Karlstad University
Department of Information Systems

Adapted for a textbook by Blaha M. and Rumbaugh J.

Object Oriented Modeling and Design

Pearson Prentice Hall, 2005

UML Notation

Remigijus GUSTAS

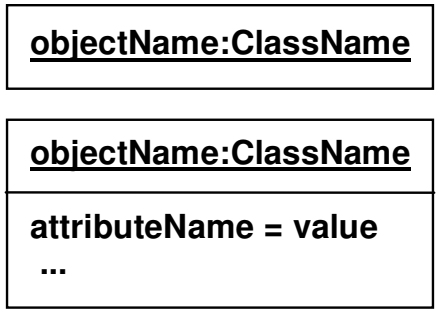
Phone: +46-54 700 17 65

E-mail: Remigijus.Gustas@kau.se

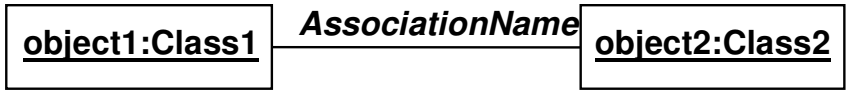
http://www.cs.kau.se/~gustas/

Class Model Notation

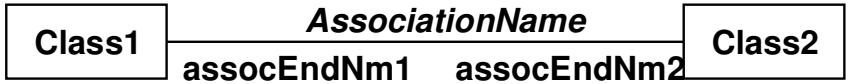
Object:



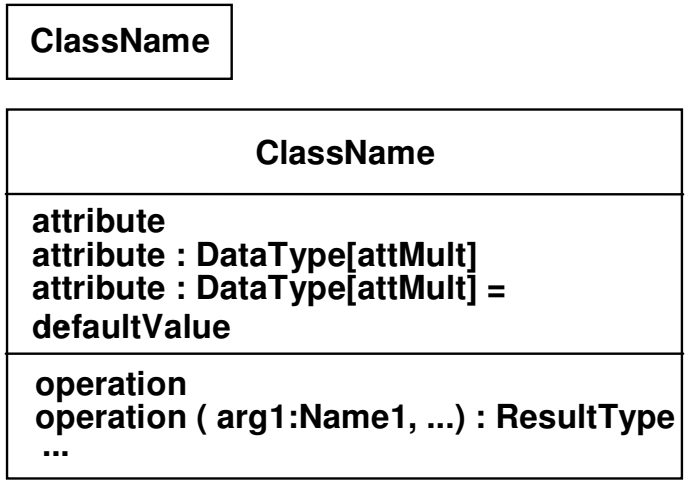
Link:



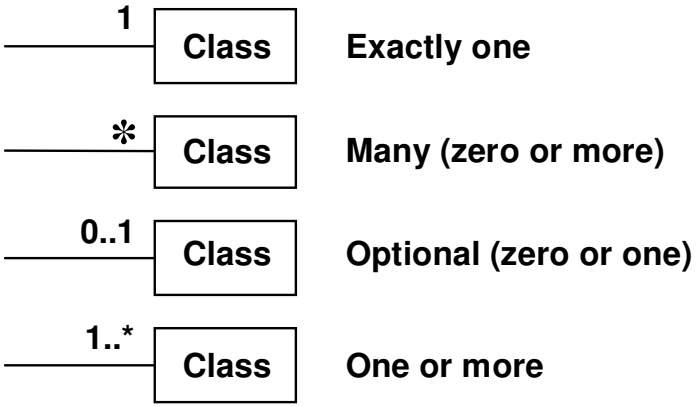
Association:



Class:

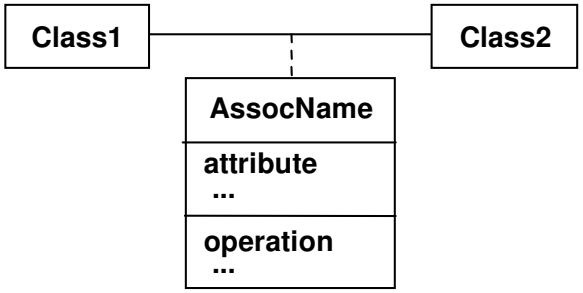


Multiplicity of Associations:

