GitHub Clinic

What is Git?

- Git was originally developed by Linus Torvalds as a version control platform

- Version control is super useful so you don't end up with scripts like.

  - this_analysis_script.m

  - this_analysis_scriptV2.m

  - this_analysis_script_totally_works.m

    Instead you can have one glorious this_analysis_script and have all your chang

Installing Git

- Git should be pre-installed on your computer

- Please open your favorite terminal and type in: git --version

- If you get a message saying command git not found: install from git-scm.com/downloads

Git User Setup

- First let's define who you are in Git (only if you haven't before)

  – git config --global user.name "First Last"

  – git config –global user.email email@mailsite.com

- You should have already set up a GitHub account on the website please use the same email

- You should have also already set up the ssh key pairing. If you need help come talk to me after lab meeting

Git init

- You have a project called new_exp that you are writing some code for. You know you should use git.

  - git init

  - git add new_exp_header.txt

  - git commit -m 'new_exp initial commit'

  - Edit your files with your very favorite text editor

  - git commit -m 'good comment'

  - Notice that this doesn't automatically sync to GitHub that will be done later.

Git log

- Want to see your beautiful commits?

– git log

– If you add -n # you can see the last # commits

- git log -n 4 will show you the last 4 commit

- Pick a commit any commit and type

– git show commitID

– You can revert a file to the state it was in that commit by typing

- git checkout commitID