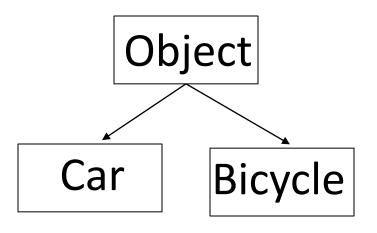
New Idea – Object Class

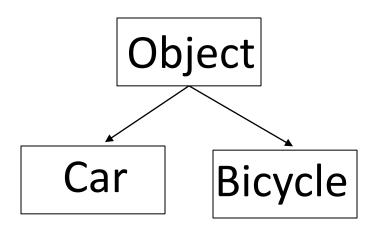
Mr. Neat Java

Big Idea in Java... Inheritance

- Mechanism to make a group of different objects that have something in common
- Mechanism to make a more specialized class from a more general class (eg, Car with person in it)
- The Object class is the mother of all classes
- Family trees help to understand

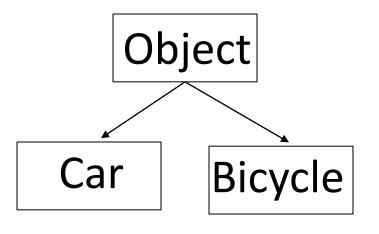


A Car "is-a" Object A Bicycle "is-a" Object Every class "is-a" Object



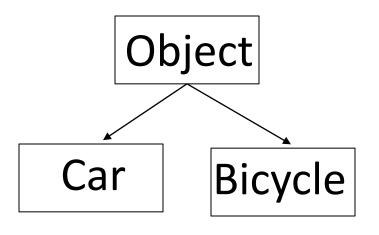
Can do this:

Object tom = new Car(43, 21,"joe",Color.RED,9);



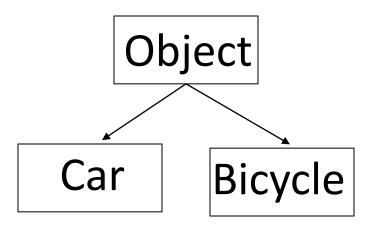
Object tom = new Car(43, 21,"joe",Color.RED,9);

Can put any class here



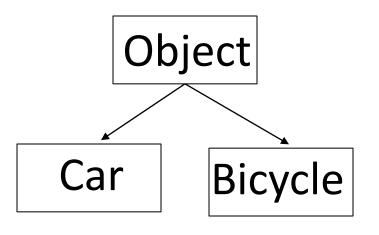
Object tom = new Car(43, 21,"joe",Color.RED,9);

Can put any class here. HOWEVER, can only use Object methods on tom!



Object tom = new Car(43, 21,"joe",Color.RED,9);

There is only one Object method...toString()!!!



Object tom = new Car(43, 21,"joe",Color.RED,9);

System.out.println(tom.toString());

Lab

- Make 100 of your Car and your neighbors Car (100 total)
- Try to recycle each Car
- Make each Car have:
 - Random colors
 - Random names
 - Random location
 - Random speeds

hints

- Make an array of 100 Objects
- Fill array with both Cars
- Try to move them
- If you can't, try to do something to them??