Java Modifiers







Modifiers

By now, you are quite familiar with the public keyword that appears in almost all of our examples:

public class Main

The public keyword is an access modifier, meaning that it is used to set the access level for classes, attributes, methods and constructors.

We divide modifiers into two groups:

- Access Modifiers controls the access level
- Non-Access Modifiers do not control access level, but provides other functionality

Access Modifiers

For **classes**, you can use either **public** or *default*:

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Modifier	Description	Try it
public	The class is accessible by any other class	Try it »
default	The class is only accessible by classes in the same package. This is used when you don't specify a modifier. You will learn more about packages in the Packages chapter	Try it »

For attributes, methods and constructors, you can use the one of the following:

Modifier	Description	Try it
public	The code is accessible for all classes	Try it »
private	The code is only accessible within the declared class	Try it »
default	The code is only accessible in the same package. This is used when you don't specify a modifier. You will learn more about packages in the <u>Packages chapter</u>	Try it »
protected	The code is accessible in the same package and subclasses . You will learn more about subclasses and superclasses in the Inheritance chapter	Try it »

Public vs. Private Example

In the example below, the class has one public attribute and one private attribute.

Think of it like real life:

- public a public park, everyone can enter
- private your house key, only you can use it

```
Example

class Person {
  public String name = "John"; // Public - accessible everywhere
```

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Example explained

Here, name is declared as public, so it can be accessed from outside the Person class. But age is declared as private, so it can only be used inside the Person class.

