**How to setup stuff on Windows**

**gfortran with NetBeans**

* Go to Cygwin and install 64-bit. You need to make sure that you install *gfortran*, *g++*, *gdb*, *make* and *gcc*. I am not really sure what is needed so I tend to install too many packages rather that too few. Install in **c:\cygwin64**
* Go to your Environment Variables in advanced system settings in windows and include *C:\cygwin64\bin;C:\cygwin64\usr\bin;C:\cygwin64\usr\local\bin;C:\cygwin64\lib;C:\cygwin64\usr\lib* in your Path.
* Install NetBeans from [www.netbeans.org](http://www.netbeans.org). You only need to download the C/C++ version.
* If you don’t have the correct Java, follow the link presented to you and install correct version.
* Copy your code to a folder of your choice.
* Create a new project (C/C++ from Existing Source) and use you folder as the project folder. Keep all other settings.
* You are ready to work.

**Python and PyCharm**

1. Install python 2.7.X, 64 bit from python.org (Windows x86-64 MSI installer). Install with default settings.
2. Visit JetBrain, Pycharm website and obtain a student account (go to buy and renew, <https://www.jetbrains.com/pycharm/buy/>). Click on for *Students and Techers*, go to bottom of the page and click **Apply**. You will get an email where you activate your licence.
3. Create a folder where you can use a project folder. Copy the python code from the suews repository and put it the folder.
4. Download PyCharm professional and install.
5. Start PyCharm and activate license using your JetBrains account.
6. Create a new project (Pure python) and choose the created folder (3) as your project folder and use your python installation as interpreter. Click ok in the next message box.
7. Go to *File/Settings /Project Interpreter*. Add a new package by clicking the green plus sign. Search for **numpy** and install package. If you get errors, you probably need correct version of Visual studio. There is an address of a website where you can download it in the error message when you tried to install **numpy**.
8. Also install matplotlib (used for plotting)
9. Run **mainfileLondon.py** to do stuff.

**Todo**:

To install **scipy** you need… I don’t know… working on it… needs lapack/blas…