

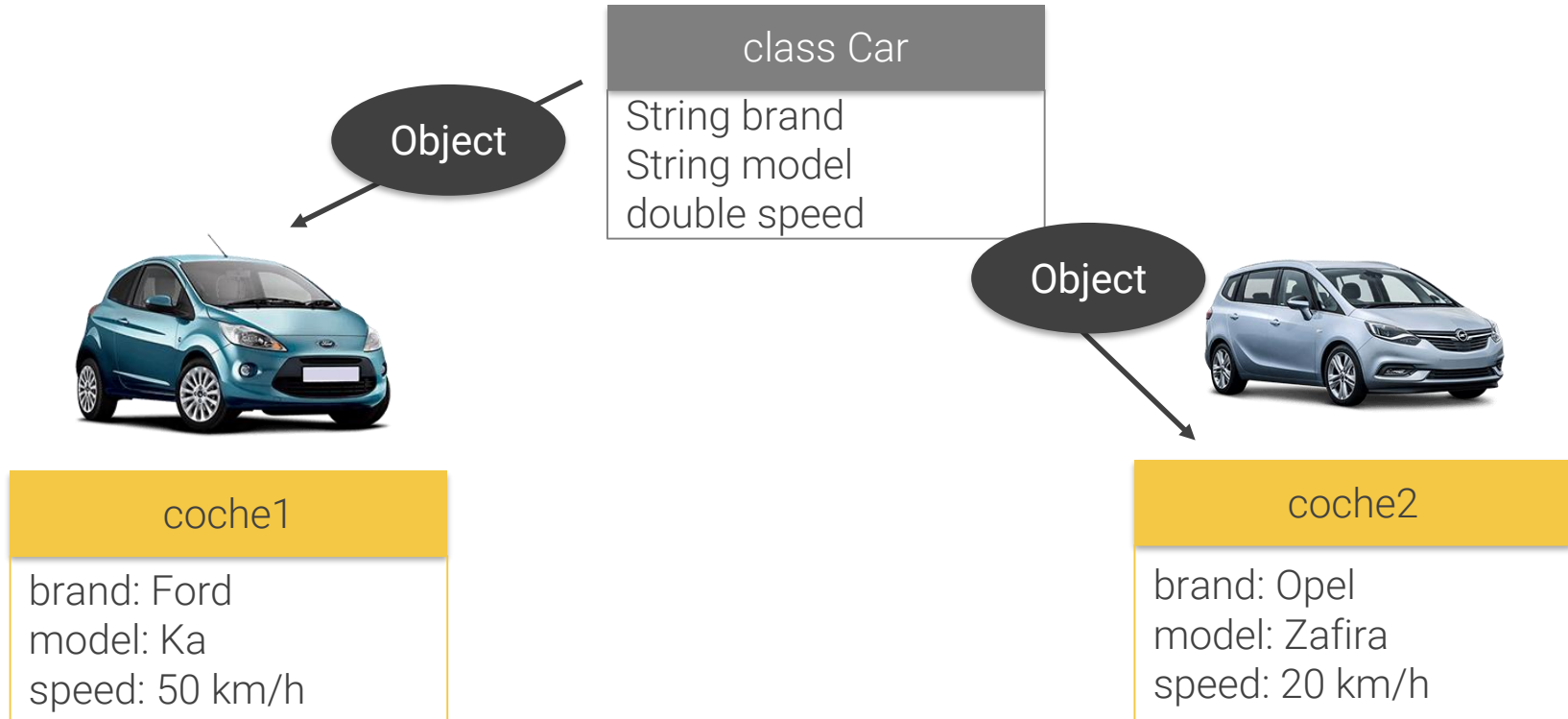


1. Object's life-time
2. Static fields
3. Static methods

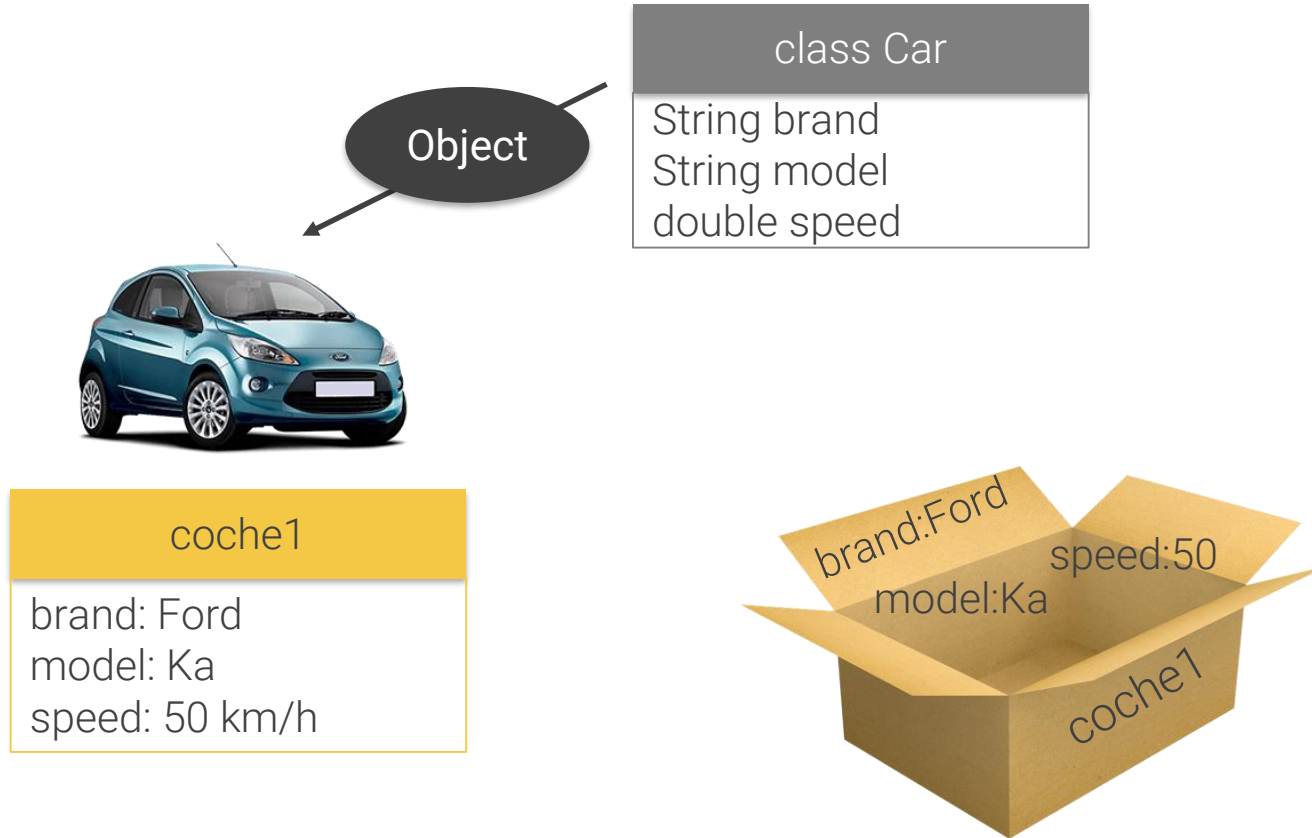
Static fields and methods

Object's life-time

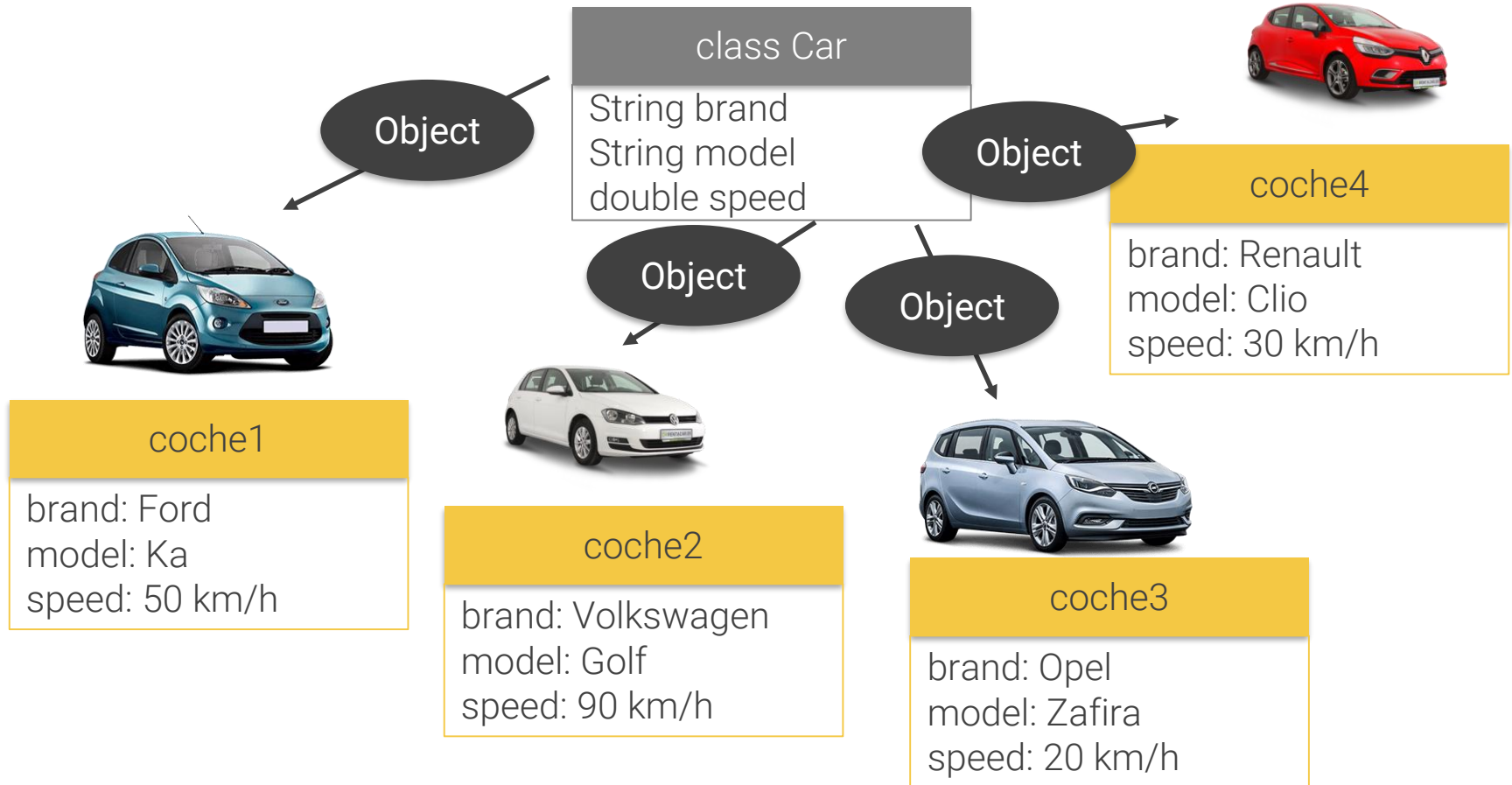
1. Object's life-time



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1. Object's life-time

```
class Car
```

```
String brand
```

```
String model
```

```
double speed
```

1. Object's life-time

```
public class Main{
```

```
...
```

```
public void method(){
```

```
...
```

```
Car coche1 = new Car();
```

```
coche1.speed = 50;
```

```
...
```

```
}
```

```
}
```



Main.java

1. Object's life-time

```
public class Main{
```

```
...
```

```
public void method(){
```

```
...
```

```
Car coche1 = new Car();
```

```
coche1.speed = 50;
```

```
...
```

```
}
```

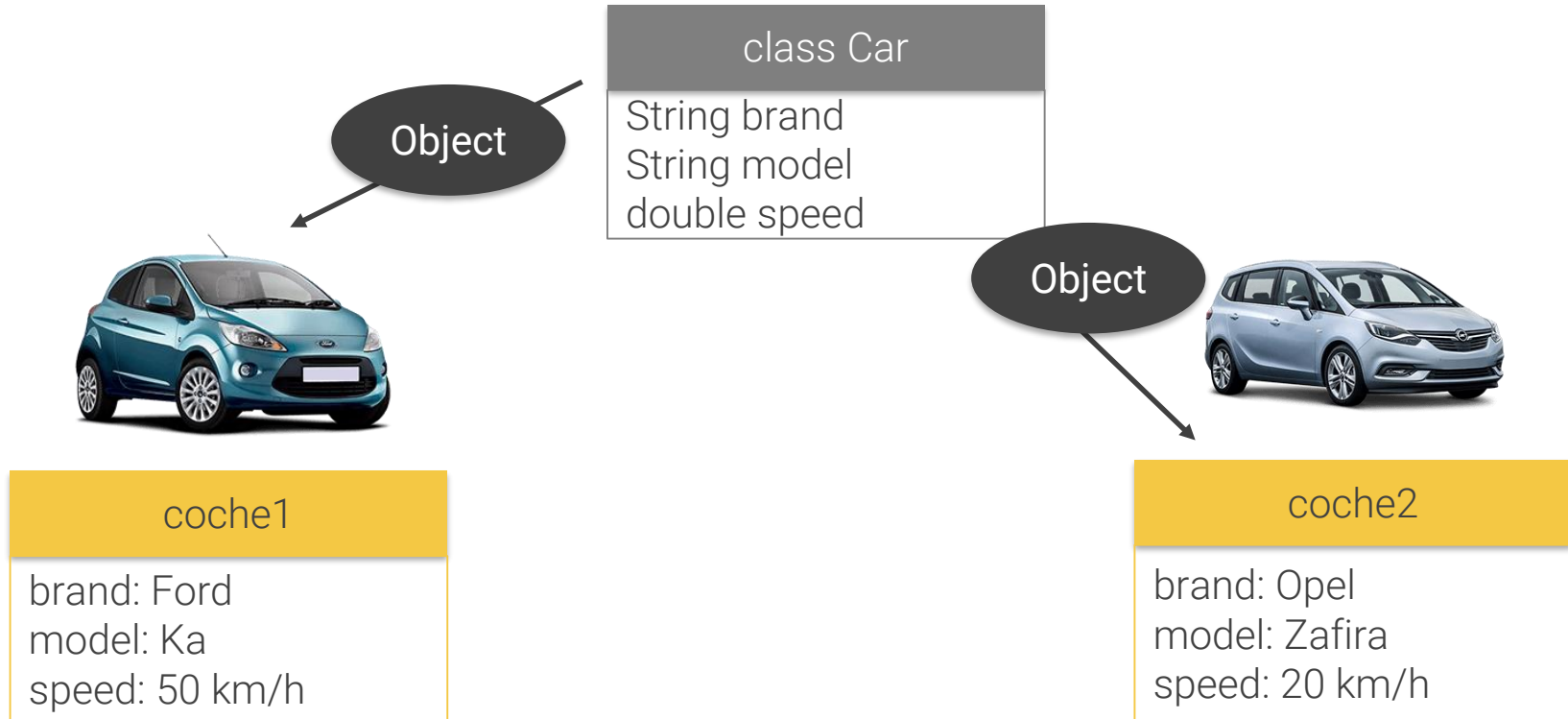
```
coche1 ??
```

```
}
```



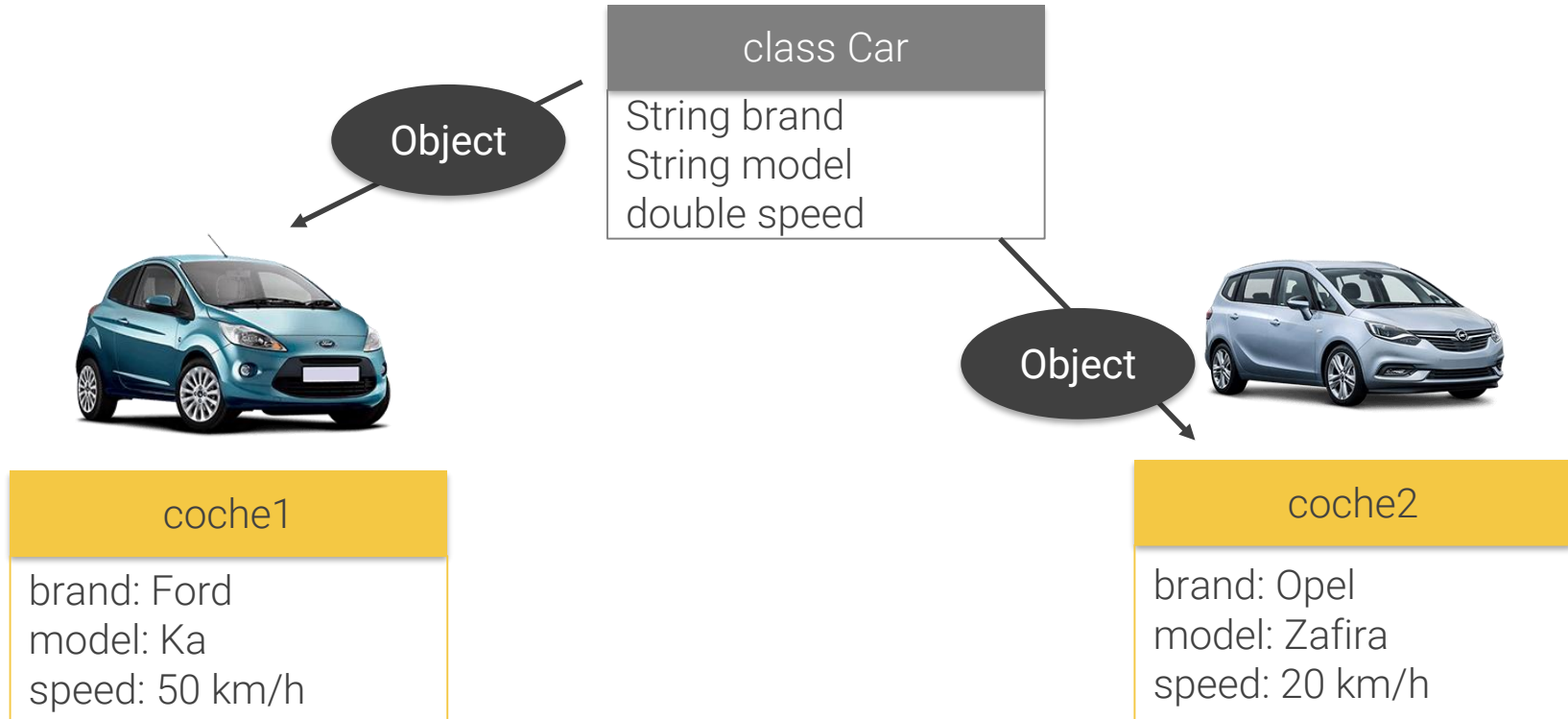
Main.java

1. Object's life-time

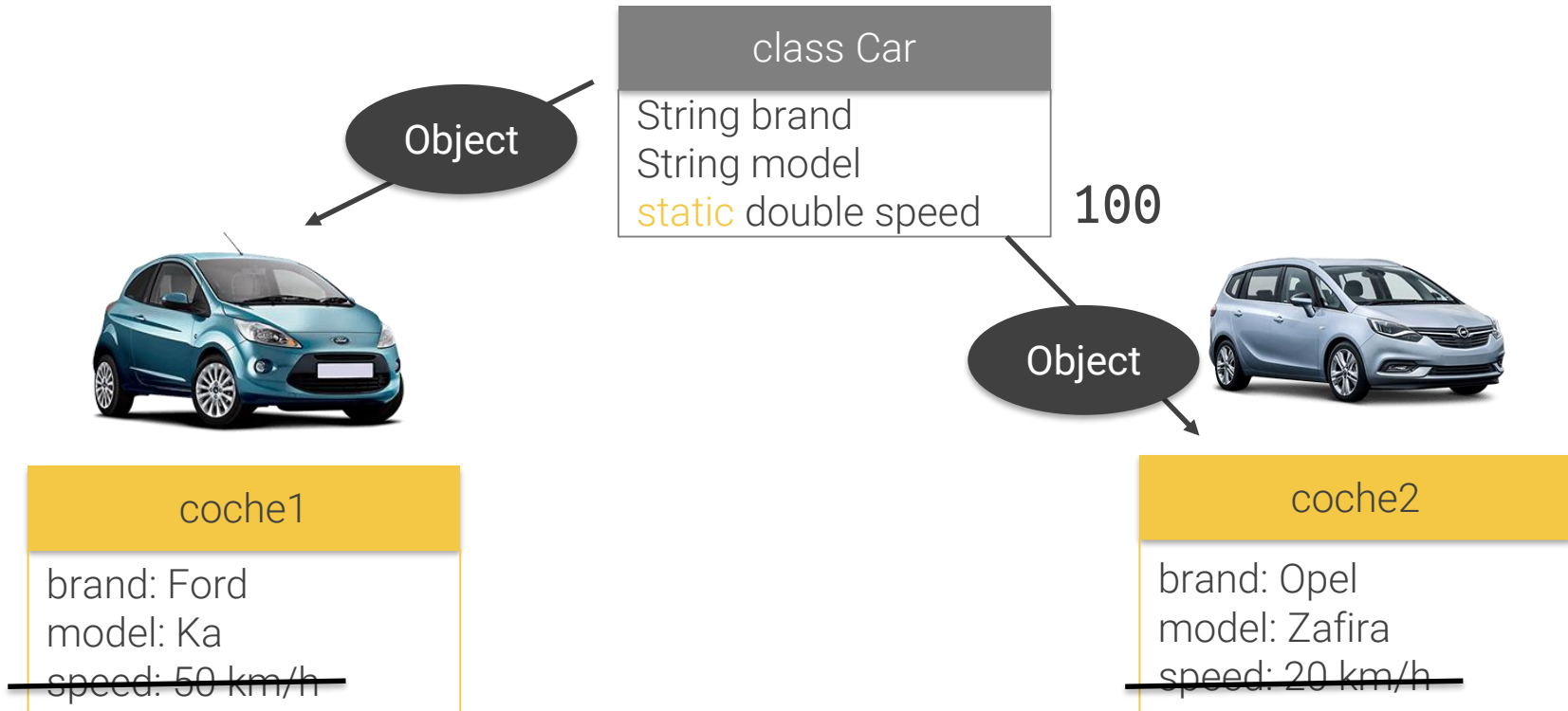


Static fields

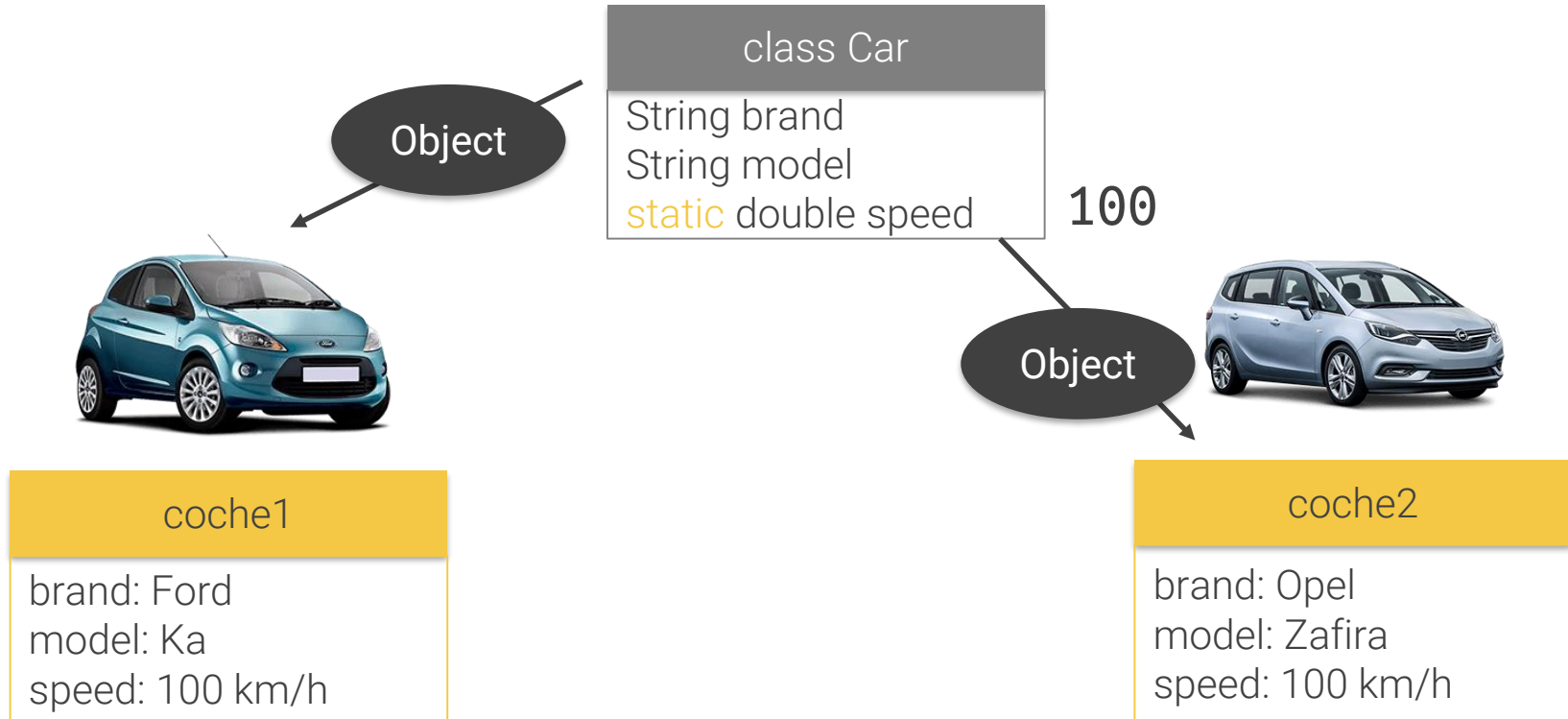
2. Static fields



2. Static fields



2. Static fields

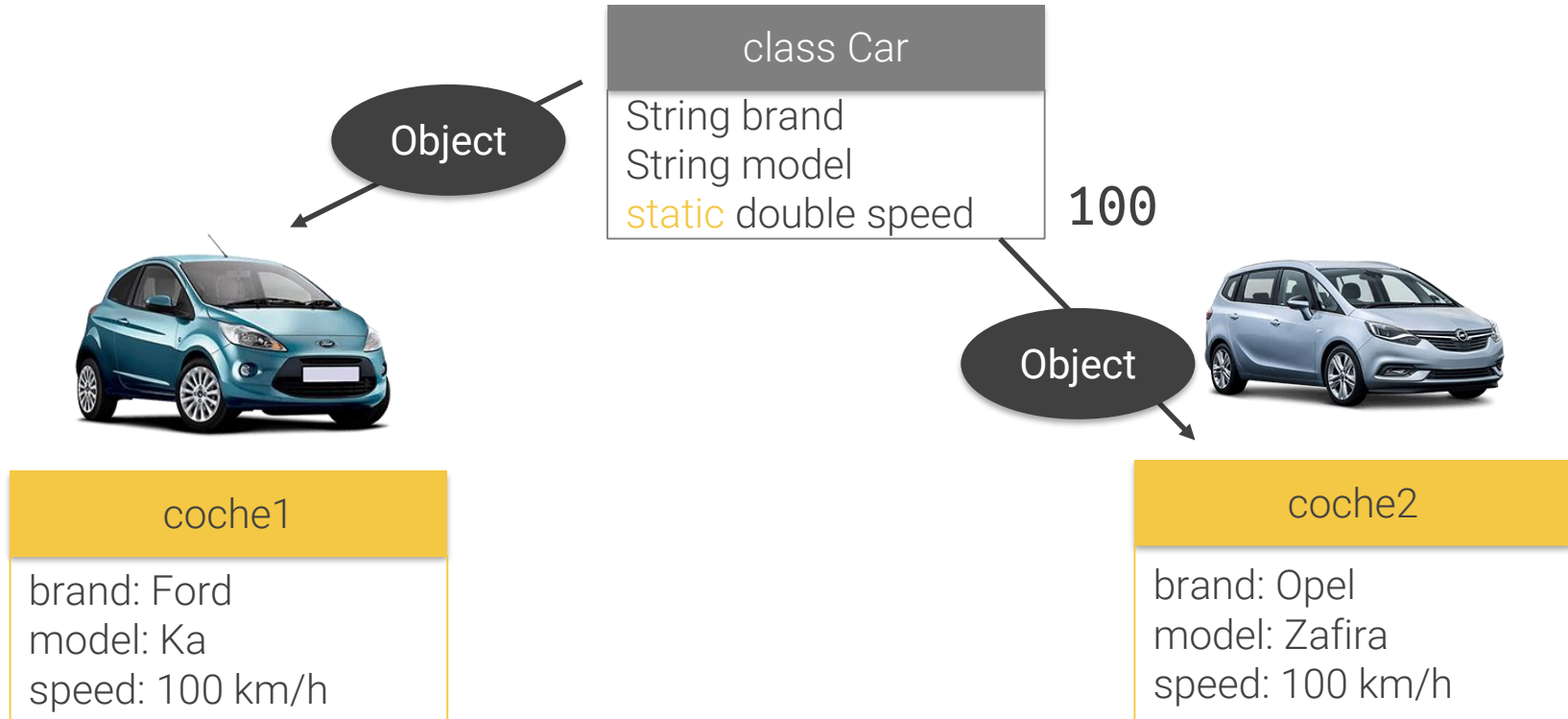


2. Static fields

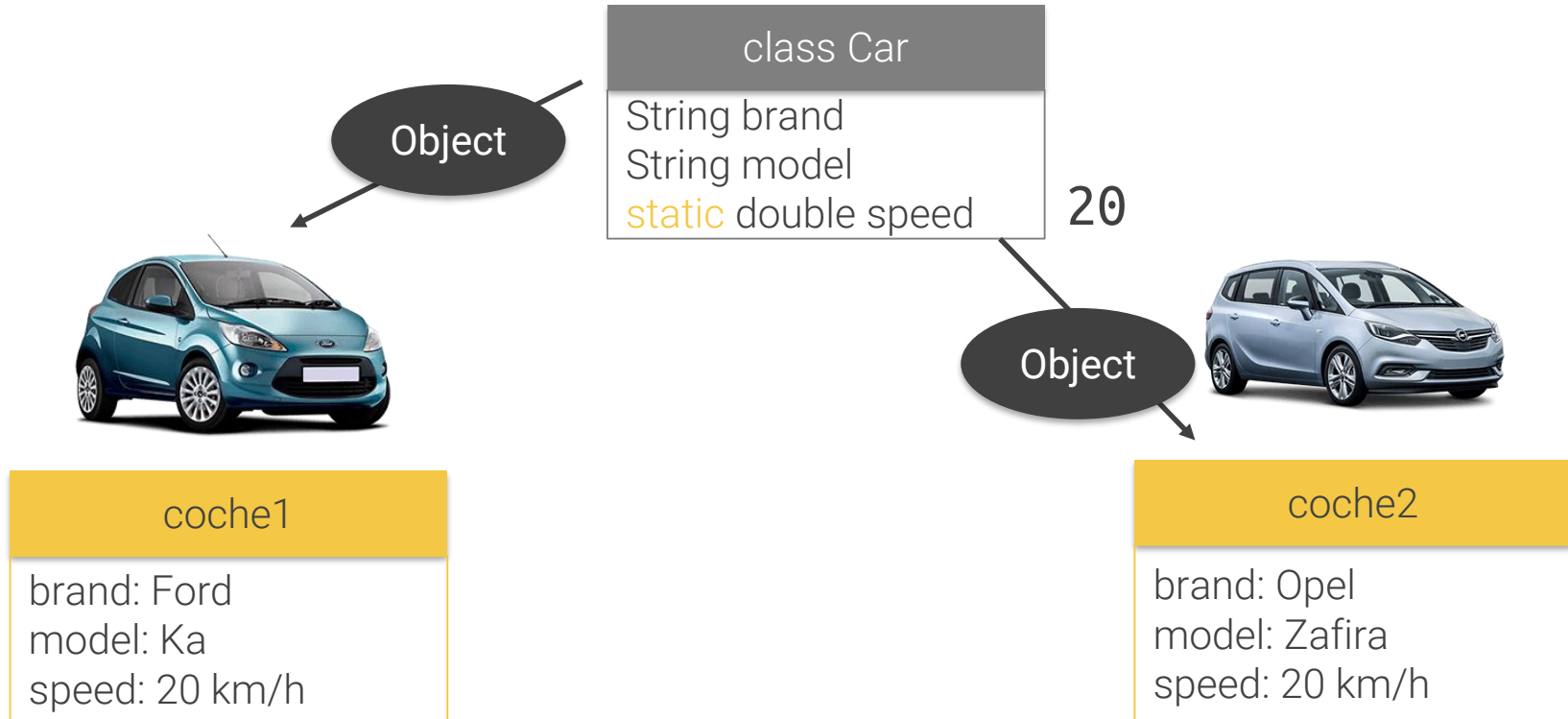
```
class Car
String brand
String model
static double speed
```

100

2. Static fields



2. Static fields



2. Static fields

```
public class Main{  
  
    ...  
  
    public void method(){  
        ...  
        Car coche1 = new Car();  
        coche1.speed = 50;  
        ...  
    }  
}
```

Main.java

2. Static fields

```
public class Main{  
  
    ...  
  
    public void method(){  
        ...  
        Car.speed = 50;  
        ...  
    }  
}
```

Main.java

2. Static fields

```
public class Main{  
  
    ...  
  
    public void method(){  
        ...  
        Car.speed = 50;  
        ...  
    }  
}
```

Main.java

2. Static fields

```
public class Main{  
  
    ...  
  
    public void method(){  
        ...  
        Car coche1 = new Car("Ford","Ka");  
        Car coche2 = new Car("Opel","Zafira");  
        Car.speed = 50;  
        System.out.println(coche1.speed); //Prints 50  
        System.out.println(coche2.speed); //Prints 50  
        ...  
    }  
  
}
```

Main.java

Static methods

3. Static methods

```
public class Calculator{  
  
    public static int add(int a, int b){  
        return a + b;  
    }  
    public static int subtract(int a, int b){  
        return a - b;  
    }  
}
```

Calculator.java

3. Static methods

```
public class Calculator{  
  
    public static int add(int a, int b){  
        return a + b;  
    }  
    public static int subtract(int a, int b){  
        return a - b;  
    }  
}
```

Calculator.java

3. Static methods

```
public class Calculator{  
  
    public static int add(int a, int b){  
        return a + b;  
    }  
    public static int subtract(int a, int b){  
        return a - b;  
    }  
}
```

Calculator.java

Using a static method

```
public class Calculator{  
  
    public static int add(int a, int b){  
        return a + b;  
    }  
    public static int subtract(int a, int b){  
        return a - b;  
    }  
}
```

```
int r = Calculator.add(3,4);
```

“Después de subir una gran colina, uno encuentra
que hay muchas más colinas que subir.”

*Nelson Mandela, activista, abogado y político sudafricano conocido principalmente por
luchar pacíficamente contra la segregación racial en Sudáfrica*