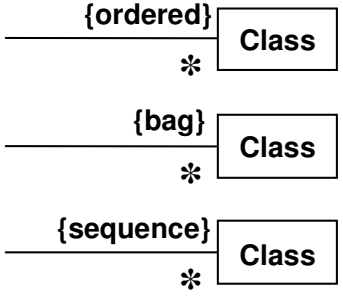


Class Model Notation

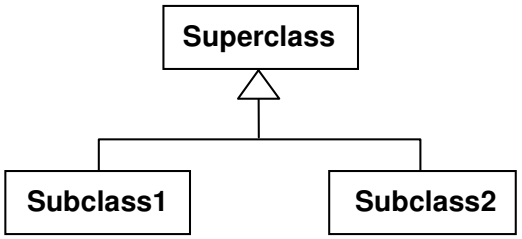
Association Class:



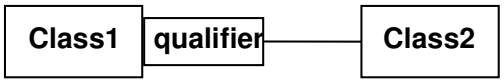
Ordered, Bag, Sequence:



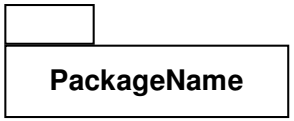
Generalization (Inheritance):



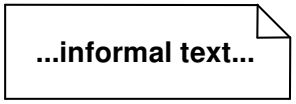
Qualified Association:



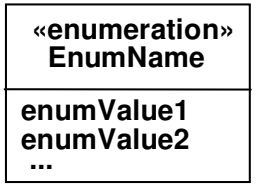
Package:



Comment:

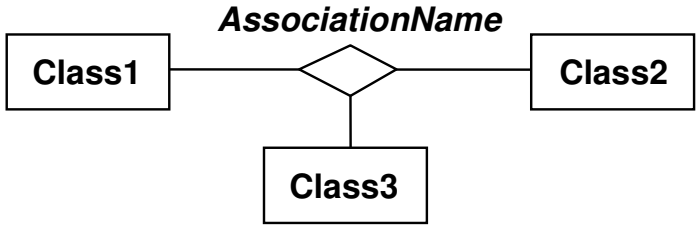


Enumeration:

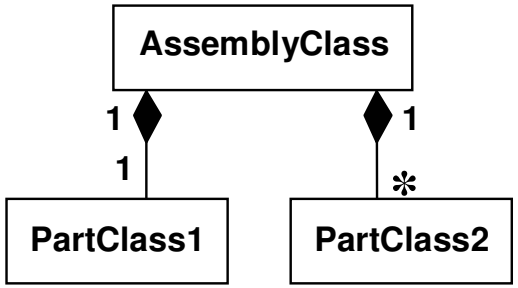


Class Model Notation

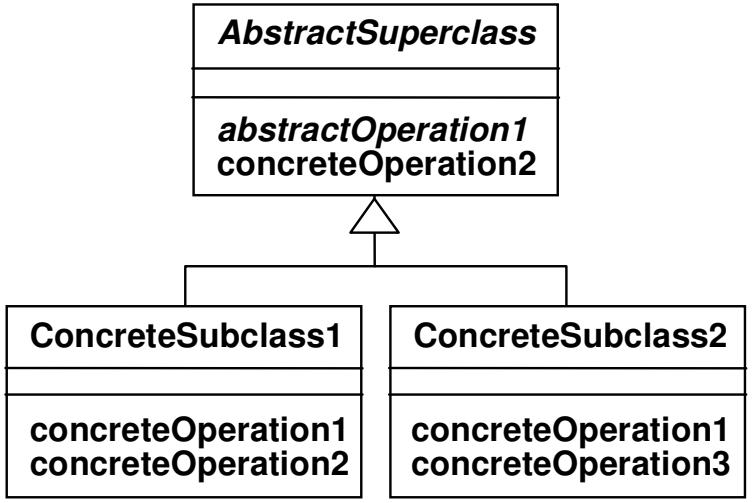
Ternary Association:



