

# GIT

## 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.html
#   modified:   GIT_LAB1.md
#
# Untracked files:
#   (use "git add <file>..." to include in what will be committed)
#
#   RmakeFile.R
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 90ebcdf] staging all files
3 files changed, 30 insertions(+), 17 deletions(-)
create mode 100644 Alan/summaries/RmakeFile.R
```

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 90ebcdf2e1447e5b248ed1c657b732dce319ecfa
Author: Alan Arnholt <arnholtat@appstate.edu>
Date: Thu Jan 9 13:42:16 2014 -0500
```

```
staging all files
```

```
commit 86f2fc679875e6efb6a19a7d18845d2701b5bd8a
Author: Alan Arnholt <arnholtat@appstate.edu>
Date: Thu Jan 9 13:32:30 2014 -0500
```

```
staging all files
```

```
commit 484cf2cf5b9e2dc73557a9410baf937624cbbfbc
Author: Alan Arnholt <arnholtat@appstate.edu>
Date: Thu Jan 9 13:32:12 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()
```

