

GIT

Download and install the latest 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
#
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 e72d249] staging all files
3 files changed, 31 insertions(+), 21 deletions(-)
```

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 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
```

```
commit 6351cf47e98de580a2e90c2fed76d2ae33c2d211
Author: Alan Arnholt <arnholtat@appstate.edu>
Date:   Thu Jan 9 12:57:44 2014 -0500
```

```
    staging all files
```

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

```
library(ggplot2)
ggplot(data = C02, aes(x = Type, y = uptake)) + geom_boxplot()
```