

The Command Line and Git

Ed van Bruggen

Week 2

April 11 2019

Attendance
tinyurl.com/y33jhcxr

Announcements

- Ed's office hours:
Tuesdays 3:30-5pm
Life Sciences Lobby
- Class website
- Anonymous feedback form
- Google Drive and Calendar

- Oval challenge

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Command Line



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- Alternative to GUI interfaces
- Make you look like a scary hacker
- Do stuff by entering commands in text
 - Press enter to run

`<cmd> <arguments> ...`

- Arguments often file names
 - Can have flags which start with a hyphen
- An interactive programming language called a shell
 - Most commonly Bash

ls – **LiSt** files

cd – **Change Directories** (folder)

mv – **MoVe** file

cp – **CoPy** file

rm – **ReMove** file

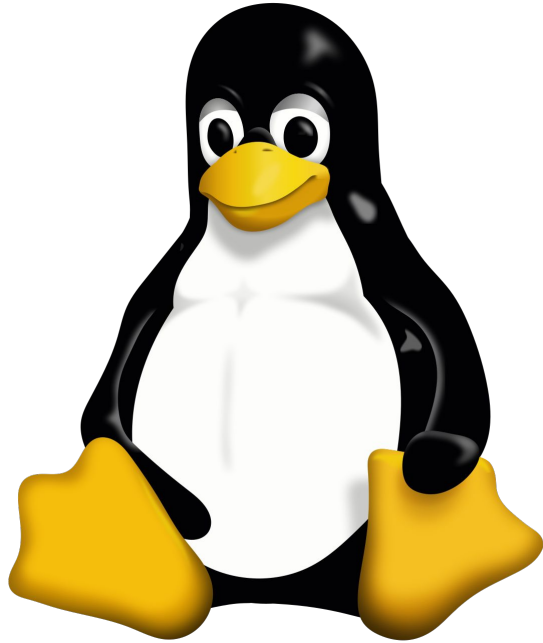
mkdir – **MaKe Directory**

rmdir – **ReMove empty Directory**

touch – **Create new empty file**

Directory – Fancy name for a folder

- . – **Current directory**, where you are
- .. – **Previous directory**, one folder back
- ~ – **Home user's home folder**
- / – **Root base of the entire file system**



Linus Torvalds

Git



- **Version Control System**
 - Keeps track of changes made to source code
 - Used to share code
 - Makes collaborations in open source easier
 - Revert back to before mistake
-
- British word for a very stupid person



“I'm an egotistical bastard, and I name all my projects after myself. First Linux, now git ”

git init – Initial current directory as a git repo

git status – Display changes

git add – Add change in file

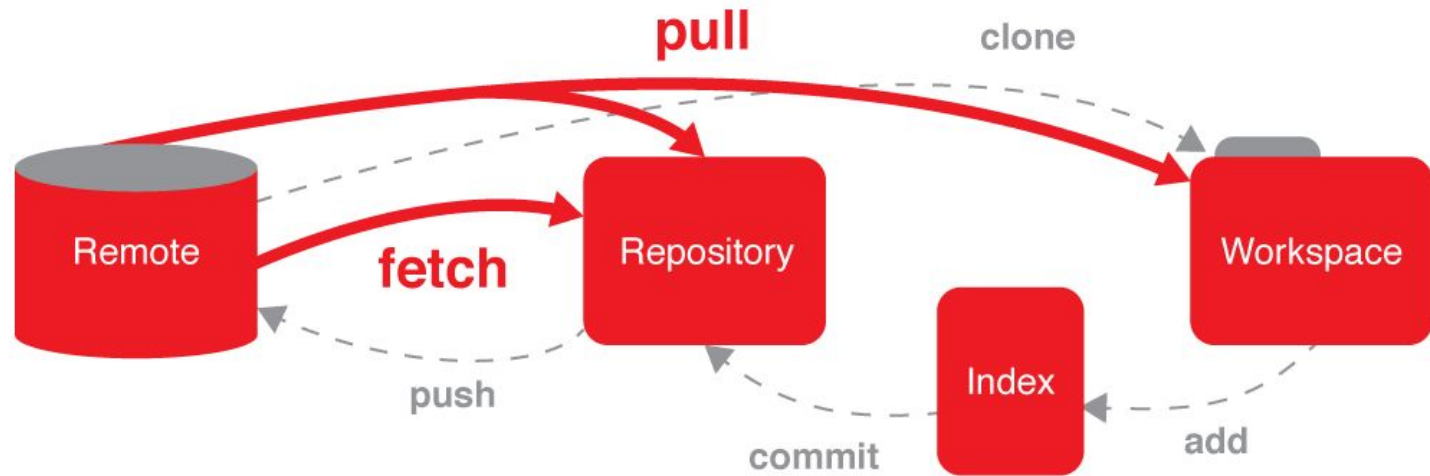
git rm – Remove committed file

git commit – Commit added changes to git history

git push – Add changes to GitHub

git pull – Get changes from GitHub

git clone – Copy entire repo from GitHub



Create New GitHub Repo

New directory

New file inside

Copy file to root

ls
cd
mv
cp
rm
mkdir
rmdir
touch

git init
git status
git add <file>
git rm <file>
git commit -m "message"
git push
git pull
git clone