P3 Development Guide
CS414 - And Yet it Compiles
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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