

# 2. Classes

Everything in Java is an Object

A class consists of the following parts

- Class name
- Attributes
- Constructors
- Methods

## Getters and Setters

- Prevents unintended tampering with class parameters

## Access modifiers

- `public`: accessible everywhere
- `private`: only accessible within the class

▼ Others not yet covered

- `protected`
- `package-private` / `default`

Access Modifier	within class	within package	outside package by subclass only	outside package
<code>private</code>	Y			
<code>default</code>	Y	Y		
<code>protected</code>	Y	Y	Y	
<code>public</code>	Y	Y	Y	Y

## The `static` keyword

- Only 1 copy that belongs to the Class itself
  - e.g. static attributes, static methods
- Shared by all instances of the class