Social Network Analysis for Computer Scientists

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https://liacs.leidenuniv.nl/~takesfw/SNACS

Week 13 — Code review

Where are we? . . .

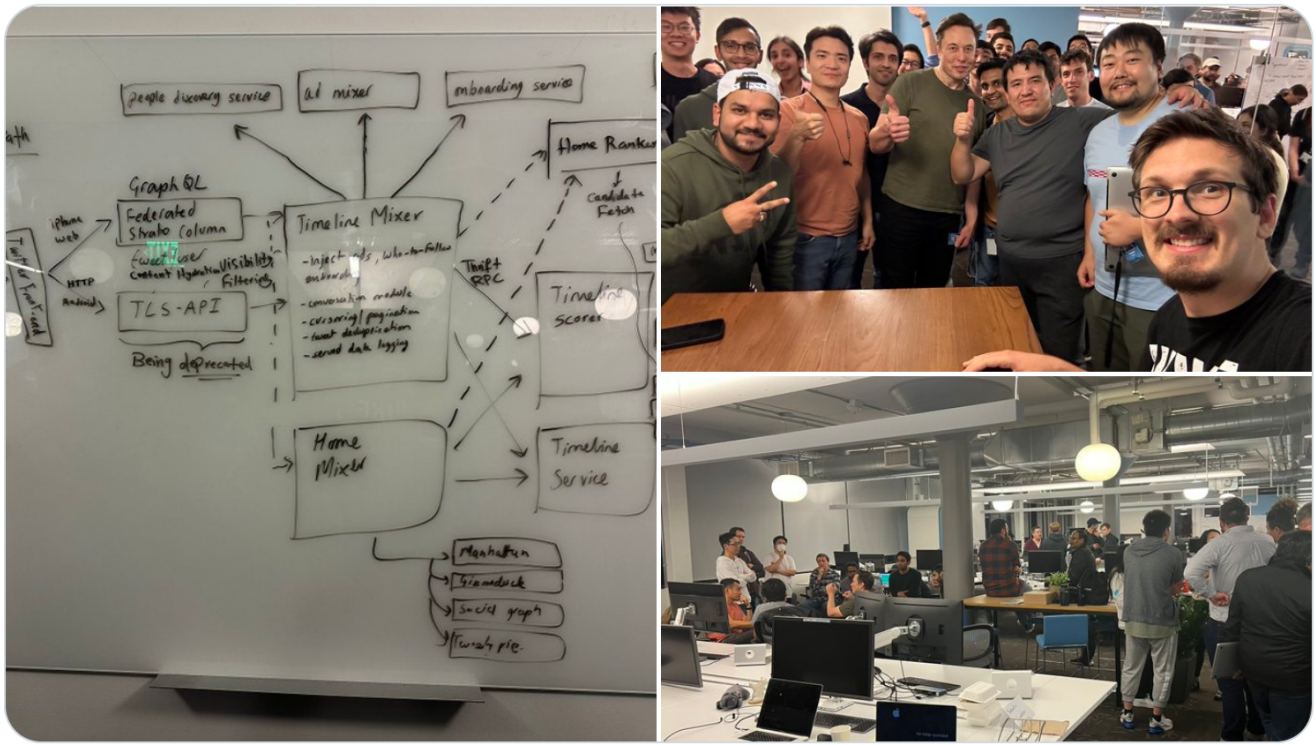
- Now in 2nd course phase — the course project (60% of final grade)
  - Course project **paper**
  - Course project **presentation**
- Many of you handed in a preliminary course project paper; expect feedback in coming week if it hasn't arrived yet
- Upcoming sessions and deadlines
  - **Dec 1 (today):** lab session and **code review session**
  - Dec 8 (next week): lab session and student presentations
  - Dec 15 (next week): last lab session, student presentations and course evaluation
  - Dec 17 (AoE): course project deadline (submit via Brightspace)

← **Tweet**

Elon Musk ✓
@elonmusk

Just leaving Twitter HQ code review

Tweet vertalen



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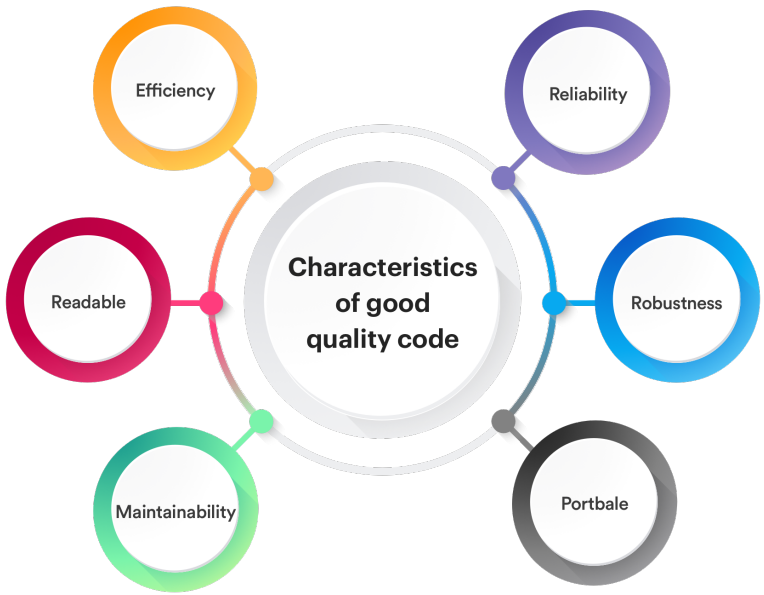
Code review

- **Peer review**: evaluation of work by one or more individuals with similar competence
- **Code review**: peer review of programming code
- "Pair programming"
- Four eyes see more than two
- Go beyond your current knowledge and skills

Possible code evaluation criteria

- Correctness guarantees, time and memory constraints
- Are input and output data validated for consistency?
- Is there a pipeline? is output suitable for tables or diagrams?
- Is the code readable, reusable and sufficiently modular?



About the data and experiments

- Is the data relevant and sufficient?
- Is the data "diverse" in relevant dimensions?
- What do you measure in each experiment?
  Quality, running time, error?
- Why is this data good for these experiments?
- Is the data possibly biased, and how may this affect the results?

Today

- Explain your project programming work to the other team
- Mention what you have done and not yet done
- Introduce the other team to your code
- Read, understand, evaluate, ask questions, ...
- Explain to the other team positive and less positive, yet constructive points about their work
- Together, **derive useful "best practices" and add them to the collaborative document**
- Reorganize the document where needed

Collaborative learning

Please be constructive!

- No deliverable via e-mail or Brightspace. Objectives for today:

1. **Contribute to the collaborative document** with best practices at `https://is.gd/snacs2023codereview`
2. Jointly arrive at a set of best practices for the entire class
3. Within one week, complete 3-minute questionnaire (link will be sent via email)

- For further instructions, see the course website

Good luck!