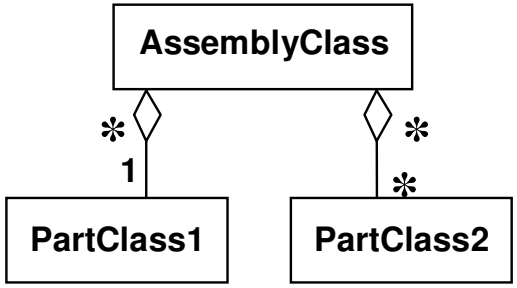
Composition:



Abstract and Concrete Class:

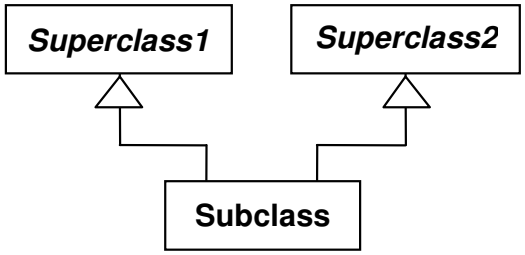


Aggregation:

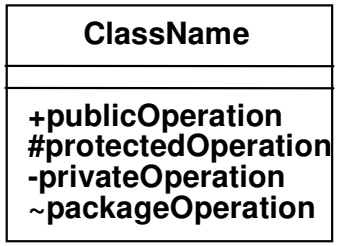


Class Model Notation

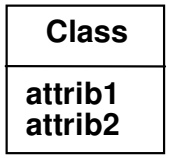
Multiple Inheritance, Disjoint:



Visibility:

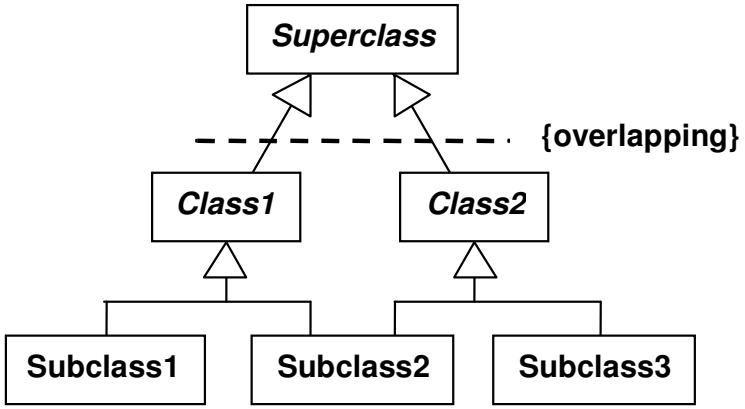


Constraint on Objects:

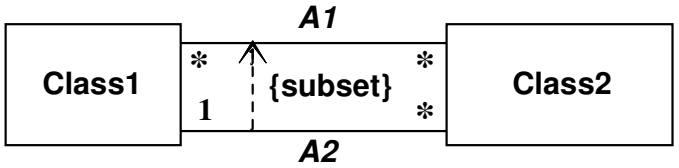


{ attrib1 0 }

Multiple Inheritance, Overlapping:

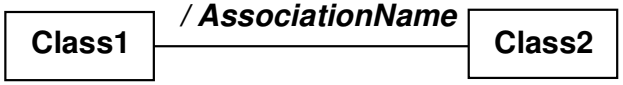


Constraint on Links:

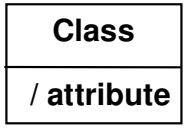


Derived Class:

Derived Association:

