

P5 Development Guide

CS414 - And Yet it Compiles

Laura South, Isaac Mauro, Brian Larson, Yan Wang, Duck Keun Yang

1. Required Software:

- Java version 1.8 or higher
- Eclipse IDE for Java
- Apache Maven for Java
- JavaFX

2. Project File Structure:

- P1 : contains documents from the first iteration.
- P2 : contains documents from the second iteration.
- P3 : contains documents from the third iteration.
- src/main : contains source codes for the main software.
- src/test : contains JUnit tests for the main software.

3. Project Package Structure;

- *edu.colostate.cs.cs414.andyetitcompiles.p3.client* : contains client source codes for handling network communication.
- *edu.colostate.cs.cs414.andyetitcompiles.p3.common* : contains source codes for the jungle game model.
- *edu.colostate.cs.cs414.andyetitcompiles.p3.gui* : contains source codes for the JavaFX User Interface.
- *edu.colostate.cs.cs414.andyetitcompiles.p3.protocol* : contains source codes for the network model.
- *edu.colostate.cs.cs414.andyetitcompiles.p3.server* : contains server source codes for handling network communication.
- *edu.colostate.cs.cs414.andyetitcompiles.p3.test* : contains JUnit tests

4. Setting the development environment:

- 1) Download and install the latest version of Java from <https://java.com/download>
- 2) Download and install the eclipse IDE for Java developer from <https://www.eclipse.org/downloads/packages>

5. How to work on the project:

- 1) Open eclipse
- 2) Open the import project from git wizard
- 3) Enter <https://github.com/tartona/cs414-f17-301-andyetitcompiles> as the clone uri, and fill in your github credentials
- 4) Create maven run configuration with goal "clean install"
- 5) Run the maven run configuration
- 6) Now everything is setup for general work on the project

- a. If you want to run individual test classes, select the test class and Run As > JUnit test case
- b. If you want to run the game logic, select common.JungleGame and Run As > Java application
- c. If you want to run the client, select client.JungleClient and Run As > Java application
- d. If you want to run the GUI, select gui.Main and Run As > Java application
- e. If you want to run a server, select server.JungleServer and Run As > Java application
- f. If you want to run a test server with no business logic, just to test sending and receiving arbitrary objects, select KryoServerMock and Run As > Java application
- g. If you want to work on the GUI, install e(fx)clipse plugin, and download JavaFX Scene Builder 2.0 from
<http://www.oracle.com/technetwork/java/javase/downloads/javafxscenebuilder-1x-archive-2199384.html>