How to* : Github

*do two things

- **Does everyone have git on their local machine / access to a machine with git?**
- **Does everyone have a Github account?**

Create your own repo & push to Github

- Create a directory somewhere and write a test script or text file
- `$ git init`
  - This initializes your git repo & creates a hidden folder called .git that tracks the changes made to objects in the initialized directory

Create your own repo & push to Github

- `$ git add test_script.py`
  - This adds objects to the git tracker — git will only keep tracks of objects that you add and nothing else
- `$ git commit -m ‘first commit’`
  - This commits the changes we’ve made in our files. The -m arg allows us to attach a message to our commit.

Create your own repo & push to Github

- **OK, but, how can we access our code from anywhere?**
  - **Github!**

- **Create a repo on github**

Create your own repo & push to Github

- **Tie your local repo to the repo on github**
  - `$ git remote add origin https://github.com/user/repo.git`
  - `$ git branch -M main`
  - **This tells git that a remote version of your repo is going to exist on github. This allows us to push / pull changes & access our code from anywhere through the git clone tool**
  - `$ git push -u origin main`
  - **Pushes the changes we've committed in our local repo to the remote repo**

Fork someone else's repo & make changes

- To avoid read/write permission stuff, use fork/pull requests to make changes to repos that aren't owned by you
- Fork https://github.com/smlower/ires_git_demo.git & clone to your local machine
  - This creates a copy of my repo that you can edit!
  - Beautify your plot
  - Push changes to your repo
- Create a pull request on my repo