Class 09: Code Review

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Agenda

- Code Review
- Mid-Point Presentations

Looking Ahead

Next Week: Peer Review of two projects.

April 1: Code Review (or Implementation Review) for two projects. Phila Dept of Public Health Presenting.

April 8: World Resources Institute Presenting.

April 15/22: Final Presentations

April 29: Final Project Due

What is Code Review?

A second person looks at your code, makes suggestions.

Ideally, this happens with each commit.

https://google.github.io/eng-practices/review/reviewer/

Why are *we* doing code review?

The single best way to improve your own code is to look at others'.

What should you look for?

Remember, code is for humans! (Not computers!) Other people, or yourself in a year.

Is it easy to figure out...

a. Where to find things?
b. Where a given task is accomplished?
c. How to change or extend a feature?

What should you look for?

a. **File organization and navigation** (can you find the important parts?)
b. **Correctness**
c. **Complexity** (can you easily understand what it's doing?)
d. Tests and Checks
e. Naming
f. Comments if necessary (why, not what)
g. Style (check out Google Style Guides)
h. Good things

On GitHub

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Pull Request merges a branch with the `main` branch. This is where review happens.

Demo

For your review

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Primarily, submit (via Canvas) a document with code review summary.

Focus on Zone of Proximal Development. Not everything will be perfect! What is the most important next thing to do?

For your review

File Organization

- Is it easy to find what you are looking for?
- Are the files well-named?
- Is the README helpful?

Code

- Is it easy to understand what the code is doing?
- Is it modular? Do they repeat code?
- Are things well-named?

Overall "Code-Smells"

- Are you confident this code is error-free? Is it hard to tell?
- If you inherited this project tomorrow, would you be able to succeed with it?

ArcMap?

Clone the directory. Open the file. Try to understand the analyses and systems.

- Does it look correctly implemented?
- Is it easy to figure out what is being done?

Do your best, and help out your peer.

Presentations

10 minutes + 5 min Q&A

Room A: Here

Room B: 323

	Room A		Room B	
	Mar 18	Mar 25	Mar 18	Mar 25
Slot 1	Anran Zheng	Rui Jiang	Hanyu Gao	Lechuan Huang
Slot 2	Xiaoyi Wu	Hasa	Ben Aiken	Ziyi Yang
Slot 3	Sean McClellan	Jonathon Sun	Yebei Yao	Aidan Cole
Slot 4	Chi Zhang	Will Friedrichs	Gianluca Mangiapane	Yuehui Gong
Slot 5	Jiamin Tan	Ziyuan Cai		Elisabeth Ericson
Slot 6		Tristan Grupp		Alex Nelms
Slot 7				Hanpu Yao