

The Unified Process

An overview

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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

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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

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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.

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Four phases of UP

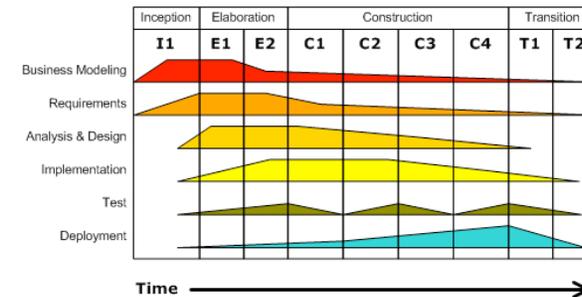
- INCEPTION
 - High level requirements established
 - Key risks identified
- ELABORATION
 - Significant elements are programmed and tested
- CONSTRUCTION
 - Remainder of system is built and tested
- TRANSITION
 - The system is deployed

Each phase may contain several iterations

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Phases of UP

- Disciplines over the phases



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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

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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

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