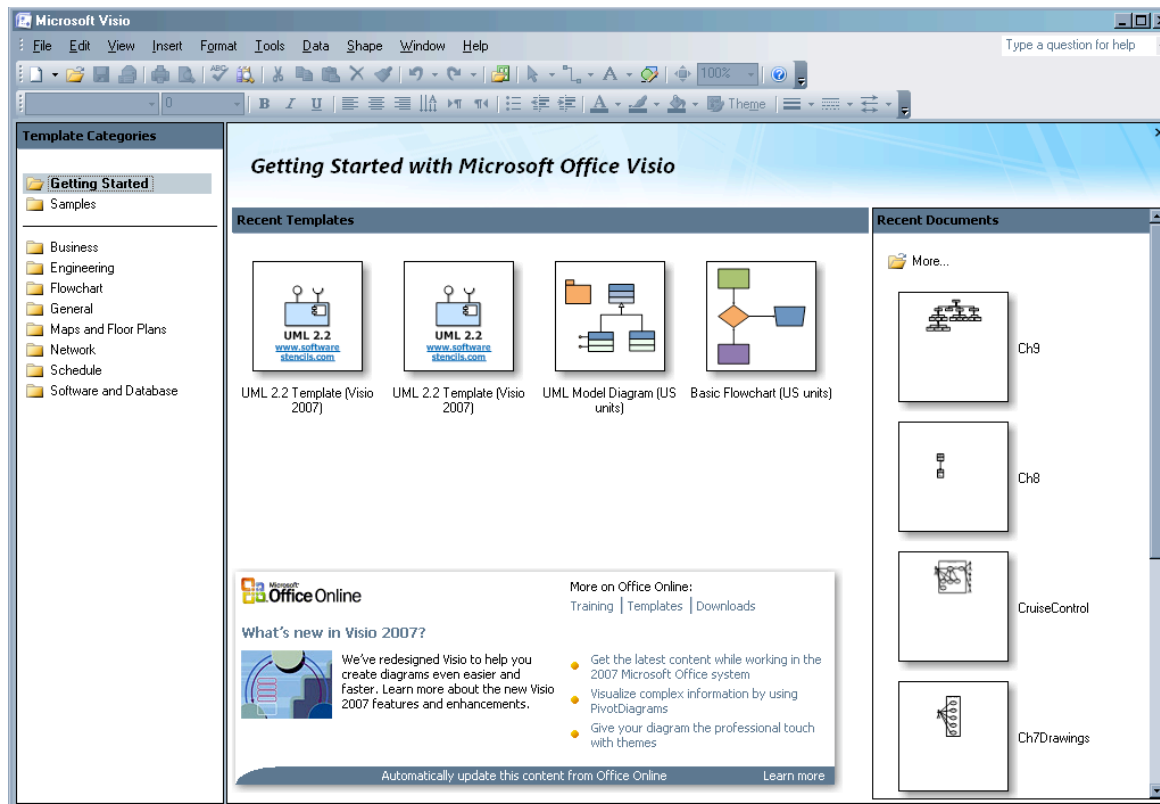


# Using COMET with Visio


Visio UML Modeling

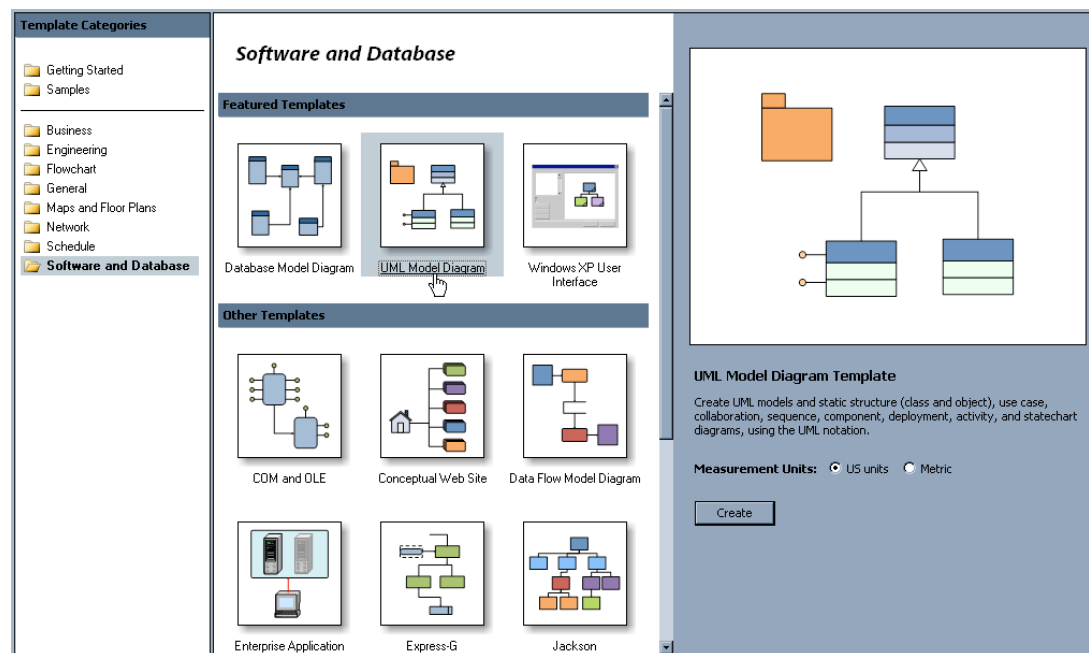
# Creating a Drawing

- After opening Visio, you will see a list of templates available.



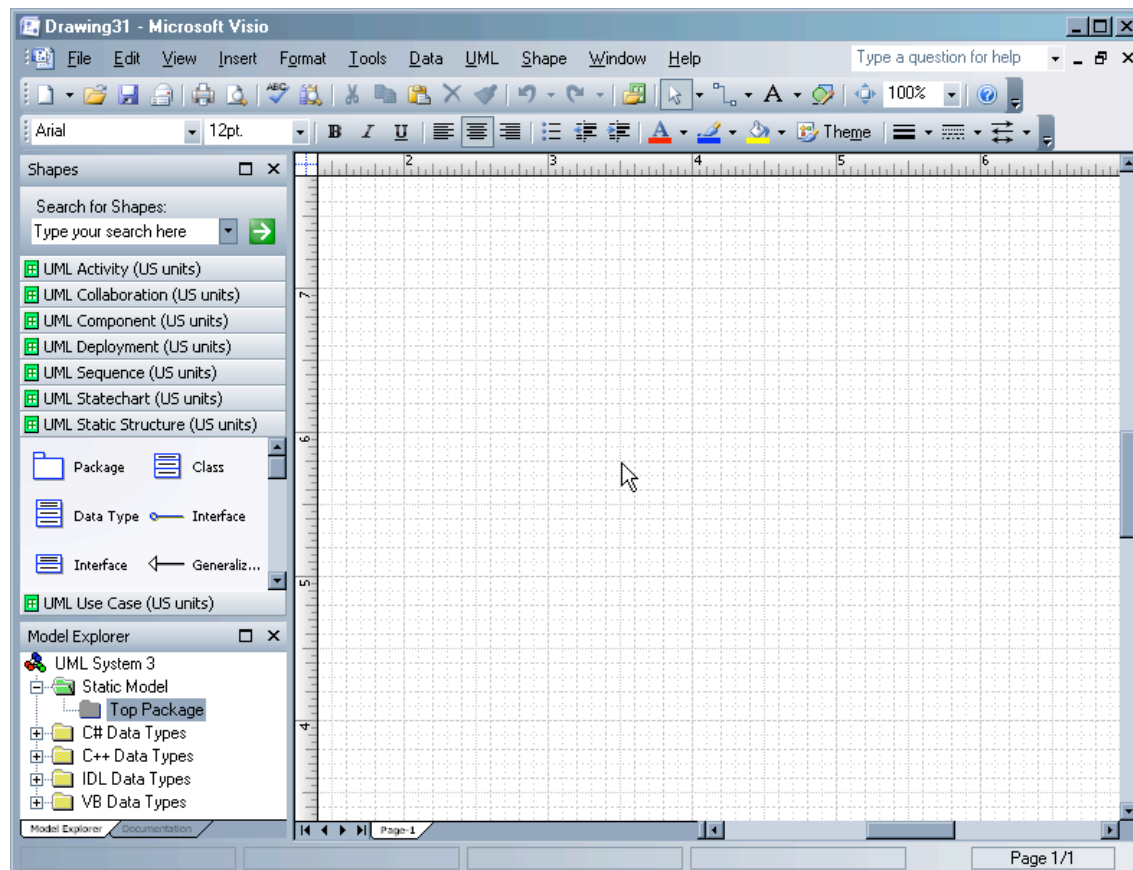
# Create a Drawing (cont)

