
Python DeCal
Week 11

Announcements

- NEW DUE DATES
  - HW 8 DUE FRIDAY 4/16
  - Check-In Reports due next MONDAY 4/19
  - Final Projects Presentations 26th and 28th of April! (2 weeks away!)
- The deadlines is approaching fast, make sure you are making a lot of progress on your projects
- Ask for help if you need it! We are here for you
- Attendance: https://forms.gle/DSmRvVDhtVM8bsTy5

Personal Websites

- It is a great idea to have a professional website

- A good website has the following:
    - Home Page
    - Research Page
    - About Me page
    - Easy way to contact you

How can I make one?

- Depends on how much time and effort you are willing to spend

- Options:
  - Github.io
  - Google Sites
  - Squarespace
  - Wordpress
  - Wix
  - HTML from scratch (Adobe Dreamweaver)

Home Page

- This should give the visitor a jist of what you are, and what you do.

- Usually includes links to github, social media, and linkedin

- Recommended that you include a picture of yourself so people know what you look like (people love to see smiles!)

Research Page

- Arguably the most important page on your website for getting future research.
- Most likely what postdocs and application reviewers will look at first
- Should have your Curriculum Vitae (CV) available for viewing somewhere
- Include highlights of what you've done
- For now, write about your final project for this class! It's a good starting point to update and revise off of.

About Me Page

- Talk about yourself a little more in depth
- This is more optional, but often times it can be a good gauge of character
- Try to not get too informal, should be mildly professional with artistic freedom
- Don’t put memes all over the place for this one

Extras

- If you have a cool hobby, Include it! A lot of astro people love photography for example
- Often times people include a hobby page to show more of their personality while still being pretty professional
- Examples: Teaching, Photography, Blog, etc…
- You can also include a contact page

Examples

James Sunseri's Site: https://sites.google.com/view/jamessunseri/home

Jia Liu's Site: https://liuxx479.github.io/#home

Jacob Piliwa's Site: http://w.astro.berkeley.edu/~jacobpilawa/

Yukei Murakami's Site: https://www.fromthecalmsea.com/

Isabel Angelo's Site: https://isabelangelo8.wixsite.com/isabelangelo

Nicholas Rui's Site: https://nicholasrui.com/

Nick Choksi's Site: http://ugastro.berkeley.edu/~nchoksi/

Yilun, Ayla, Emily, and Raph should have their own websites :/

Wednesday

Announcements

- DUE DATES
  - HW 8 DUE FRIDAY 4/16 (Personal Website)
  - Check-In Reports due next MONDAY 4/19
  - Final Projects Presentations 26th and 28th of April! (2 weeks away!)
- Keep working hard on these projects!
- Ask for help if you need it! We are here for you
- Next week is our **LAST WEEK OF LECTURE! WOOHOO!**
- Attendance: https://forms.gle/vYa79PQjXj1sy0Yf8


One more thing…

One last tool

This is our last tool we will show you that could help you in future research projects involving programming

What is it?

- Github is like a really complicated google drive... but a lot more powerful
- Allows us to host all of our code and documents in one spot (on a server)
- People can clone all your stuff if you want them to (like copying downloading all your stuff without messing it up)
- Can host more than just code (documents, powerpoints, etc....)
- Can be used to make websites
- Track individual changes made by anyone to your stuff and can revert back to those changes
- Typically used in terminal

Repository

- A collection documents, codes, slides, etc...
- Can be added to or removed from
- Can be edited
- Just think of it as a folder that you can access and put stuff in or remove stuff from but this folder saves every version of what you edit

Remote vs. Local Repository

- Hosted by the Github servers (github.com)
- Can be accessed by whomever is given access (public vs. private)
- Typically we copy and download this repository to our own computer

- Becomes a directory on your very own computer
- Accessible through terminal or GUI
- Usually work is done on your local computer
- Any changes and adjustments made are then staged and sent to the remote repository

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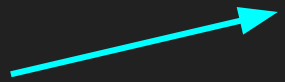
Huh?



