

**School of Computer Science**  
Language Technologies Institute

# **DiscourseDB**

## Developer Setup

# Eclipse

- Any recent eclipse version will do
- Make sure it comes with m2e (Maven integration)
- DiscourseDB needs Java8. If you have multiple JDKs installed, make sure eclipse runs on Java8

# DiscourseDB Projects

- DiscourseDB projects are MAVEN PROJECTS, not Java Projects
- Do not manually add jars to the classpath. Add Maven dependencies.
  - Check availability of your favorite library here:  
<https://search.maven.org/>
- Projects are hosted on GitHub. Easiest way of combining GitHub+Maven in eclipse → m2e Team Provider for git

# m2e-egit

- Connector between m2e and egit
- M2e marketplace (not eclipse marketplace)
  - Window/Preferences/Maven/Discovery > Open Catalog
  - Find and install **m2e-egit**
- Solution above might not work with newest eclipse
  - Help/Install new Software
  - <https://repository.takari.io/content/sites/m2e.extras/m2eclipse-egit/0.14.0/N/LATEST/>

# Checking out projects

The screenshot shows the Eclipse IDE interface. The 'Import' dialog is open, displaying a tree of import sources. The 'Maven' folder is expanded, and 'Check out Maven Projects from SCM' is selected. Below it, the 'Check out as Maven project from SCM' dialog is also open. This dialog has a 'Target Location' section and an 'SCM URL' section. The 'SCM URL' is set to 'git' and the URL is 'https://github.com/DiscourseDB/discoursedb-model.git'. A red arrow points to this URL field. The background shows the Eclipse Package Explorer with 'discoursedb-parent' and 'discoursedb-model' projects. The bottom of the image shows a snippet of the GitHub repository page for 'discoursedb-model', including the commit history table.

Commit	Author	Message	Time
006a83e	ferschke	Property declared readonly service methods as readonly	18 days ago
		src	18 days ago
		gitignore	2 months ago
		README.md	20 days ago
		informal_model_description...	2 months ago
		pom.xml	19 days ago

# QueryDSL autogenerated Q\*classes

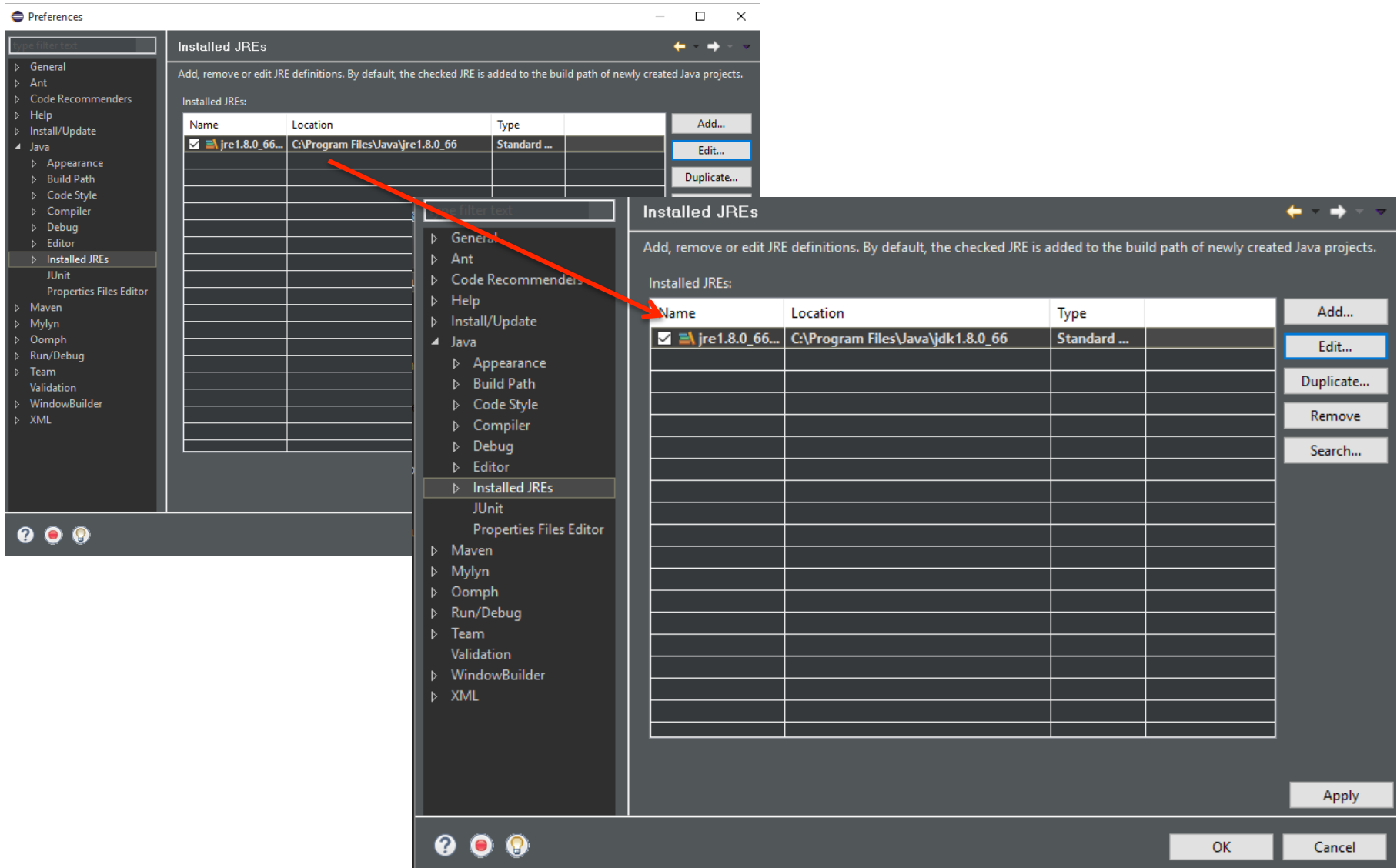
- Works out of the box on most setups
  - Windows machines need some additional configuration
1. Configure eclipse to use JDK rather than JRE
  2. Run maven build-process with eclipse:eclipse goal to fully set up project