- Under the Software Engineering folder, select UML Model Diagram
- After choosing your units, select “Create” 



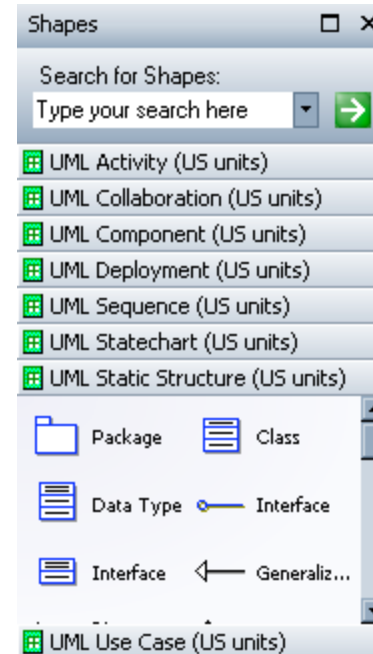
# Create a Drawing (cont)

- You will be taken to a new drawing with the UML shapes and Model Explorer visible.



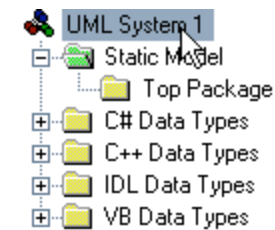
# Shapes Library

- The Shapes Library is on the left hand side.
- Shapes are organized by the kind of UML diagram they appear on.



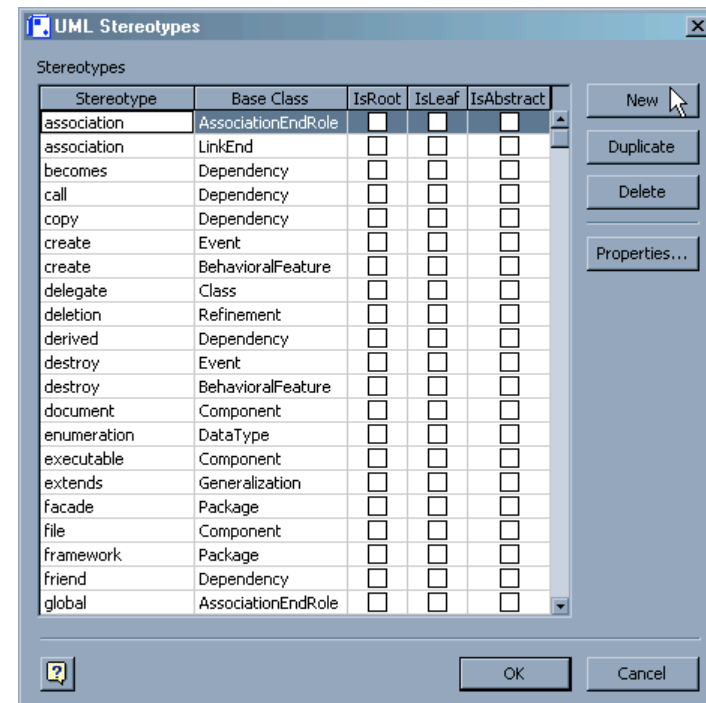
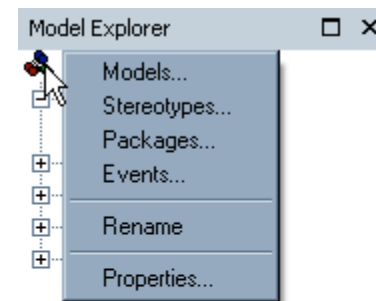
# Model Explorer

- The Model Explorer is also on the left hand side.
- All the objects you create will be shown here in a hierarchy for easy access.



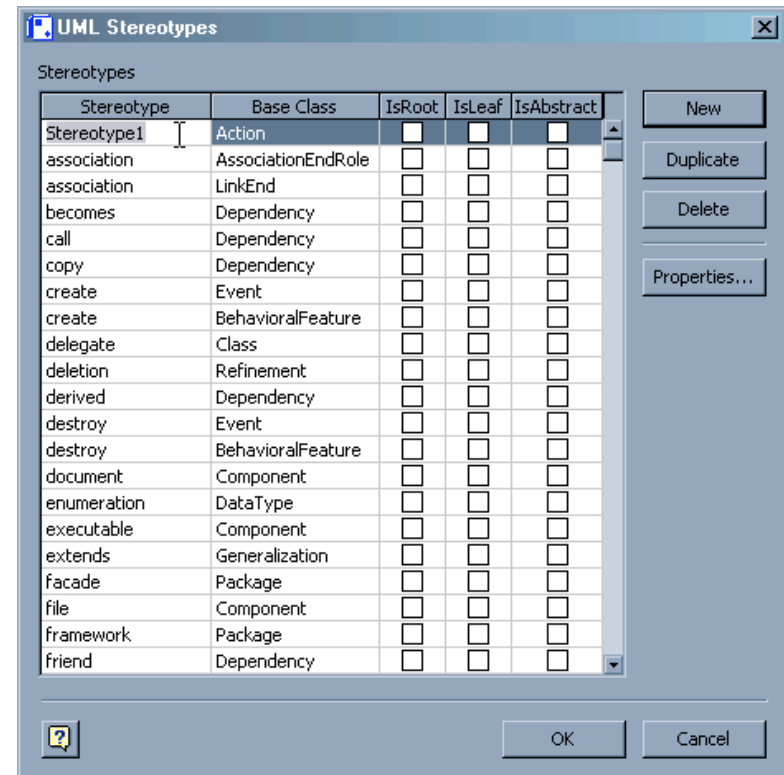
# Adding Stereotypes

- To add stereotypes, right click on the system in the Model Explorer
- Select “Stereotypes...” and the Stereotypes dialog will appear.



