# Step 1: Assembling BuildTools

- 1. Download BuildTools from mineacademy.org/buildtools
- first line with java parameters. It should look like this:

```
java -Xms2G -Xmx2G -jar BuildTools.jar --rev latest --remapped
pause
```

Take note for the –remapped argument, this will install additional Spigot jars into your local Maven repository with the classifiers "remapped-obf" and "remapped-mojang" so you can use it in your pom.xml file for projects.

3. Launch the script and wait until it says "Success! Everything completed successfully. Copying final .jar files now."



Type your text

2. Place BuildTools.jar into a separate folder. Copy over the launching script from your test server there and edit the

# Step 2: Updating pom.xml

- 1. Open <u>mineacademy.org/mappings-pom</u>
- 2. Remove any Minecraft versions 1.17 or newer from your pom.xml as this will cause conflicts.
- 3. Update your pom.xml according to the instructions in the paste above.





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Place the following code in your <properties> section.</properties>						
(! Change with the most recent version you want to use for Mojangs mappings>						
<pre>(remapped.version&gt;1.19.2-R0.1-SNAPSHOT</pre>						
Place the following code in your <dependencies> section.</dependencies>						
(dependency>						
<proupid>org.spigotmc</proupid>						
<artifactid>spigot</artifactid>						
<version>\${remapped.version}</version>						
<scope>provided</scope>						
<classifier>remapped-mojang</classifier>						
<pre>//dependency&gt;</pre>						
Place the following code in your <plugins> section in <build>.</build></plugins>						



# Step 3: Fixing compile errors and testing

- 1. I recommend commenting out all NMS dependencies from your pom.xml during update process to avoid accidental imports.
- 2. Duplicate your NMS classes.
- 3. Since Mojang's names are very different from Spigot's, use mineacademy.org/mappings to help you find the new names.
- 4. Hot-swap / live debug only works with Spigot's mapping and not here since Ant (build.xml) doesn't support remapping. You will have to "clean install" each time using Maven and start your server manually. Give it a good test!



Mojang/Spigot comparison Only symbols which had a Spigot mapping in one of the compared versions are shown. Classes which were not present in version 1.16.5 are filtered out, because their Spigot mapping is probably the same as their Mojang mapping. For searching use a built-in tool in your browser (Ctrl+F or F3) 1.16.5 1.17.1 🔗 Class: .mojang.math.Matrix3 com.mojang.math.Matrix3 net.minecraft.server.v1\_16\_R3.Matrix3f com.mojang.math.Matrix3f Class <u>n.mojang.math.Matrix4</u> com.mojanq.math.Matrix4 Mojang net.minecraft.server.v1\_16\_R3.Matrix4f com.mojang.math.Matrix4f Ø Class Mojang n.mojang.math.OctahedralGroup com.mojang.math.OctahedralGroup net.minecraft.server.v1\_16\_R3.PointGroupO com.mojang.math.PointGroupO Fields: Mojang INVERT\_Y INVERT\_Y INVERT\_Y INVERT\_Z Mojang INVERT\_Z INVERT\_Z ROT\_60\_REF\_NNN ROT\_60\_REF\_NNN ROT\_60\_REF\_NNN ROT\_60\_REF\_NNP ROT\_60\_REF\_NNP ROT\_60\_REF\_NNP ROT\_60\_REF\_NPN ROT\_60\_REF\_NPN ROT\_60\_REF\_NPN ROT\_60\_REF\_NPP Mojang ROT\_60\_REF\_NPP

NMSMapper Version overview Documentation

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#### Multi-version support

You will need to downgrade your MC version to an older one using older BuildTools revision (--rev parameter) and then update pom.xml with it, see what breaks, patch it using reflection, and then release your plugin.

#### 

- 1. An interface project
- 2. Minecraft 1.19 NMS project
- 3. Minecraft 1.20 NMS project
- 4. Your main plugin

Your main plugin will have 1, 2, 3 as dependencies and shade them. Your interface project will only include Foundation (or nothing). Your two NMS projects will only include your interface project and Foundation. Keep things simple, you do not even need to use "parent" mechanism in pom.xml to achieve this.



A) Reflection (requires Mojang's mappings) — To support multiple Minecraft versions with different mappings, you can sometimes just stay on the most recent mappings and use reflection to call methods that were different in older MC versions.

**B) Multiple projects (supports Spigot's mappings)** — For large code changes you will need to create the following setup: