Installation instructions

Workshop: Version control for more effective collaboration - Introducing Git and GitHub.
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Setup

In this workshop, we will be using Git through its command-line interface (CLI) meaning that you will need an operational CLI shell such as Bash. The instructions for installing the necessary software on Windows, Mac and Linux are given below.

Software Carpentry maintains a list of common issues that occur during installation as a reference for instructors that may be useful on the Configuration Problems and Solutions wiki page. In case you run into any trouble in installing the software that you cannot solve, please contact Joona (joona.lehtomaki@gmail.com) in advance.

The Bash Shell

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

Windows

Install Git for Windows by downloading and running the installer. This will provide you with both Git and Bash in the Git Bash program.

Run the installer and follow the steps bellow:

1. Click on "Next".
2. Click on "Next".
3. Click on "Next".
4. Click on "Next".
5. Click on "Next".
6. Select **"Use Git from the Windows Command Prompt"** 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.
7. Click on "Next". Keep **"Checkout Windows-style, commit Unix-style line endings"** selected.
8. Select **"Use Windows' default console window"** and click on "Next".
9. Click on "Next".
10. Click on "Finish".

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`). 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.

Git

Git is a version control system that lets you track who made changes to what when and has options for easily updating a shared or public version of your code on e.g. GitHub. For GitHub, you will need a supported web browser (current versions of Chrome, Firefox or Safari, or Internet Explorer version 9 or above).

Windows

Git should be installed on your computer as part of your Bash install (described above).

Mac OS X

For OS X 10.9 and higher, install Git for Mac by downloading and running the most recent "mavericks" installer from this list. After installing Git, there will not be anything in your `/Applications` folder, as Git is a command line program.

For older versions of OS X (10.5-10.8) use the most recent available installer labelled "snow-leopard" available here.

Linux

If Git is not already available on your machine you can try to install it via your distro's package manager. For Debian/Ubuntu run `sudo apt-get install git` and for Fedora run `sudo yum install git`.

GitHub

Be sure to register to GitHub before the workshop.

Text editor

In this workshop, we will be doing simple edits to plain text files, but no coding so you will not need features such as syntax highlighting etc. However, we will configure Git to use a particular text editor, so choose one of the following text editors:

- Notepad++ (Win)
- Sublime Text (Win/Mac/Linux)
- Text Wrangler (Mac)
- Gedit (Linux)
- Kate (Linux)

You can use whatever text editor you like, but you will have to figure out yourself how to configure it with Git. **NOTE** On Windows, the use of Notepad is strongly discouraged.