

Getting Started with Git/Github

Git Local Workflow

```
$ ll
$ mkdir Scripts
$ cd Scripts
$ git init

#Initialized empty Git repository in
# /Users/DSinmotion/Dropbox/Startup/dsinmotion/ds_training/big_data_rbc/big_data_rbc_course_material_share/Scripts/.git/
$ ll

#drwxr-xr-x@ 10 DSinmotion  staff   340 13 Mar 23:19 .git/

$ echo "Git Tutorial for Big Data Training" > README
$ git add README
$ git commit -m "Initial commit with README file."

#[master (root-commit) 0a0aef2] Initial commit with README file.
# 1 file changed, 1 insertion(+)
# create mode 100644 README

$ echo "Hope you will like it" >> README
$ git status

DSinmotions-MacBook-Pro:Scripts DSinmotion$ echo "Hope you start using it" >> README
DSinmotions-MacBook-Pro:Scripts DSinmotion$ 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:   README

Untracked files:
  (use "git add <file>..." to include in what will be committed)

        wordcount-py/

no changes added to commit (use "git add" and/or "git commit -a")

$ git diff

DSinmotions-MacBook-Pro:Scripts DSinmotion$ git diff
diff --git a/README b/README
index 78b71bf..ebbc7bb 100644
--- a/README
+++ b/README
@@ -1,3 @@
 Git Tutorial for Big Data Training
+Hope you like it
+Hope you start using it
-

$ git commit -a -m "Add more info to README"

$ git status

$ git log

DSinmotions-MacBook-Pro:Scripts DSinmotion$ git commit -a -m "Add more info to README"
[master accf271] Add more info to README
1 file changed, 2 insertions(+)
DSinmotions-MacBook-Pro:Scripts DSinmotion$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)

        wordcount-py/

nothing added to commit but untracked files present (use "git add" to track)
DSinmotions-MacBook-Pro:Scripts DSinmotion$ git log
commit accf27126cb4f572c9e607d21ff88c6625d7bb5a
Author: geofferyzh <geofferyzh@hotmail.com>
Date:   Fri Mar 13 23:42:56 2015 -0400


    Add more info to README

commit 0a0aef283f40e964b8a12e5d38e3c29be68a6d86
Author: geofferyzh <geofferyzh@hotmail.com>
Date:   Fri Mar 13 23:21:35 2015 -0400

    Initial commit with README file.
```

Create a New GitHub Repo

Owner

 geofferyzh

Repository name

Great repository names are short and memorable. Need inspiration? How at

Description (optional)

☒ Public

Anyone can see this repository. You choose who can commit.

☐ Private

You choose who can see and commit to this repository.


☐ Initialize this repository with a README

This will let you immediately clone the repository to your computer. Skip this step

Add .gitignore: **None**

Add a license: **None**

Create repository

 geofferyzh / bigdata_git_tutorial

👁 UI

Quick setup — If you've done this kind of thing before

Set up in Desktop

 or

HTTPS

SSH

We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

...or create a new repository on the command line

```
echo "# bigdata_git_tutorial" >> README.md
git init
git add README.md
git commit -m "first commit"
git remote add origin https://github.com/geofferyzh/bigdata_git_tutorial.git
git push -u origin master
```

...or push an existing repository from the command line

```
git remote add origin https://github.com/geofferyzh/bigdata_git_tutorial.git
git push -u origin master
```

Push to GitHub

```
$ git remote add origin https://github.com/geofferyzh/bigdata_git_tutorial.git
$ git push -u origin master

DSinmotions-MacBook-Pro:Scripts DSinmotion$ git remote add origin https://github.com/geofferyzh/bigdata_git_tutorial.git
DSinmotions-MacBook-Pro:Scripts DSinmotion$ git push -u origin master
Username for 'https://github.com': geofferyzh
Password for 'https://geofferyzh@github.com':
Counting objects: 6, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (6/6), 546 bytes | 0 bytes/s, done.
Total 6 (delta 0), reused 0 (delta 0)
To https://github.com/geofferyzh/bigdata_git_tutorial.git
 * [new branch]      master -> master
Branch master set up to track remote branch master from origin.
```

Pull from GitHub

Log on to Github.com

Enter the repo

Make some changes to the README file we just pushed

Save and commit the change

```
$ git pull
$ cat README

DSinmotions-MacBook-Pro:Scripts DSinmotion$ git pull
remote: Counting objects: 3, done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
From https://github.com/geofferyzh/bigdata_git_tutorial
3cd7935..c42986e master -> origin/master
Updating 3cd7935..c42986e
Fast-forward
 README | 5 +++---
1 file changed, 3 insertions(+), 2 deletions(-)
DSinmotions-MacBook-Pro:Scripts DSinmotion$ cat README
#####
Git Tutorial for Big Data Training
#####
Hope you like it
Hope you start using it
-
```