CSCI-230: UML diagramming using the Dia Diagram Editor

On Linux: Applications >> Graphics >> Dia Diagram Editor

Start by selecting the UML toolset.

Hover over the buttons to see what they mean

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Use Case Diagrams		
Component	Dia Editor Equivalent	
System boundary	Large Package	
Actor	Actor	
Use case	Use Case	
Generalization/Specialization between two actors OR two use cases	Generalization	
Association between an actor and a use case	Association (after inserting shape, double-click on shape in your diagram and change Show arrow to Yes on the desired side)	
< <extends>> between two use cases</extends>	Dependency(after inserting shape, double-click on shape in your diagram and type < <extends>> in the Name field)</extends>	
< <includes>> between two use cases</includes>	Dependency(after inserting shape, double-click on shape in your diagram and type < <includes>> in the Name field)</includes>	
Notes	Note	

Class Diagrams	
Component	Dia Editor Equivalent
Class	Class (after inserting shape, double-click on shape in your diagram, and: (1) change the Class Name in the Class Tab, (2) add class attributes in the Attributes Tab (specify Name, Type and Visibility for each), and (3) add class methods in the Operations Tab (specify Name, Type, Visibility and Parameters for each – PS: each parameter, in turn, will require a Name and Type)
extends between two class or two interfaces	Generalization
implements between a class and an interface	Realizes
Bi-directional association between two classes	Association (after inserting shape, double-click on shape in your diagram and specify Multiplicity)
Uni-directional association between two classes	Association (after inserting shape, double-click on shape in your diagram, specify Multiplicity and change Show arrow to Yes on the desired side)
Aggregation between two classes	Aggregation(after inserting shape, double-click on shape in your diagram and select <i>Direction</i> to show diamond next to whole-side. Also, if desired, change <i>Show arrow</i> to <i>Yes</i> on the part-side)
Composition between two classes	Aggregation(after inserting shape, double-click on shape in your diagram, change Type to composition, and select Direction to show diamond next to whole-side. Also, if desired, change Show arrow to Yes on the part-side)
Dependency between two classes	Dependency

Communication Diagrams	
Component	Dia Editor Equivalent
Actor	Actor S
Controller	Class stereotype icon
Boundary	Class stereotype icon (after inserting shape, double-click on shape in your diagram and change Stereotype to Boundary)
Entity	Class stereotype icon (after inserting shape, double-click on shape in your diagram and change Stereotype to Entity)
Communication	Association (use to connect the communicating objects) Message (insert one for each exchanged message. After inserting shape, double-click on shape in your diagram and specify Message (most of the time, message is a numbered method call such as: 1.2.3 calculateTax (12345))
Notes	Note