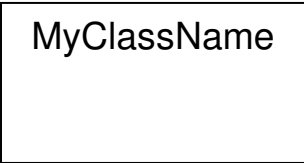


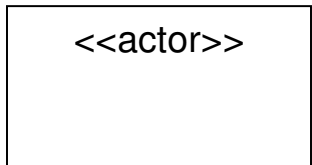
UML Basics

by Ronald Koster (<http://www.ronaldkoster.net>)

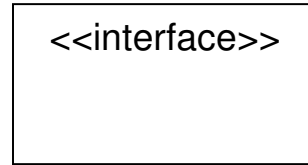
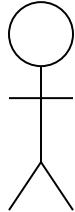
Any Rectangle is a Class



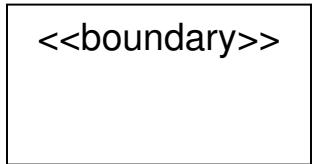
Special Classes (Stereotypes)



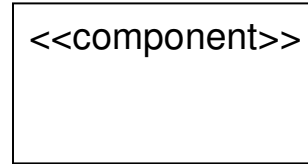
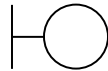
=def



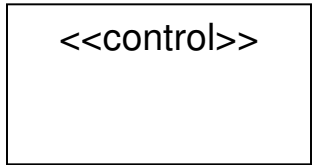
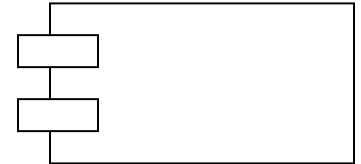
=def



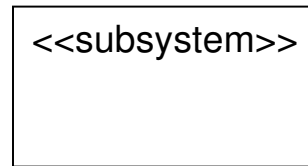
=def



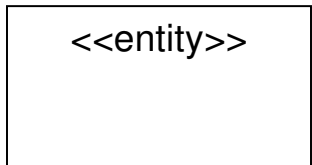
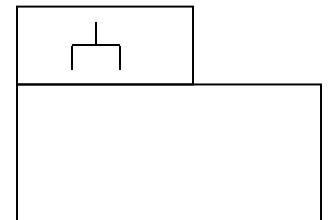
=def



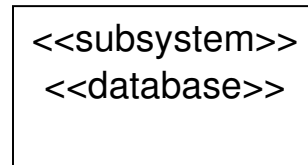
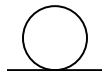
=def



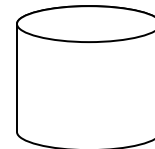
=def



=def

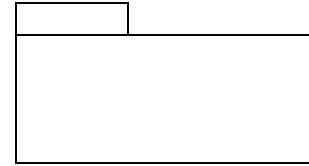


=def

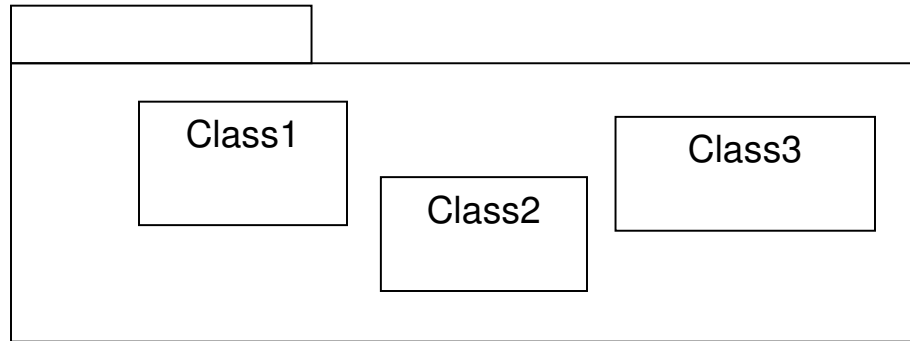


Packages

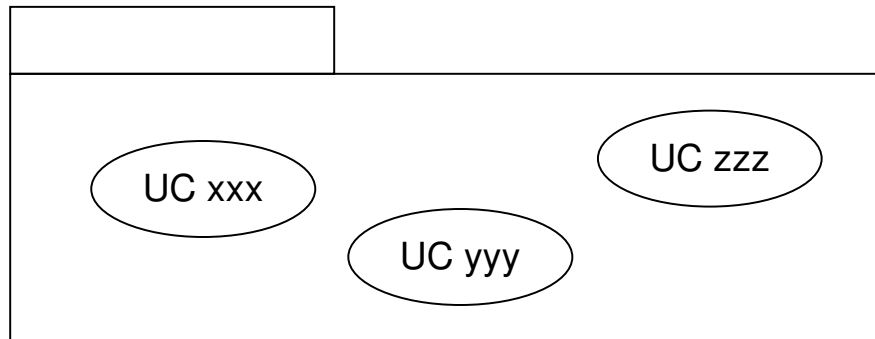
A group of things can be enclosed by a package symbol:
The package represents the group, ie. group = package.