# Adding Stereotypes (cont)

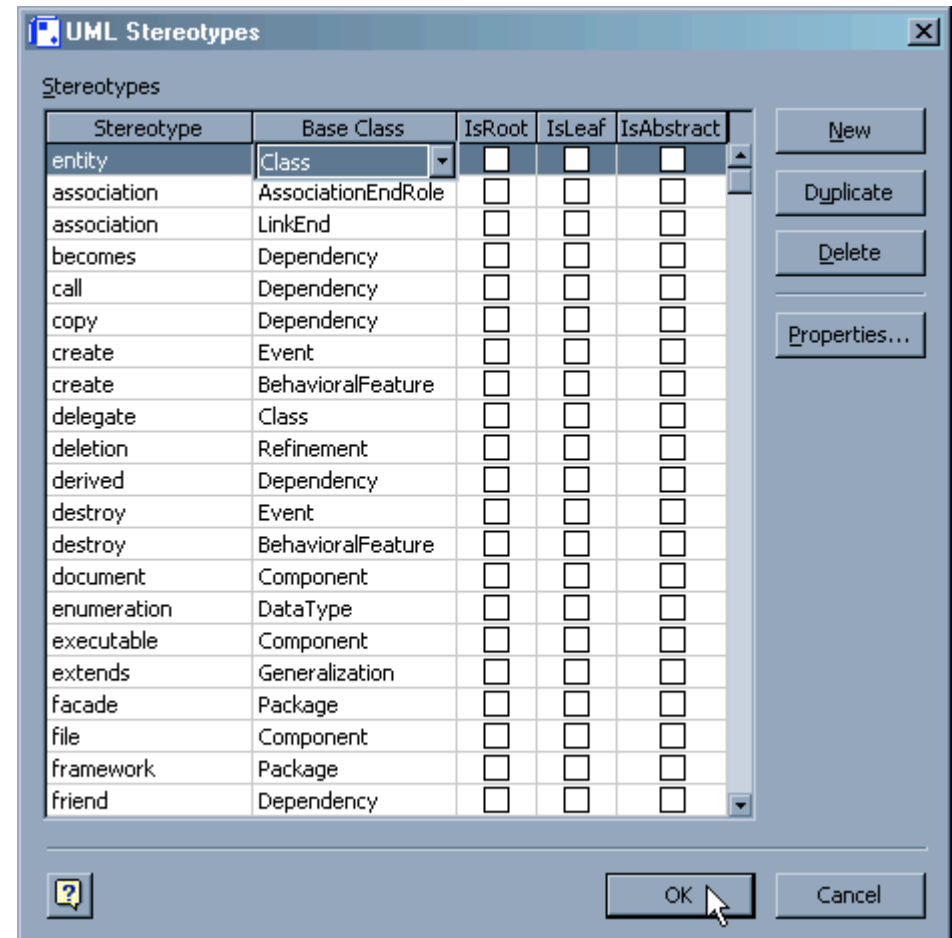
- Click “New” to create a new stereotype
- You can specify the name, and the base class the stereotype applies to.





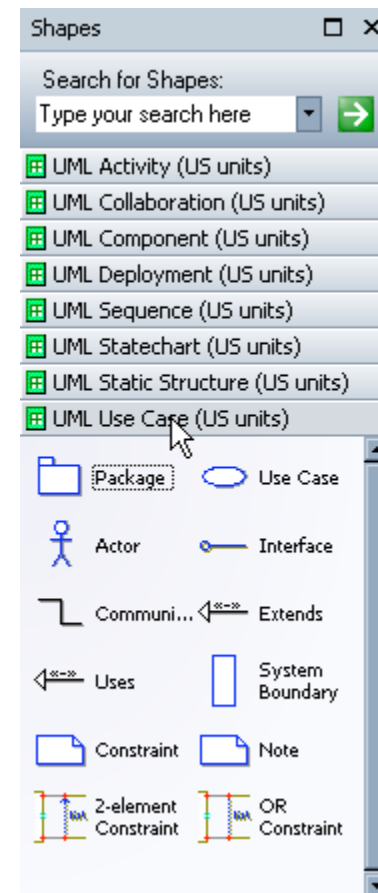
# Adding Stereotypes (cont)

- Lets make the entity stereotype for classes. Click OK to finish.



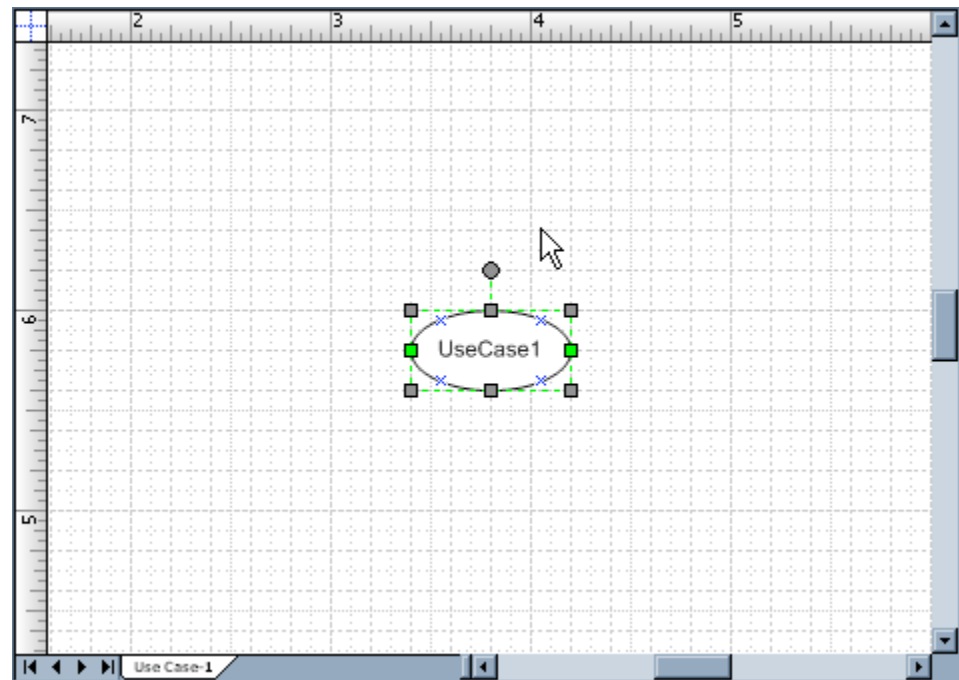
# Use Case Diagrams

- First, select the UML Use Case section of the shapes library



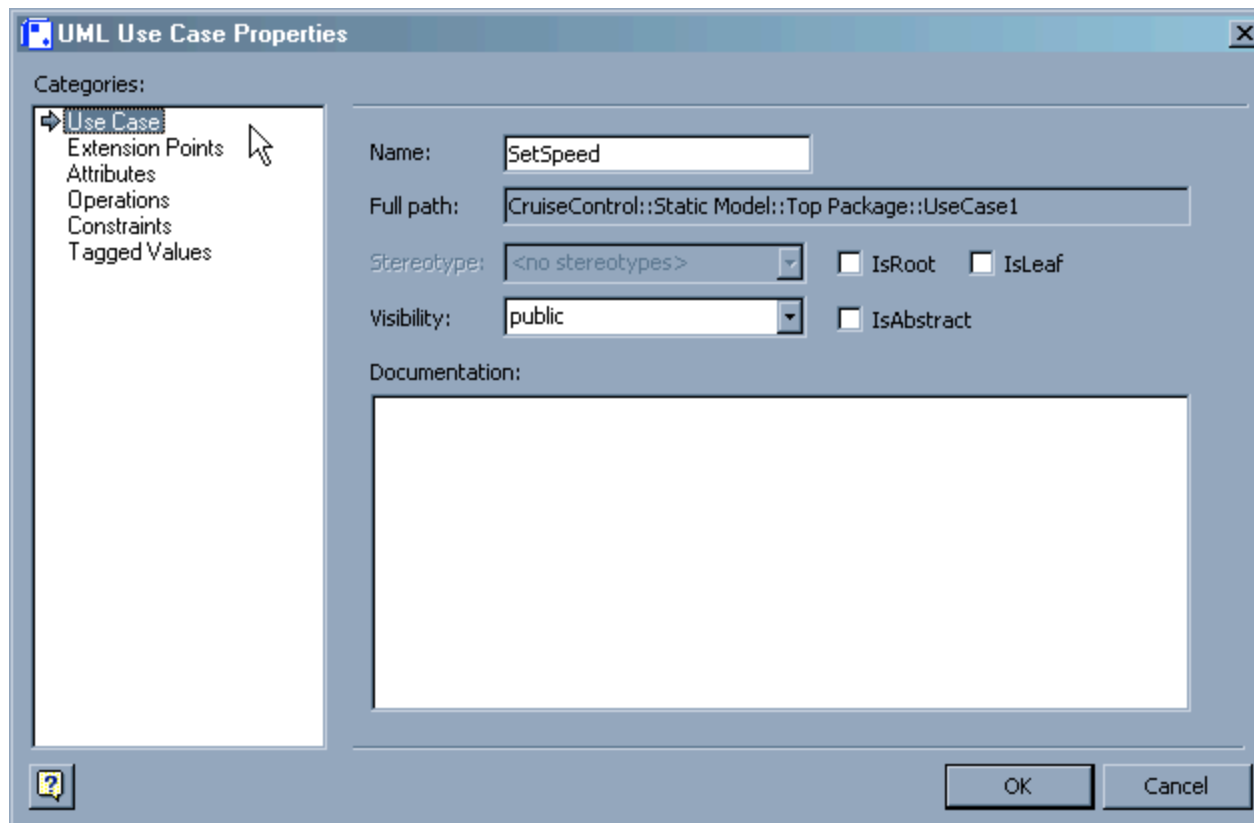
# Use Case Diagrams (cont)

- Drag a use case onto the drawing.



