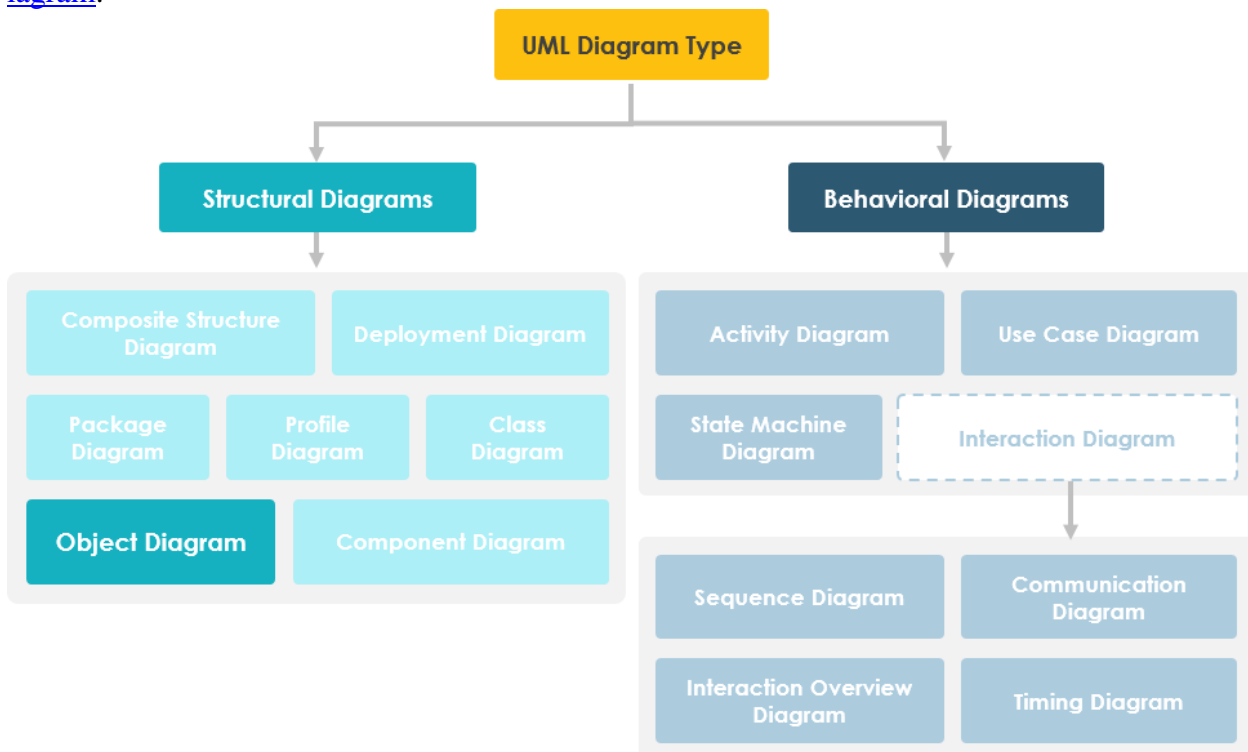


# What is Object Diagram?

Object is an instance of a particular moment in runtime, including objects and data values. A static [UML](#) object diagram is an instance of a [class diagram](#); it shows a snapshot of the detailed state of a system at a point in time, thus an object diagram encompasses objects and their relationships at a point in time. It may be considered a special case of a class diagram or a [communication diagram](#).

[Diagram](#).



## Purpose of Object Diagram

The use of object diagrams is fairly limited, mainly to show examples of data structures.

- During the analysis phase of a project, you might create a class diagram to describe the structure of a system and then create a set of object diagrams as test cases to verify the accuracy and completeness of the class diagram.
- Before you create a class diagram, you might create an object diagram to discover facts about specific model elements and their links, or to illustrate specific examples of the classifiers that are required.

