Getting Started with Android and Git

Edward Norris

This document will provide instructions on how to install all necessary software and how to import the existing project hosted on Github.com. It will not include any tutorials or other information on how to actually code in Java or for the Android.

You will need the following:
1) Git Bash*
2) SmartGit3
3) Eclipse
4) Android SDK
5) ADT Eclipse Plugin
5) A GitHub account

*Git Bash will never be used directly, it is used only as an underlying implementation for SmartGit3.

Download Git Bash here:

http://code.google.com/p/msysgit/downloads/detail?name=Git-1.7.10-preview20120409.exe&can=3&q=

and install it.

Download SmartGit3 here:

http://www.syntevo.com/smartgit/download.html

And install it. Make sure to tell it to use Git Bash; this should be automatically detected.
Make sure that when you install SmartGit3, you choose Non-Commercial License!

Download Eclipse here:

http://www.eclipse.org/downloads/

You will need to choose an Eclipse version. I recommend Eclipse Classic 3.7.X (Indigo) for whatever architecture (32bit/64bit) you have.

And install it. (You don't really install Eclipse per-se, you really just unzip it to wherever you want and then make a link to the executable)

Download the Android SDK here:

http://developer.android.com/sdk/index.html

You should choose 'installer_r18-windows.exe'

And install it.

To install the ADT pluging:

1) Open Eclipse
2) Help -> Install New Software...
3) Click Add in the top right corner
4) In the Add Repository dialog taht appears, enter "ADT Plugin" for the Name and for Location enter:

`https://dl-ssl.google.com/android/eclipse/`

5) Click OK
6) In the Available Software dialog, select Developer Tools and Next.
7) Next.
8) Finish
9) Restart Eclipse
10) ADT must now be pointed to the Android SDK downloaded earlier, select Windows -> Preferences
11) Select Android from the left panel
12) For the SDK Location, click Brows and locate the SDK directory
13) Apply. OK.

At this point you should be able to build and compile android applications and run them on a emulator on your computer. (By the way, the emulator may run ridiculously slowly). I recommend writing the Android equivalent of Hello World and making sure you can compile before continuing.

Now go to github.com and register for an account; all you need is a free account.

Go to

https://github.com/eNorris/

This is the base for all of my repositories. Right now there are only three. Of those three, only one actually does anything. You will be linking to Tutorial_helloLocalization, it's tutorial #3 (not yet done, but I think it's in a compliable state) from the android development page. To link to this repository, create an empty directory somewhere like "C:\code\Android\Tutorial_helloLocalization" but the path is really arbitrary. This is where all your code will be kept.

Open SmartGit3
1) Choose Project -> Clone...
2) Enter
https://github.com/eNorris/Tutorial_helloLocalization
Into the Repository URL. Next.
3) Choose the folder you made earlier that all your code will be put into. Next. Finish.
4) The clone and first pull should happen automatically.

You can now push and pull to the main repository!

To open your project in Eclipse, open Eclipse
1) In the leftmost pane, the Package Explorer, right click and choose Import.
2) In the import dialog box, choose General>Existing Projects into Workspace
3) Next.

4) Browse to the folder created earlier that we put the linked code in.
5) Check the box to select all files in the left pane.
6) Finish.

And that's it! You should now have a working project that you can make changes to, save and then push.

*Note that whenever you pull, you will have to right click the project in Eclipse and choose refresh to update your code.