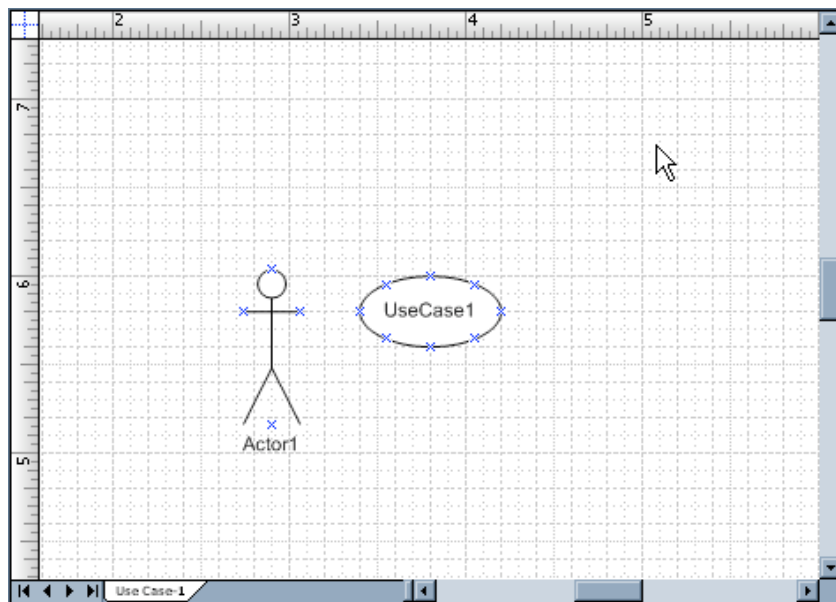
# Use Case Diagrams (cont)

- Double-click the Use Case to open its properties dialog, and give it a name.



# Use Case Diagrams (cont)

- Repeat this process with an Actor



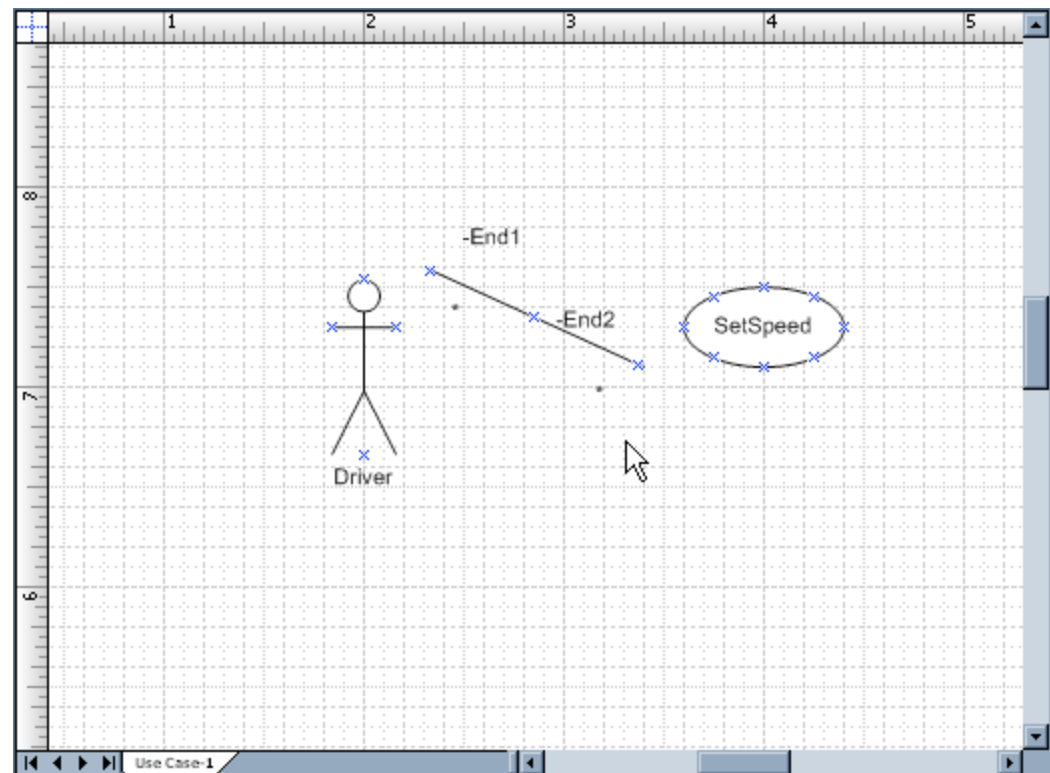
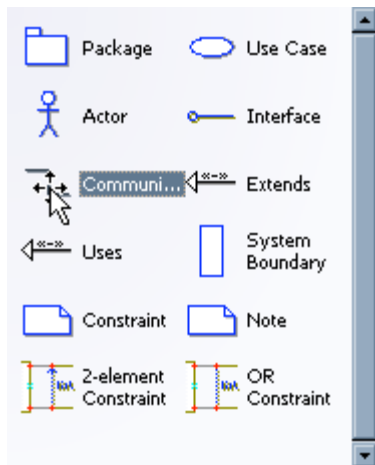
The "UML Actor Properties" dialog box is shown. It has a "Categories" list on the left with "Actor" selected. The main area contains the following fields and options:

- Name: Actor1
- Full path: CruiseControl::Static Model::Top Package::Actor1
- Stereotype: <no stereotypes> (dropdown menu)
- Visibility: public (dropdown menu)
- IsRoot:
- IsLeaf:
- IsAbstract:
- Documentation: (empty text area)

At the bottom right, there are "OK" and "Cancel" buttons.

# Use Case Diagrams (cont)

- Find the Communications Connector in the UML Use Case shapes, and drag it onto the drawing..



# Use Case Diagrams (cont)

- After linking the Actor and Use case, double-click the Communication Connector to open its properties.

UML Association Properties

Categories:

- Association
- Constraints
- Tagged Values

Name: Association1

Full path: CruiseControl::Static Model::Top Package::Association1

Stereotype: <no stereotypes>

Name Reading Direction: <none specified> End Count: 2

Association Ends:

End Name	Aggregation	Visibility	Multiplicity	IsNavigable
End1	none	private	*	<input type="checkbox"/>
End2	none	private	*	<input type="checkbox"/>

Documentation:

OK Cancel

# Use Case Diagrams (cont)

- Note you can change the end names and multiplicities.
- Blank all but a multiplicity of 1 for the Driver.

