

1. Projektverzeichnis mit pom.xml erstellen

```
mvn -B archetype:generate \
    -DarchetypeGroupId=org.apache.maven.plugins \
    -DgroupId=com.mgithub.ownerr.epname \
    -DartifactId=my-app
```

Anschließend ins neu angelegte Projektverzeichnis wechseln

2. Maven Wrapper anlegen

```
mvn -N io.takari:maven:wrapper -Dmaven=3.6.0
```

Im Projektverzeichnis ausführen

3. Verzeichnisstruktur erstellen

```
mkdir docs
mkdir etc
mkdir src/main/resources
```

4. Anlegen der Datei: .gitignore

```
# Compiled class file
*.class
# Log file
*.log
# BlueJ files
*.ctxt
# Mobile Tools for Java (J2ME)
.mtj.tmp/
# Package Files #
*.jar
*.war
*.nar
*.ear
*.zip
*.tar.gz
*.rar
# virtual machine crash logs, see http://www.java.com/en/download/help/error_hotspot.xml
```

4. Anlegen der Datei: .gitignore (cont)

```
> hs_err_pid*
# IDE IntelliJ
.idea
*.iml
# Build Maven
/target
```

pom.xml erweitern

```
<properties>
    <project.build.sourceEncoding> UTF-8</project.build.sourceEncoding>
    <mvn.compiler.source>1.8</mvn.compiler.source>
    <mvn.compiler.target>1.8</mvn.compiler.target>
    <mvn.plugins.version>3.7.0</mvn.plugins.version>
</properties>
<parent>
    <groupId>com.google.aggr</groupId>
    <artifactId>dagger</artifactId>
    <version>2.21</version>
    <dependencies>
        <groupId>com.google.aggr</groupId>
        <artifactId>dagger</artifactId>
        <version>2.21</version>
    </dependencies>
    <groupId>com.google.guava</groupId>
    <artifactId>guava</artifactId>
```



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pom.xml erweitern (cont)

```
> <version>27.0.1-jre</version>
</dependency>
</dependencies>
</dependencyManagement>
<dependencies>
<!-- Logging -->
<dependency>
<groupId>org.slf4j</groupId>
<artifactId>slf4j-api</artifactId>
<version>1.7.25</version>
<scope>compile</scope>
</dependency>
<!-- DI für Java SE Umgebungen -->
<dependency>
<groupId>com.google.dagger</groupId>
<artifactId>dagger</artifactId>
<scope>compile</scope>
</dependency>
<!-- Objektfunktionales Paradigma -->
<dependency>
<groupId>io.vavr</groupId>
<artifactId>vavr</artifactId>
<version>1.0.0-alpha-2</version>
<scope>compile</scope>
</dependency>
<dependency>
<groupId>com.google.guava</groupId>
<artifactId>guava</artifactId>
<scope>compile</scope>
</dependency>

<!-- APIs von denen die Generate abhängen -->
```

pom.xml erweitern (cont)

```
> <dependency>
<groupId>javax.validation</groupId>
<artifactId>validation-api</artifactId>
<version>2.0.1.Final</version>
<scope>compile</scope>
</dependency>
<dependency>
<groupId>org.apache.bval</groupId>
<artifactId>bval-jsr</artifactId>
<version>2.0.0</version>
<scope>compile</scope>
</dependency>
<!-- Test Abhängigkeiten -->
<dependency>
<groupId>org.junit.jupiter</groupId>
<artifactId>junit-jupiter-api</artifactId>
<version>5.4.0</version>
<scope>test</scope>
</dependency>
<dependency>
<groupId>com.tngtech.archunit</groupId>
<artifactId>archunit-junit5-api</artifactId>
<version>0.9.3</version>
<scope>test</scope>
</dependency>
<!-- Logging -->
<dependency>
<groupId>ch.qos.logback</groupId>
<artifactId>logback-classic</artifactId>
<version>1.2.3</version>
<scope>test</scope>
```



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pom.xml erweitern (cont)

```
> </dependency>

</dependencies>
<organization>
  <name>PIUG</name>
  <url>https://piug.slack.com</url>
</organization>
<reporting>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-project-info-reports-plugin</artifactId>
      <version>2.9</version>
      <reportSets>
        <reportSet>
          <configuration>
            <skip>true</skip>
          </configuration>
        </reportSet>
      </reportSets>
    </plugin>
  </plugins>
</reporting>
```

5. Anlegen der Datei: Changelog.adoc (cont)

```
> ### Changed
- n/a
### Removed
- n/a
```

6. Anlegen der Datei: .editorconfig

```
# EditorConfig is awesome:
https://EditorConfig.org
# top-most Editor Config file
root = true
# Unix-style newlines with a newline ending every
file
[*]
end_of_line = lf
insert_final_newline = true
charset = utf-8
indent_style = space
indent_size = 4
# Indentation override for all JS under lib
directory
[*.properties, *.xml]
indent_style = space
indent_size = 2
# Matches the exact files either package.json or
.travis.yml
[{package.json, .travis.yml}]
indent_style = space
indent_size = 2
```

7. Anlegen der Datei: .travis.yml

```
language: java
jdk:
  - oraclejdk8
script: ./mvnw clean install
after_success:
  - bash <(curl -s https://codecov.io /bash)
```

5. Anlegen der Datei: Changelog.adoc

```
# Changelog
Alle wichtigen Änderungen am Projekt sind in
dieser Datei dokumentiert.
Das Format basiert auf http://keepachangelog.com/de/[Keep a Change log].
Die Versionierung erfolgt nach http://semver.org/lang/de/[Semantic Versioning].
// ## [3.1.1] fertig gestellt 2018-05-11
## [unreleased]
### Added
- https://github.com/owner/repository/issues/1 [issue #1] Projekt aufgesetzt.
```



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8. Anlegen der Datei: etc/version-rules.xml

```
<ruleset comparisonMethod="maven"
      xml ns= " http://maven.apache.org/2001/XMLSchema-instance "
      xsi :schemaLocation="http://maven.apache.org/2001/XMLSchema-instance http://maven.apache.org/2001/XMLSchema-instance"
      >
  <ignoreVersions>
    <ignoreVersion type="release">
      beta.</ignoreVersion>
    <ignoreVersion type="release">
      alpha.</ignoreVersion>
    </ignoreVersions>
  </ruleset>
```

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9. Anlegen der Datei: LICENSE (cont)

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