IS893: Advanced Software Security

Project

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Plans

- 11/11: Project Proposal Due
- 12/4: Project Final Due
- 12/7, 12/9, 12/14, 12/16: Project Presentation
  - Presenters will be randomly assigned

Proposal

- Describe your motivation, approach, and expected result
- Submit a PDF file (upto 2 pages) via Github classroom
  - Use the ACM SIGPLAN format (https://www.acm.org/publications/proceedings-template)
- The main purpose is not evaluation, but getting feedback from me
- More discussion with me before/during the project is also highly recommended

Evaluation Criteria

- Instructor 80% + Peer Review 20%
  - Novelty 30%
  - Completeness 30%
  - Practical Impact 30%
  - Presentation 10%

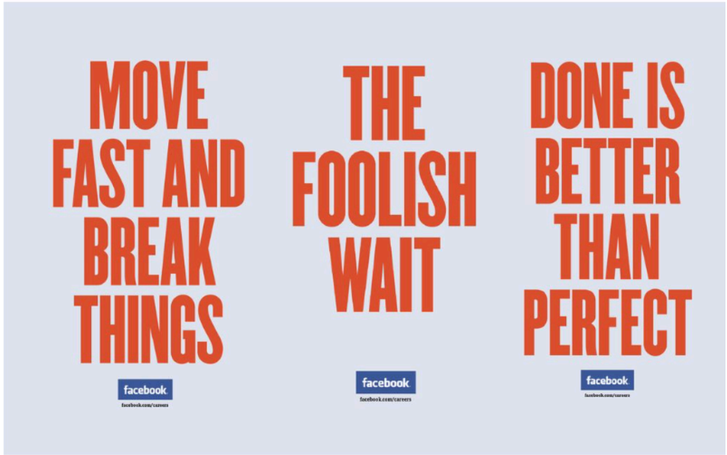
Topics

- Highly recommend to choose your own problem
  - research area, previous experience, interest

	Conventional Problems	Novel Problems
Toy Languages (e.g., SmallVM)	Novelty ↓ Practicality ↓ (Homework 😒)	Novelty ↑ Practicality ↓ (Good 😀)
Realistic Languages (e.g., LLVM)	Novelty ↓ Practicality ↑ (Good 😀)	Novelty ↑ Practicality ↑ (Best 😎)

Guidelines

- Goal-directed: focus on your grand goal
  - Theories are not dogmas but just (very useful) references
- Start early, try more, interact frequently
- Go breadth-first rather than depth-first
  - Take a big step and skip minor details



Presentation

- Each student will have a 30 min presentation
  - Include motivation, problem, solution, and result