UML Association Properties

Categories:

- Association
- Constraints
- Tagged Values

Name: DriverSetsSpeed

Full path: CruiseControl::Static Model::Top Package::Association1

Stereotype: <no stereotypes>

Name Reading Direction: <none specified> End Count: 2

Association Ends:

End Name	Aggregation	Visibility	Multiplicity	IsNavigable	Properties...
	none	private	1	<input type="checkbox"/>	
	none	private		<input type="checkbox"/>	

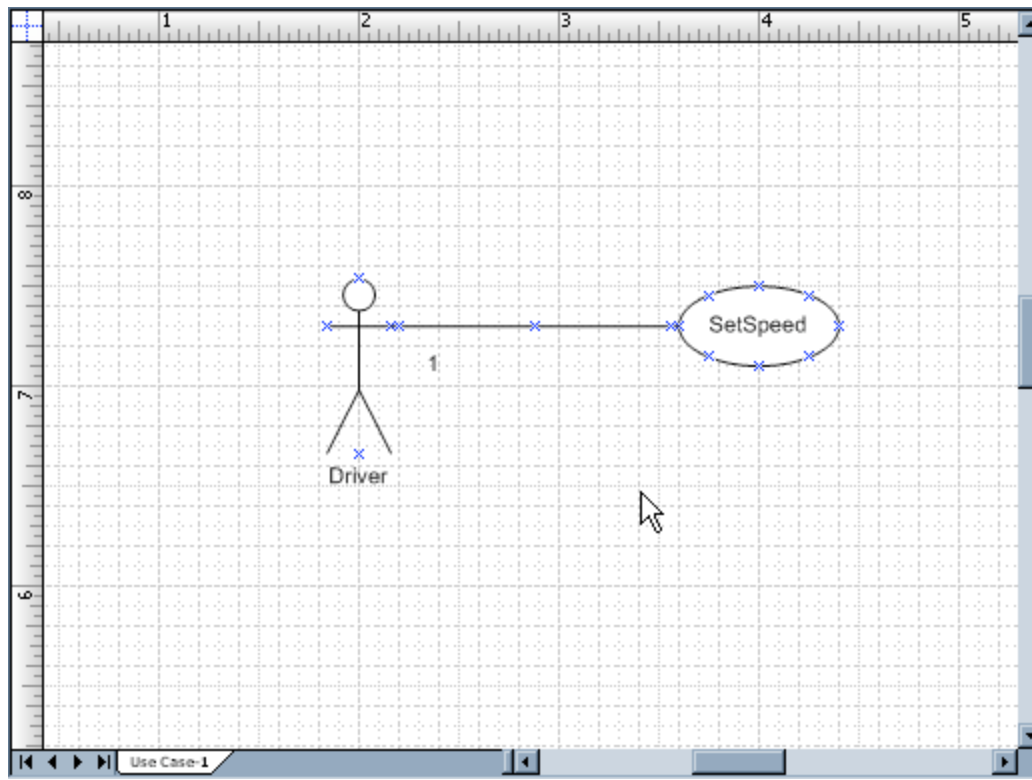
Documentation:

OK Cancel



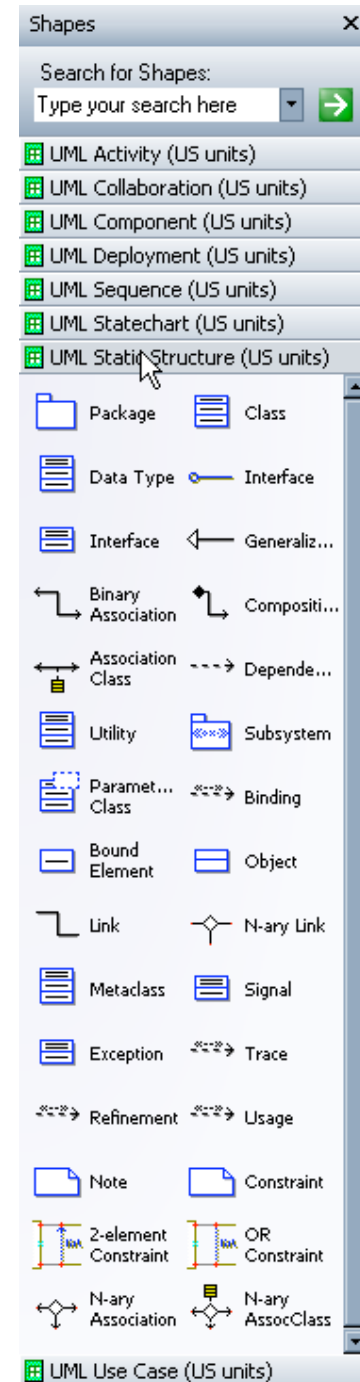
# Use Case Diagrams (cont)

- The Use Case is now Finished.



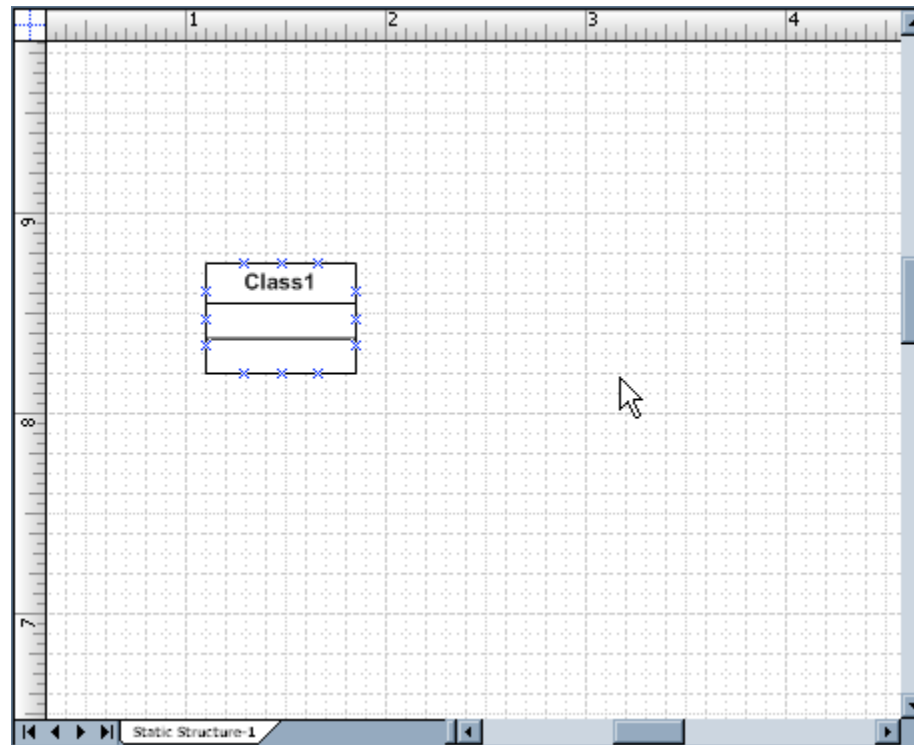
# Class Diagrams

- In a new drawing, select the UML Static Structure shapes.



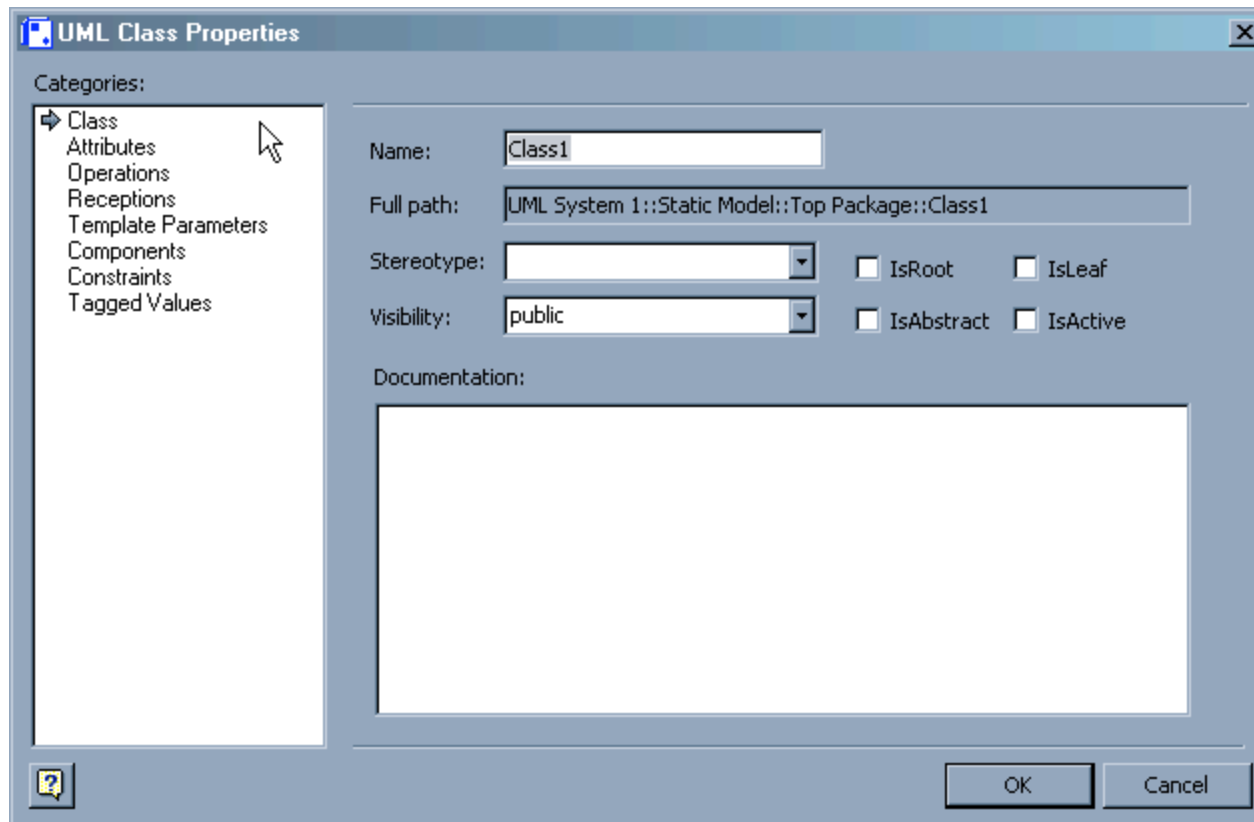
# Class Diagrams (cont)

