

1. Projektverzeichnis mit pom.xml erstellen

```
mvn -B archetype:generate \
    -DarchetypeGroupId=org.apache.maven.plugins \
    -DgroupId=com.my-app \
    -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/
```

4. Anlegen der Datei: .gitignore (cont)

```
# 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
hs_err_pid*

# IDE IntelliJ
.idea

*.iml

# Build Maven
/target
```

4. pom.xml erweitern

```
<properties>
    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
    <compiler.source>1.8</compiler.source>
    <compiler.target>1.8</compiler.target>
    <compiler.plugin>3.7.0</compiler.plugin>
</properties>
```



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pom.xml erweitern (cont)

```
<pr ere qui sit es>
    <ma ven >3.6.0 </m ave n>
</p rer equ isi tes>
<de pen den cyM ana gem ent>
    <de pen den cie s>
        <de pen den cy>
            <gr oup Id> com.go ogl e.d agg -
er< /gr oup Id>
            <ar tif act Id> dag ger </a rti -
fac tId>
            <ve rsi on> 2.2 1</ ver sio n>
        </d epe nde ncy>
    <de pen den cy>
        <gr oup Id> com.go ogl e.d agg -
er< /gr oup Id>
        <ar tif act Id> dag ger -co mpi -
ler </a rti fac tId>
        <ve rsi on> 2.2 1</ ver sio n>
    </d epe nde ncy>
<de pen den cy>
    <gr oup Id> com.go ogl e.g uav -
a</ gro upI d>
    <ar tif act Id> gua va< /ar tif -
act Id>
    <ve rsi on> 27.0.1 -jre</ ver -
sio n>
    </d epe nde ncy>
</d epe nde nci es>
</d epe nde ncy Man age men t>
```

pom.xml erweitern (cont)

```
<de pen den cie s>
    <!-- Logging -->
    <de pen den cy>
        <gr oup Id> org.sl f4j </g rou pId>
        <ar tif act Id> slf 4j- api </a rti -
fac tId>
        <ve rsi on> 1.7.25 </v ers ion>
        <sc ope >co mpi le< /sc ope>
    </d epe nde ncy>
    <!-- DI für Java SE Umgebungen -->
    <de pen den cy>
        <gr oup Id> com.go ogl e.d agg -
er< /gr oup Id>
        <ar tif act Id> dag ger </a rti fac -
tId>
        <sc ope >co mpi le< /sc ope>
    </d epe nde ncy>
    <!-- Objekt fun kti onales Paradigma -->
    <de pen den cy>
        <gr oup Id> io.v av r</ gro upI d>
        <ar tif act Id> vav r</ art ifa ctI d>
        <ve rsi on> 1.0.0- alp ha- 2</ ver -
sio n>
        <sc ope >co mpi le< /sc ope>
    </d epe nde ncy>
<de pen den cy>
```



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pom.xml erweitern (cont)

```

        <group Id> com.go ogl e.g uav a/ -
    groupId>
        <artifact Id> gua va</artifact Id>
        <scope>compile</scope>
    </dependency>

    <!-- APIs von denen die Generate abhängen -->
    <dependency>
        <group Id> jav ax.v al ida tio n/ -
    groupId>
        <artifact Id> val ida tio n-a -
    pi</artifact Id>
        <version> 2.0.1.F in al</version>
        <scope>compile</scope>
    </dependency>
    <dependency>
        <group Id> org.ap ach e.b val </group Id>
        <artifact Id> bva l-j sr</artifact Id>
        <version> 2.0.0</version>
        <scope>compile</scope>
    </dependency>
    <!-- Test Abhängigkeiten -->
    <dependency>
        <group Id> org.ju nit.ju pit er</group Id>
        <artifact Id> jun it- jup ite r-a -
    pi</artifact Id>
        <version> 5.4.0</version>

```

pom.xml erweitern (cont)

```

        <scope>test</scope>
    </dependency>
    <dependency>
        <group Id> com.tn gte ch.a rc hun -
    it</group Id>
        <artifact Id> arc hun it- jun it5 -
    ap i</artifact Id>
        <version> 0.9.3</version>
        <scope>test</scope>
    </dependency>
    <!-- Logging -->
    <dependency>
        <group Id> ch.q os.lo gba ck</group Id>
        <artifact Id> log bac k-c las sic -
    </artifact Id>
        <version> 1.2.3</version>
        <scope>test</scope>
    </dependency>

    </dependencies>
    <organization>
        <name> PIU G</name>
        <url>http s:/ /pi ug.s la ck.c om </url>
    </organization>
    <reporting>
        <plugins>

```



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pom.xml erweitern (cont)

```

    <pl ugi n>
      <gr oup Id> org.ap ach e.m ave -
n.p lug ins </g rou pId>
      <ar tif act Id> mav en- pro jec t-
i nfo -re por ts- plu gin </a rti fac tId>
      <ve rsi on> 2.9 </v ers ion>
      <re por tSe ts>
        <re por tSe t>
          <co nfi gur ati on>
            <sk ip> tru e</ ski p>
          </c onf igu rat ion>
        </r epo rtS ets>
      </r epo rtS ets>
    </p lug in>
  </p lug ins>
</r epo rti ng>

```

5. Anlegen der Datei: Changelog.adoc

```

# Changelog
Alle wichtigen Änderungen am Projekt sind in
dieser Datei dokume ntiert.
Das Format basiert auf http://ke epa cha nge -
log.co m/d e/\[Keep a Change log\].
Die Versio nierung erfolgt nachhttp://se mve -
r.o rg/ lan g/d e/\[ Sem antic Versio ning\].
// ## [3.1.1] fertig ges tellt 2018-05-11
## [unrel eased]
### Added

```

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

```

- https://g ith ub.c om /ow ner /re pon ame /is -
sue s/1 \[issue #1\] Projekt aufges etzt.
### 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
[*.{pr ope rti es, xml}]
indent_style = space
indent_size = 2
# Matches the exact files either package.json or
.travis.yml
[{pack age.js on, .tr avi s.yml}]

```



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6. Anlegen der Datei: .editorconfig (cont)

```
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)
```

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

```
<ruleset comparisonMethod="maven"
  xml ns="http://mojoco.de/packages/maven-plugins/2.0.0"
  xsi:schemaLocation="http://mojoco.de/packages/maven-plugins/2.0.0 http://mojoco.de/packages/maven-plugins/2.0.0xsd"
  <ignoreVersions>
    <ignoreVersion type="release">.beta.</ignoreVersion>
    <ignoreVersion type="release">.alpha.</ignoreVersion>
  </ignoreVersions>
</ruleset>
```

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```
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