MODREN JAVASCRIPT

ES6 & BEYOND

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ES6 & Beyond

ES6, or ECMAScript 2015, is a major update to JavaScript. It modernizes syntax for clearer, more maintainable coding.

Features of ES6:

- Arrow functions
- Template literals
- Destructuring assignments
- Classes
- Spread/rest operators
- Promises
- Default parameters
- Modules
- Async/await

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Arrow Functions

Arrow functions provide a concise way to write functions in JavaScript.

```js
// script.js

1  // ES5
2  var multiply = function(x, y) {
3    return x * y;
4  };
5
6  // ES6
7  const multiply = (x, y) ⇒ x * y;
```

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Template Literals

Template literals allow embedding expressions in strings using backticks.

```js
JS script.js

1  // ES5
2  var greeting = "Hello, " + name + "!";
3
4  // ES6
5  const greeting = `Hello, ${name}!`;
6
```

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Spread/Rest Operators

Spread operator (...) allows expanding elements in arrays, while rest operator (...) gathers elements into arrays.

```js
// Spread operator
const numbers = [1, 2, 3];
const newNumbers = [...numbers, 4, 5];
 // [1, 2, 3, 4, 5]

// Rest operator
const sum = (...args) =>
args.reduce((acc, val) => acc + val, 0);
sum(1, 2, 3); // 6
```

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JS **Promises**

Promises provide a cleaner alternative to callbacks for handling asynchronous operations.

```js
1  // Promise example
2  function fetchData() {
3    return new Promise((resolve, reject) ⇒ {
4      setTimeout(() ⇒ resolve("Data fetched"), 1000);
5    });
6  }
7
8  fetchData().then(data ⇒ console.log(data));
9   // "Data fetched"
```

JS script.js

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