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
maintainance
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
- Engineer

The spiral model

- Planning
- Risk analysis
- Customer evaluation
- Engineering
- Initial requirements
- Final requirements
- Spiral model
- Toward a completed system

Phased vs. Evolutionary

- Phased
- Evolutionary

Process Modeling Dimensions

- Activity
- Infrastructure
- Communications
Overspecification

May be this is the correct solution?

Next?


Traditional Object Oriented Components?

Function Data Structure

Modeling Emphasis

Shift in Modeling Emphasis