

Types of Functions in Javascript

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.js



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1. Named Functions:

- These are functions declared with a **specified name**. They can be called anywhere in your code, even before the declaration.

```
function greet(name) {  
  return "Hello, " + name + "!";  
}
```

```
console.log(greet("Zeeshan"));  
// Output: Hello, Zeeshan!
```



2. Anonymous Functions:

- These are functions **without a name**. They are often used as arguments to other functions or assigned to variables.

```
var greet = function(name) {  
  |   return "Hello, " + name + "!";  
};  
  
console.log(greet("Zeeshan"));  
// Output: Hello, Zeeshan!
```



3. Arrow Functions (ES6+):

- A **concise way to write functions** in JavaScript, especially useful for inline and short functions. They also provide lexical scoping of this.

```
var greet = (name) => {  
  |   return "Hello, " + name + "!";  
};  
  
console.log(greet("Zeeshan Ali"));  
// Output: Hello, Zeeshan Ali!
```



4. Constructor Functions:

- Functions used to **create objects**.
- They are typically invoked with the **new keyword**.

```
function Person(name) {  
  this.name = name;  
}  
  
var person = new Person("Zeeshan");  
console.log(person.name);  
// Output: Zeeshan
```



5. Generator Functions (ES6+):

- Functions that can be **paused and resumed**.
- They are **declared using an asterisk (*)** after the function keyword.

```
function* generatorFunction() {  
  yield 'a';  
  yield 'b';  
  yield 'c';  
}  
  
var gen = generatorFunction();  
console.log(gen.next().value); // Output: a  
console.log(gen.next().value); // Output: b
```



6. Higher-Order Functions:

- Functions that take other functions as **arguments** or **return functions**.

```
function greet(name) {  
  return "Hello, " + name + "!";  
}  
  
function sayHello(callback) {  
  console.log(callback("Buddy"));  
}  
  
sayHello(greet);  
// Output: Hello, Buddy!
```



7. Immediately Invoked Function Expressions (IIFE):

- Functions that are **executed immediately** after they are defined.

```
(function() {  
  var message = "This is an IIFE";  
  console.log(message);  
})();  
// Output: This is an IIFE
```





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