How to build Naked Objects from Source

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If you are thinking about modifying or contribute to Naked Objects, then you'll want to be able to build Naked Objects from source.

Naked Objects is built using Maven 2, so (provided you are on the Internet to download any dependencies) it pretty much builds itself. Full details of Maven modules are at http://nakedobjects.org/wiki/Maven Modules.

Although you can just use Maven from the command line, you'll almost certainly want to use an IDE for proper development. We use Eclipse IDE with the M2Eclipse plugin. This generates the .project and .classpath files on-the-fly from the Maven pom.xml; that's why these files aren't checked into source code. NetBeans 6.7+ and IntelliJ also have built-in support for Maven (we haven't used either of these in anger, though).

Naked Objects is hosted on SourceForge at https://nakedobjects.svn.sourceforge.net/svnroot/nakedobjects.

How to build Naked Objects from Source

Before You Start

Prerequisite Software

Install a Subversion client, for example TortoiseSVN (http://tortoisesvn.tigris.org).

Install Java 5, setup JAVA_HOME

Install Maven 2.0.9 or later, setup MAVEN_HOME, add mvn to PATH.

Optional, but recommended: Install Eclipse 3.5 (JEE edition).

Also recommended is:

- the M2Eclipse plugin (http://m2eclipse.codehaus.org/).
- Subclipse plugin (http://subclipse.tigris.org/)

Check out the Source Code

The framework is at .../framework/trunk . In addition, there are also some Maven plugins for preparing the documentation. These reside in.../developers/maven-plugins/trunk.

Check out both directories.

Jimi Dependency

To build the full distribution (including documentation), you'll first need to install the jimi.jar file (not available in the central repository due to licensing issues) into your local repository:

- Download the jimi jar file. You'll find it within the JimiProClasses.zip downloadable from http://java.sun.com/products/jimi/.
- Install into your local Maven repository using:

```
mvn install:install-file -D groupId=com.java -D artifactId=jimi \
    -D version=1.0 -D packaging=jar -D file=/path/to/jimi.jar
```

Build Maven Plugins

The Naked Objects documentation uses a number of Maven plugins specific to NO itself.

```
$ cd ~/developers/maven-plugins/trunk
$ mvn clean install
```

You should end up with:

Build the Parent POM

Build the parent ("corporate") POM. (NB: the version of the parent POM doesn't match that of the framework, this is by design).

```
$ cd ~/framework/trunk
$ cd pom
$ mvn clean install
```

You should end up with:

Building the Full Distribution

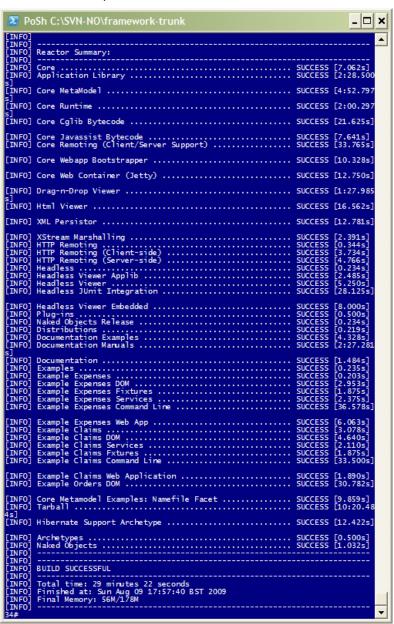
The complete build will build the Maven-released modules (the core framework + plugins), the documentation, examples and a couple of tarballs downloadable from sourceforge:

- one of the tarballs is for Maven users, and includes just the documentation and supporting files (such as icons and templates)
- the other tarball is for non-Maven users, and includes all the libraries and dependencies.

To build the full distribution, use:

```
$ mvn clean install -P all
```

You should end up with:



Building just the Maven-Released Modules (the core framework + plugins)

To build just the Maven released plugins (which, actually, is what you most often need to do):

```
$ cd .../framework/trunk
$ mvn clean install
```

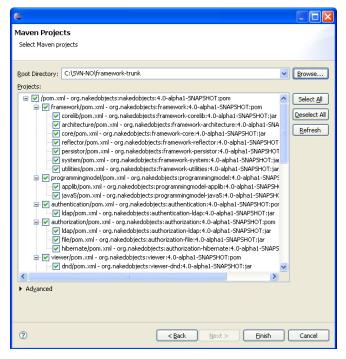
You should end up with:

Building in Eclipse

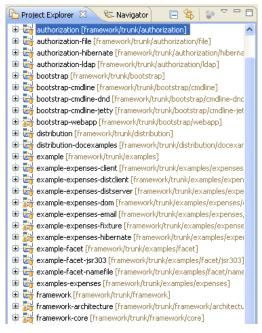
[NB: THESE SCREENSHOTS ARE A LITTLE OUT OF DATE, BUT YOU GET THE IDEA...] Use File > Import to import the Maven poms.



Specify the framework/trunk as root directory. The M2Eclipse plugin will locate all the Maven projects referenced



Hit finish. You'll end up with a bunch of projects:



You might then want to organize into working sets.

You're now set to develop using either Maven or Eclipse.

Hints and Tips

- · switch off automatic builds in Eclipse and build manually
- Using Windows > Preferences > Maven
 - o enable offline mode in Eclipse to save checking remote repositories
 - o point to your external Maven installation to minimize differences
- whenever you need to build from the commandline as well, use mvn install –o rather than mvn clean install
 - o mitting clean means that Eclipse doesn't lose a handle on the JARs that it is referencing
 - o the -o flag means run offline, to save checking remote repositories
- if you do a full mvn clean install, then do a refresh in Eclipse afterwards
- if M2Eclipse gets its confused, do a full refresh, followed by update dependencies, followed by update project configuration. That usually does the trick.