GIT

Download and install the lastest version of Git.

If you have never used git before, you need to do some setup first. Run the
following commands so that git knows your name and email. The third line adds
pretty command line colors.

```
git config --global user.name "Your Name"
git config --global user.email "your_email@whatever.com"
git config --global color.ui true
```

Check the current status of your repository:

```
git status
```

```
# On branch master
# Changes not staged for commit:
#   (use "git add <file>..." to update what will be committed)
#   (use "git checkout -- <file>..." to discard changes in working directory)
#
#   modified:   GIT_LAB1.Rmd
#   modified:   GIT_LAB1.html
#   modified:   GIT_LAB1.md
#
# Untracked files:
#   (use "git add <file>..." to include in what will be committed)
#
#   GIT_LAB1.pdf
no changes added to commit (use "git add" and/or "git commit -a")
```

Next all files are added to the staging area and a snapshot is taken of the commit
with the message "staging all files".

```
git add .
git commit  -m "staging all files"
```

```
[master 57da39b] staging all files
 4 files changed, 19 insertions(+), 19 deletions(-)
 create mode 100644 Alan/summaries/GIT_LAB1.pdf
```

Check the status after the last commit.

```
git status
```

```
# On branch master
# Your branch is ahead of 'origin/master' by 1 commit.
#
nothing to commit (working directory clean)
```

Push changes to the remote repository.

```
git push
```

See if there is anything left to do.

```
git status
```

```
# On branch master
nothing to commit (working directory clean)
```

Show the last three commits with

```
git log  -3
```

```
commit 57da39b2cb5de992d3053608da06b1061b89c817
Author: Alan Arnholt <arnholtat@appstate.edu>
Date:   Thu Jan 9 13:13:48 2014 -0500

    staging all files

commit e72d2495ec3ac3b3eb6503bb06b9c041b47efbcf
Author: Alan Arnholt <arnholtat@appstate.edu>
Date:   Thu Jan 9 13:04:52 2014 -0500

    staging all files

commit c3a6fa7178a17aa72e74ff242be2c885762bdeb1
Author: Alan Arnholt <arnholtat@appstate.edu>
Date:   Thu Jan 9 13:02:10 2014 -0500

    staging all files
```

Now, just to show how cool this is, we will mix in a little R.

```
library(ggplot2)
ggplot(data = CO2, aes(x = Type, y = uptake)) + geom_boxplot()
```