- Drag a Class onto the drawing.



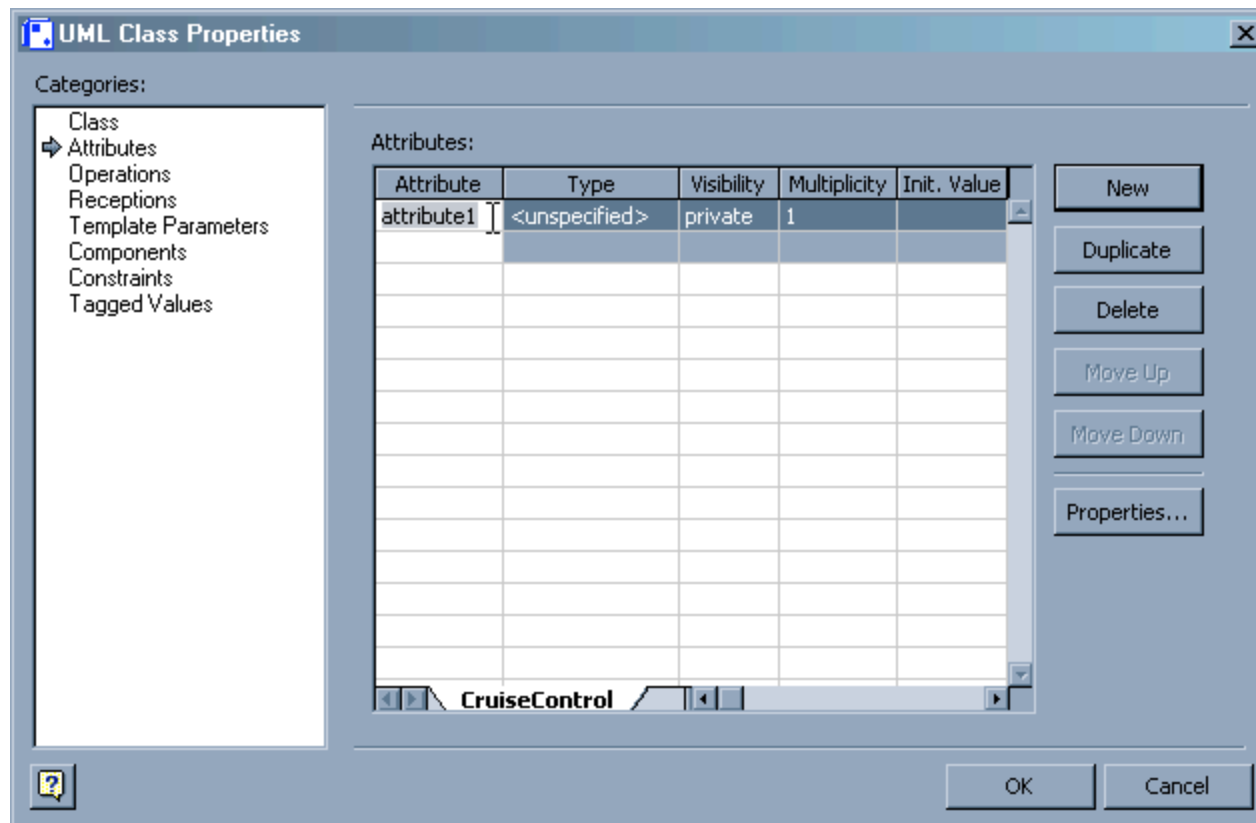
# Class Diagrams (cont)

- Double Click on the new class to open its properties, where you can change its name.



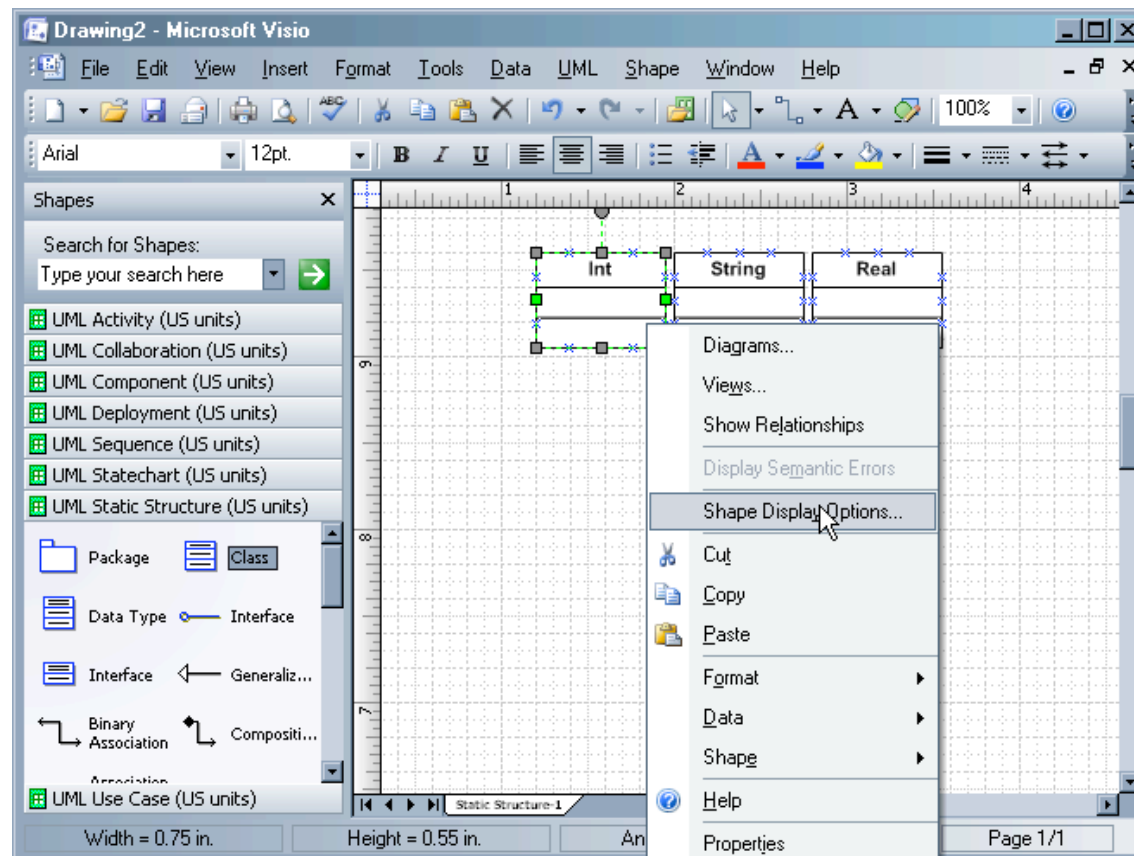
# Class Diagrams (cont)

- You can also add attributes and operations to the class.



