

PXL – IT 42TIN280 Software Analysis System & System Context – Domain Model Cheat sheet

Week 05 - semester 01

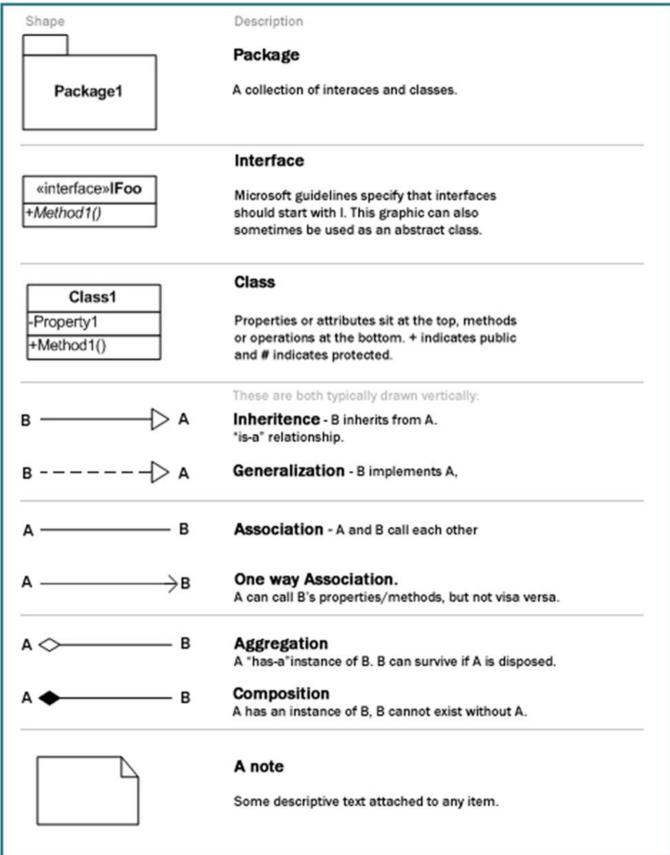
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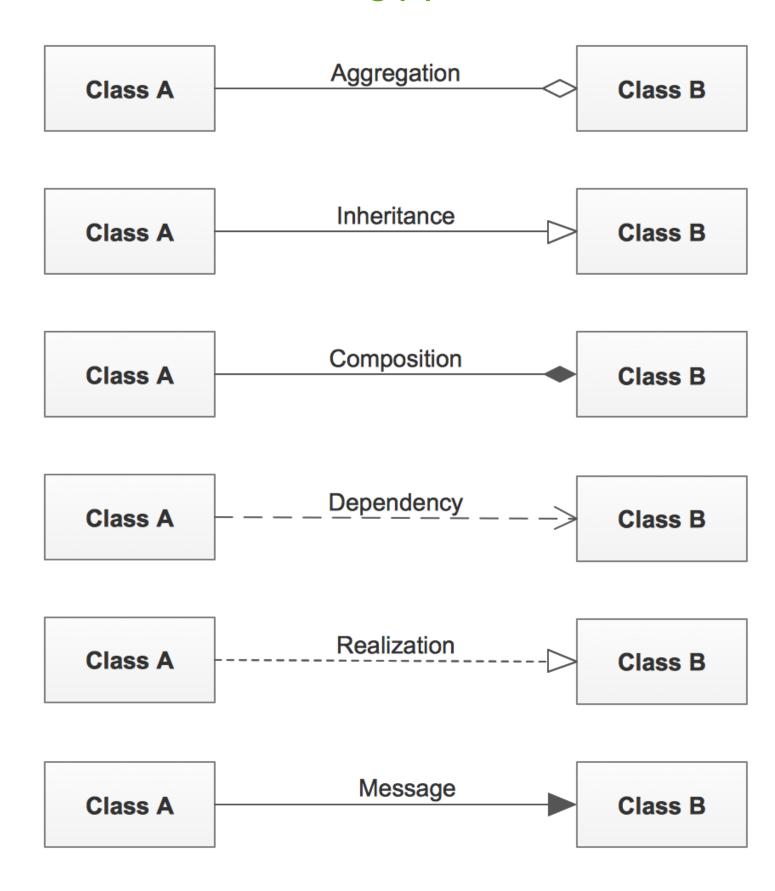


UML Domain modeling (1)





UML Domain modeling (2)





UML Domain modeling (3)

Multiplicity	UML Multiplicity Notation	Association with Multiplicity	Association Meaning
Exactly 1	or leave blank	Employee Works for 1 Employee Department Department Department	An employee works for one and only one department.
Zero or 1	01	Employee Has 01 Spouse	An employee has either one or no spouse.
Zero or more	0* or *	Customer Makes • Payment Customer Payment	A customer can make no payment up to many payments.
1 or more	1*	University Course	A university offers at least 1 course up to many courses.
Specific range	79	Has scheduled 79 Game	A team has either 7, 8, or 9 games scheduled



UML Domain modeling – General steps

- 1. Prepare problem statement for the system being developed
- 2. Identify concepts (these are the classes & objects)
- 3. Develop a common vocabulary, dictionary, glossary
 - a) Make an alphabetic list
 - b) Count the occurrences
 - c) Make a glossary of terms → domain classes
 - d) Create a first domain class diagram
- 4. Identify associations between concepts
- 5. Assign attributes to the concepts
- 6. Check for multiplicities and indicate in domain model
- 7. Iterate and refine the model

