

Windows

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1 Windows as a 311 development environment

1.1 Development *in* Windows?

A number of students use Windows as their primary development environment. This is designed for those folk, as my little primer on how I use Windows to get stuff done.

For the purposes of 311, there are a number of other ways to be effective on Windows. Those include:

SSH into a linux box Probably the simplest way to get setup

Install linux in a VM a little slow, but gives you real linux

This is for those of you who would like to try it the other way. Some folk might just find this to be a convenient alternative at times.

This is written for Windows 7 x64. Other versions of Windows should adjust accordingly

1.2 Windows Settings and Configurations

First, navigate to file:C:. Create a directory there called “bin” (you can name it differently or put this directory elsewhere, just adjust the rest of these instructions accordingly). So you should now have a directory at

Second, turn off UAC. Instructions for doing so are found here: <http://bit.ly/1ajQLxJ>. Make sure to turn it all the way down.

Third, that Aero mess gets in the way. Let’s turn it and the visual effects off. Press Start, search “Advanced System Settings”. Select view Advanced System Settings. Then hit the settings button under performance, and select the radio button for “Best Performance”. Then hit Ok to close. Now, still in that Advanced System Settings pane, hit Environment Variables. NOW, IT IS IMPERATIVE YOU NOT MESS THIS PART UP. Under “User Variables for <your username>”, you should scroll until you see an entry for PATH. Click the Edit button, and then click into the Variable Value box. Go all the way to the far right, and append the following text at the end. Do not include the quotes, make sure you introduce no extra spaces.

```
‘;C;;C:Files (x86)’
```

You should now have to hit Ok three times to completely exit that menu.

1.3 Installing Preliminaries

It takes a little bit of work to get things right where you’re gonna want them. We’ll install them one at a time.

- Launchy <http://bit.ly/1aif5TE> Gives you Spotlight-like Alt+Spacebar behavior
- SearchEverything GUI <http://bit.ly/1cfALfJ> A better Windows search.
- SearchEverything CLI <http://bit.ly/1ajXurg> A better Windows search, command-line. Useful to have there as well. Drop this in C:
- Sysinternals Suite <http://bit.ly/JVYaN3> A whole bunch of Windows configurations and utilities from the MS folk. Unzip this all into C:.
- GnuWin32 <http://bit.ly/1a2M94i> Windows versions of GNU utilities. cat, less, tail, etc.
- M-Sys <http://bit.ly/1ayLXII> Another minimal Gnu set. Change the destination to C:.
- MingW32 <http://bit.ly/1djTzio> This should get you GCC for Windows. Make sure to select x64 instead of x32 on the settings page. Other than that leave it as is.

Putty <http://bit.ly/1dkcvgY> SSH, SCP, SFTP for Windows. You can go ahead and use the installation defaults here

WinSCP <http://bit.ly/1fswN5C> GUI version of an SCP client

Xming <http://bit.ly/1hQJOfi> X forwarding for Windows. Useful when running programs remotely

IU VPN <http://iuware.iu.edu/Windows/Package/1976> The ability to login to campus remotely. Useful to access campus-only resources. You'll have to login to download.

Fences <http://bit.ly/JVYaN3> Freeware, old version. There is a monthly pop-up, but I find it's still worth it.

You should probably restart your machine after doing all of that.

1.4 Configuring Preliminaries

There are a few things to do to configure this all the way you're (probably) going to want it.

- SearchEverything Open SearchEverything. Then go to Tools>Options. Make sure that:
 - Updates on Startup
 - Run in background
 - Start Everything on system startup
- IU VPN
- Xming
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