Group of Classes:

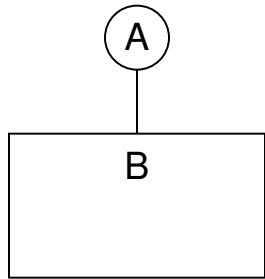


Group of Use Cases:

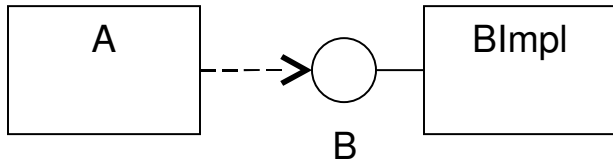
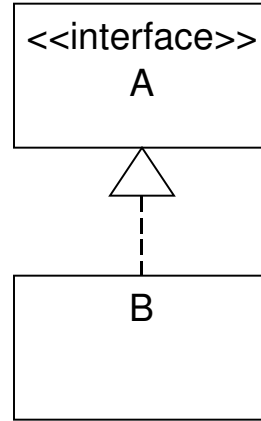


Isomorfisms 1/2

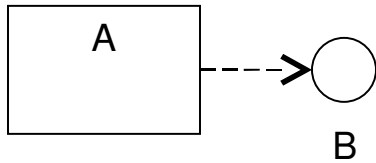
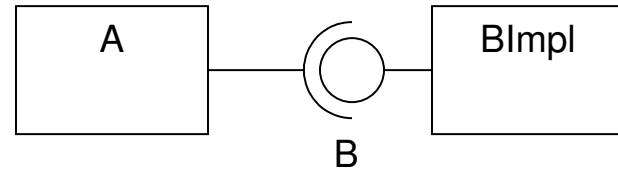
Lollipop style



