

ANT

Abstract of New Technology

Javascript Function



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Function



What is Function?

- A function in JavaScript is a reusable **block of code** that performs a specific task.
- A JavaScript function runs when it is “**called**”.

Basic Syntax

```
function functionName()  
{  
    // Function body  
}  
//Invoke function  
functionName();
```



Function (cont.)



- To create a function in JavaScript, we have to first use the keyword **function**.
- The part of the function inside the curly braces **{ }** is the body of the function.

Example

```
function functionName() { // Function body }
```

```
const functionName = function() { // Function body }
```

- The function code you have written will be executed whenever it is called.
 - ❖ Triggered by **an event** (e.g., a button click by a user).
 - ❖ When explicitly called from **JavaScript code**.
 - ❖ Automatically executed, such as in **self-invoking functions**.

Function (cont.)



Type of Functions

- Function **without argument**, and **without return**.
- Function **with argument**, but **without return**.
- Function **without argument**, but **with return**.
- Function **with argument**, and **with return**.

1. Function without argument, and without return.

Example

```
function greet() { console.log('Hello, world!'); }  
greet(); // Outputs: Hello, world!
```

Function (cont.)



2. Function with argument, and without return.

Example

```
function printText(text) { console.log(text); }  
printMessage('Hello, world!'); // Outputs: Hello, world!
```

3. Function without argument, and with return.

Example

```
function getRandomNumber() { return Math.random(); }  
const randomNumber = getRandomNumber();  
console.log(randomNumber); // Outputs a random number between 0 and 1
```

Function (cont.)

4. Function with argument, and with return.

Example

```
function add(a, b) { return a + b; }  
const sum = add(5, 3);  
console.log(sum); // Outputs: 8
```

Did you know?

- Arrow functions, introduced in ECMAScript 6 (ES6), offer a more concise syntax for writing functions in JavaScript.

Syntax

```
const functionName = (parameters) => { // function body };  
functionName(); // Invoked function
```



Thanks!

