

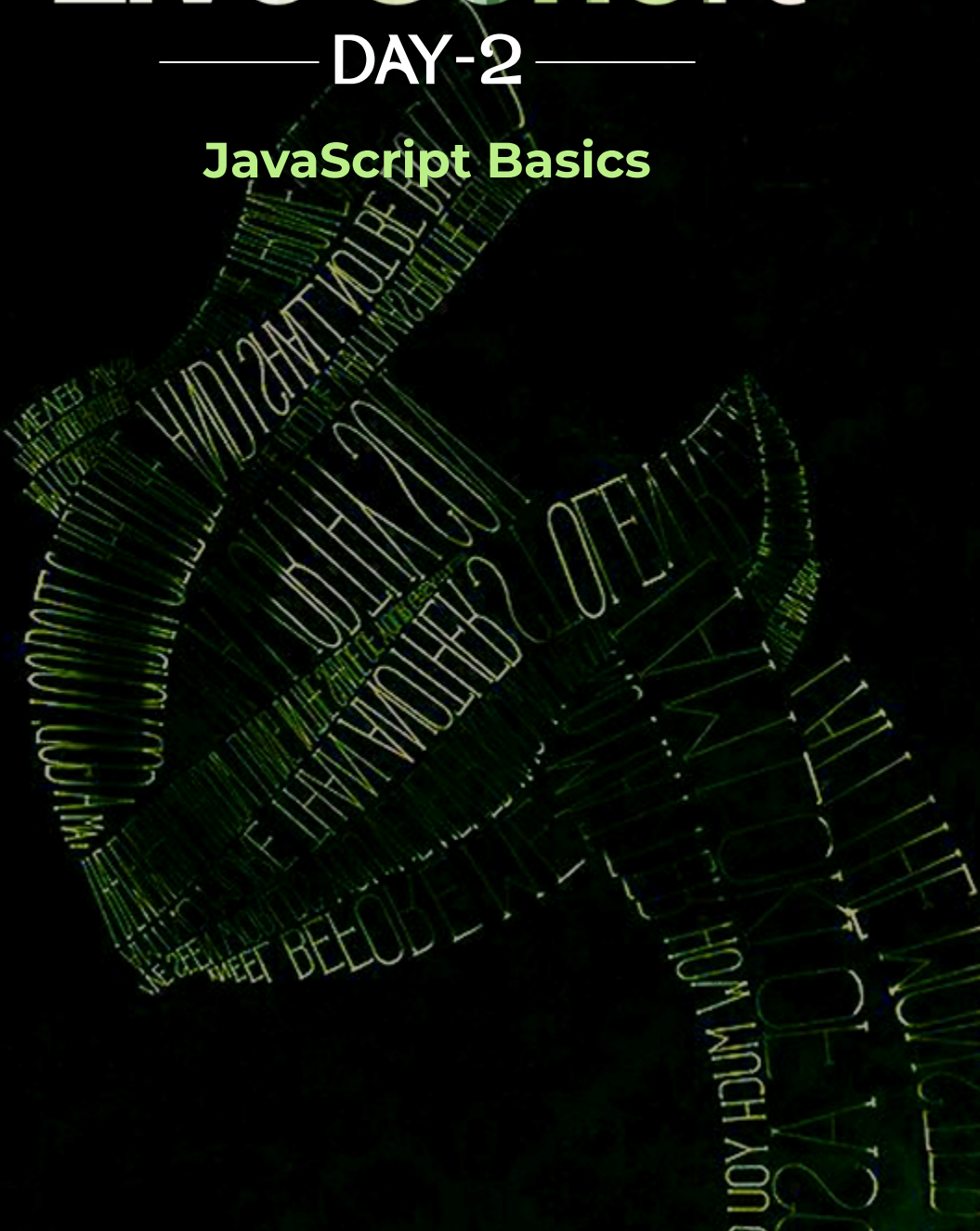


Sheryians  
Coding School

# Live Cohort

— DAY-2 —

**JavaScript Basics**



# JavaScript Basics

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Welcome back to **JavaScript Learning Series!**

In this session, we'll cover **statements**, **expressions**, and all types of **console methods** used for debugging and displaying information in JavaScript.

