

## Git Pre-Lecture Homework

### Setup:

#### 1) Install git

- For debian based distros (including Ubuntu): `sudo apt-get install git`
- For RPM package distros (including Fedora and Red Hat): `sudo yum install git`
- Windows / Mac instructions: <http://git-scm.com/book/en/Getting-Started-Installing-Git>

#### 2) Configure name and email address

- Name: `git config --global user.name "John Doe"`
- Email: `git config --global user.email "johndo@aol.com"`

#### 3) Configure useful git macros

- If you don't already have one, create a ".gitconfig" (note the dot) file in your home directory.
  - You should already have one, look hard for it before trying to create something new.
- Add the following text to your .gitconfig file:

#### [alias]

```
lol = log --graph --decorate --pretty=oneline --abbrev-commit
lola = log --graph --decorate --pretty=oneline --abbrev-commit --all
st = status
```

#### [color]

```
diff = auto
status = auto
branch = auto
interactive = auto
```

\* These macros probably won't make any sense to you now, that's totally okay.

### Pre-class practice:

Github is a web service to host git repositories. They provide free repository hosting for students and open source projects, and charge money to individuals and businesses who want to use them for their closed source repositories. They also provide an excellent web based 15 minute introduction tutorial for git! Please go to [try.github.io](http://try.github.io) and run through the tutorial. Please at least progress through step 1.9, but I encourage you to do the whole thing. As you go, read the instructions and advice. It probably won't all make sense right away, but that's okay, we'll cover most of the same stuff in class.

### Why you need git:

You've probably never used git or any other version control software in the past. You probably don't yet feel the gravity of your need for version control software. To get some perspective on how useful version control is, read Mark Dalrymple's blog post at Big Nerd Ranch: <http://www.bignerdranch.com/blog/you-need-source-code-control-now/>

I look forward to meeting you in class,  
Micah Losli