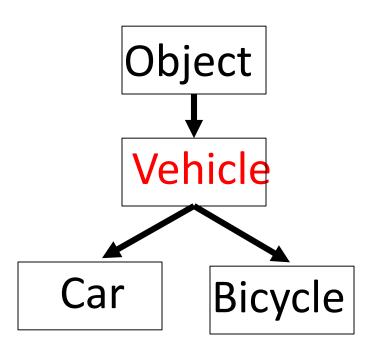
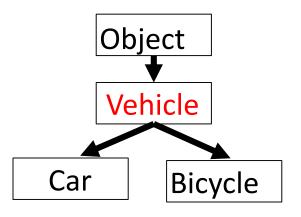
New Idea – Abstract Class

Mr. Neat Java

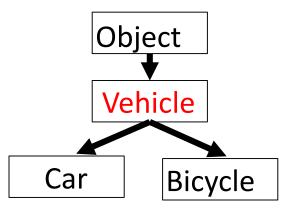
Big Idea in Java... Inheritance

- 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



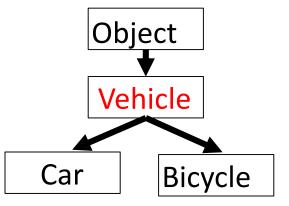


- Make a new file called Vehicle
- Add abstract methods (methods
 Vehicle will use)
- Extend Cars and Bicycles



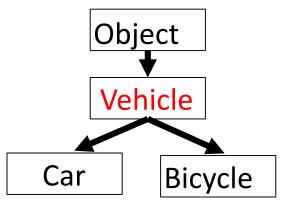
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```
public abstract class Vehicle
{
```



- Make a new file called Vehicle
- Add abstract methods (methods
 Vehicle will use)
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```
public abstract class Vehicle
{
    public abstract void driveRandom();
    public abstract void draw();
```



- Make a new file called Vehicle
- Add abstract methods (methods
 Vehicle will use)
- Extend Cars and Bicycles

public class Bicycle extends Vehicle
{

. . .

Lab

- Make 100 Bicycles & Cars (total)
- recycle each Car and Bike
- Make each Car & Bike have:
 - Random colors
 - Random names
 - Random location
 - Random speeds

hints

- Make an array of 100 Vehicles
- Fill array with Cars and Bicycles
- Recycle them