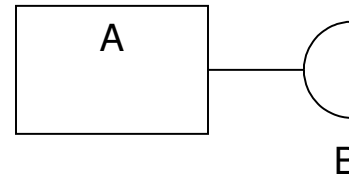
<==>def



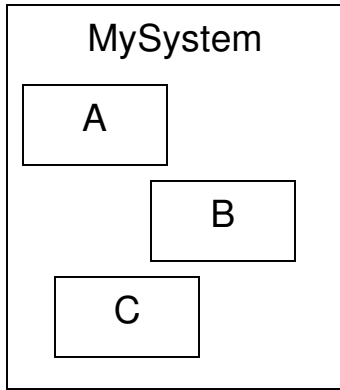
<==>def



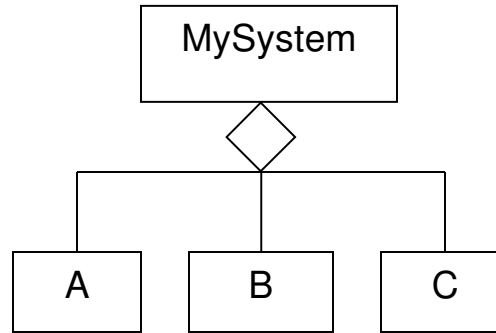
<==>def



Isomorfisms 2/2

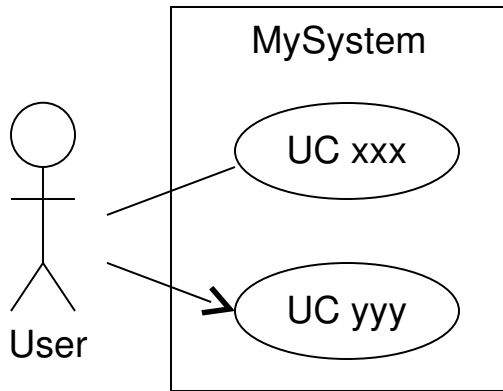


<==>def

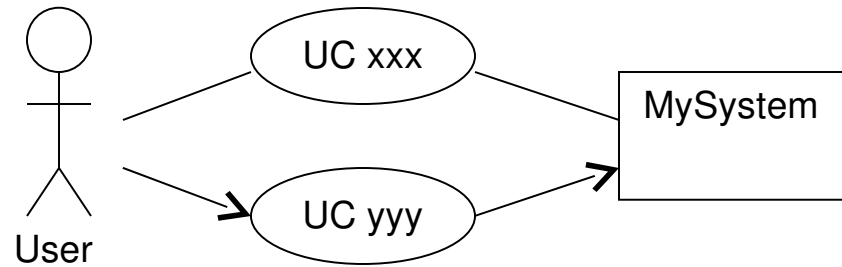


Use Case Diagram style

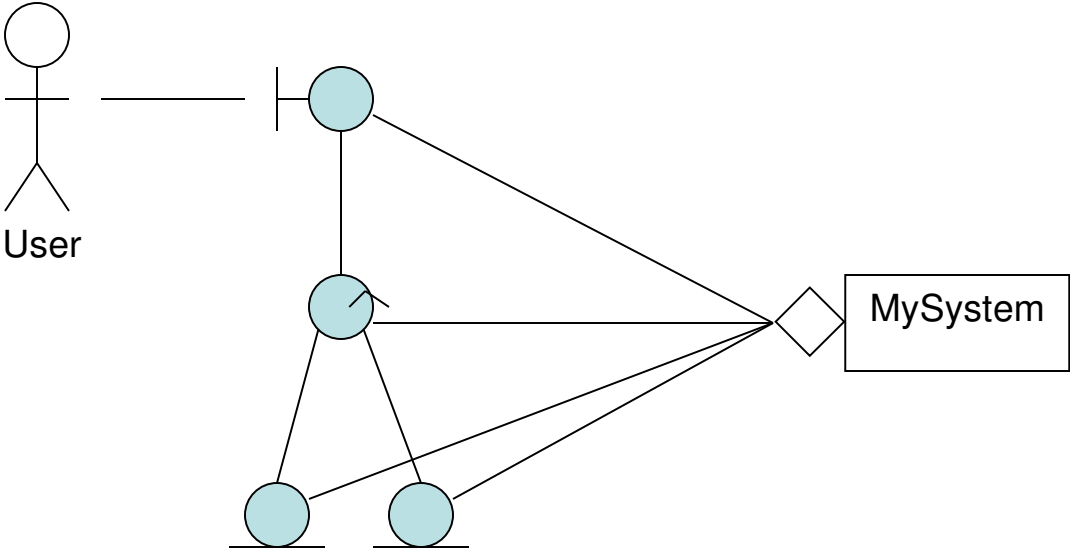
Catalysis style (superior)