# Eclipse with JDK instead of JRE

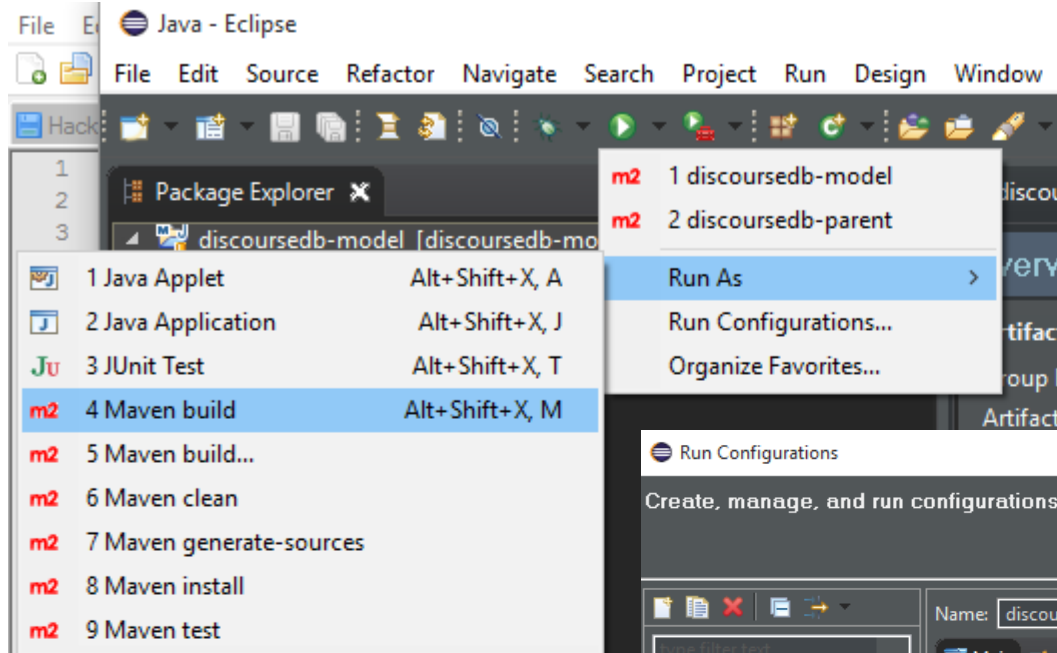
- Add the following lines to you eclipse.ini

```
1  -startup
2  ../../../../p2/pool/plugins/org.eclipse.equinox.launcher_1.3.100.v20150511-1540.jar
3  --launcher.library
4  ../../../../p2/pool/plugins/org.eclipse.equinox.launcher.win32.win32.x86_64_1.1.300.v20150602-1417
5  -vm
6  C:\Program Files\Java\jdk1.8.0_66\bin\javaw.exe
7  -product
8  org.eclipse.epp.package.java.product
9  --launcher.defaultAction
10 openFile
11 --launcher.XXMaxPermSize
12 256M
13 -showsplash
14 org.eclipse.platform
15 --launcher.XXMaxPermSize
16 256m
17 --launcher.defaultAction
18 openFile
19 --launcher.appendVmargs
20 -install
21 C:/Users/olive/eclipse/java-mars/eclipse
22 -vmargs
23 -Dosgi.requiredJavaVersion=1.7
24 -Xms256m
25 -Xmx2048m
26 -Doomph.update.url=http://download.eclipse.org/oomph/updates/milestone/latest
27 -Doomph.redirection.index.redirection=index:/->http://git.eclipse.org/c/oomph/org.eclipse.oomph.git/plain/setups/
28
```