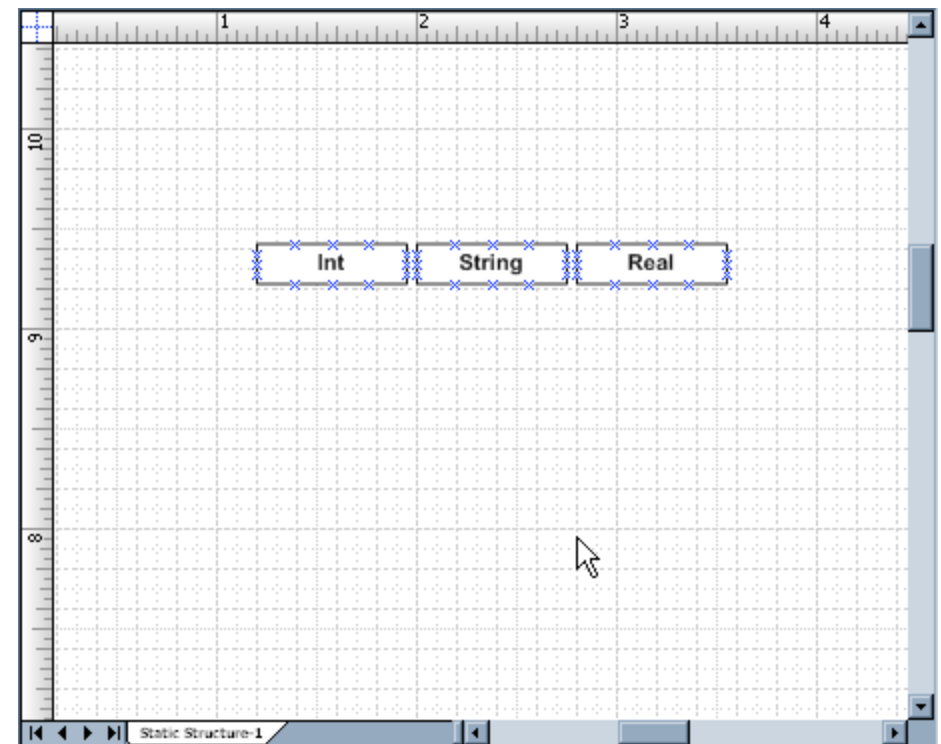
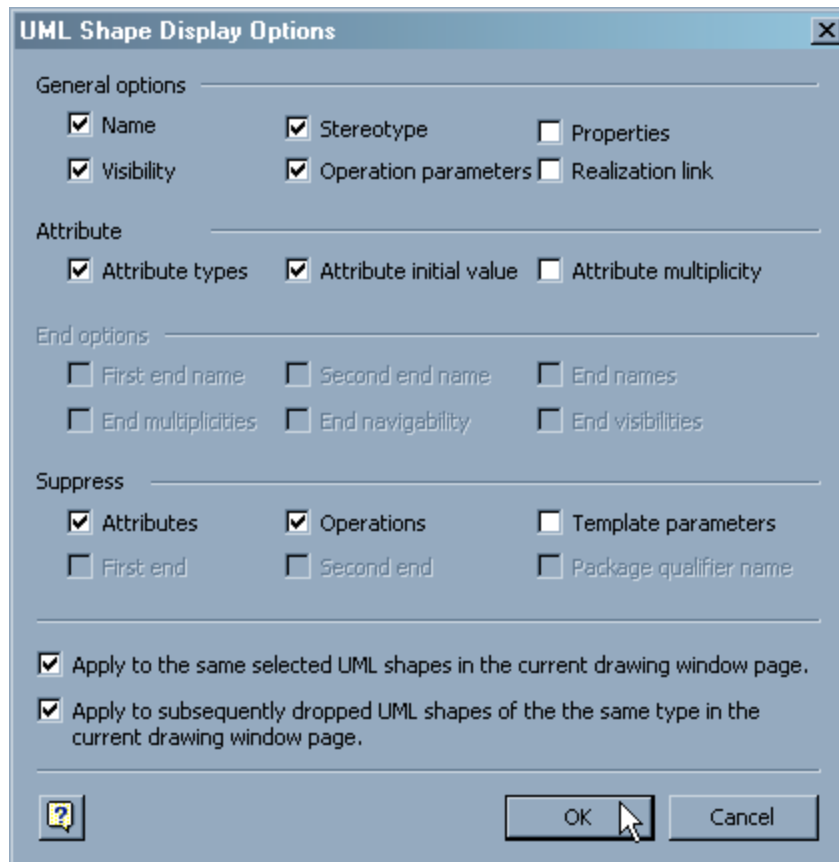
# Class Diagrams (cont)

- After creating several basic classes, right-click on one and select “Shape Display Options”



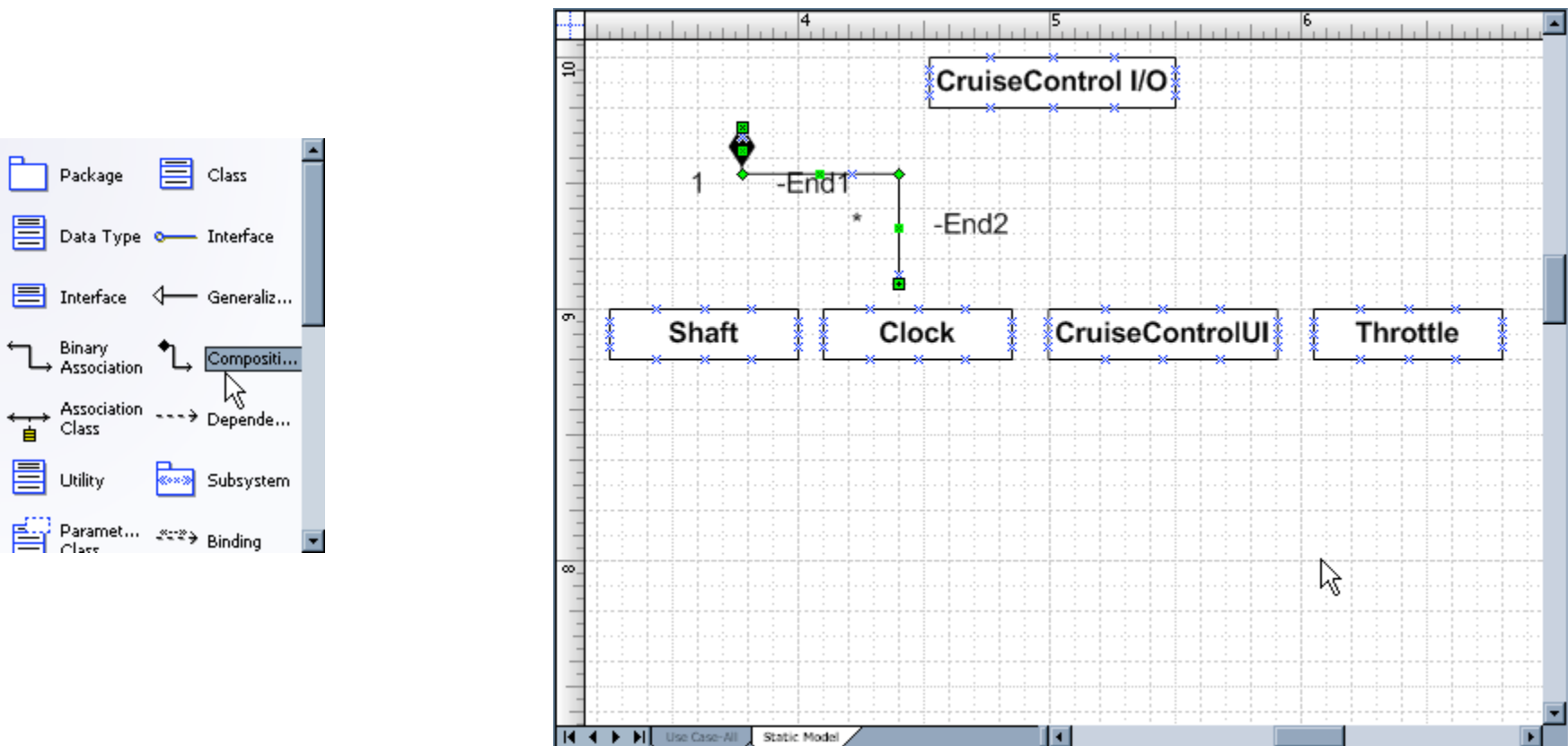
# Class Diagrams (cont)

- Note that you can suppress the visibility of the Attributes and Operations fields.



