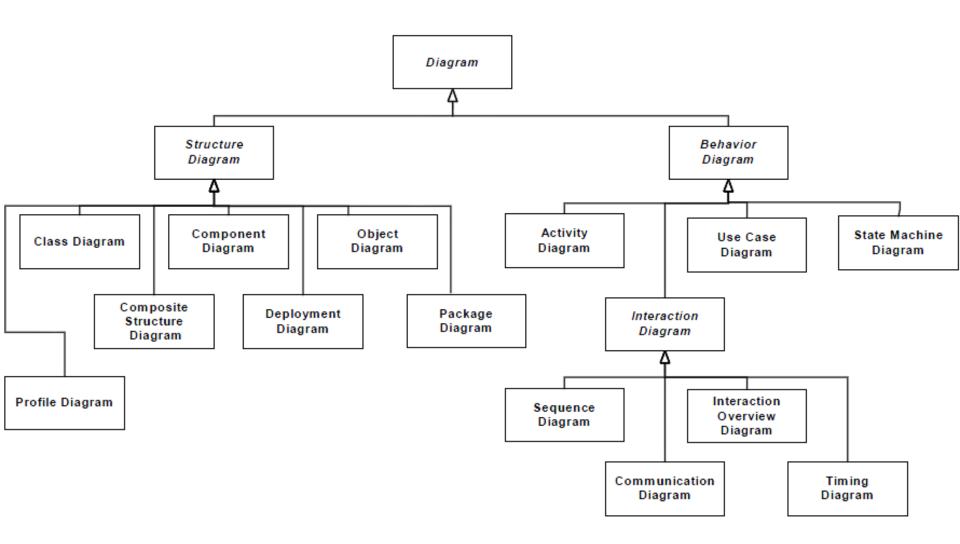
Object-Oriented Technology and UML

Review

Object-Oriented Technology and UML



Summary

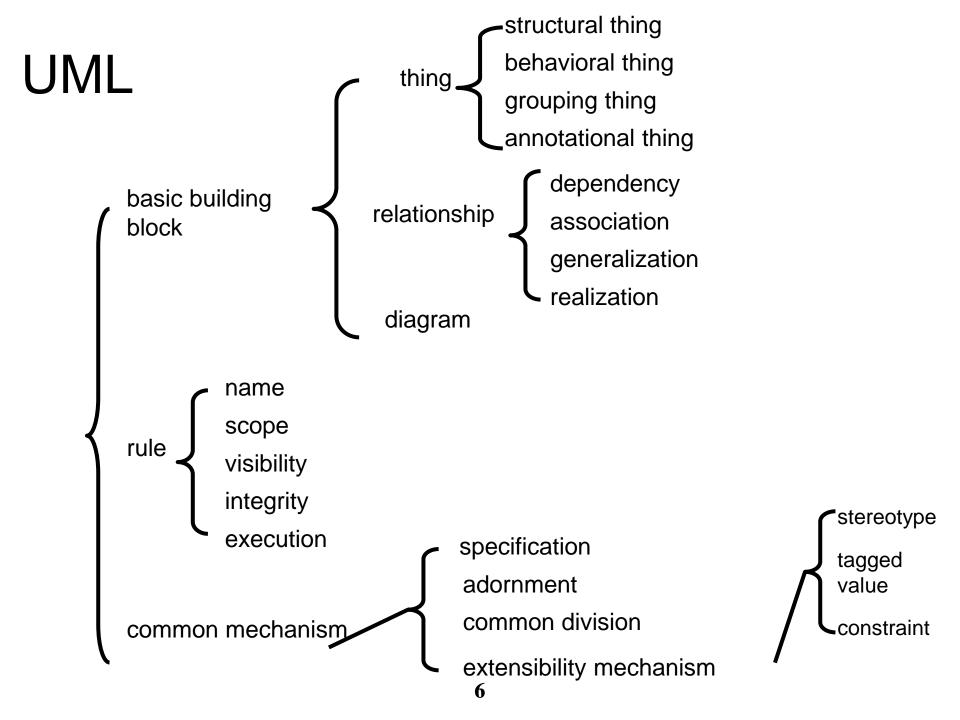
- Introduction to software engineering and the concepts of OO
- Introduction to RUP and UML
- Use case diagram
- Class diagram, object diagram, package diagram
- Activity diagram, state machine diagram
- Interaction diagram
- Component diagram, deployment diagram, composite structure diagram, profile diagram

Software Engineering and OO, RUP

- The Main Phases Of The Software Life Cycle
- Software Process Model and UML
- Features of Object-Oriented Technology
- The Main Phases of RUP

UML Overview

- Concept of UML, its difference to the the programming language
- Classification of UML Diagrams
- Conceptual Model of the UML
- UML tools



Use case diagram

- Requirements technology, two types of Requirements
- Definition of use case
- Elements of use case diagram
- Relationships between use cases
- Use case modeling

Class diagram

- Basic concept of Class
- Relationships between classes and their representation
- Three Stereotypes of class and and their representation
- Three Perspectives of Class Diagram
- Multiplicity
- Principles of Object Oriented Class Design

Object diagram, package diagram

- Representation of Objects
- Package in UML
- Owned Elements of Package
- Relationships between packages
- Principles of Package Design

Activity diagram

- Basic concepts
- Constituent elements
- Model parallel flows of control
- Composite elements of activity diagram
- Activity diagram modeling
- Difference between fork and decision node

State machine diagram

- Basic concepts
- Constituent elements
- Transition
- Composite state
- History State
- State machine diagram modeling

Interaction diagram

- Diagrams of interaction diagram
- Elements of Sequence Diagram,
 Communication Diagram
- Comparison between Sequence Diagram and Communication Diagram
- Basic concept of Timing Diagram and Interaction Overview Diagram

Other UML Diagrams

- Component Diagram
- Deployment Diagram
- Concept of Forward and Reverse Engineering

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Thanks

- The Course is Finished
- Learning does not finish
- I hope I and this course could inspire you a little