

Setting up the new environment we will all use.

1. Get and Install Apache Maven: <https://maven.apache.org/install.html>

These are installation instructions for Windows and Unix. On a mac, refer to the next step.
(http://www.tutorialspoint.com/maven/maven_environment_setup.htm)

Use Homebrew to get and install Maven (Mac Only):

(If you do not have brew, get it from <http://brew.sh/>)

~ brew install maven

2. Create a maven project (Getting Started)

Refer to <https://maven.apache.org/guides/getting-started/>

The command for creating a maven project should be pretty straightforward:

```
mvn -B archetype:generate -DarchetypeGroupId=org.apache.maven.archetypes  
-DgroupId=com.mycompany.app -DartifactId=my-app
```

e.g. com.rtn.drm.colorService

The groupId is generally the package name and the artifact is the name of the project overall.

3. Linking the Knopflerfish Libraries

Refer to <http://www.knopflerfish.org/releases/5.2.0/docs/programming.html>

I personally used the sample POM they provided at that link.

For an additional example, check the CDR's POM:

<https://github.com/jon5477/CDResolver/blob/master/pom.xml>

To get quickly started, you are welcome to copy the pom.xml posted above for the most up-to-date Knopflerfish libraries.

4. Building with Maven

Please be aware that I am using Apache Felix for managing the manifest creation. Read up on it if you need additional information at:

<http://felix.apache.org/documentation/subprojects/apache-felix-maven-bundle-plugin-bnd.html>

Generally, you shouldn't need to read through it as it is pretty straightforward but if there are features that you would like to explore then you are welcome to read through it.

The commands we will be using will be:

mvn clean - For cleaning the project

mvn compile - For compiling the project

mvn bundle:bundle - For creating the bundle, this also will generate the manifest automatically

Please note that in order for these commands to work your path (Unix, Mac) or Environment Variables (Windows) need to exist in order for these commands to work. Also keep in mind that these commands can be appended to be all run in one line as such:

```
mvn clean compile bundle:bundle
```

These commands will be executed in the order that they are specified.