Github tutorial

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Github tutorial

download github desktop

- (may need to download git separately)
- create new repository (ie new project)
 - check option for including readme file, enable immediate clone of repository
- use the clone URL
- run cmd in windows
 - cd change directory
 - od .. one level up
 - cd ~ home directory
 - Is list files
- •
- git command
 - high level
 - pull
 - change
 - add
 - commit
 - push
 - Git bash (cmd for github)
 - similar to command line, but in unix style
 - COMMANGUM ONLY WORK If in aithub directory

 MINGW64:/c/Users/charl/Google Drive/10. Coding/Python_Learning_Github_201707

 Charl@DESKTOP-CF3G50D MINGW64 ~
 \$ cd "C:\Users\char\\Google Drive\10. Coding"

 charl@DESKTOP-CF3G50D MINGW64 ~/Google Drive/10. Coding
 \$ ls
 'l. Matlab'/
 '?l. Matlab'/
 '?l. Python Investment Data Analysis'/
 '?l. Discrete Optimization (Python)'/
 '201410 Flowchart Symbols'/
 '201603 Coursera Big Data'/
 '201603 Coursera Big Data'/
 '201601 Lynda Tableau'/
 '201707 DexTol Outlet Stock Check with Python'/
 '301706 Excel Modelling'/
 '3. The Data Science Toolbox'/
 '4. Text Retrieval and Search Engines'/
 '6. General Python Training'/
 '7. Machine Learning Stanford'/
 9. IRR CF Engine Python'/
 Python_Learning_Github_201707/

 charl@DESKTOP-CF3G50D MINGW64 ~/Google Drive/10. Coding
 \$ cd Python_Learning_Github_201707/
 charl@DESKTOP-CF3G50D MINGW64 ~/Google Drive/10. Coding/Python_Learning_Github_20
 1707 (master)

git clone (clone URL)

git clone

https://github.com/ccz245/Python_Learning_Github_201707.git

- clone the repository to local
- (add the cloned repository as project folder)
- untracked files are new files not online yet
- git status
 - shows difference between local and online repositories
 - what changed
- git add (file name)

- add any changes to the staging area (in between local and online repository)
- git add.
 - add all from directory
- git add -A
 - do it for all
- git add -u
 - remove deleted files

• git commit -m "added changes"

- add to the change a message (-m) "added changes"
- used for documentation
- can go back to previous commit versionsgit

git log

- show previous commits
- •

git push

- sync all from local to online
- git push -u origin master
- ° git pull
 - sync all from online to local
 - git pull orign master

git remote add origin (online repository link)

- git remote add origin
 - https://github.com/ccz245/Python_Learning_Github_201707.git
- if origin/master (ie the online repository) already exists, then will error
- ° git
- show all comments and purposes
- touch (new file name)
 - create new file locally
- fix detached head (ie no longer on branch)
 - https://stackoverflow.com/questions/5772192/how-can-i-reconciledetached-head-with-master-origin
 - HEAD is the current commit, normally it's attached to a branch
 - git branch temp
 - git checkout temp
 - git branch -f master temp
 - git checkout master
 - git branch -d temp
 - git push origin master --force
 - ٥
 - https://stackoverflow.com/questions/10228760/fix-a-git-detachedhead
 - If you have changed files you don't want to lose, you can push them. I
 have committed them in the detached mode and after that you can
 move to a temporary branch to integrate later in master.

```
git commit -m "...."
git branch my-temporary-work
git checkout master
git merge my-temporary-work
```

- delete repo online
 - open the repo >> settings >> (scroll down) delete repo

examples

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MINGW64:/c/Users/charl/Google Drive/10. Coding/Python_Learning_Github_201707
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  9. IRR CF Engine Python'/
Python_Learning_Github_201707/
   harl@DESKTOP-CF3G50D MINGW64 ~/Google Drive/10. Coding cd Python_Learning_Github_201707/
  harl@DESKTOP-CF3G50D MINGW64 ~/Google Drive/10. Coding/Python_Learning_Github_20
 707 (master)
git status
n branch master
our branch is up-to-date with 'origin/master'.
hanges not staged for commit:
(use "git add <file>..." to update what will be committed)
(use "git checkout -- <file>..." to discard changes in working directory)
no changes added to commit (use "git add" and/or "git commit -a")
   narl@DESKTOP-CF3G50D MINGW64 ~/Google Drive/10. Coding/Python_Learning_Github_201707 (master)
 git add
lothing specified, nothing added.
laybe you wanted to say 'git add .'?
   harl@DESKTOP-CF3G50D MINGW64 ~/Google Drive/10. Coding/Python_Learning_Github_201707 (master)
   har1@DESKTOP-CF3G50D MINGW64 ~/Google Drive/10. Coding/Python_Learning_Github_201707 (master)
                     SKTOP-CF3G50D MINGW64 ~/Google Drive/10. Coding/Python_Learning_Github_201707 (master)
 har IODESKIDP CERSISON CHANNES
git status
n branch master
our branch is up-to-date with 'origin/master'.
hanges to be committed:
(use "git reset HEAD <file>..." to unstage)
   harl@DESKTOP-CF3G50D MINGW64 ~/Google Drive/10. Coding/Python_Learning_Github_201707 (master) git add .
 harl@DESKTOP-CF3G50D MINGW64 ~/Google Drive/10. Coding/Python_Learning_Github_201707 (master)
git commit -m "changed read me to test uploading changes to online repository"
master 7b20126] changed read me to test uploading changes to online repository
1 file changed, 2 insertions(+)
          legesktop-cf36500 MINGw64 ~/Google Drive/10. Coding/Python_Learning_Github_201707 (master)
 narieueskio g
git log
ommit 7b20126d6c335f7404fd565c1f63c33fe86f8134 (HEAD -> master)
uthor: ccz245 <charleszhao@hotmail.co.uk>
ate: Wed Jul 26 10:08:14 2017 +0100
         changed read me to test uploading changes to online repository
commit 90e0f56bc568f97698ca72f8203694a832fcceb9 (origin/master, origin/HEAD)
Author: ccz245 <charleszhao@hotmail.co.uk>
Date: Wed Jul 26 09:57:52 2017 +0100
         Initial commit
         'l@DESKTOP-CF3G50D MINGW64 ~/Google Drive/10. Coding/Python_Learning_Github_201707 (master)
 harledesking-t-reside minister of deagle of the last
git status
in branch master
our branch is ahead of 'origin/master' by 1 commit.
(use "git push" to publish your local commits)
othing to commit, working tree clean
 charl@DESKTOP-CF3G50D MINGW64 ~/Google Drive/10. Coding/Python_Learning_Github_201707 (master)
igit push
igit push
iounting objects: 3, done.
Pelta compression using up to 4 threads.
compressing objects: 100% (3/3), done.
Priting objects: 100% (3/3), 414 bytes | 0 bytes/s, done.
Priting objects: 100% (3/3), 414 bytes | 0 bytes/s, done.
Priting objects: 100% (3/3), 414 bytes | 0 bytes/s, done.
Priting objects: 100% (3/3), 414 bytes | 0 bytes/s, done.
Priting objects: 100% (3/3), 414 bytes | 0 bytes/s, done.
Priting objects: 100% (3/3), 414 bytes | 0 bytes/s, done.
Priting objects: 100% (3/3), 414 bytes | 0 bytes/s, done.
Priting objects: 100% (3/3), 414 bytes | 0 bytes/s, done.
Priting objects: 100% (3/3), 414 bytes | 0 bytes/s, done.
Priting objects: 100% (3/3), done.
Priting
  harl@DESKTOP-CF3G50D MINGW64 ~/Google Drive/10. Coding/Python_Learning_Github_201707 (master) touch new_file
```

