Software Development Process

Software Effort Types

- Coding
- Pre-coding
- Post-coding

Information Systems
A set of interrelated information technology components integrated for the purpose of enhancing our understanding and control

Dimensions of I.S.

Collaboration for IS

Lifecycle: Waterfall

requirements
specification
design
coding
testing & debugging
integration
maintenance
Software Development Process

Abstraction Levels

- Paradigm
- Process model
- Methodology
- Specification
- Pascal
- Machine language

Development Related Concepts

- Paradigm
- Process model
- Languages
- Methodologies
- Tools

Rapid Prototyping

- Requirements
- Design
- Prototype
- Refine
- Customer Evaluation

The spiral model

- Planning
- Risk analysis
- Customer evaluation
- Engineering

Phased vs. Evolutionary

- Phased
- Evolutionary

Process Modeling Dimensions

- Activity
- Communications
- Infrastructure

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* Ali Doğru METU 56
* Ali Doğru METU 57
* Ali Doğru METU 58
* Ali Doğru METU 59
* Ali Doğru METU 60
Overspecification

A vehicle to transport from point A to B. May be this is the correct solution?

Specification tool requirements

informal entry

- structural break down
- data dependency
- interface dep.
- control dep.
- time dep.
- event flow

feedback

Next?


Traditional Object Oriented Components?

Function Data Structure

Modeling Emphasis

Data Object Oriented

Component Oriented

Traditional Structure

Function