Week 1: Part 0
About the class
Web site, contact, & class info

Canvas: https://rutgers.instructure.com/courses/254670
web: https://people.cs.rutgers.edu/~pxk/
mirror: www.pk.org/417

email: pxk@cs.rutgers.edu
phone: +190.87.99.88.89
• No textbook for the course
• Course reading material
  – Lecture notes
  – Lecture slides
  – Published papers
  – Web documents
Policy

• **Due dates**
  – Individual assignments
  – Due *prior* to the due date/time

• **Collaboration & academic integrity**
  – Individual assignments – no copying!
  – All suspected violations will be reported to the Academic Integrity office

• **Attendance**
  – Short quizzes most weeks on material covered during the lecture

• **Excuses & Problems**
  – If any events keep you from doing your coursework, let me know *before* the end of the semester

See https://pk.org/417/policy.html
Grades

| Three exams | Normalized grades: \( \text{gpa} \approx \left[ 3.25 + (g - \bar{g})/\sigma \right] \) | ~60% |
| + 1 final exam | Lowest of four exam grades dropped | |
| Reading & short homework questions | + ~3 programming assignments | ~20% |
| Quizzes (attendance) | | ~20% |

This is subject to change!!
What we’ll cover

Generally, one topic per week

- Faults
- Communication, RPC
- Time
- Synchronization
- Groups & replication, consensus
- File systems: NAS, Parallel FS
  - Distributed lookup
  - Transactions
  - Large-scale DB
  - Content delivery
- Event streaming
- Parallel computation
- Security: authentication, & communication
- Clusters
What this course is *NOT*

- How to write web services
- How to use Azure, AWS, Google Cloud, etc.
- Big data analytics
- How to administer collections of computers
The End