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Java Method Parameters

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Parameters and Arguments

Information can be passed to methods as parameter. Parameters act as variables inside the method.

Parameters are specified after the method name, inside the parentheses. You can add as many parameters as you want, just separate them with a comma.

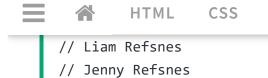
The following example has a method that takes a **String** called **fname** as parameter. When the method is called, we pass along a first name, which is used inside the method to print the full name:

Example

```
public class Main {
    System.out.println(fname + " Refsnes");
}

public static void main(String[] args) {
```

🗆 Dark mode



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// Anja Refsnes

When a **parameter** is passed to the method, it is called an **argument**. So, from the example above: fname is a **parameter**, while Liam, Jenny and Anja are **arguments**.

Multiple Parameters

You can have as many parameters as you like:

Example

```
public class Main {
    System.out.println(fname + " is " + age);
}

public static void main(String[] args) {
    myMethod("Liam", 5);
    myMethod("Jenny", 8);
    myMethod("Anja", 31);
}

// Liam is 5
// Jenny is 8
// Anja is 31
```

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Note that when you are working with multiple parameters, the method call must have the same number of arguments as there are parameters, and the arguments must be passed in the same order.

Return Values

The void keyword, used in the examples above, indicates that the method should not return a value. If you want the method to return a value, you can use a primitive data type (such as int, char, etc.) instead of void, and use the return keyword inside the method:

Example

```
public class Main {
   static int myMethod(int x) {

   public static void main(String[] args) {
      System.out.println(myMethod(3));
   }
}
// Outputs 8 (5 + 3)
```

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This example returns the sum of a method's **two parameters**:

Example





```
static int myMethod(int x, int y) {
    return x + y;
}

public static void main(String[] args) {
    System.out.println(myMethod(5, 3));
}

// Outputs 8 (5 + 3)
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```

You can also store the result in a variable (recommended, as it is easier to read and maintain):

Example

```
public class Main {
    static int myMethod(int x, int y) {
        return x + y;
    }

    public static void main(String[] args) {
        int z = myMethod(5, 3);
        System.out.println(z);
    }
}
// Outputs 8 (5 + 3)
```

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A Method with If...Else

It is common to use if...else statements inside methods:

Example

```
public class Main {

// Create a checkAge() method with an integer variable called age
static void checkAge(int age) {

// If age is less than 18, print "access denied"

if (age < 18) {

   System.out.println("Access denied - You are not old enough!");

// If age is greater than, or equal to, 18, print "access granted"

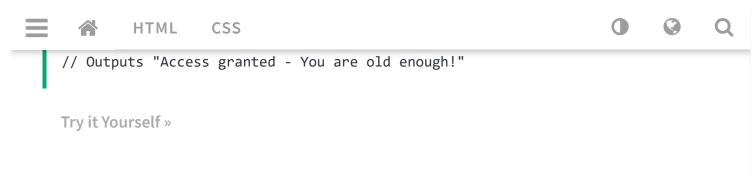
} else {

   System.out.println("Access granted - You are old enough!");

}

public static void main(String[] args) {
   checkAge(20); // Call the checkAge method and pass along an age of 20
}

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```



Test Yourself With Exercises

Exercise:

```
Add a fname parameter of type String to myMethod, and output "John Doe":
```

Submit Answer »

Start the Exercise