# Create a Maven Archetype from an existing project in 8 steps.

Source => http://www.luckyryan.com/2013/02/15/create-maven-archetype-from-existing-project/

- 1. Create your **POM based project** as normal with base files that you want as starter for archetype.
  - a. This is a GENERIC pom based project that you will save in SVN/GIT and use as baseline starter for your type of project. In this case, I chose a struts2 web application that requires a lot of xml config out of the box.
  - b. I started my web app from another maven archetype, but you can write your code from scratch if need be. (The mvn command must be on ONE line or continue with /)

```
PWD => /home/ftrujillo/NetBeansProjects

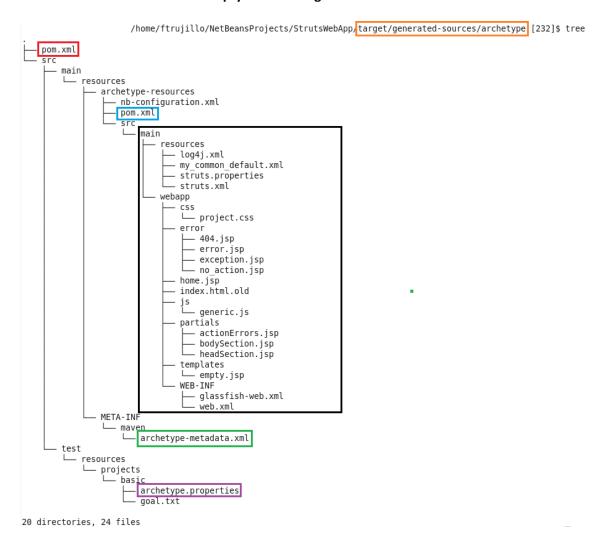
mvn
-DarchetypeGroupId=org.codehaus.mojo.archetypes
-DarchetypeArtifactId=webapp-javaee7
-DarchetypeVersion=1.1
-DarchetypeRepository=http://repo.maven.apache.org/maven2
-Darchetype.interactive=false
-DgroupId=org.yourorg
-DartifactId=StrutsWebApp
-Dversion=1.0
-Dpackage=org.yourorg.yourapp
-Dbasedir=/home/ftrujillo/NetBeansProjects
--batch-mode
archetype:generate
```

## After your base project works.

- 2. **cd** into your project directory containing your **pom.xml** file.
  - a. **mvn clean** (to get rid of target from compile/run OPTIONAL)



- 3. mvn archetype:create-from-project
- 4. cd target/generated-sources/archetype (ARCHETYPE ROOT)
  - a. DO NOT CHANGE DIRECTORIES for steps 5-8.
- 5. mvn clean
  - a. There are two pom.xml files. The pom.xml at the top is to create this archetype, the one in BLUE is the file that will be the pom.xml file when we generate a new project later. See changes below.
  - b. \*\*\* Notice no empty directories get created. \*\*\*



The top pom.xml file will control the archetype build, the other pom.xml file's name MUST be changed to use property. \${artifactId}

