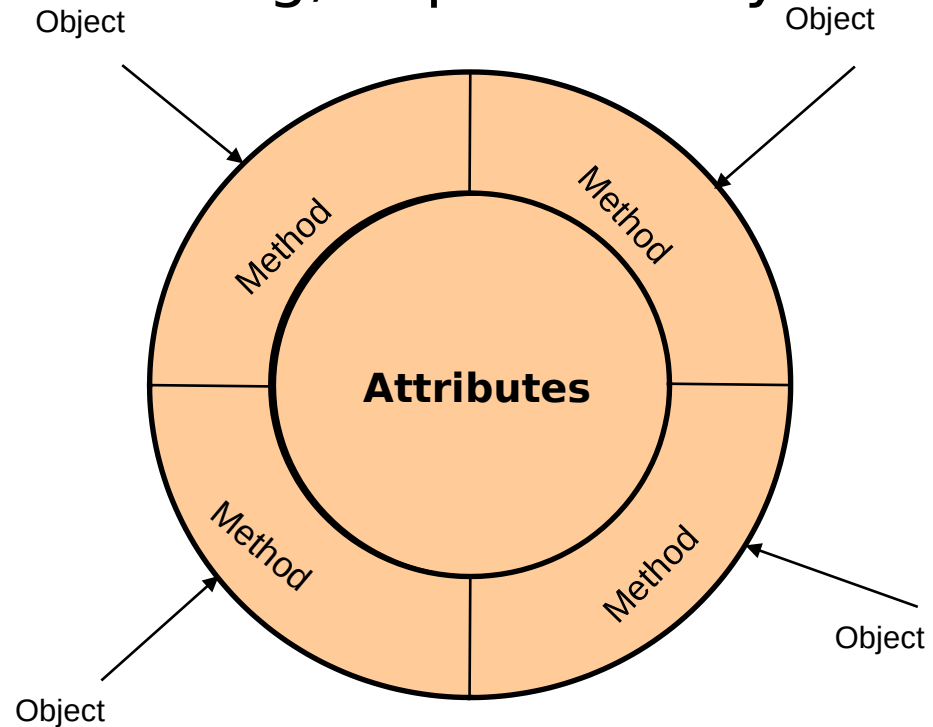


Types of programming language

Object-oriented languages with an understanding of classes, objects, methods, attributes, inheritance, encapsulation and polymorphism

What concept is this diagram showing, explain it in your own words.



Types of programming language

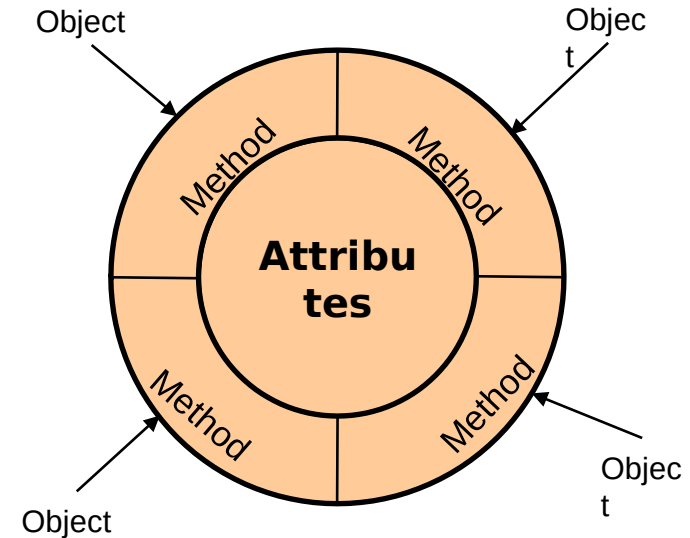
Object-oriented languages with an understanding of classes, objects, methods, attributes, inheritance, encapsulation and polymorphism

What concept is this diagram showing, explain it in your own words.

Encapsulation

*When attributes can only be accessed in an object by a method from it's own class, it is said to be **encapsulated**.*

*The concept of having private variables (data) in a class accessed only by methods is called **encapsulation**.*



Types of programming language

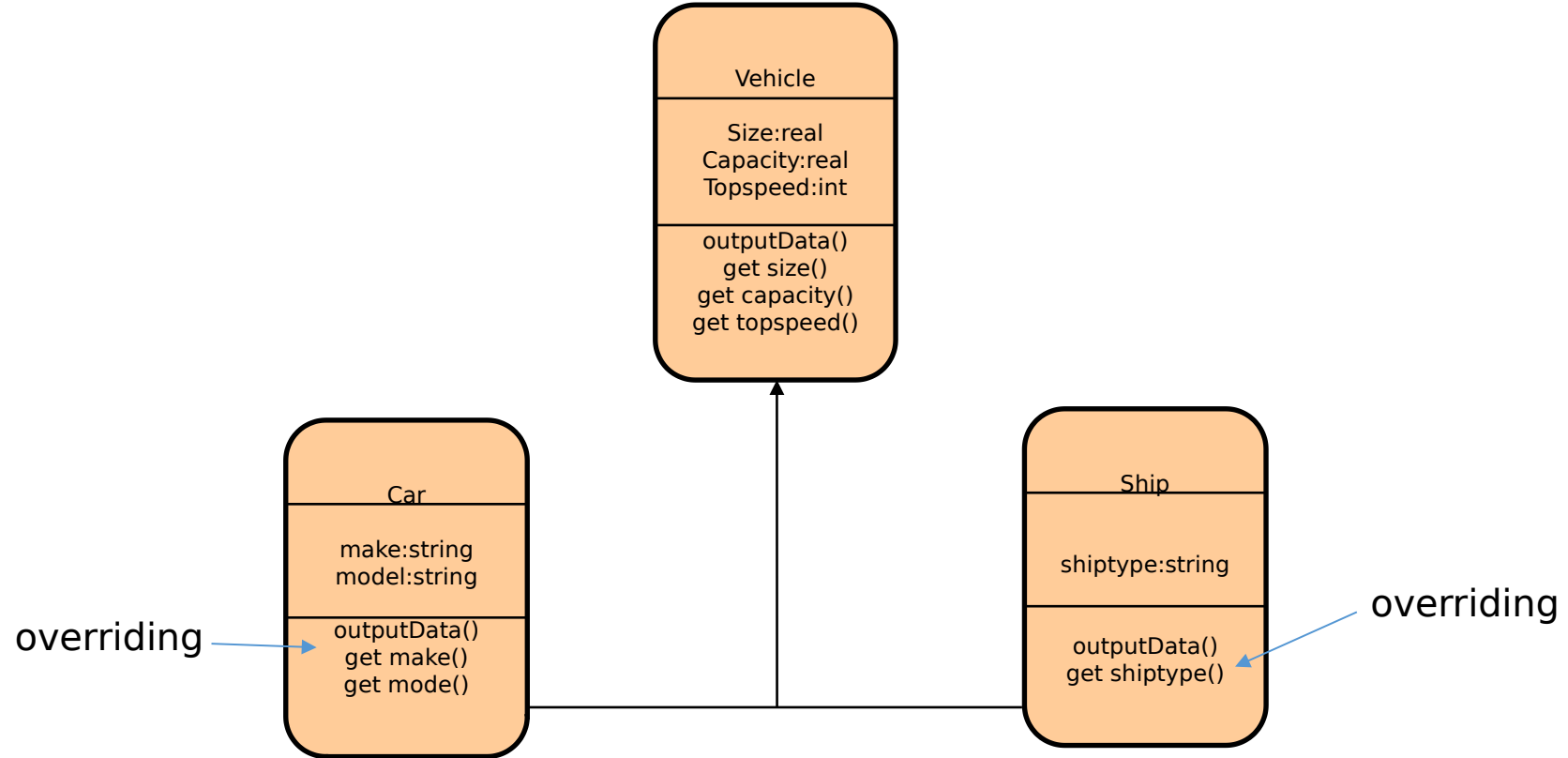
Object-oriented languages with an understanding of classes, objects, methods, attributes, inheritance, encapsulation and polymorphism

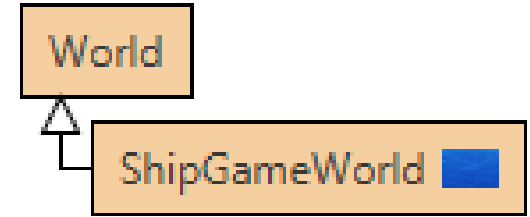
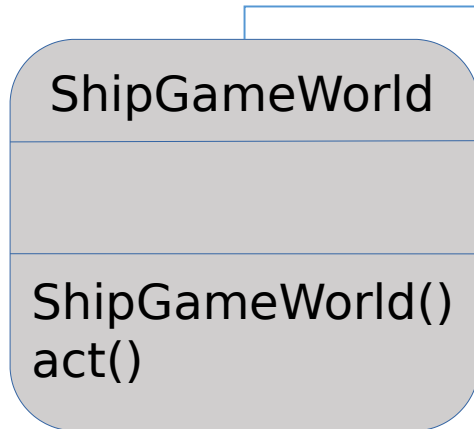
Draw an inheritance class diagram which shows “Vehicle” class. This should have the attributes Size, Capacity, Topspeed and methods to retrieve these values and one called outputData(). Show two subclasses, one “Car” and one “Ship”, select some appropriate additional attributes for these classes and any new methods needed. Mark clearly which methods are overriding in the subclasses.

If you finish this in time add Classes SeaGoingVassal and Sailing Ship

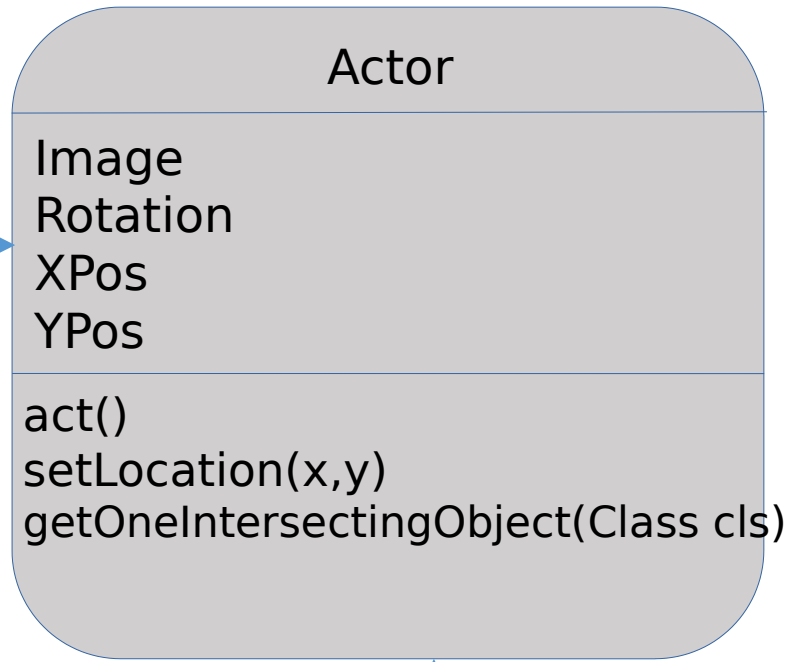
Types of programming language

Object-oriented languages with an understanding of classes, objects, methods, attributes, inheritance, encapsulation and polymorphism

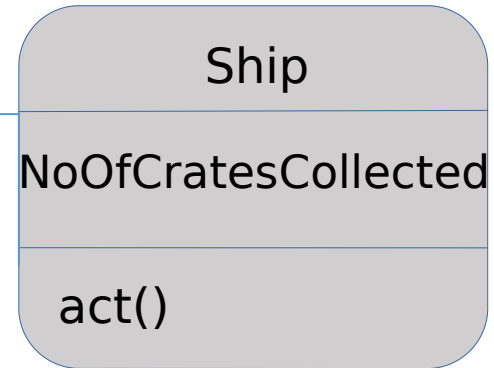
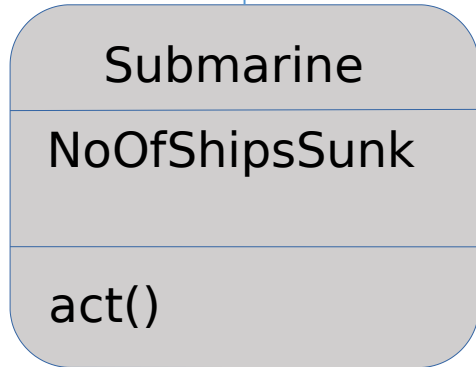




Superclass



Subclass



act() is
overridden
act() is
polymorphic

Computer Science A Level

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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