## TOPICS COVERED:

1. var, let, const
2. console methods (log, error, warn, table, etc.)
3. Strings – what they are
4. Slice, template literals, split, replace, includes
5. Statements and expressions

# JavaScript Basics

## 1. var, let, const

These are used to **declare variables**.

Keyword	Scope	Can Reassign?	Redeclare?	Example
<b>var</b>	Function	✔ Yes	✔ Yes	var name = "Ritik";
<b>let</b>	Block	✔ Yes	✗ No	let age = 21;
<b>const</b>	Block	✗ No	✗ No	const country = "India";

🧠 **Tip:** Use `let` and `const` instead of `var` in modern JS.

## 2. console Methods in JavaScript 🖥️

The `console` object in JS helps us **print, debug, and test code** easily in the browser console.

Here are the most useful console methods:

### ◆ **console.log()**

Prints normal messages or data.

### 🧩 **Example:**

```
console.log("Hello World!");  
console.log(10 + 5);
```

# JavaScript Basics

## 2. console Methods in JavaScript 🖥️

### ◆ console.error()

Displays an error message in red.

#### ⚙️ Example:




```
console.error("Something went wrong!");
```

### ◆ console.warn()

Shows a warning message in yellow.

#### ⚙️ Example:




```
console.warn("This is a warning!");
```

### ◆ console.info()

Displays an informational message.

#### ⚙️ Example:



```
console.info("Server started successfully!");
```

# JavaScript Basics

## 2. console Methods in JavaScript

### ◆ console.table()

Displays data in a **table format** — great for arrays and objects.

#### ⚙ Example:

```
let user = {  
  name: "Sheryians",  
  email: "hello@gmail.com",  
  course: "JavaScript"  
};  
console.table(user);
```

### ◆ console.group() and console.groupEnd()

Helps group multiple logs together.

#### ⚙ Example:

```
console.group("User Info");  
console.log("Name: John");  
console.log("Course: JS");  
console.groupEnd();
```

# JavaScript Basics

## 2. console Methods in JavaScript 🖥️

### ◆ console.time() and console.timeEnd() `

Used to **measure execution time** of a block of code.

#### 🧩 Example:

```
console.time("loopTime");  
for(let i = 0; i < 100000; i++) {}  
console.timeEnd("loopTime");
```

### ◆ console.clear()

Clears the console screen.

#### 🧩 Example:

```
console.clear();
```

## 3. Strings in JavaScript 🧵

A **string** is a sequence of characters wrapped in quotes.

#### 🧩 Example:

```
let name = "Ritik Rajput";  
console.log(name);
```


# JavaScript Basics

## 4. String Methods – slice, template literals, split, replace, includes

### ◆ slice()

Extracts part of a string.

#### 🧩 Example:




```
let str = "JavaScript";  
console.log(str.slice(0, 4)); // Java
```

### ◆ Template Literals (using backticks ``)

Makes string creation easier with variables.

#### 🧩 Example:




```
let name = "Ritik";  
console.log(`Hello, ${name}! Welcome to JS.`);
```

### ◆ split()

Splits a string into an array.

#### 🧩 Example:



```
let fruits = "apple,banana,grapes";  
console.log(fruits.split(",")); // ["apple", "banana", "grapes"]
```

# JavaScript Basics

## 4. String Methods – slice, template literals, split, replace, includes

### ◆ **replace()**

Replaces a word or character.

#### 🧩 Example:

```
let sentence = "I love HTML";  
console.log(sentence.replace("HTML", "JavaScript")); // I love JavaScript
```

### ◆ **includes()**

Checks if a substring exists.

#### 🧩 Example:

```
let text = "Learning JavaScript is fun";  
console.log(text.includes("fun")); // true
```



# JavaScript Basics

## 5. Statements and Expressions 💡

### 📄 STATEMENT

A **statement** performs an action — like declaring a variable or writing a loop.

#### 🧩 Example:

```
let a = 10;  
if (a > 5) {  
  console.log("a is greater than 5");  
}
```

### ⚙️ EXPRESSION

An **expression** produces a value.

#### 🧩 Example:

```
2 + 3; // 5  
"hello" + " world"; // "hello world"
```

🧠 **Tip:** Every expression can be part of a statement, but not every statement is an expression.

## Conclusion:

You've now learned about **console methods, statements, and expressions**— essential tools for debugging and writing better JS code.

Next, we'll dive into **data types, operators, and conditionals**!