
}

jvmDependencyConflicts {
  conflictResolution {
    select("org.gradlex:slf4j-impl", "org.slf4j:slf4j-jdk14")
  }

  patch {
    listOf("", "-glfw", "-opengl", "-stb").forEach { module ->
      module("org.lwjgl:lwjgl$module") {
        addTargetPlatformVariant("natives",
          "natives-linux", LINUX, X86_64)
        addTargetPlatformVariant("natives",
          "natives-linux-arm64", LINUX, ARM64)
        addTargetPlatformVariant("natives",
          "natives-macos", MACOS, X86_64)
        addTargetPlatformVariant("natives",
          "natives-macos-arm64", MACOS, ARM64)
        addTargetPlatformVariant("natives",
          "natives-windows", WINDOWS, X86_64)
        addTargetPlatformVariant("natives",
```

```
./gradlew build
```

Module Dependency Definition | Module Version Management | Retrieving & Building JARs | Version & Variant Conflicts | Dependency Consistency Checks | Version Update Management



REPOSITORY

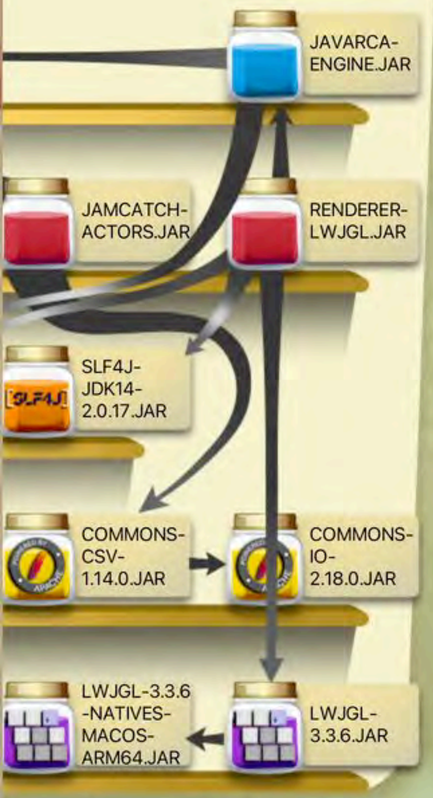
- javarcade
  - gradle/plugins/src/main/kotlin
    - repositories.gradle.kts
    - dependency-rules.gradle.kts
    - quality-check.gradle.kts
    - compile.gradle.kts
    - test.gradle.kts
    - java-module.gradle.kts
  - gradle/versions
    - build.gradle.kts
  - modules
    - javarca-model
    - javarca-engine
    - jamcatch-stage
    - jamcatch-assets

EDITOR

```
import com.autonomousapps.DependencyAnalysisSubExtension
import org.gradlex.javamodule.dependencies.tasks.*

plugins {
  id("base")
  id("com.autonomousapps.dependency-analysis")
}

configure<DependencyAnalysisSubExtension> {
  issues { onAny { severity("fail") } }
}
tasks.check {
  dependsOn(tasks.withType<ModuleDirectivesScopeCheck>())
}
```

```
./gradlew build
```

Module Dependency Definition | Module Version Management | Retrieving & Building JARs | Version & Variant Conflicts | Dependency Consistency Checks | Version Update Management



REPOSITORY

- javarcade
  - .mvn/config
    - repositories/pom.xml
    - dependency-rules/pom.xml
    - quality-check/pom.xml
    - compile/pom.xml
    - test/pom.xml
    - java-module/pom.xml
  - .mvn/versions
    - pom.xml
  - modules
    - javarca-model
    - javarca-engine
    - jamcatch-stage
    - jamcatch-assets

EDITOR

```
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-dependency-plugin</artifactId>
        <version>3.8.1</version>
        <executions>
          <execution>
            <phase>verify</phase>
            <id>analyze</id>
            <goals>
              <goal>analyze</goal>
            </goals>
            <configuration>
              <ignoreUnusedRuntime>true</ignoreUnusedRuntime>
              <failOnWarning>true</failOnWarning>
              <ignoredUnusedDeclaredDependencies>
                <unusedDeclaredDependency>
                  org.lwjgl
                </unusedDeclaredDependency>
              </ignoredUnusedDeclaredDependencies>
            </configuration>
          </execution>
        </executions>
      </plugin>
    </plugins>
  </build>
</project>
```

```
./mvnw clean verify
```

REPOSITORY

- compile.gradle.kts
- test.gradle.kts
- java-module.gradle.kts
- gradle/versions
  - build.gradle.kts
- modules
  - javarca-model
  - javarca-engine
  - jamcatch-stage
  - jamcatch-assets
  - jamcatch-actors
    - src/main/java/module-info.java
    - build.gradle.kts
  - renderer-lwjgl

EDITOR

```
module de.javarca.classic.items {
  requires transitive de.javarca.model;
  requires org.apache.commons.csv;
  requires org.apache.commons.io;

  exports de.javarca.jamcatch.actors;

  provides de.javarca.model.ActorSet with
          de.javarca.jamcatch.actors.JamCatchActorSet;
}
```

```
* What went wrong:
Execution failed for task ':jamcatch-actors:checkModuleDirectivesScope'.
>
/Users/jendrik/projects/gradle/howto/javarcade/modules/jamcatch-actors/src/main/java/module-i
nfo.java

  Please remove the following requires directives (or change to runtimeOnly):
      requires org.apache.commons.io;
```

Module Dependency Definition | Module Version Management | Retrieving & Building JARs | Version & Variant Conflicts | Dependency Consistency Checks | Version Update Management

REPOSITORY

- compile.gradle.kts
- test.gradle.kts
- java-module.gradle.kts
- gradle/versions
  - build.gradle.kts
- modules
  - javarca-model
  - javarca-engine
  - jamcatch-stage
  - jamcatch-assets
  - jamcatch-actors
    - src/main/java/module-info.java
    - build.gradle.kts
  - renderer-lwjgl
- renovate.json

EDITOR

```
{
  "$schema": "https://docs.renovatebot.com/renovate-schema.json",
  "extends": [
    "config:recommended"
  ]
}
```

```
renovate jjohannes/javarcade
```

Update dependency commons- ×

https://github.com/jjohannes/javarcade/pull/5

90%

Update dependency commons-io:commons-io to v2.19.0 #5

Edit Code

Open renovate wants to merge 1 commit into `main` from `renovate/commons-io-commons-io-2.x`

Conversation 0 Commits 1 Checks 1 Files changed 2 +2 −2

renovate bot commented 2 weeks ago · edited

This PR contains the following updates:

Package	Change	Age	Adoption	Passing	Confidence
commons-io:commons-io (source)	`2.16.1` -> `2.19.0`	68d	12%	99%	high

Configuration

📅 **Schedule**: Branch creation - At any time (no schedule defined), Automerge - At any time (no schedule defined).

🚦 **Automerge**: Disabled by config. Please merge this manually once you are satisfied.

♻ **Rebasing**: Whenever PR becomes conflicted, or you tick the rebase/retry checkbox.

🔕 **Ignore**: Close this PR and you won't be reminded about this update again.

- [ ] If you want to rebase/retry this PR, check this box

This PR was generated by Mend Renovate. View the repository job log.

Reviewers

Suggestions

Copilot Request

jjohannes Request

Still in progress? Convert to draft

Assignees

No one—assign yourself

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

Successfully merging this pull request may close these issues.

None yet

Recipe for Carefree Dependency Management

1. Decide for one method and define Dependencies between Modules in dedicated files
   - Java Module System: . . . <module-folder>/src/main/java/module-info.java
   - Gradle: . . . . . <module-folder>/build.gradle.kts
   - Maven: . . . . . <module-folder>/pom.xml
2. Version management in a dedicated file
   - Gradle: . . . . . <bom-folder>/build.gradle.kts
   - Maven: . . . . . <bom-folder>/pom.xml

   ❌ Do not mix with 1.
3. Configure each build concern in a dedicated file
   - Gradle: . . . . . <plugins-folder>/<build-concern>.gradle.kts (plugin composition)
   - Maven: . . . . . <configs-folder>/<build-concern>/pom.xml (parent pom hierarchy)

   ❌ Do not mix with 1.
4. Conflict management in a dedicated file
   - Gradle: . . . . . <plugins-folder>/dependency-rules.gradle.kts
   - Maven: . . . . . <configs-folder>/dependency-rules/pom.xml

   ❌ Do not mix with 1.
5. Configure dependency analysis and make it a regular check
   - Gradle: . . . . . <plugins-folder>/quality-check.gradle.kts
   - Maven: . . . . . <configs-folder>/quality-check/pom.xml
6. Configure Renovate or Dependabot for automatic update PRs
   - Renovate: . . . . . renovate.json
   - Dependabot: . . . . . .github/dependabot.yml

Thank You

javarca.de

Jendrik Johannes

GradleX

A collection of high quality Gradle plugins

gradlex.org

Understanding Gradle Video Series

youtube.com/@jjohannes

onepiece.Software

Gradle Training and Consulting

onepiece.software