

Recap

Objects → Fields: Describe the properties of objects
→ Methods: Define what actions object can perform
→ Constructor: Defines how the object is created

Fields, methods, constructors are defined in classes

Classes — Define —> Object Types

Classes: Objects :: Blueprints: Houses

Public	vs	Private
↓		↓
can be accessed outside of the class		can only be accessed within a class

{	Classes	→	public
	Fields	→	private
	Methods	→	public ⁺ or private
	Constructors	→	public

Writing Classes

public class ClassName {

↙ Proper cased

// fields, constructor, methods

}

Writing Fields

Leave this initialized because your constructor will initialize it for you.

```
private DataType name;
```

Writing Methods

RECAP → Static Functions - Methods that can run directly from a class!

- ↳ Do not run from an object.

Non Static

```
Car a = new Car();  
a.openDoor();
```

Static

```
Car.openDoor();
```

→ Returning methods → Provides output for a method.

→ Void methods → DO NOT provide output for a method.

Annotations:
- public (can be private in certain cases)
- static (OPTIONAL)
- void (Return Type)
- methodName (Inputs)
- (arg1, arg2...)
- {
- }

// actions to perform
/* return value; */ ← final return line if necessary

}

Writing a Constructor

↓ HAS to be EXACT name
of class ↗ Parameters

public NameOfClass (param) {

/ * this.field = param; */

↑ dot operator ↑ Field ↑ Assign op.

~ this keyword allows us
to access the newly
created object that
is created when running
the constructor.