



# Java Method Overloading

[< Previous](#)[Next >](#)

## Method Overloading

With **method overloading**, multiple methods can have the same name with different parameters:

### Example

```
int myMethod(int x)
float myMethod(float x)
double myMethod(double x, double y)
```

Consider the following example, which has two methods that add numbers of different type:

### Example

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

```
static double plusMethodDouble(double x, double y) {  
    return x + y;  
}  
  
public static void main(String[] args) {  
    int myNum1 = plusMethodInt(8, 5);  
    double myNum2 = plusMethodDouble(4.3, 6.26);  
    System.out.println("int: " + myNum1);  
    System.out.println("double: " + myNum2);  
}
```

Try it Yourself »

Instead of defining two methods that should do the same thing, it is better to overload one.

In the example below, we overload the `plusMethod` method to work for both `int` and `double` :

## Example

```
    return x + y;  
}  
  
static double plusMethod(double x, double y) {  
  
}  
  
public static void main(String[] args) {  
    int myNum1 = plusMethod(8, 5);  
    double myNum2 = plusMethod(4.3, 6.26);  
    System.out.println("int: " + myNum1);  
}
```

Try it Yourself »

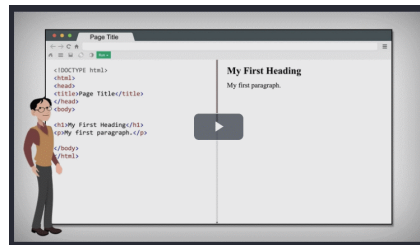
**Note:** Multiple methods can have the same name as long as the number and/or type of parameters are different.

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