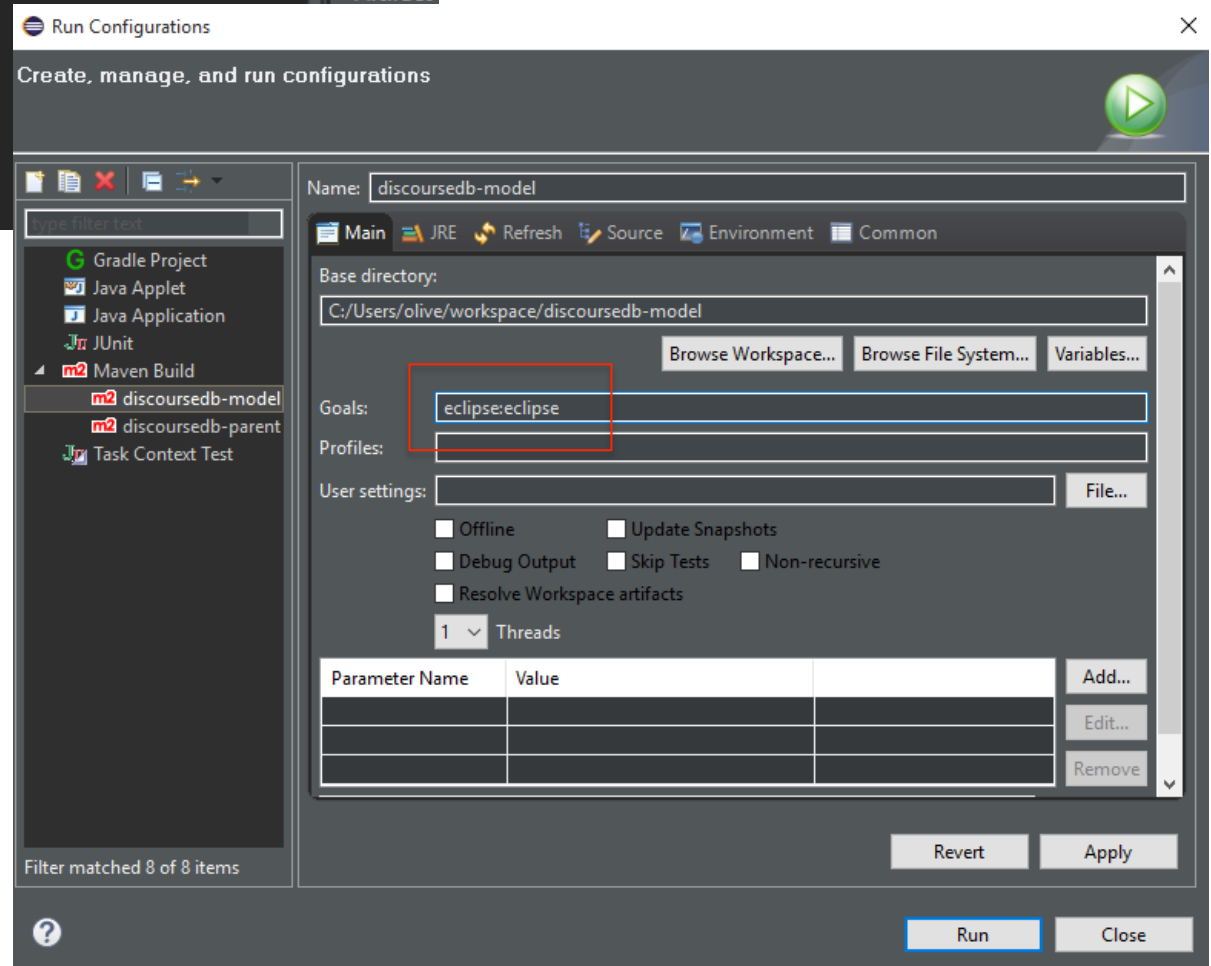
# If this is not enough...







# Let Maven set up eclipse project



# Optional: Connect to our public Artifactory

- Whenever a change to github is made, Jenkins builds the whole codebase.
  - If the build is successful, a new artifact is created in Artifactory
  - If you connect to Artifactory, you can use any DiscourseDB project as a dependency
- ➔ Only check out what you are working on  
– Maven takes care of the rest

# Optional: Connect to our public Artifactory

- Create a .m2 subfolder in your home folder
- Create a settings.xml file with the following content (see discoursedb-model README)

```
<?xml version="1.0" encoding="UTF-8"?>
<settings xsi:schemaLocation="http://maven.apache.org/SETTINGS/1.1.0 http://maven.apache.org/xsd/settings-1.1.0.xsd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <profiles>
    <profile>
      <repositories>
        <repository>
          <snapshots>
            <enabled>false</enabled>
          </snapshots>
          <id>central</id>
          <name>libs-release</name>
          <url>http://moon.lti.cs.cmu.edu:8081/artifactory/libs-release</url>
        </repository>
        <repository>
          <snapshots />
          <id>snapshots</id>
          <name>libs-snapshot</name>
          <url>http://moon.lti.cs.cmu.edu:8081/artifactory/libs-snapshot</url>
        </repository>
      </repositories>
      <id>artifactory</id>
    </profile>
  </profiles>
  <activeProfiles>
    <activeProfile>artifactory</activeProfile>
  </activeProfiles>
</settings>
```

- done