Getting Started

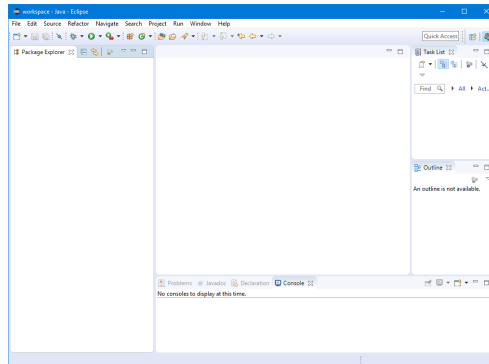## Compiling and Running Ticks 1 and 2

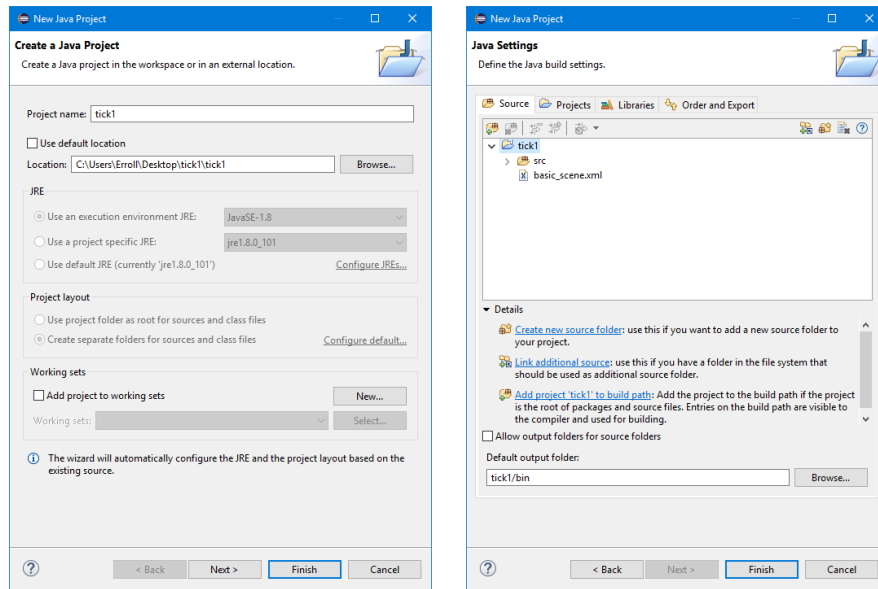Figure 1: A blank workspace in Eclipse.

1 Introduction

This document explains how to get started with Ticks 1 and 2 using Eclipse. Their directory structure is similar, so these instructions apply to both ticks, though we will focus on Tick 1 as an example. There is a separate document for getting started with Tick 3.

1.1 Downloading and extracting source files

The first step is to prepare the source files in an appropriate location. For Tick 1, download `tick1.zip` from Moodle, and extract the files. You should end up with a directory structure like so:

```
tick1                     Set your project's "Location" to this directory
├─ src
└─ basic_scene.xml
```

The root directory you should use as the project's `Location` in the next stage has been indicated.

(a) The New Java Project dialog box.   (b) The correct Java Settings.

Figure 2: You will import the project using the New Java Project wizard. (a) shows what the dialog box should look like for Tick 1. (b) shows what the Java Settings page should look like if you've set the Location correctly.

2   Importing Ticks 1 and 2

Having prepared the source files for Tick 1, we will now import them into Eclipse. Start Eclipse and close the Welcome screen. You should now see a blank workspace like the one in Figure 1.

Then, do the following tasks as shown in Figure 2.

1. Select File → New → Java Project from the application menu. You should see a dialog box like the one in Figure 2a.

2. For "Project name", enter "tick1".

3. Untick "use default location".

4. For "Location", click "Browse…" and navigate to the tick's root directory: tick1. This directory should contain the src directory.

5. Click "Next" at the bottom of the dialog box. The dialog box will now show the Java Settings for the project.

6. Check that Eclipse has correctly identified the src directory as being a source folder.
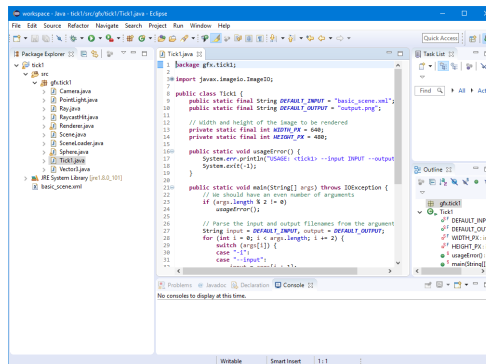
7. Click "Finish" to exit the dialog.

Figure 3: The workspace after you have imported Tick 1.

You have now imported Tick 1 into Eclipse. You can navigate to Tick 1's main class `Tick1.java` using the package explorer. Your workspace will now look like Figure 3. There should be some warnings about unused code. Don't worry about those, you will address these in the exercises.

The process for importing Tick 2 is very similar. Name your Tick 2 project `tick2`, and set it's Location to `tick2`.
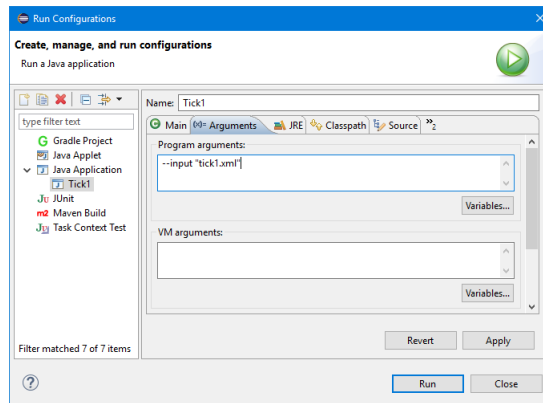
Figure 4: The dialog for modifying the Run Configurations.

3   Running Ticks 1 and 2

Once you have imported the code for Tick 1, running the code is straightforward. Since Eclipse has correctly determined your main class, you can just press Ctrl+F11, or click Run → Run using the application menu bar.

To modify the input arguments (e.g. for choosing a specific scene file), do the following:

1. Click Run → Run configurations... from the application menu. You should see a dialog box like the one in Figure 4.

2. Select Java Application → Tick 1 from the panel on the left. If Tick 1 does not exist, double click Java Application to automatically create it.

3. Click the Arguments tab in the panel on the right.

4. Enter your desired program arguments, e.g.   --input "tick1.xml" to change the input scene file.