GIT

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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.html
#   modified:   GIT_LAB1.md
#   modified:   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 32949e2] staging all files
 3 files changed, 20 insertions(+), 20 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)
```

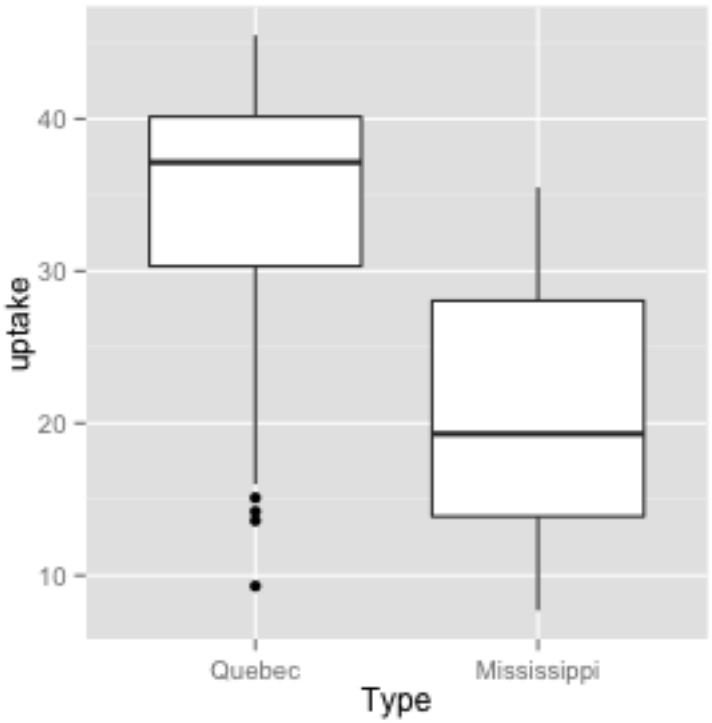
Show the last three commits with

```
git log  -3
```

```
commit 32949e2daf23c02ca724aef65b6dd7a4d0601f29
Author: Alan Arnholt <arnholtat@appstate.edu>
Date:   Thu Jan 9 13:53:07 2014 -0500

    staging all files

commit 948b030c973fb446acae1645d329b108d4297879
Author: Alan Arnholt <arnholtat@appstate.edu>
Date:   Thu Jan 9 13:51:53 2014 -0500

    staging all files

commit 49a00e1242f9fef7fa7ca3286e37b39ae7c43ea2
Author: Alan Arnholt <arnholtat@appstate.edu>
Date:   Thu Jan 9 13:47:40 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()
```


40
30
20
10
uptake
Quebec
Mississippi
Type