The Rational Unified Process
A Commercially Available Spiral Model Implementation

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Overview

- How does RUP relate to the spiral model?
  - Commercial process framework
- How have software processes evolved?
  - Resource expenditure profiles across workflows
- The State of the RUP
  - Lessons learned
Get the architecture right first (the stuff that counts), then worry about completeness and precision.

The ability to balance life-cycle accuracy and precision is a discriminating management skill.
Iterative Life-Cycle Activities

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Conventional Process (Waterfall)

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More balance; less waste during integration and test
I 1000s of project users, 100s of projects/organizations
Used across a broad range of spiral-oriented projects
- Re-architecting or upgrading of legacy systems
- New system/product developments
- Component based system development
- Business modeling-system engineering

Current situation:
- Strong process framework (still requires tailoring)
- Biggest strength: unifies the project team and stakeholders
  - Homogeneous "process language" and web-based online e-coach
- Biggest weakness: too easy to interpret as cookbook
  - Still requires domain tailoring, common sense to be used
### Current RUP Improvement Thrusts

- e-business guidelines (Web oriented applications)
- Analysis and design patterns and frameworks
- Improved testing emphasis across the life cycle
- Expanded business modeling workflow
- Improved deployment workflow
- Explicit "build" as an artifact
- Designing for usability guidance
- UML based metrics and project dashboard

These thrusts reflect experience from field applications

### Future RUP Improvement Thrusts

- Support for process variants
- Configurability and navigation improvements
- Localizations (Japanese, Chinese, etc.)
- Rational Process Workbench
  - Process authoring and compilation support
- UPM (Unified Process Meta-Model) and OMG submittal
- Integration to a “project portal”
  - Web-based project artifact repository