

Day :10 JavaScript Notes.

Arrow Functions in JavaScript

Arrow functions provide a shorter and cleaner syntax to write functions in JavaScript, especially useful for simple operations.

Syntax

```
let func = (arg1, arg2, ..., argN) => expression;
```

Key Differences from Regular Functions

- No function keyword.
 - More concise syntax.
 - Useful for simple, single-expression functions.
 - Lexically binds this (unlike regular functions), which is useful in certain contexts.
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Single-Line Arrow Functions

- **Single parameter:** Parentheses around the parameter can be omitted.

```
let square = x => x * x;
```

```
console.log(square(5)); // Output: 25
```

- **Multiple parameters:** Parentheses are required.

```
let add = (a, b) => a + b;
```

```
console.log(add(3, 7)); // Output: 10
```

- **No parameters:** Empty parentheses must be used.

```
let greet = () => console.log("Hello, world!");
```

```
greet(); // Output: Hello, world!
```

Multiline Arrow Functions

When the function body has multiple statements:

- Use curly braces `{}` to wrap the function body.
- Use `return` explicitly to return a value.

Example:

```
let multiply = (a, b) => {  
  let result = a * b;  
  return result;  
};
```

```
console.log(multiply(4, 3)); // Output: 12
```