

Assignment 1: Installing Eclipse and the Android SDK

Due Date: 9/2/2011 Submit via Sakai

1. Make sure that you have a recent version of the Java Development Kit installed (JDK 1.5 or JDK 1.6 [also called Java 5 and Java 6]). I did this by looking in the directory C:\Program Files\Java\ for a folder whose name started with jdk1.5 or jdk1.6. If you can't find such an installation, download a recent version of Java from <http://www.java.com/en/download/>
2. Download and install the Eclipse Classic software from the website below: <http://www.eclipse.org/downloads/> (the Eclipse Classic version I chose was 3.7). Move the downloaded zip file to a directory of your choice that is easy to remember, and then unzip the zip file (right-click on the file, choose 7-Zip, then *Extract Here*). This has installed Eclipse.
3. Run the Eclipse executable by double-clicking the *eclipse.exe* icon in the folder made during Step 2. When prompted, choose a folder for the Eclipse workspace (the workspace is where the source code for various projects will be stored). I made mine be under the *Userdata* folder, with the name *workspace*.
4. Go to the following webpage and follow Step 2 onwards:
<http://developer.android.com/sdk/installing.html>
 - a. (Step 2) Download the Android SDK (Software Development Kit) from here: <http://developer.android.com/sdk/index.html> I chose the file: [installer_r12-windows.exe](#) and after downloading that file, I executed it. If the program complains it can't find a JDK, hit the *Back* button and then the *Next* button again and it should find the JDK (a weird bug, huh?!?)
 - b. (Step 3) Install the Android Development Tools (ADT) plugin for Eclipse using the instructions here:
<http://developer.android.com/sdk/eclipse-adt.html#installing>
Complete the steps for both *Downloading* and *Configuring*.
 - c. (Step 4) Add the appropriate platforms for development using the directions provided. This involves opening the *Android SDK and AVD (Android Virtual Device) Manager* from the *Window* menu in Eclipse, choosing *Available packages*, and then selecting the components shown in the image on the next page of this document. The components shown in the image on the next page will support Android software versions 2.2 and higher (2.2 is on the original Motorola Droid). Make sure to include the *Google Third-party add-on* files, as they are needed for Google Maps support. This installation took a significant amount of time on my computer – you may want get some coffee while waiting!

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5. Follow the steps within the small block of the *Create an AVD* section from the webpage below to setup an Android emulator:
<http://developer.android.com/resources/tutorials/hello-world.html> Choose any name you want for the emulator, and set the target to be *Android 2.2 – API Level 8*. You do not need to follow any of the other steps on that page.
6. To earn credit for this lab, in Eclipse, go to the *Help* menu and choose the *About Eclipse SDK* menu option. A small window should pop up. Take a screenshot of that window by hitting the Alt key and PrtSc key (near F9/F10) together. Paste the image into a Word document and upload the document under the Assignment 1 section of Sakai.
7. That's it for now – we will discuss building a simple first app and running it in the emulator in the next class. Please bring your laptop to that class on Friday with the installation complete.

Packages to add in Step 4c:

