Networked and Distributed Systems

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Motivation

The Internet

- Every system you use or build does and will depend on it – good to know how it works
- Lessons for scalability, longevity and robustness

Distributed Systems

- Key techniques for building robust, scalable and performant systems on top of Internet infrastructure
- Mobile, Web, cloud, P2P...

Course Logistics

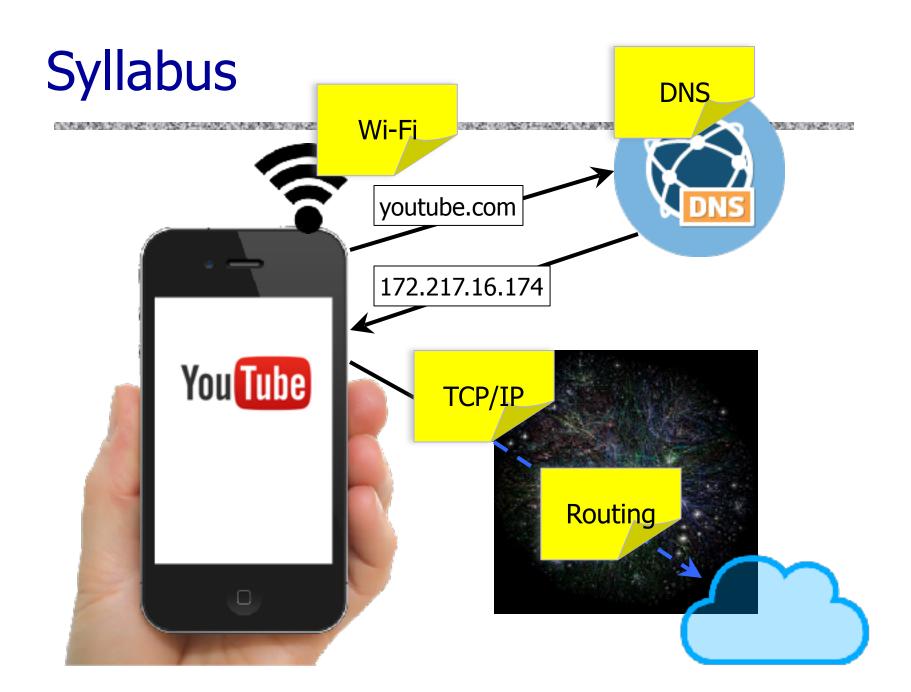
- Lectures: Monday Wednesday, 1:45-3:00pm
- **?** Course webpage:

https://pages.github.coecis.cornell.edu/cs5450/website/

TA: Yunhao Zhang

Grading

- Weekly class attendance/participation (solo): 10%
- Four labs (in rotating pairs): 60% (15% each)
 - Implementation, data capture, analysis
 - 2 late days to use as you see fit... once used up, no late assignments accepted (applies to both team members)
- Two in-class midterms (solo): 30% (15% each)
 - Pen-and-paper exercises, 1-page reference sheet Ok



Syllabus P2P BitTorrent **Anonymity CDNs** You Tube networks Bitcoin Web Mobile OS Cloud technologies Virtualization

Schedule

- See course website for the first few weeks
- Start with principles, then get into concrete systems
- **?** Get started on Lab 1 early
 - Already available on GitHub
- We are glad to help!