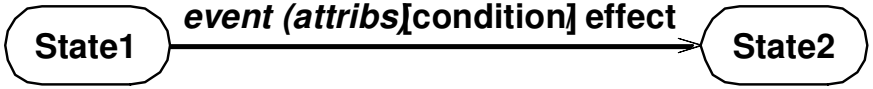


Derived Attribute:



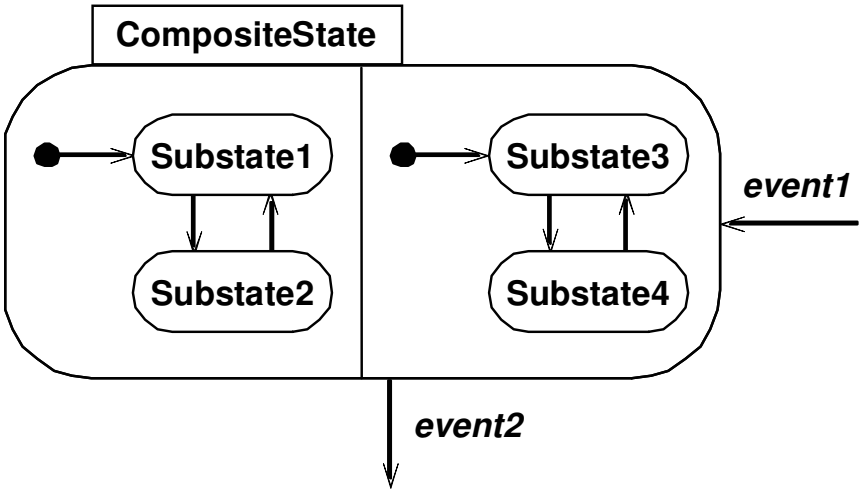
State Model Notation

Event causes Transition between States:

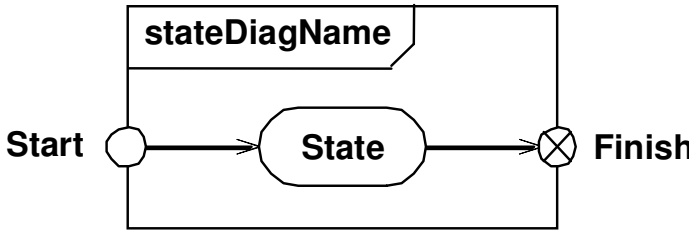


Initial and Final States:

Concurrency within an Object:

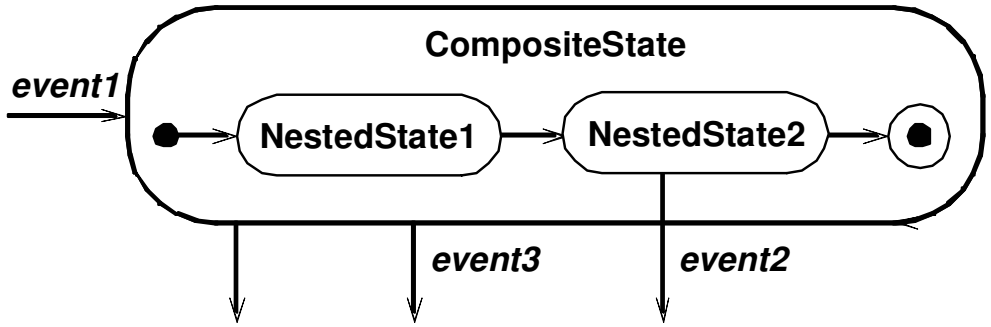


Entry and Exit Points:



