



Java Booleans

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Java Booleans

Very often, in programming, you will need a data type that can only have one of two values, like:

- YES / NO
- ON / OFF
- TRUE / FALSE

For this, Java has a `boolean` data type, which can store `true` or `false` values.

Boolean Values

A boolean type is declared with the `boolean` keyword and can only take the values `true` or `false` :

Example

```
boolean isJavaFun = true;  
boolean isFishTasty = false;
```

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However, it is more common to return boolean values from boolean expressions, for conditional testing (see below).

Boolean Expression

A **Boolean expression** is a Java expression that **returns** a Boolean value: **true** or **false**.

This is useful when we want to compare values to find answers.

For example, you can use a comparison operator, such as the **greater than** (**>**) operator, to find out if an expression (or a variable) is **true**:

Example

```
int x = 10;  
int y = 9;  
System.out.println(x > y); // returns true, because 10 is higher than 9
```

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Or even easier:

Example

```
System.out.println(10 > 9); // returns true, because 10 is higher than 9
```

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In the examples below, we use the **equal to** (`==`) operator to evaluate an expression:

Example

```
int x = 10;  
System.out.println(x == 10); // returns true, because the value of x is equal to
```

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Example

```
System.out.println(10 == 15); // returns false, because 10 is not equal to 15
```

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Real Life Example

Let's think of a "real life example" where we need to find out if a person is old enough to vote.

In the example below, we use the `>=` comparison operator to find out if the age (`25`) is **greater than** OR **equal to** the voting age limit, which is set to `18` :

Example

```
int myAge = 25;  
int votingAge = 18;  
System.out.println(myAge >= votingAge);
```

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The Boolean value of an expression is the basis for all Java comparisons and conditions.

You will learn more about conditions in the next chapter.

Test Yourself With Exercises

Exercise:

Fill in the missing parts to print the values `true` and `false` :

```
isJavaFun = true;
isFishTasty = false;
System.out.println(isJavaFun);
System.out.println(isFishTasty);
```

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