

Javascript Datatypes

JavaScript has 8 main data types categorized as primitive and non-primitive:

- 1. **Primitive Data Types:** These hold a single immutable value (can't be changed once created). There are 7 primitive types:
 - **Number:** Numeric values, including integers and floating-point.

```
let x = 42;
let pi = 3.14;
```

• String: Text wrapped in single, double, or backticks.

```
let name = "John";
let greeting = 'Hello';
```

• Boolean: Logical true or false.

```
let isActive = true;
```

• **Undefined:** A variable declared but not assigned a value.

```
let age;
console.log(age); // undefined
```

• **Null:** Represents intentional absence of any object value.

```
let data = null;
```

Symbol: Used to create unique identifiers.

```
let sym = Symbol("id");
```

• **BigInt:** For integers beyond the safe integer range of Number.

```
let big = 123456789012345678901234567890n;
```

- 2. Non-primitive Data Type:
 - Object: Collections of properties (key-value pairs), including arrays, functions, dates, etc.

```
let person = { firstName: "Alice", age: 25 };
```

You can use the typeof operator to check a variable's data type (except null returns "object" as a known JS quirk).

This categorization helps in understanding how values behave and are stored in memory in JavaScript programs. [1] [2] [3] [4] [5] [6]

Let me know if you want code examples or explanations for any specific data types.



- 1. https://www.w3schools.com/js/js_datatypes.asp
- 2. https://developer.mozilla.org/en-US/docs/Glossary/Primitive
- 3. https://www.geeksforgeeks.org/javascript/primitive-and-non-primitive-data-types-in-javascript/
- 4. https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide/Data_structures
- 5. https://javascript.info/types
- 6. https://www.programiz.com/javascript/data-types