State Model Notation

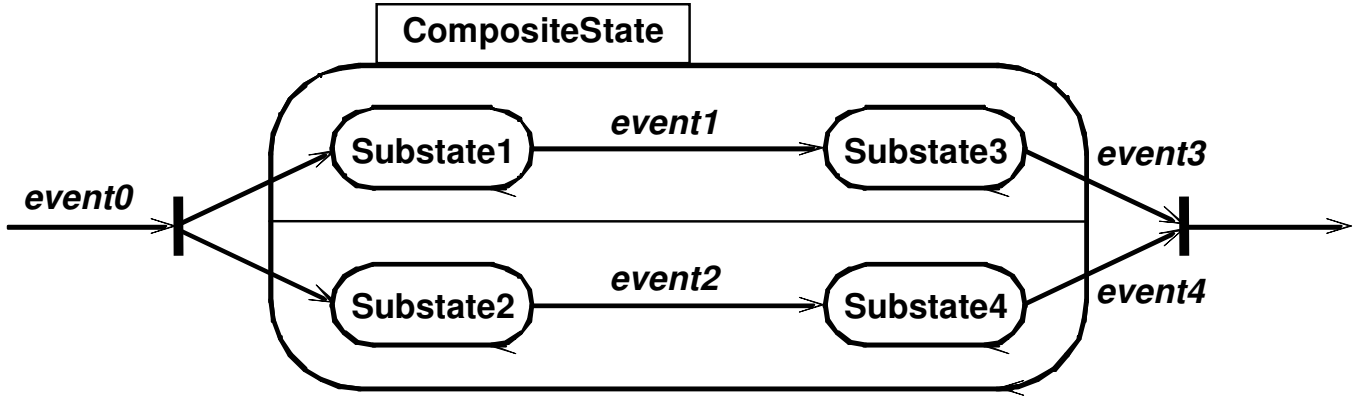
Nested State:



Activities while in a State:

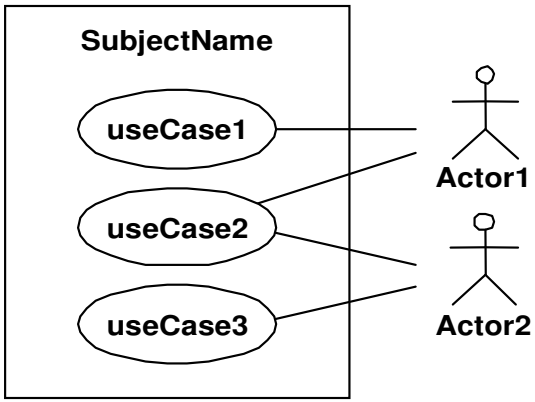
Splitting of control:

Synchronization of control:

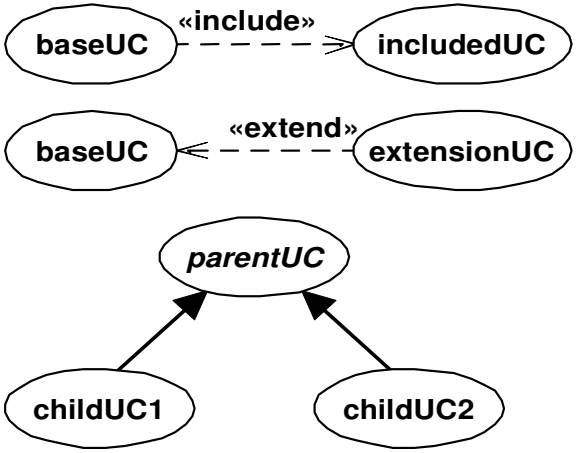


Interaction Model Notation

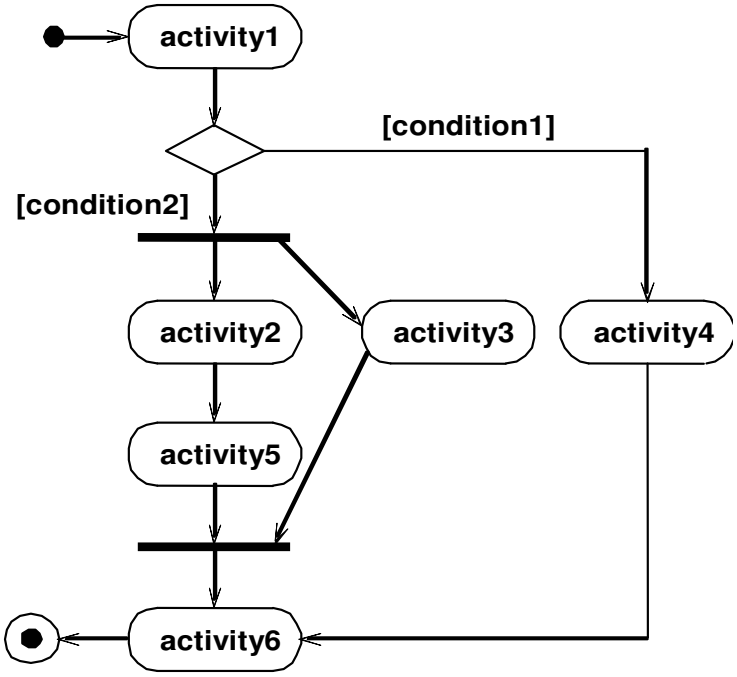
Use Case Diagram:



Use Case Relationships:

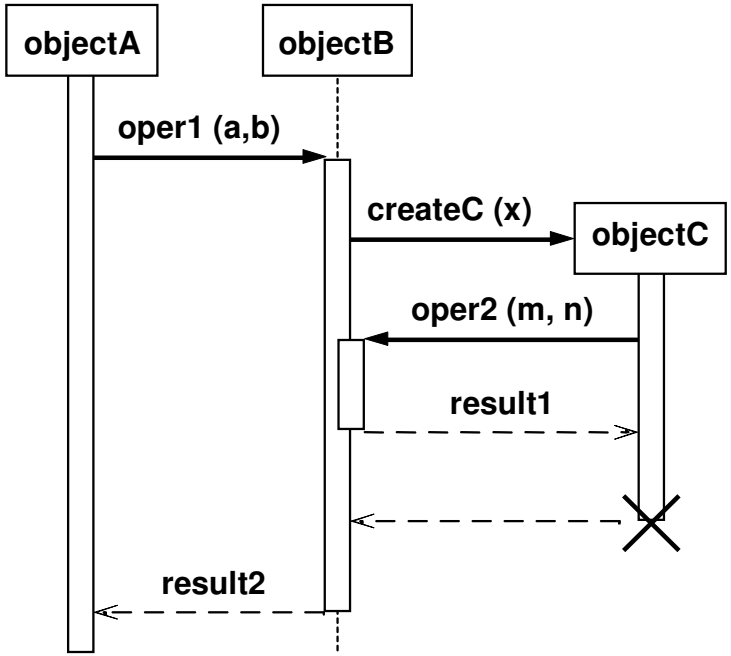


Activity Diagram:

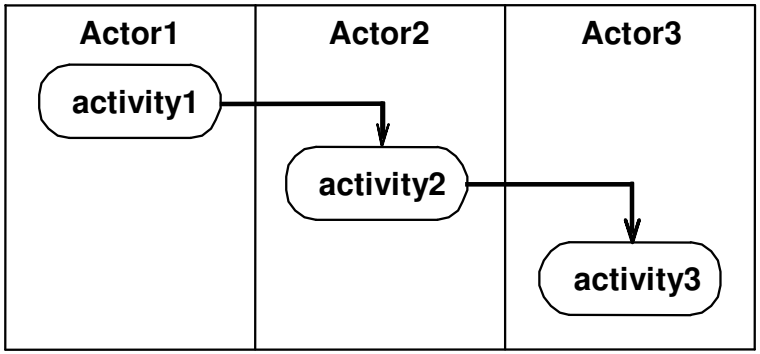


Interaction Model Notation

Sequence Diagram:



Activity Diagram with Swimlanes:



Activity Diagram with Object Flows: