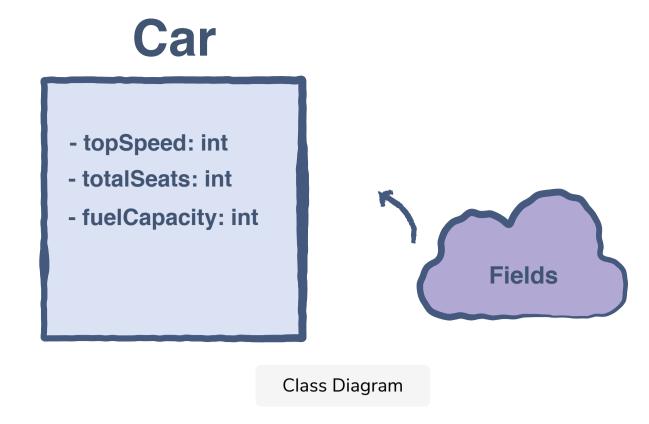
Java Fields

Java fields are actually the *data members* inside a class. For instance, in a class representing Car, the Car class might contain the following fields:

- topSpeed
- totalSeats
- fuelCapacity



The Java class could be defined like this:

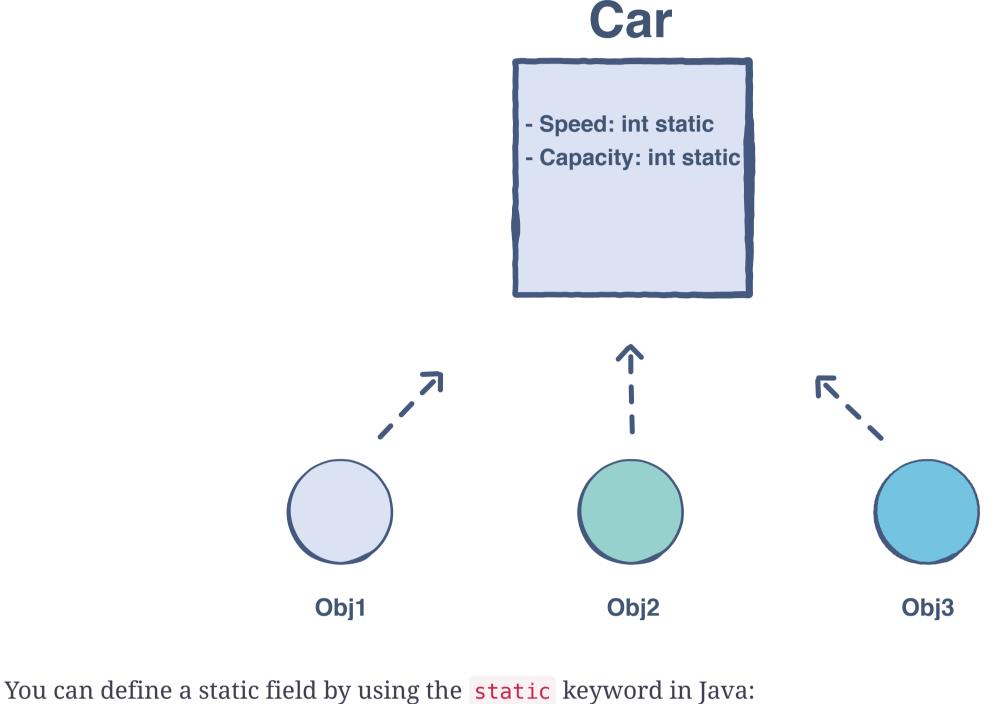
```
public class Car {
                                                                                                  C
 int topSpeed;
 int totalSeats;
 int fuelCapacity;
```

Java supports static and non-static fields.

Static and Non-static Fields

Static Field#

A static field resides in a class. All the objects we create will share this field and its value.



1 class Car {

static fields of a class by just writing the class name before the field:

```
// static fields
         static int speed;
         static int capacity;
    7 }
Static fields reside in the class. We don't need an instance of the class to access static fields. We can access the
```

// Static fields are accessible in the main System.out.println(Car.speed);

```
Non-Static Field
```

Non-static fields are located in the instances of the class. Each instance of the class can have its own values for

class Car {

int speed;

System.out.println(obj1.capacity);

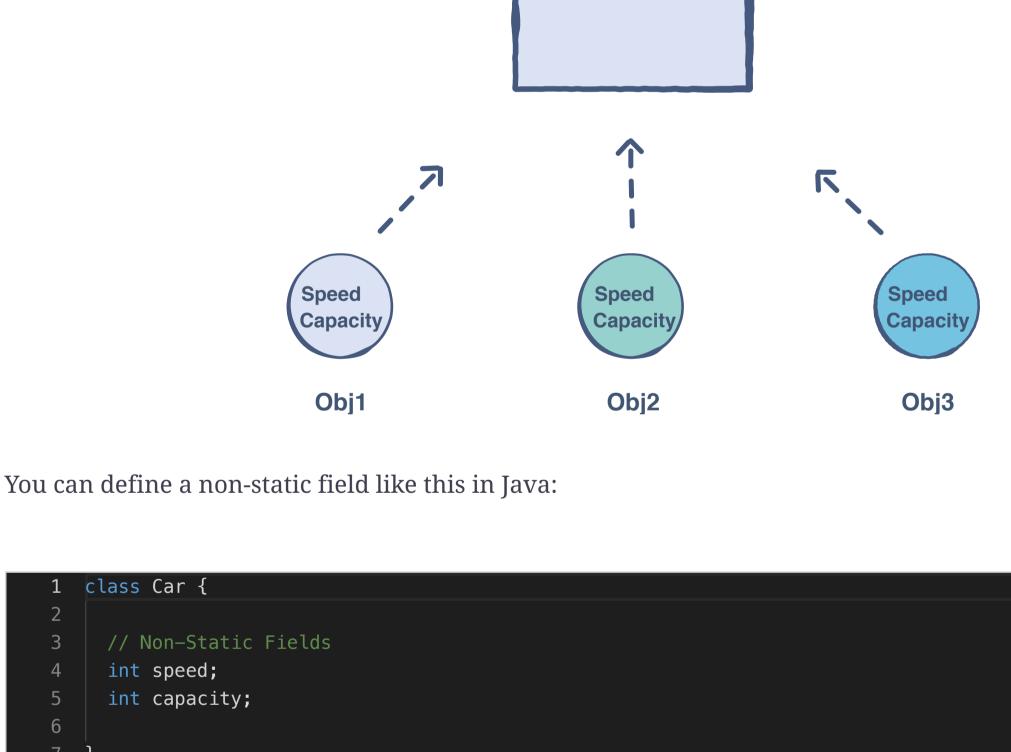
these fields.

3 System.out.println(Car.capacity);

Car

- Speed: int

- Capacity: int



Car obj1 = new Car(); C System.out.println(obj1.speed);

As non-static fields doesn't reside in the class, So we need an instance of the class to access non-static fields.

```
Final Fields
A final field cannot have its value changed once it is assigned. We can make a field final by using the keyword
final.
Here is an example in Java:
```

class Car { // Final field of capacity = 4

Run

```
// Now Capacity can nerver be changed from 4
        // to some other value throught the program
        final int capacity = 4;
    5
Car class has the capacity equals to 4 which can't be changed. If you try to do so, you will get a compilation
error:
```

can't assign a value to final variable capacity. You can check it on your own in the following code widget:

```
class Car {
```

// Final variable capacity final int capacity = 4; class Demo { public static void main() { 10 11 Car car = new Car(); 12 car.capacity = 5; // Trying to change the capacity value 13 14 15 16

Reset

Save