













## Sermon 2: Building High-Performance Systems

- Options:
  - Make every line of code very fast
  - Tune selectively (better)
- Observations
  - 90-10 rule: 90% of time spent in 10% of code
  - Difficult to predict performance problems in advance
- Solutions
  - Measure existing systems (profiling)
  - Modeling
  - Simulate algorithms ahead of time
  - Tuning: build, get it to run, measure, tune bottlenecks
  - Go top-down

Computer Science

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