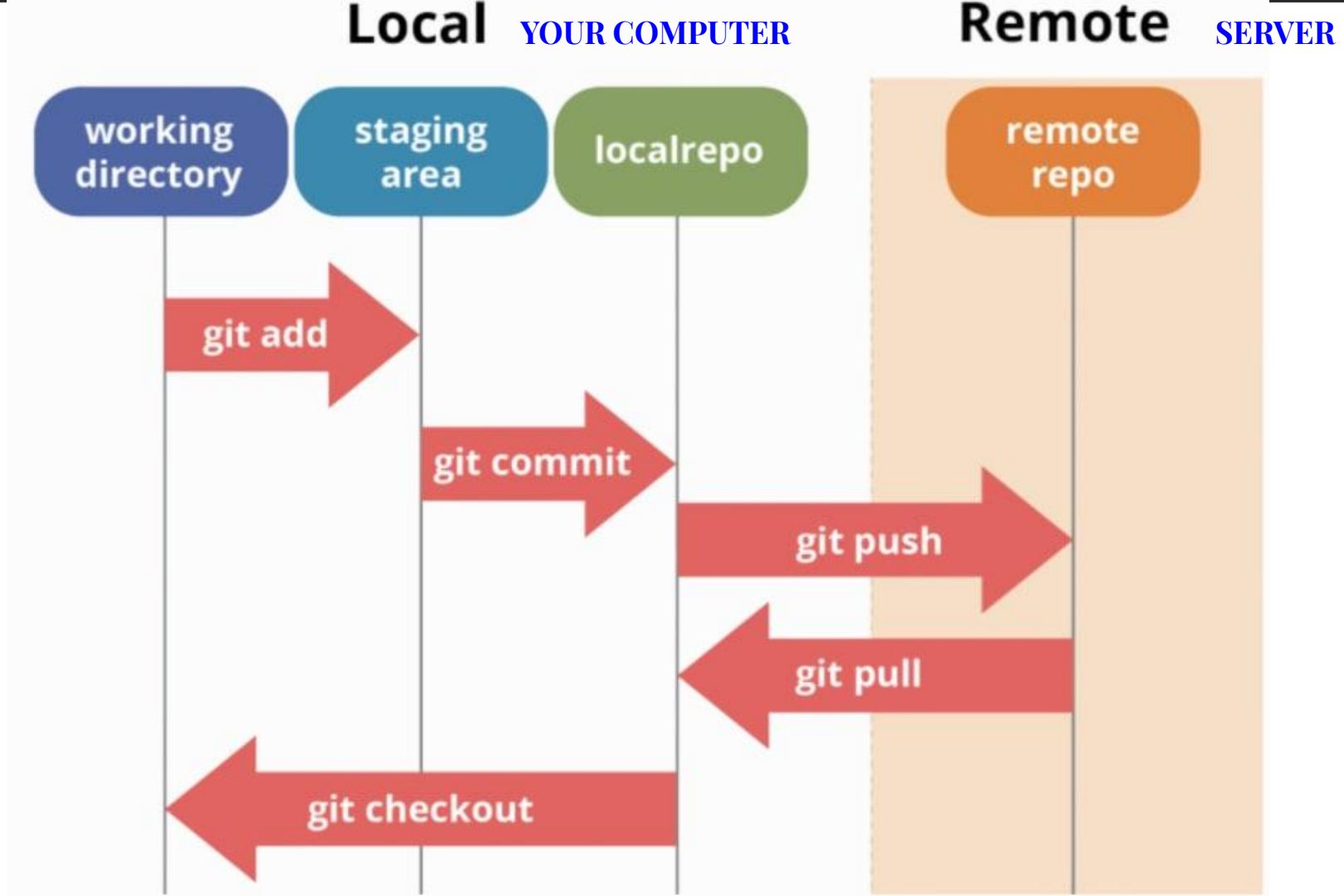
How do I use it?