# Class Diagrams (cont)

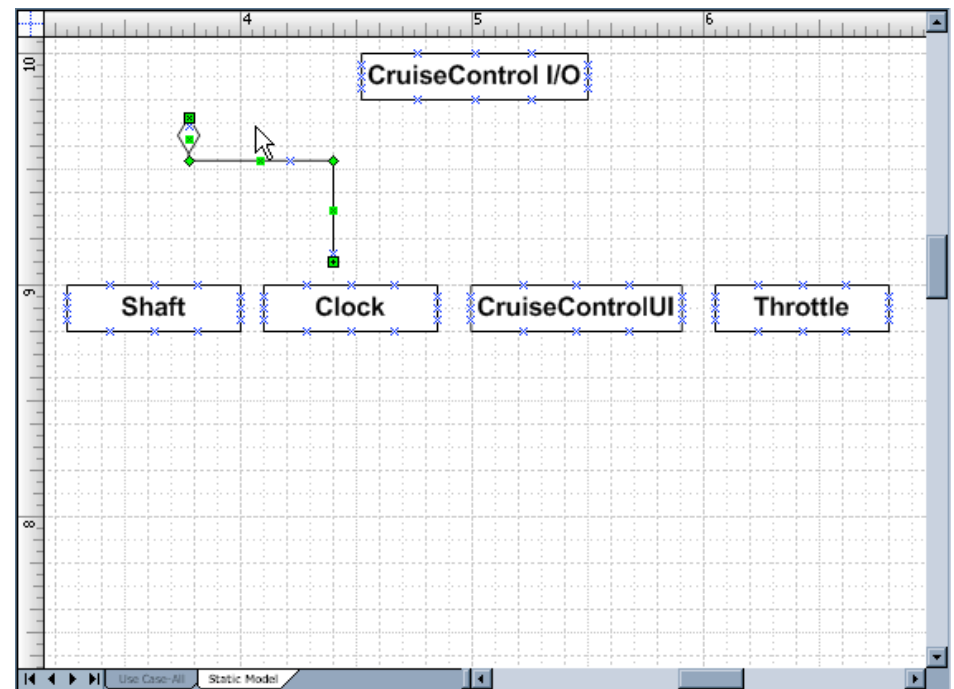
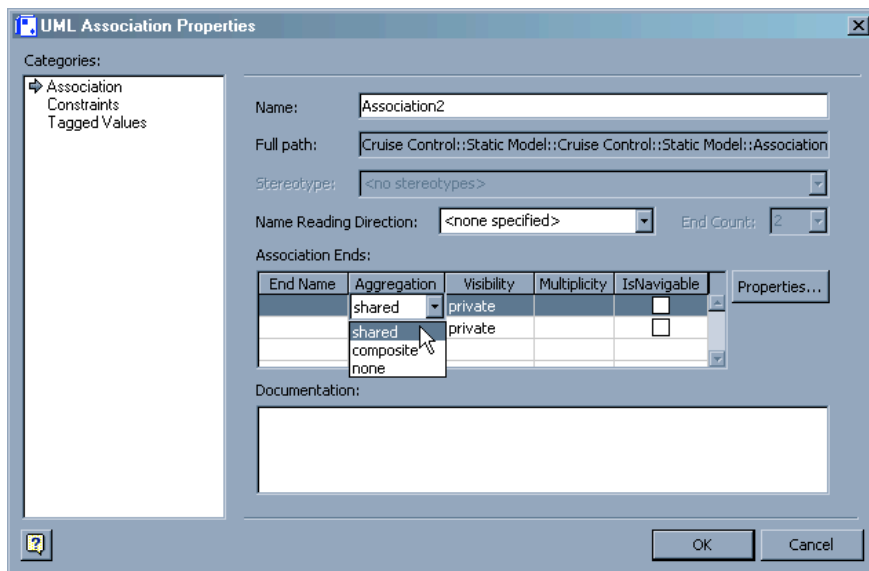
- To define a composition or aggregation relationship, use the Composition connector.





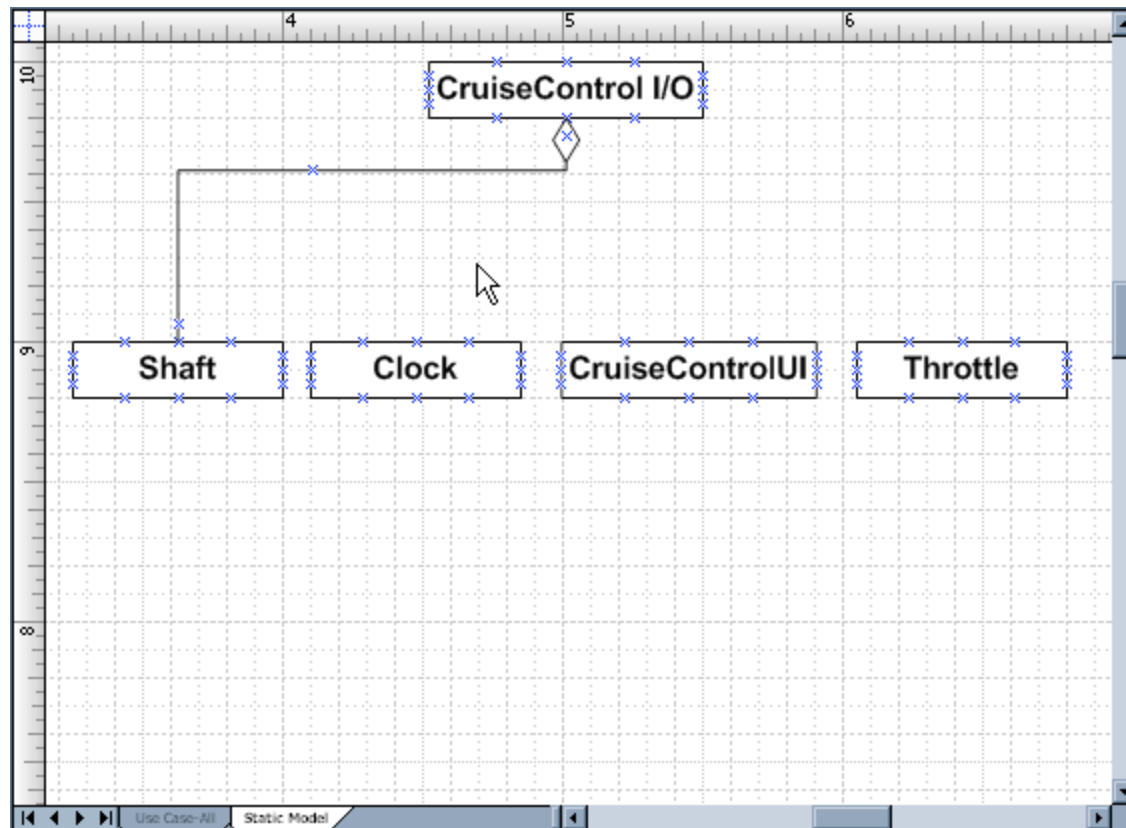
# Class Diagrams (cont)

- Changing the Aggregation to “shared” replaces the solid diamond with a transparent one.



# Class Diagrams (cont)

- After editing the properties of the Composition connector, connect its ends to the appropriate objects.



# Class Diagrams (cont)

- Similarly, generalization relationships are shown with a Generalization connector.

