UML Class Diagram Cheatsheet

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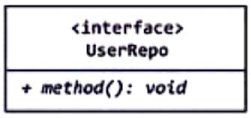
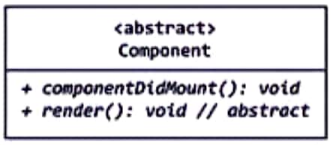
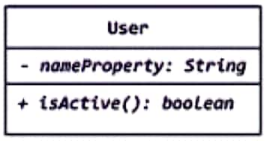
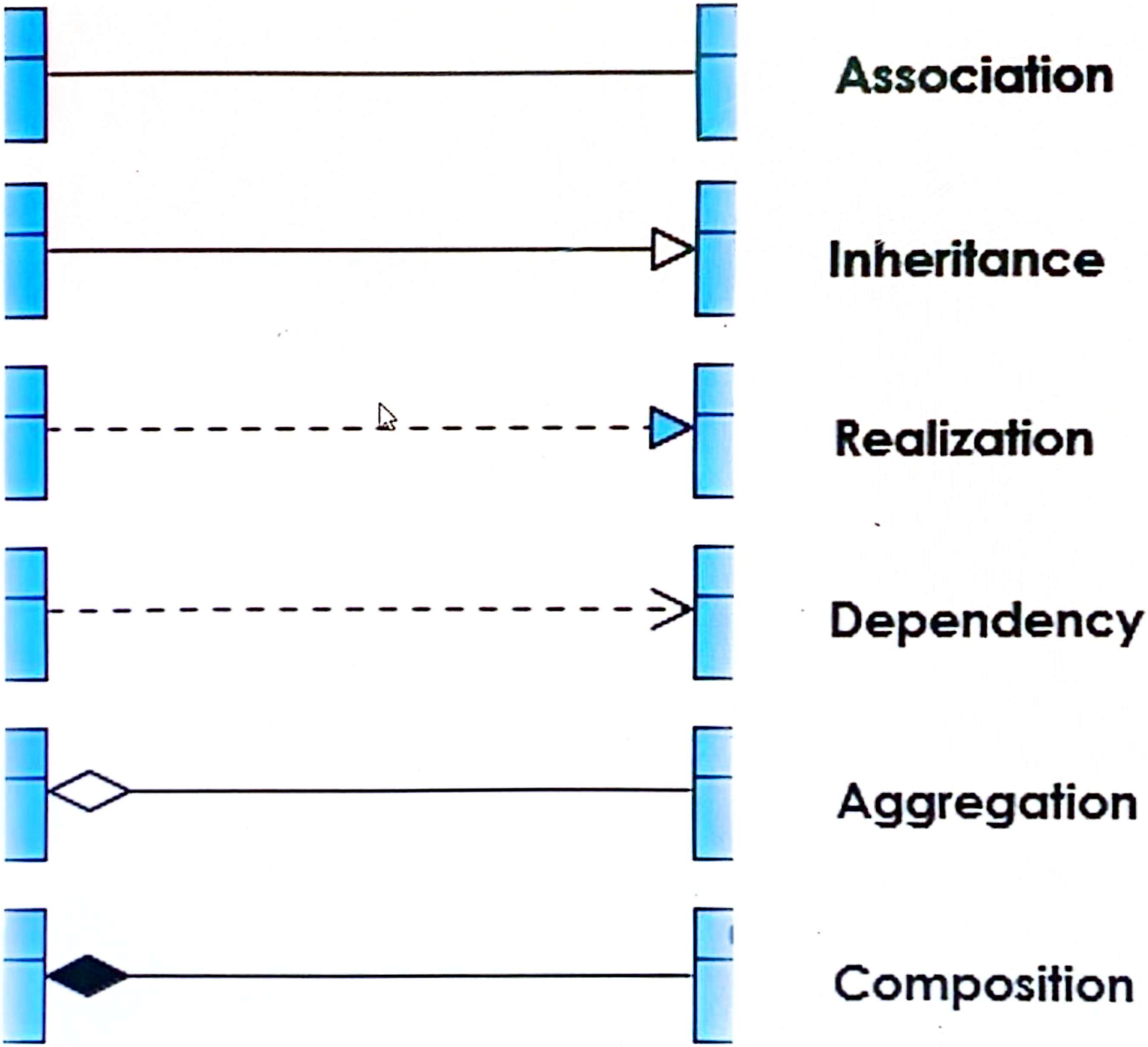
Shape	Description
	**Package** A collection of classes and interfaces.
	**Interface** Interface name written underneath the <interface> annotation. Methods underneath.
	**Abstract class** Same as the interface shape. Abstract methods marked as abstract with comments or "abstract methodName(): returnType".
	**Class** Properties or attributes sit at the top, methods or operations at the bottom + indicates public, - indicates private, and # indicates protected
	These should be drawn vertically
	**Inheritance** B inherits from A. Creates an "is-a" relationship. A is a generalization.
	**Implementation/realization** B is a concrete implementation/realization of A.
	**Association** A and B call each other.
	**One way association** A can call B's properties/methods, but not vice versa.
	**Aggregation** A has 1 or more instances of B. B can survive if A is disposed. *Ex: Professor (1) "has-many" classes (0..*) to teach.* *Ex: Pond (0..1) "has-many" ducks (0..*). Ducks can survive if the pond is destroyed.*
	**Composition** A has 1 or more instances of B. B cannot survive if A is disposed. *Ex: User (1) "has a" UserName (1). UserNames can't exist as separate parts in away from a User in our application.*
	**Note** Descriptive text that can be attached to any item.


Association
Inheritance
Realization
Dependency
Aggregation
Composition