# IS593: Language-based Security

**Plans**

**Kihong Heo**

# Plans

- 5/13: HW4 Due

- 5/20: Project Proposal Due

- 6/14: Project Final Due

- 6/17, 6/22, 6/24: Project Presentation

- 6/24: Final Remark

- 6/29: Final Exam

**+ 1-2 more homework**

# Proposal

- Describe your motivation, approach, and expected result

- Submit a PDF file (upto 2 pages) via Github classroom

- The main purpose is not evaluation, but getting feedback from me

- More discussion with me before/during the project is also highly recommend

# Evaluation Criteria

- Instructor 80% + Peer Review 20%

  - Novelty 30%

  - Completeness 30%

  - Practical Impact 30%

  - Presentation 10%
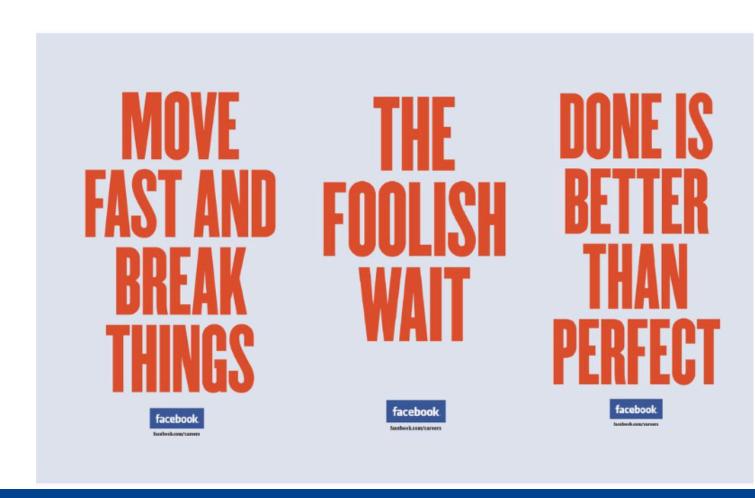
# Topics

- Highly recommend to choose your own static analysis 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 10min presentation

  - Include motivation, problem, solution, and result

- Speakers will be randomly chosen each day (6/15, 6/17, 6/22)