Goals

• Provide an overview of the topics covered by the SE Presentations
SE Presentations

• As you know, students in this class were asked to create presentations that would explore a topic related to software engineering in depth
  • 40 presentations were submitted and are available on the class website
    • <http://www.cs.colorado.edu/~kena/classes/5828/s12/presentations/>
  • 7 presentations were created by students working in teams
  • 2 students created screencasts to enhance their presentations
  • 2 students submitted archives of source code to augment their presentations
Topics (I)

- Frameworks
  - Apache MINA
  - Java Concurrency Framework
  - Django; Symfony 2; Apache Tapestry
  - OSGi
  - Qt
  - Ruby on Rails
  - SDL
Topics (II)

• Concurrency
  • CUDA Parallel Processing
  • Scala & Go’s Concurrency Constructs

• Configuration Management
  • Git
  • Mercurial

• Continuous Integration
  • Jenkins
  • Bamboo
Topics (III)

• Software Life Cycles
  • Community Driven Projects
  • Lean Software Development
  • Scrum

• Software Architecture
  • Model-Driven Software Architecture
  • Service-Oriented Architecture
  • Software as a Service
Topics (IV)

• Software Design
  • Balking Design Patterns
  • Design by Contract
  • Software Engineering in Game Design

• Software Tools
  • Modern Integrated Development Environments
Topics (V)

• Software Testing, Verification, and Analysis
  • Mock Objects
  • Program Analysis
  • Static Analysis
  • Testing Frameworks
  • Testing/Debugging Concurrent Programs
Topics (VI)

• Software Engineering Techniques
  • Pair Programming
  • Requirements Solicitation and Analysis
  • Software Metrics
  • Software Security (magnum opus)
  • Software Specifications
Topics (VI)

• Software Engineering
  • History of SE Research
  • Indie App Development
  • Software Disasters
  • Structures for Software Development Teams
Previews

• Let’s take a look at some of the executive summaries
  • My apologies if I do not cover every presentation!
Summary

• Nice work everyone!
Coming Up Next

• Lecture 29: Grand Central Dispatch
• Lecture 30: Semester Wrap-Up