Setup

To participate in this workshop, you will need access to the software described below. In addition, you will need an up-to-date web browser.

The Bash Shell

Bash is a commonly-used shell that gives you the power to do simple tasks more quickly.

Windows

[Video Tutorial](https://www.youtube.com/watch?v=339AEqk9c-8)

1. Download the Git for Windows [installer](https://git-for-windows.github.io/).
2. Run the installer and follow the steps bellow:
   1. Click on "Next".
   2. Click on "Next".
   3. **Keep "Use Git from the Windows Command Prompt" selected and click on "Next".**If you forgot to do this programs that you need for the workshop will not work properly. If this happens rerun the installer and select the appropriate option.
   4. Click on "Next".
   5. **Keep "Checkout Windows-style, commit Unix-style line endings" selected and click on "Next".**
   6. **Keep "Use Windows' default console window" selected and click on "Next".**
   7. Click on "Install".
   8. Click on "Finish".
3. If your "HOME" environment variable is not set (or you don't know what this is):
   1. Open command prompt (Open Start Menu then type cmd and press [Enter])
   2. Type the following line into the command prompt window exactly as shown:

setx HOME "%USERPROFILE%"

* 1. Press [Enter], you should see SUCCESS: Specified value was saved.
  2. Quit command prompt by typing exit then pressing [Enter]

This will provide you with both Git and Bash in the Git Bash program.

Mac OS X

The default shell in all versions of Mac OS X is Bash, so no need to install anything. You access Bash from the Terminal (found in /Applications/Utilities). See the Git installation [video tutorial](https://www.youtube.com/watch?v=9LQhwETCdwY) for an example on how to open the Terminal. You may want to keep Terminal in your dock for this workshop.

Linux

The default shell is usually Bash, but if your machine is set up differently you can run it by opening a terminal and typing bash. There is no need to install anything.

Text Editor

When you are writing code, it is nice to have a text editor that is optimized for writing code, with features like automatic color-coding of key words. The default text editor on Mac OS X and Linux is usually set to Vim, which is not famous for being intuitive. If you find yourself stuck in vi, try typing the escape key, followed by :q! (colon, lower-case 'q', exclamation mark), then hitting Return to return to the shell.

Windows

[Video Tutorial](https://www.youtube.com/watch?v=339AEqk9c-8)

nano is a basic editor and the default that instructors use in the workshop. To install it, download the [Software Carpentry Windows installer](https://github.com/swcarpentry/windows-installer/releases/download/v0.3/SWCarpentryInstaller.exe) and double click on the file to run it. **This installer requires an active internet connection.**

Others editors that you can use are [Notepad++](http://notepad-plus-plus.org/) or [Sublime Text](http://www.sublimetext.com/). **Be aware that you must add its installation directory to your system path.** Please ask your instructor to help you do this.

Mac OS X

nano is a basic editor that should be pre-installed on a Mac. See the Git installation [video tutorial](https://www.youtube.com/watch?v=9LQhwETCdwY) for an example on how to open nano.

Others editors that you can use are [Text Wrangler](http://www.barebones.com/products/textwrangler/) or [Sublime Text](http://www.sublimetext.com/).

Linux

nano is a basic editor that is pre-installed on Linux.

Others editors that you can use are [Gedit](https://wiki.gnome.org/Apps/Gedit), [Kate](http://kate-editor.org/), [Sublime Text](http://www.sublimetext.com/) or [vim](https://en.wikipedia.org/wiki/Vi) (pre-installed).