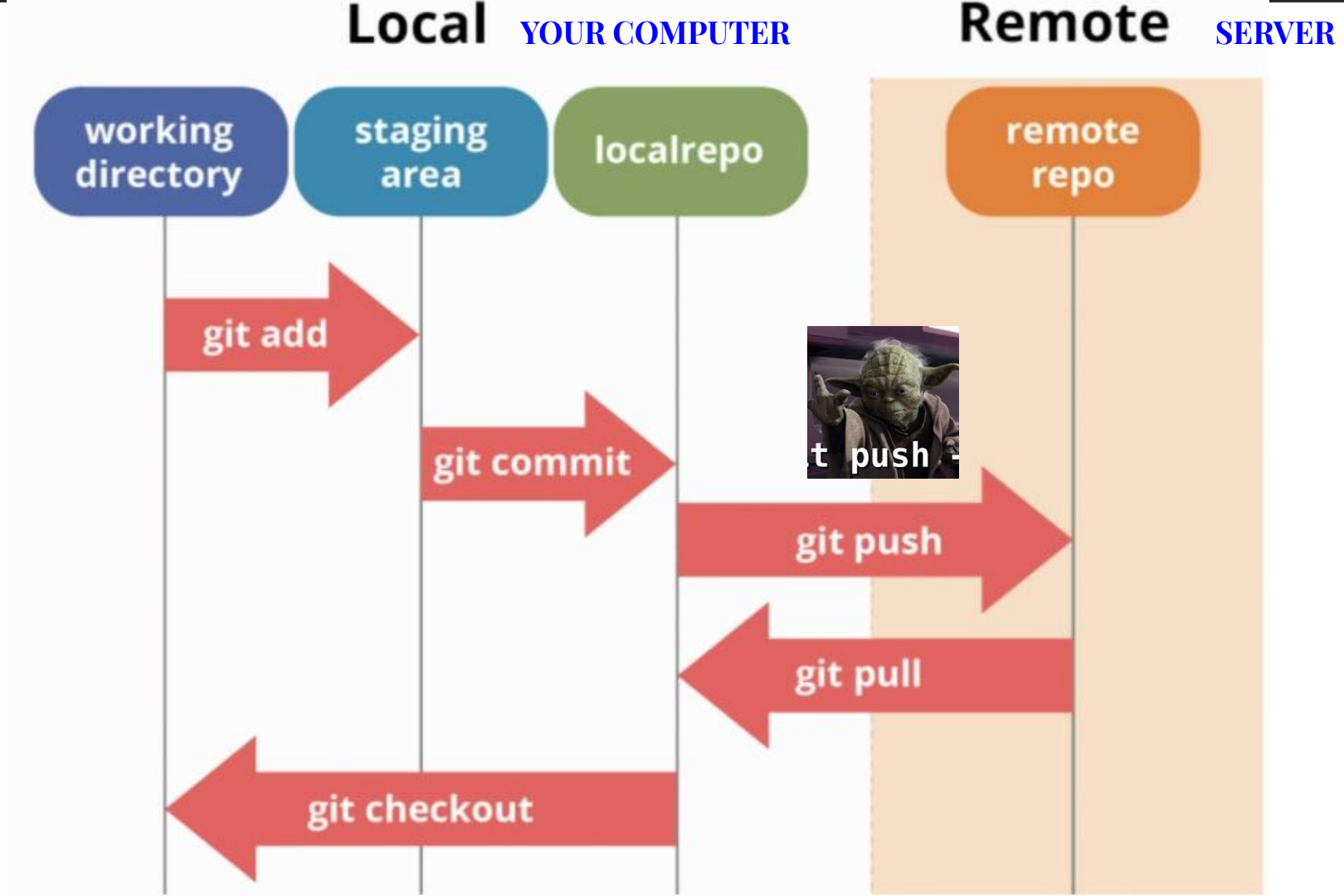
- Github is easiest to use via the command line (aka Terminal)

```
nothing to commit, working tree clean
(base) Jamess-MacBook-Pro:CosmoMMF jamessunseri$ cd src
(base) Jamess-MacBook-Pro:src jamessunseri$ ls
CosmoMMF.jl     filter.jl       util.jl
(base) Jamess-MacBook-Pro:src jamessunseri$ vim filter.jl
(base) Jamess-MacBook-Pro:src jamessunseri$ vim filter.jl
(base) Jamess-MacBook-Pro:src jamessunseri$ git add filter.jl
(base) Jamess-MacBook-Pro:src jamessunseri$ git commit -m "finished the NEXUSPLUS signatures algorithm"
[main 1ec86bc] finished the NEXUSPLUS signatures algorithm
 1 file changed, 58 insertions(+), 1 deletion(-)
(base) Jamess-MacBook-Pro:src jamessunseri$ git push origin main
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 1.26 KiB | 1.26 MiB/s, done.
Total 4 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/James11222/CosmoMMF.git
   cfddbbd..1ec86bc  main -> main
(base) Jamess-MacBook-Pro:src jamessunseri$
```

Breakout Rooms

- Chances are you forgot how to use the terminal…. Understandable
- What do these commands mean? (I will ask for people to answer after we come back)
  - `cd`
  - `pwd`
  - `mkdir`
  - `ls`


Local
YOUR COMPUTER
Remote
SERVER
working directory
staging area
localrepo
remote repo
git add
git commit
git push
git pull
git checkout


Local
YOUR COMPUTER
Remote
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working directory
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How to use it

- I am 95% sure that if I talk about this too in depth, no one will actually retain it (because it's SO easy to forget)
- Most important commands are:

```
git clone

git add

git commit

git push

git pull
```

This is how you will actually learn it

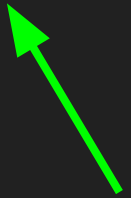
If you want to take the time to really learn this, I recommend using these weblinks

Step by step tutorial for setting it up: http://swcarpentry.github.io/git-novice/

And

Basic guide: https://guides.github.com/activities/hello-world/

The Handbook: https://guides.github.com/introduction/git-handbook/



HIGHLY RECOMMENDED

DEMO