

Encapsulation - revisited

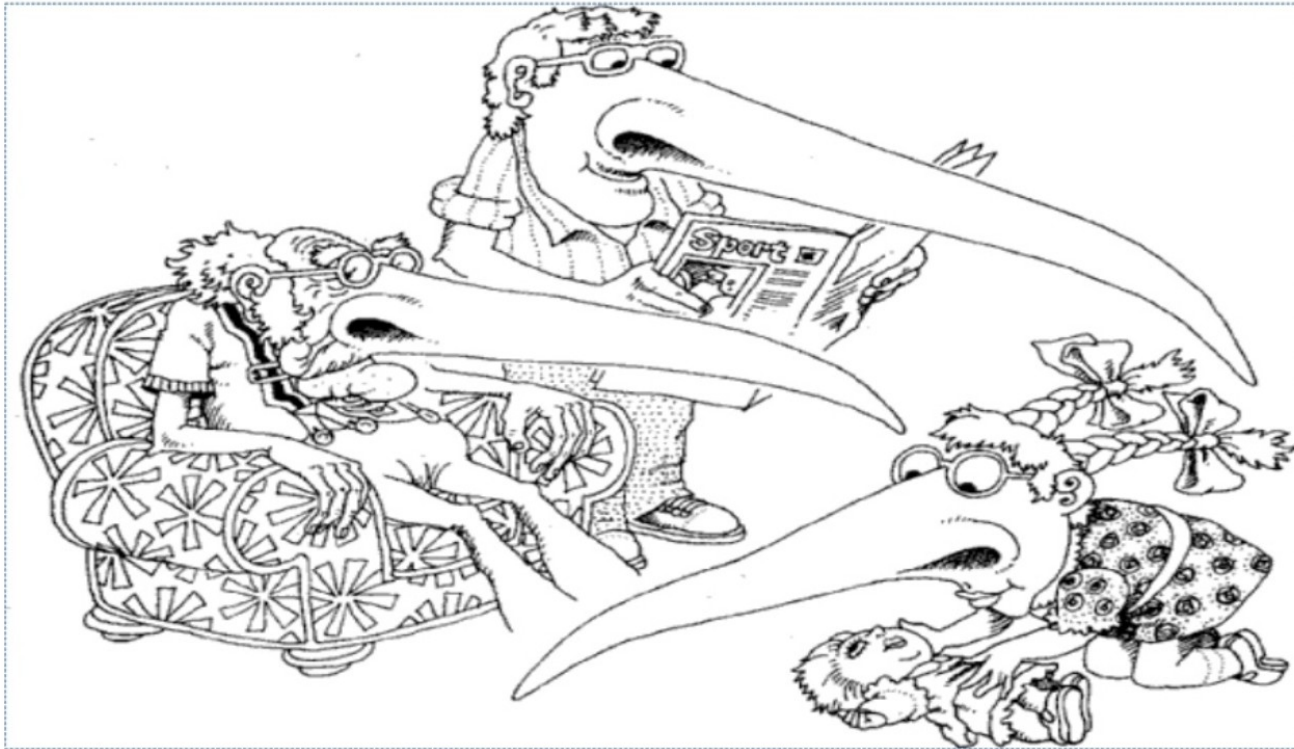
As a general rule:

- Attributes are declared private
- Methods are declared public
- This is so that other classes may use methods belonging to another class but may not see their attributes.
- This is called 'data hiding' or encapsulation.

Abstraction - revisited

- Abstraction by generalisation is a grouping by common characteristics.
- Once we start thinking about classes in this way, we can start to consider hierarchical relationships of the 'is a kind of' type.

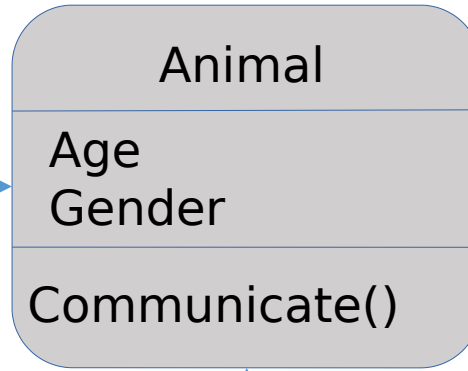
A subclass may inherit the structure and behavior of its superclass



Inheritance

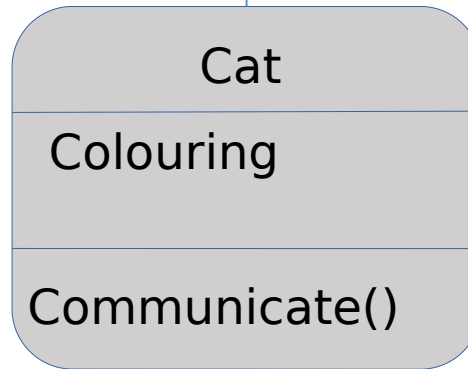
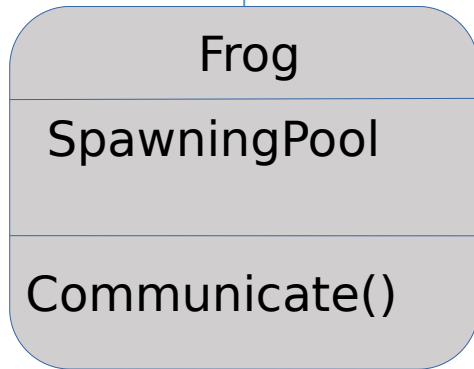
- Sub-classes of a parent (super) class can have their own attributes and methods but also use those of the parent.
- Sub-classes are also known as derived classes.

Superclass

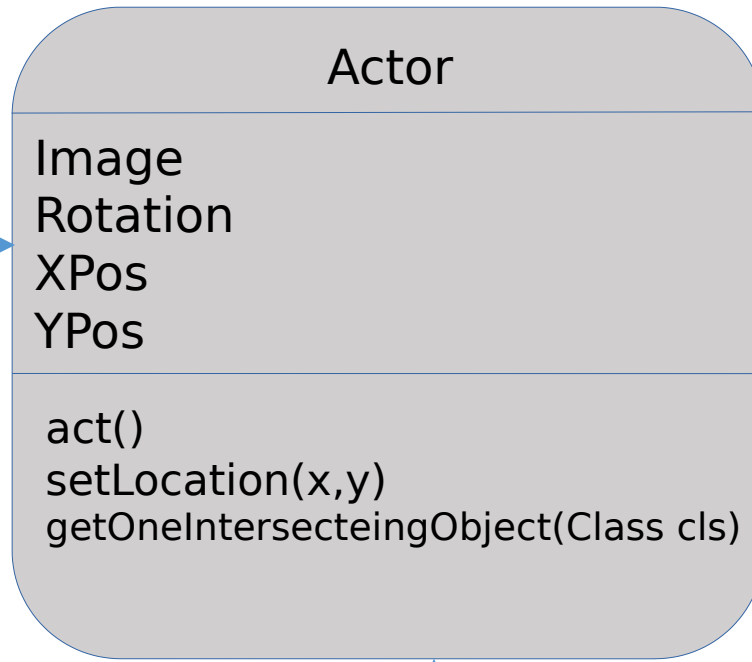


Communicate()
is **overridden**

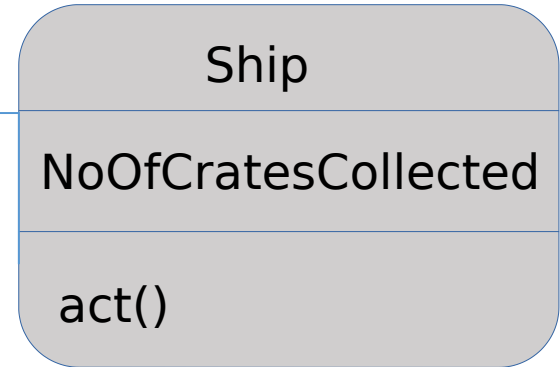
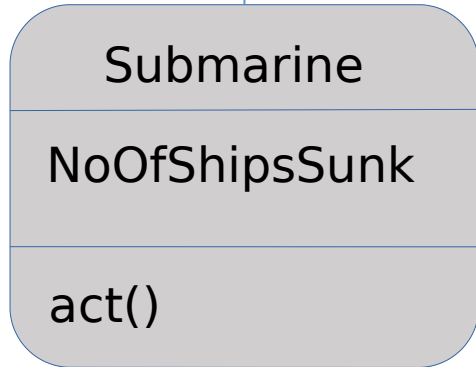
Subclass



Superclass



Subclass



act() is
overridden
act() is
polymorphic

Computer Science A Level

Home / My courses / Computing & IT / Computer Science A Level

NB:

Copy the code folders to your area on the N:\ drive

Java - Object Oriented

 Greenfoot Tutorials Session 1 - Ship Game Session 2 - AirRaid Session 3 - CannonGame Session 4 - Creating your own game Object-Oriented Theory - key terms

Avoid saving to your 'Documents' folder while some technical issues are being investigated