DOSE/GSD
Concretized

Distributed Outsourced Software Engineering/
Global Software Development
Case Studies, Lessons Learned, Best Practices

Joseph Kiniry
IT University of Copenhagen
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Concrete Examples

• lessons learned and best practices from
  • classroom, academia, distributed research teams, open source software with partners in industry, academia, and enthusiastic individuals, and industry
  • my main point: finding and using what works is personal and tuned to your (team, time, situation, product)
  • others’ best practices are just that—borrow them and try them out yourself
Presentation Style

- not a lot of slides
- screencast will be uploaded to Vimeo
- real working examples from web sites, projects, and software
Project Management

• Gantt charts
• OmniPlan and Gannter
• abstract plan, introduce milestones, tasks, perform dependency analysis, estimate effort, determine risk, assign responsibilities, schedule
Daily Work

- projects, goals, tasks
- task-focus using tickets and todo lists
  - IDE task lists, Mylyn, org-mode, annotations, agile externalizations
- commit messages
- RSS feeds
- calendar
- Getting Things Done (GTD)
Process

- project overview
- informal BON
- (formal BON)
- contracted types
- hand-written unit tests
- development against quicktests
- validation and verification
Communication

• daily to weekly updates
• ChangeLogs
• RSS feeds
• continuous integration and regression testing via Hudson and Hawk
• social pressure via build turkey

• Histogram system as case study
Meetings

• video chat that turns into a shared screen
• every meeting has an agenda, minutes, promises (via new tickets and personal todos), and periodically, a plan update
• screencast as minutes
URLs

- http://eclipse.org/mylyn/
- http://orgmode.org/
- http://trac.edgewall.org/
- https://github.com/
- https://sourceforge.net/
- http://vimeo.com/
- http://formalmethods.insttech.washington.edu/software/jmlunitng/
- http://kindsoftware.com/products/opensource/Beetlz/
- http://www.davidco.com/about-gtd
URLs

• http://research.microsoft.com/en-us/projects/pex/

• http://pex4fun.com/