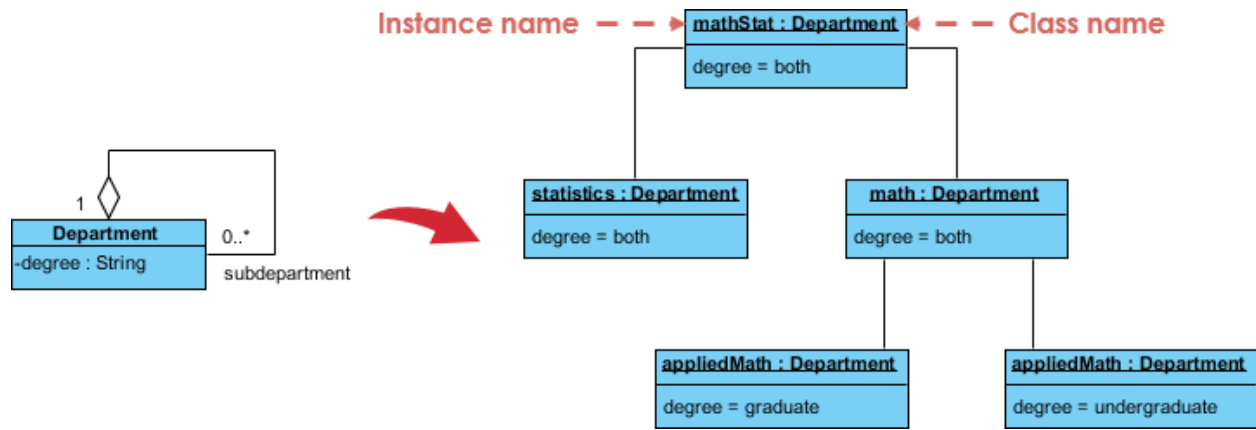
## Object Diagram at a Glance

An object diagram shows this relation between the instantiated classes and the defined class, and the relation between these objects in the system. They are be useful to explain smaller portions of

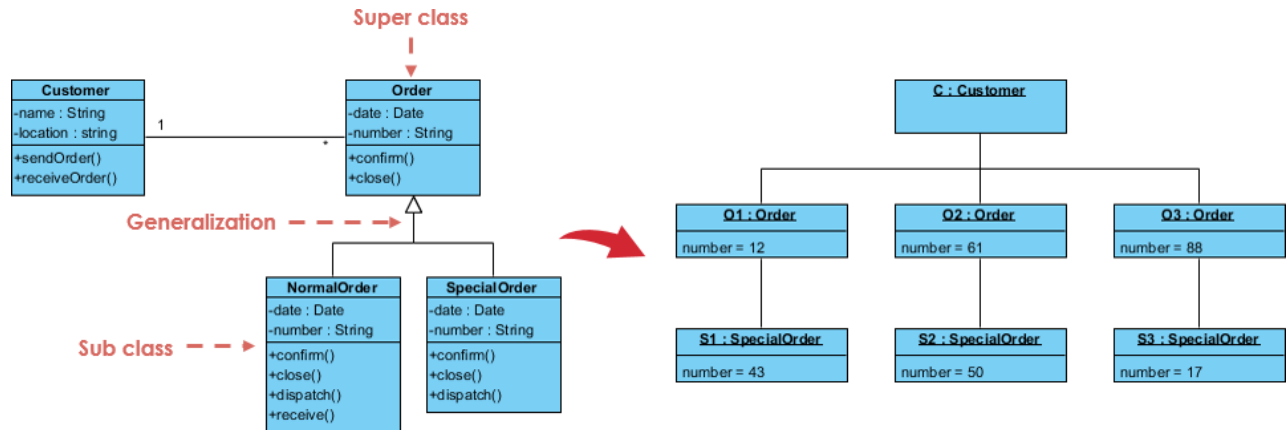
your system, when your system class diagram is very complex, and also sometimes modeling recursive relationship in diagram.

The best way to illustrate what an object diagram look like is to show the object diagram derived from the corresponding class diagram.

The following Order Management System shows their relationships. This small class diagram shows that a university Department can contain lots of other Departments and the object diagram below instantiates the class diagram, replacing it by a concrete example.

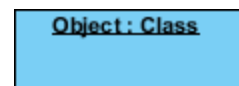


### Class to Object Diagram Example - Order System



### Basic Object Diagram Symbols and Notations

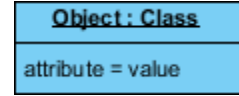
**Object Names:**



- Every object is actually symbolized like a rectangle, that offers the name from the object and its class underlined as well as divided with a colon.

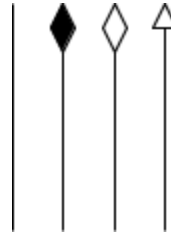
**Object Attributes:**

- Similar to classes, you are able to list object attributes inside a separate compartment. However, unlike classes, object attributes should have values assigned for them.

