

JavaScript Functions

JavaScript **Functions**

- User-created **block of code** designed to perform a particular task.
- TO USE FUNCTION: **CALL (invoke) IT.**

Why use Functions?

- You can **reuse code**.

JavaScript Function Name Rules

- Same rules as VARIABLES.

Function Syntax

```
function functionName()  
  {  
    code to be executed  
    .....  
  }
```

Function Syntax – with **return** statement

```
function functionName()  
    {  
        code to be executed  
        .....  
        return statement  
    }
```

Function Syntax (with parameters passed into function)

```
function functionName(parameter1, parameter2, etc....)
{
  code to be executed
  .....
  return statement
}
```

Example 1: FUNCTION called in a statement.

```
<p id="demo"></p>
```

```
<script>
```

```
function myFunction()
```

```
{  
    document.getElementById("demo").innerHTML = "Hafa Adai!";  
}
```

```
myFunction();
```

//Calls the function.

```
</script>
```


Example 2: FUNCTION called in an innerHTML assignment statement.

```
<p id="demo"></p>
```

```
<script>
```

```
function myFunction(p1, p2)
```

```
{
```

```
    return p1 * p2;
```

```
}
```

```
document.getElementById("demo").innerHTML = myFunction(4, 3);
```

```
</script>
```

**function is called,
parameters are passed
to the function,
return something**



Example 3: FUNCTION called in a variable.

```
<p id="demo"></p>
```

```
<script>
```

```
var num1 = 4;
```

```
var num2 = 3;
```

```
var xMult = multNum(num1, num2);
```

```
document.getElementById("demo").innerHTML = xMult;
```

```
function multNum(num1, num2)
```

```
{
```

```
    return num1 * num2;
```

```
}
```

```
</script>
```

Function to Convert Fahrenheit to Celsius

```
<p id="demo"></p>
```

```
<script>
```

```
function toCelsius(f)
```

```
{
```

```
    return (5/9) * (f-32);
```

```
}
```

//Calls the function.

//Passes the parameter

```
document.getElementById("demo").innerHTML = toCelsius(77);
```

```
</script>
```

```
var xCel = toCelsius(77); ← //Calls the function.  
var text = "The temperature is " + xCel + " Celsius";
```

```
document.getElementById("demo").innerHTML = text;
```

*****2 lines above *******OR*******1 line below*****

```
var text = "The temperature is " + toCelsius(77) + " Celsius";
```

```
document.getElementById("demo").innerHTML = text;
```