



Types of Functions

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1. Named Functions

Definition - Functions that have a specific name.

Example -

```
function add (a, b){  
    return a + b;  
}
```

(function name)

(parameters)

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2. Anonymous Functions:

Definition -

Functions without a name, often used as arguments to other functions or assigned to variables.

Example -

```
const subtract = function(a, b) {  
  return a - b;  
};
```

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3. Arrow Functions:

Definition -

A more concise syntax for writing anonymous functions, introduced in ES6.

Example -

(arrow func)
↑
`const multiply = (a, b) => a * b;`

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4. Immediately Invoked Function Expressions (IIFE)

Definition -

Functions that are executed immediately after being defined.

Example -

```
(function() {  
  console.log("This is an IIFE");  
})();
```

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5. Constructor Functions:

Definition -

Used to create objects and are invoked with the new keyword.

Example -

```
function Person(name, age) {  
  this.name = name;  
  this.age = age;  
}  
const person1 = new Person('Alice', 30);
```

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6. Generator Functions:

Definition -

Functions that can be paused and resumed, returning an iterator.

Example -

```
function* generatorFunction() {  
  yield 1;  
  yield 2;  
  yield 3;  
}  
const generator = generatorFunction();  
console.log(generator.next().value); // 1
```

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7. Async Functions:

Definition -

Functions that handle asynchronous operations more gracefully, introduced in ES8

Example -

```
async function fetchData(url) {  
  const response = await fetch(url);  
  const data = await response.json();  
  return data;  
}
```

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8. Method Functions:

Definition -

Functions defined within objects.

Example -

```
const obj = {  
  greet: function() {  
    return 'Hello!';  
  }  
};  
console.log(obj.greet());
```

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9. Callback Functions:

Definition -

Functions passed as arguments to other functions and called within the outer function to complete some kind of routine or action.

Example -

```
function fetchData(callback) {  
  setTimeout(() => {  
    callback('Data received');  
  }, 1000);  
}  
fetchData((message) => {  
  console.log(message);  
});
```

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