The Unified Process

An overview

Unified Process

- A popular iterative process framework
- Rational Unified Process (RUP) is a refinement or specialization of UP
- RUP is a product: 100 core webpages
- RUP Builder can configure them for a given project
- UP must be tailored for each project

UP workproducts

- Approximately 50 optional non-software artifacts
- 0 or more per project (less is better)
- Vision and Risk List are recommended
- Information abstractions, not documents
- Workproducts are organized within Disciplines

Disciplines of UP

- Business Modelling
- Requirements (Vision, Use-Case Model)
- Design (Design Model, Software Architecture Doc)
- Implementation
- Testing
- Deployment
- Project Management (Risk List)

Disciplines are activities that occur in the 4 phases.
Four phases of UP

- **INCEPTION**
  - High level requirements established
  - Key risks identified

- **ELABORATION**
  - Significant elements are programmed and tested

- **CONSTRUCTION**
  - Remainder of system is built and tested

- **TRANSITION**
  - The system is deployed

Each phase may contain several iterations

UP Milestone Objectives

- There are specific goals for each phase, for example

- **Inception:**
  - Agreement on Scope, vision, and priorities
  - Some risks identified
  - A plan to start elaboration exists

- **Transition:**
  - System is deployed
  - Users are satisfied

RUP 6 Best Practices

- Develop using timeboxed iterations (2-6 weeks)
- Develop high risk and high value elements early
- Continuously verify quality
- Use visual modeling before programming
- Manage Requirements
  - Find, organize, track
- Manage change
  - Use tools to track changes