Documentation on data types In JavaScript

Data types in JavaScript:

Data types:

- ♣ Data types are values stored in variables to inform the Interpreter of what type of data we are handling.
 - ♣ There are two types of data types:
 - > Primitive data types.
 - > Non-primitive data types.

JavaScript Data Types

Primitive

- 1. String
- 2. Number
- 3. Boolean
- 4. Undefined
- 5. Null
- 6. BigInt (es6)
- 7. Symbols

Reference

- 1. Arrays
- 2. Objects
- 3. Functions
- 4. Classes (es6)
- 5. Set (es6)
- 6. Map (es6)
- 7. Date
- 8. RegExp

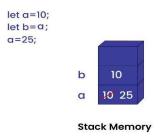
Primitive and non-primitive types:

Data Types			
Primitive		Reference	
null	let example = null;	Object	let example = {hello: "world"};
undefined	let example = undefined;	Function	let example = () => 2 + 2;
Boolean	let example = true;		
Number	let example = 33;		
String	let example = "hello";		
BigInt	let example = 33n;		
Symbol	let example = Symbol("hello");		

Primitive data types:

Primitive data types are the most basic types of data that represent a simple value, they are immutable, meaning once a value, is assigned it can not be changed.

Primitive Data Type



1. Number:

Number data type in Javascript can be used to hold decimal values as well as values without decimals.

Example:

```
var x = 250;
var y = 40.5;
console.log("Value of x=" + x);
console.log("Value of y=" + y);
```

output:

```
Value of x=250
Value of y=40.5
```

2. Boolean:

The Boolean data type can accept only two values there are true and false.

Example:

```
var x;
console.log(x); // Outputs: undefined
```

3. Undefined:

This means that a variable has been declared but has not been assigned a value, or it has been explicitly set to the value 'undefined'.

Example:

```
let x;
console.log(x); // Outputs: undefined
output:
```

```
> let x;
console.log(x);
```

undefined

4. String:

The string data type in JavScript represents a sequences of characters that are surrounded by single or double quotes.

Example:

```
Var str = 'Hello All';
var str1 = "Welcome to my new house";
console.log("Value of str=" + str);
console.log("Value of str1=" + str1);
```

output:

```
Value of str=Hello All

Value of str1=Welcome to my new house
```

5. BigInt:

BigInt data type can represent numbers greater than 2^{54} -1 which helps to perform operations on large numbers. The numbers especially by writing 'n' at the end of the value.

Example:

output:

6. Null:

This data type can hold only one possible value that is null.

Example:

```
var x = null;
console.log("Value of x=" + x);
```

output:

Value of x=null

7. Symbol:

Symbol data type is used to create objects which will always be unique. These objects can be created using symbol constructor.

Example:

```
var sym = Symbol("Hello")
  console.log(typeof(sym));
  console.log(sym);
output:
```

symbol

Symbol(Hello)

❖ Non-primitive data types:

Non-primitive data types represent more complex structures and can hold values or more complex data collections. They are mutable, meaning their contents can be changed.