

Software Engineering I

UML Diagrams

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Resources

- Martin Fowler, Kendall Scott: UML Distilled Addison-Wesley 2000
- <http://www.uml.org/>
- Robert Martin's articles:
<http://www.objectmentor.com/resources/listArticles?key=topic&topic=UML>
- <http://www.jeckle.de/umllinks.htm#tutorials>
- http://pigseye.kennesaw.edu/~dbraun/csis4650/A&D/UML_tutorial/index.htm
- <http://www.agilemodeling.com/essays/umlDiagrams.htm>
- <http://odl-skopje.etf.ukim.edu.mk/uml-help/>
- ...

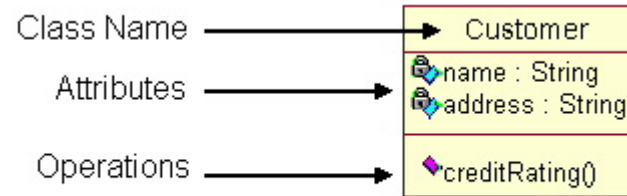
Responsibilities of a Class

- CRC cards: Class Responsibility Collaborator
 - A responsibility is something that a class knows or does
 - A collaborator is another class that a class interacts with to fulfill its responsibilities

Class Name	
Responsibilities	Collaborators

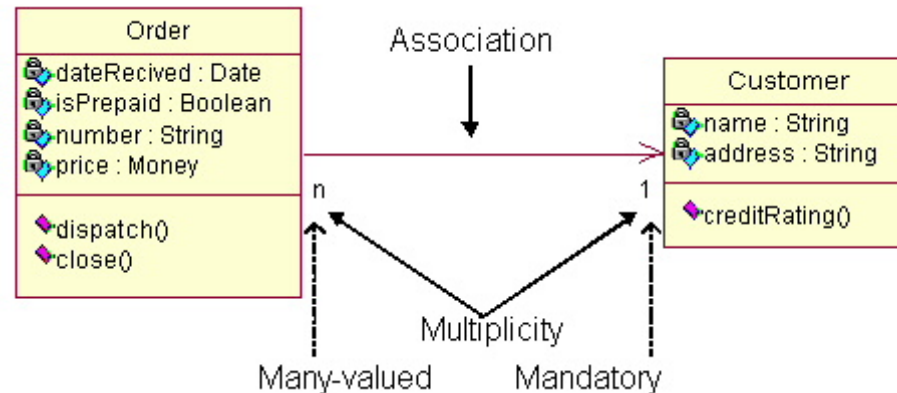
Class Diagrams

- Structure of a class:



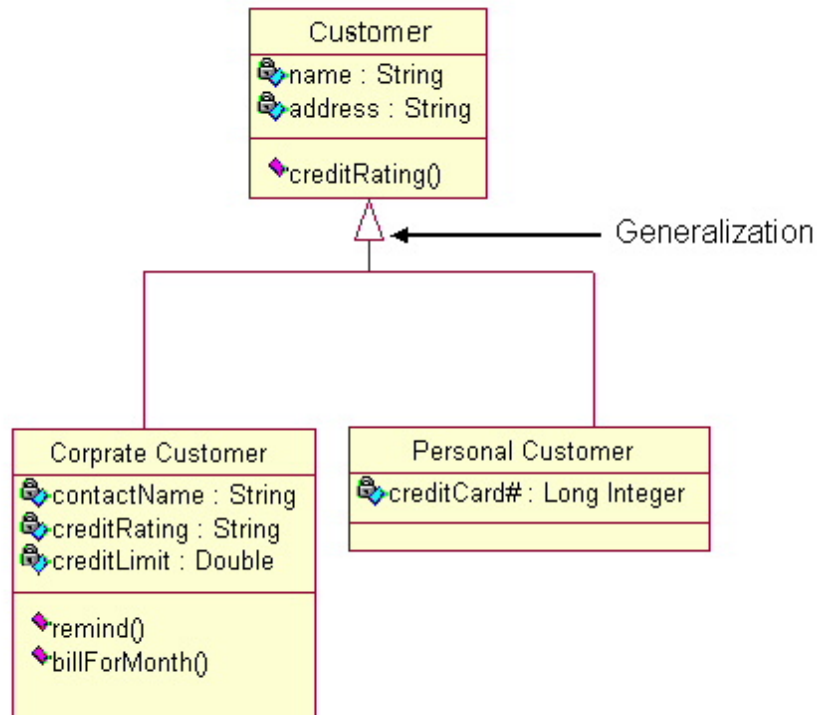
- Relationships between classes:

- Association:



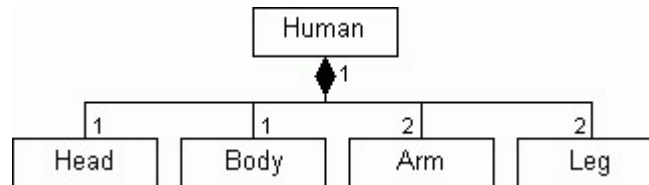
Class Diagrams

- Generalization (is-a):



Class Diagrams

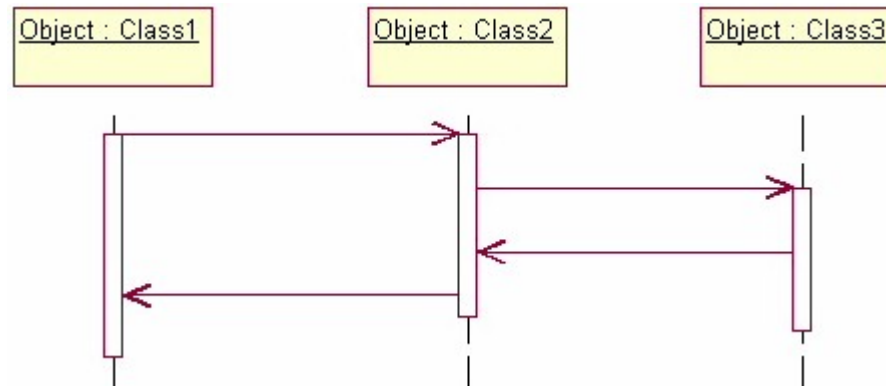
- Composition (has-a):
 - Sometimes an object is made up of other objects.



- Aggregation is a weaker form of composition, and it is not supported anymore in UML.2

Sequence Diagram

- Describe the interaction between objects in a use case:



Sequence Diagram

