# Java Inheritance

## Java Inheritance (Subclass and Superclass)

In Java, it is possible to inherit attributes and methods from one class to another. We group the "inheritance concept" into two categories:

- **subclass** (child) - the class that inherits from another class
- **superclass** (parent) - the class being inherited from

To inherit from a class, use the `extends` keyword.

In the example below, the `Car` class (subclass) inherits the attributes and methods from the `Vehicle` class (superclass):

## Example

```java
class Vehicle {

  protected String brand = "Ford";        // Vehicle attribute

  public void honk() {                     // Vehicle method

    System.out.println("Tuut, tuut!");

  }

}


class Car extends Vehicle {

  private String modelName = "Mustang";    // Car attribute

  public static void main(String[] args) {


    // Create a myCar object

    Car myCar = new Car();
```

```java
    // Call the honk() method (from the Vehicle class) on the myCar object
    myCar.honk();


    // Display the value of the brand attribute (from the Vehicle class)
and the value of the modelName from the Car class
    System.out.println(myCar.brand + " " + myCar.modelName);
  }

}
```