```
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                                                                                                                                                                                                                        ×
 har MODESTOP (F13300 Milded)

ight status

on branch master

our branch is ahead of 'origin/master' by 1 commit.

(use "git push" to publish your local commits)

oothing to commit, working tree clean
   harl@DESKTOP-CF3G50D MINGW64 ~/Google Drive/10. Coding/Python_Learning_Github_201707 (master)
  harlaDESKTOP-CF3GSOD MINGW64 ~/Google Drive/10. Coding/Python_
git push
ounting objects: 3, done.
lelta compression using up to 4 threads.
ompressing objects: 100% (3/3), done.
liting objects: 100% (3/3), 414 bytes | 0 bytes/s, done.
lotal 3 (delta 0), reused 0 (delta 0)
o https://github.com/ccz244/Python_Learning_Github_201707.git
90e0f56..7b20126 master -> master
   narl@DESKTOP-CF3G50D MINGW64 ~/Google Drive/10. Coding/Python_Learning_Github_201707 (master) touch new_file
   harl@DESKTOP-CF3G50D MINGW64 ~/Google Drive/10. Coding/Python_Learning_Github_201707 (master) git add .
   harl@DESKTOP-CF3G50D MINGW64 ~/Google Drive/10. Coding/Python_Learning_Github_201707 (master)
   narieDESKIOP-CF3GSOD MINGW64 ~/Google Drive/lo
git status
n branch master
purpose to be purpo-date with 'origin/master'.
hanges to be committed:
(use "git reset HEAD <file>..." to unstage)
               new file: new_file
 charl@DESKTOP-CF3650D MINGW64 ~/Google Drive/10. Coding/Python_Learning_Github_201707 (master)
s git commit -m "added a new file into repository"
[master 61786al] added a new file into repository
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 new_file
       rl@DESKTOP-CF3G50D MINGW64 ~/Google Drive/10. Coding/Python_Learning_Github_201707 (master)
CharleDeskiro-C-36300 Minkowo4 ~/google Drive/10. Coning/Python_te

$ git log

commit 61786alcf8719545650a3881f56181de36e5cde3 (HEAD -> master)

Author: cc2245 <charles.phao@hotmail.co.uk>

Date: Wed Jul 26 10:34:29 2017 +0100
        added a new file into repository
commit 7b20126d6c335f7404fd565c1f63c33fe86f8134 (origin/master, origin/HEAD)
Author: ccz245 <charleszhao@hotmail.co.uk>
Date: Wed Jul 26 10:08:14 2017 +0100
       changed read me to test uploading changes to online repository
commit 90e0f56bc568f97698ca72f8203694a832fcceb9
Author: ccz245 <charleszhao@hotmail.co.uk>
Date: Wed Jul 26 09:57:52 2017 +0100
       Initial commit
 charl@DESKTOP-CF3G5OD MINGW64 ~/Google Drive/10. Coding/Python_Learning_Github_201707 (master)
5 git sttus
git: 'sttus' is not a git command. See 'git --help'.
Did you mean this?
status
   harl@DESKTOP-CF3G50D MINGW64 ~/Google Drive/10. Coding/Python_Learning_Github_201707 (master)
 charl@DESKTOP-CF3650D MINGM64 ~/Gdogle of TVe/10. Cooling/fycine_5
$ git push
Counting objects: 3, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 326 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/ccz245/Python_Learning_Github_201707.git
7b20126..61786a1 master -> master
charl@DESKTOP-CF3G50D MINGW64 ~/Google Drive/10. Coding/Python_Learning_Github_201707 (master) $ git pull Already up-to-date.
   harl@DESKTOP-CF3G50D MINGW64 ~/Google Drive/10. Coding/Python_Learning_Github_201707 (master)
```