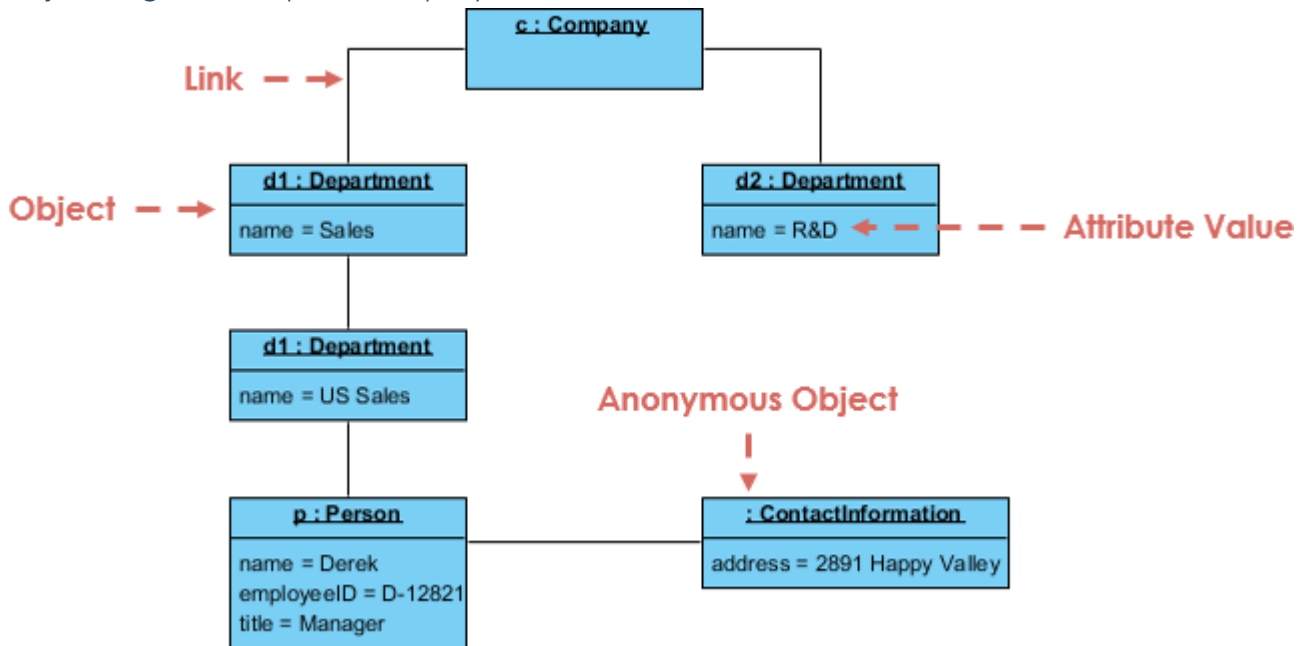


**Links:**

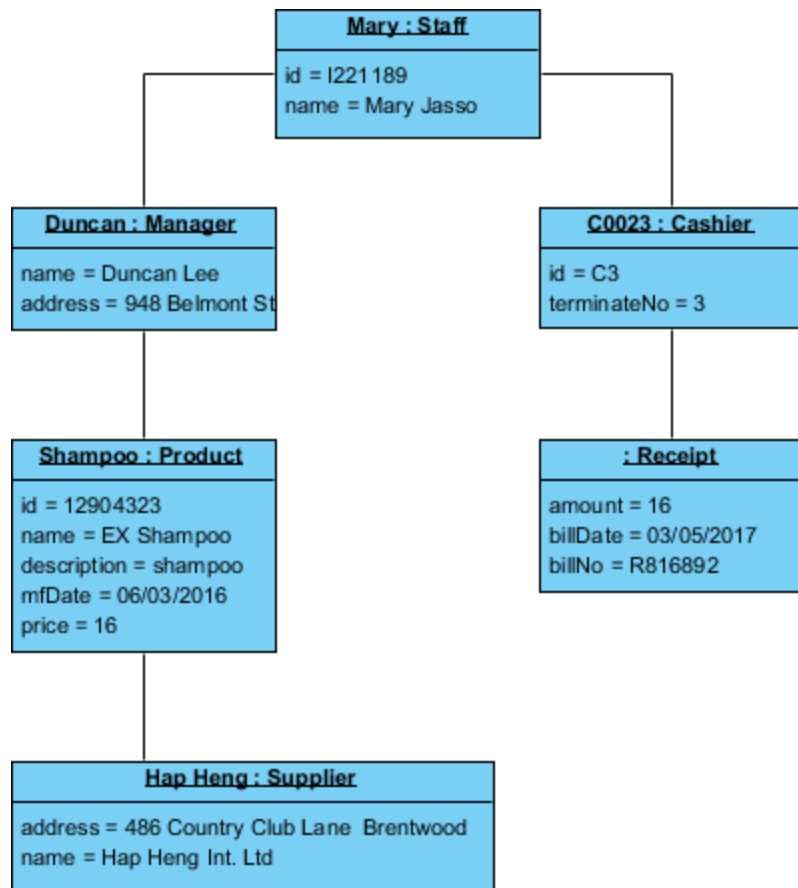
- Links tend to be instances associated with associations. You can draw a link while using the lines utilized in class diagrams.



Object Diagram Example I - Company Structure



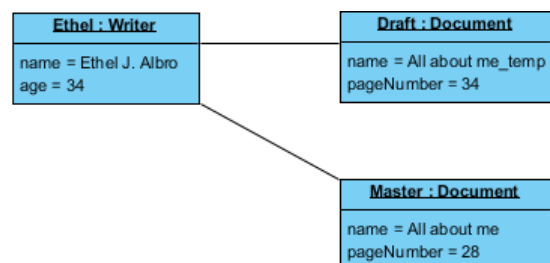
Object Diagram Example II - POS



Object Diagram Example III - Writer



Class Diagram



Object Diagram