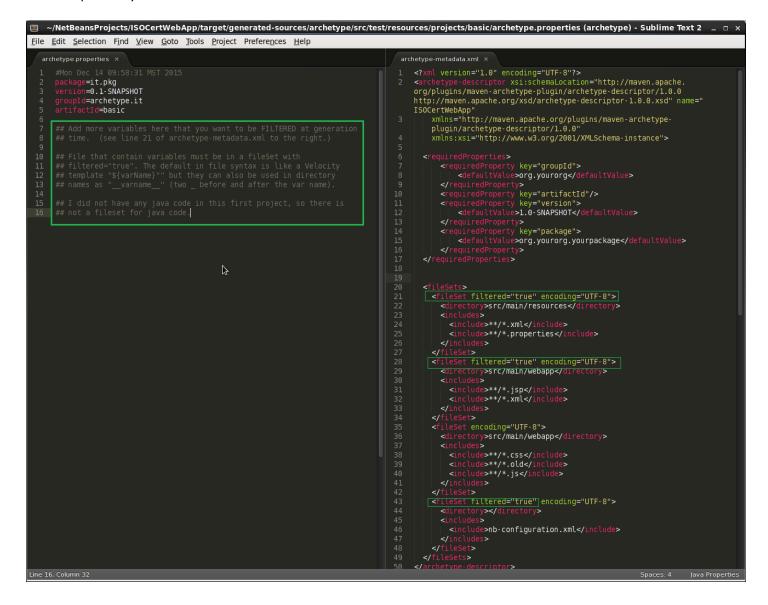


#### 6. Edit ./src/main/resources/META-INF/maven/archetype-metadata.xml. Add the part in GREEN.

```
<requiredProperties>
  <requiredProperty key="groupld">
        <defaultValue>org.yourorg</defaultValue>
        </requiredProperty>
        <requiredProperty key="artifactId"/>
        <requiredProperty key="version">
              <defaultValue>1.0</defaultValue>
        </requiredProperty>
        <requiredProperty key="package">
              <defaultValue>org.yourorg.yourapp</defaultValue>
        </requiredProperty>
        </requiredProperty>
    </requiredProperties>
```

```
🗉 ~/NetBeansProjects/ISOCertWebApp/target/generated-sources/archetype/src/main/resources/META-INF/maven/archetype-metadata.xml (archetype) - Sublime Tı 🗘 🖯
<u>File Edit Selection Find View Goto Tools Project Preferences Help</u>
      <?xml version="1.0" encoding="UTF-8"?>
       <archetype-descriptor xsischemalocation="http://maven.apache.org/plugins/maven-archetype-descriptor/1.0.0 http://maven.apache.org/xsd/archetype-descriptor-1.0.0.xsd" name="ISOCertWebApp"</pre>
            xmlns="http://maven.apache.org/plugins/maven-archetype-plugin/archetype-descriptor/1.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
                            roperty key="groupId">
ltValue>org.yourorg</defaultValue>
                                   ty key="artifactId"/>
                                    e>1.0-SNAPSHOT</defaultValue>
                                    y key="package">
e>org.yourorg.yourpackage</defaultValue>
                    et filtered="true" encoding="UTF-8">
                       tory>src/main/resources</directes>
                      clude>**/*.xml</include>
                           e>**/*.properties</include>
                      ctory>src/main/webapp</directory>
                      clude>**/*.jsp</include>
clude>**/*.xml</include>
                       encoding="UTF-8">
tory>src/main/webapp</directory>
                          e>**/*.css</include>
le>**/*.old</include>
le>**/*.js</include>
                        filtered="true" encoding="UTF-8">
                           e>nb-configuration.xml</include>
```

7. Optionally edit ./src/test/resources/projects/basic/archetype.properties. Add other properties you want to replace in your source code.



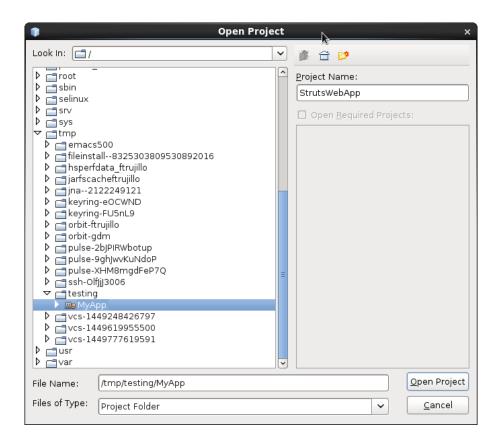
#### 8. mvn install

- 9. Now, you can chdir to another directory and use the new LOCAL archetype.
  - a. mkdir -p /tmp/testing; cd /tmp/testing
  - b. mvn -artifactId StrutsWebApp -DarchetypeCatalog=local archetype:generate
  - c. Or, use non interactive mode

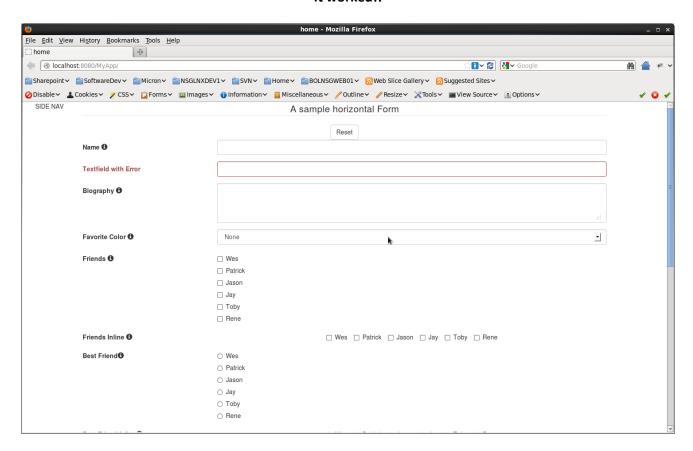
```
mvn -DarchetypeGroupId=org.yourorg \
```

- -DarchetypeArtifactId=StrutsWebApp-archetype \
- -DarchetypeVersion=1.0 \
- -DgroupId=org.me \
- -DartifactId=MyApp \
- -Dversion=1.0 \
- -Dpackage=org.me.app \
- -Dbasedir=/tmp/testing \
- -DarchetypeCatalog=local \

archetype:generate



### It worked!!



If you have http set up to serve public\_html, then you can do remote sharing. Add this to above command.

- 10. Now, go back to directory in **step 4** where we installed the new archetype.
  - a. cd \$HOME/NetBeansProjects/StrutsWebApp/
  - b. mvn clean
- 11. Check in your project to SVN or GIT so you can update later and re-generate new archtype at that time with a different version.