Code Review

CMSE 890-402

What is “good” code?

Reading code

- Any programmer can review code!
- If the code is not quickly understandable, comment
- Compare the code to the style guide of the project
  - Variable names
  - Function names
  - Documentation
  - Tests

In-class assignment: Feedback on code

- Open https://classroom.github.com/a/Cwi1z4Jq
- In each pull request, leave review comments on the code
- Add at least 5 comments to each pull request
- You do not have to understand what the code is trying to do
- Criticize (and/or praise):
  - Variable names
  - Function names
  - Documentation
  - Tests
  - Anything else you think relevant

Homework

- **Now that we have explored how to plan and run research workflows:**
- Find an open source scientific software package with a github repository that you know or use in your work
- Write a 1-2 page report (can be bullet pointed, but **full sentences** please)
- Briefly describe the purpose of the software
- Describe and give your reasoned opinion on:
  - The repository organization (issues, projects, pull requests, branches etc.)
  - The documentation (web hosted? Docstrings for the appropriate language? etc)
  - Tests (are they present? Unit tests? Integration tests? etc)
  - The style/contribution guide (does it exist? Is it reasonable? etc)
  - Use of github actions
- Submit to D2L at midnight Wed 18th Oct. PDF preferred.

Semester project

- I have given feedback on D2L submissions
- Next steps:
  - **Create a GitHub repository for your project and invite me**
  - Respond to my and others comments on D2L if you have any questions
  - Tidy and organise your DFD
    - Commit it to your repository on a branch with an open pull request so that I can give feedback
  - Begin writing pseudocode based on your DFD
    - Commit it to your repository on a branch with an open pull request so that I can give feedback
  - **MAKE REGULAR COMMITS AS YOU WORK ON YOUR PSUEDO CODE**
- **I will leave comments on any PR in your repositories on a weekly basis, either Thursday or on Friday mornings**