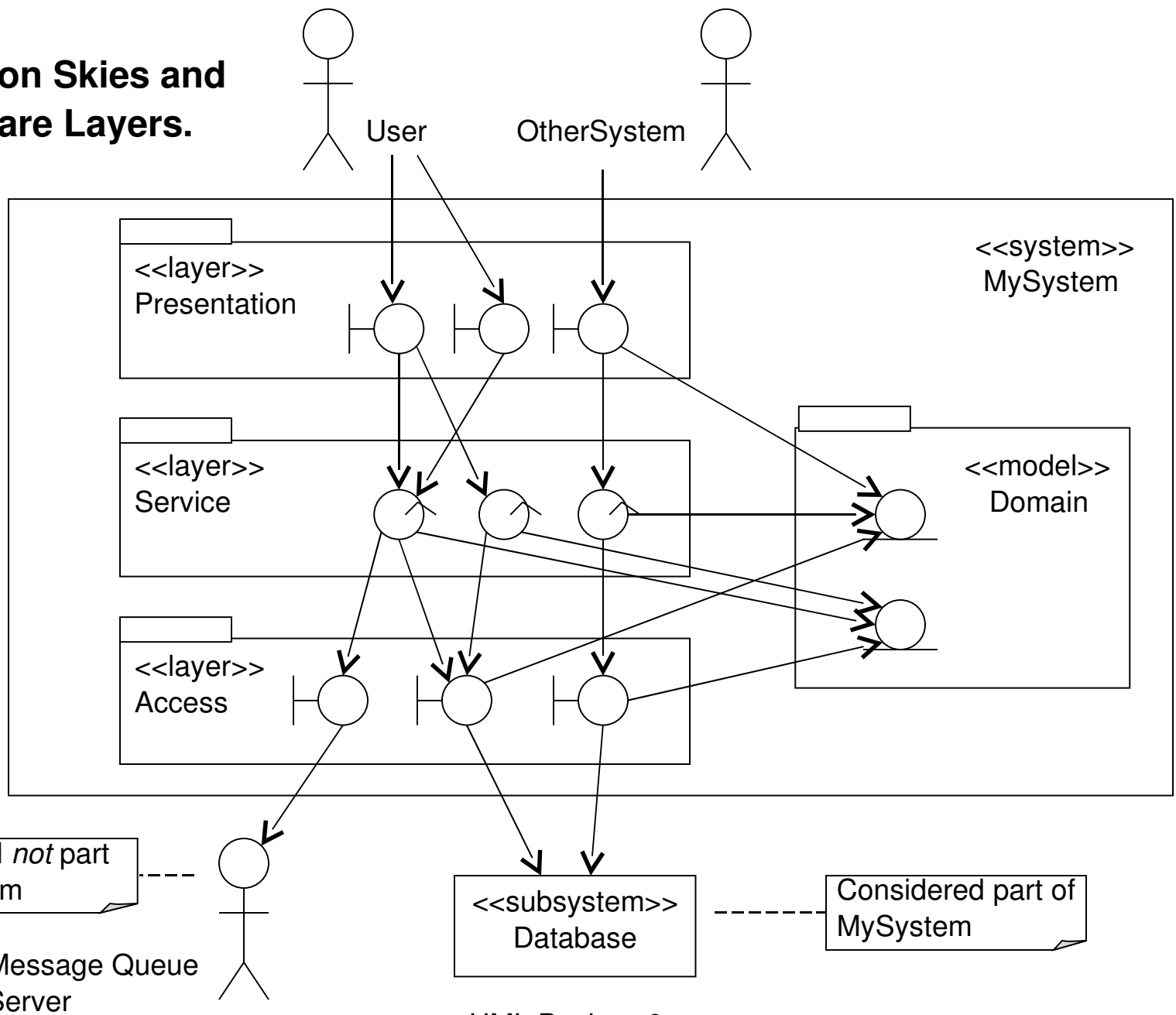
<==>def



Duck on Skies: any (Sub)System is an Aggregation of Analysis Classes.

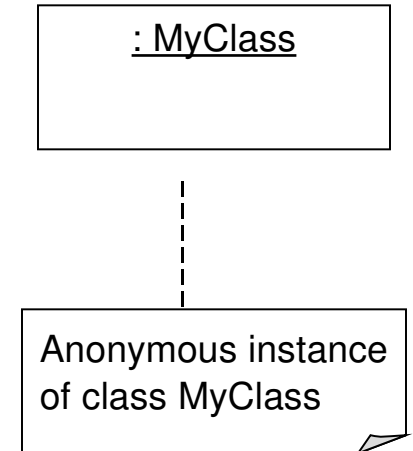
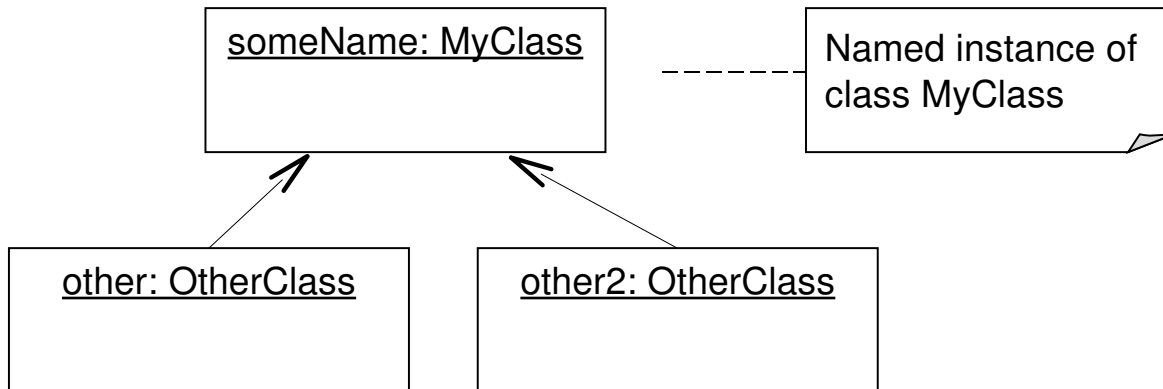


Duck on Skies and Software Layers.



Objects

- Definition: Object =def Runtime instance of a class.
- Object diagrams are similar to Class diagrams. Main difference: class and instance name (if any) is underlined.



Conventions

- Class name: noun, starts with a capital letter.
- Method name: verb, starts with a lower case letter.
- Instance name: noun, starts with a lower case letter.
- Variable name: = Instance name.

Further readings

Superb Modelling Method from Catalysis:

- <http://www.catalysis.org/books/ocf/ch01.pdf>
(see also <http://www.catalysis.org/books/ocf/index.htm>)

UML Reference Guides:

- http://sparxsystems.com.au/resources/uml2_tutorial
- <http://www.holub.com/goodies/uml>
- <http://www.agilemodeling.com/artifacts>

UML Tools:

- <http://www.umlet.com>