

Data Types in JavaScript

- Data types are used to define the type of data that a variable can hold
- In JavaScript, there are six data types:
 - Number
 - String
 - Boolean
 - Object
 - Array
 - Function
- These data types are classified as primitive data types (or simple data types) and complex data types (which are objects).
- Primitive data types are the simplest data types.

- Number : A number is a data type that represents a numeric value.

A number can be a whole number (integer), a decimal number (float), or a negative number.

- String : A string is a data type that represents text.

A string can be a single character, a word, or a sentence.

- Boolean : A boolean is a data type that represents a true or false value.

A boolean can be true or false.

- Null : A null is a data type that represents the intentional absence of a value.

A null value is often used to represent the absence of a value and can be explicitly assigned to a variable.

- Undefined : A undefined is a data type that represents the intentional absence of a value.

A undefined value is often used to represent the absence of a value which is not yet defined.

- Object : An object is a data type that represents a collection of data.

An object is a collection of data that is stored in key-value pairs.

- Array : An array is a data type that represents a list of data.

An array is a list of data that is stored in a sequential order.

- Function : A function is a data type that represents a block of code.

A function is a block of code that is used to perform a specific task.

Quiz

```
var number = 10;  
var string = "Hello";  
var boolean = true;  
var nullValue = null;  
var undefinedValue = undefined;  
var object = {};  
var array = [];  
var functionValue = function () {};
```

1. What is the data type of the variable `number`?
2. What is the data type of the variable `string`?
3. What is the data type of the variable `boolean`?
4. What is the data type of the variable `nullValue`?
5. What is the data type of the variable `undefinedValue`?
6. What is the data type of the variable `object`?
7. What is the data type of the variable `array`?
8. What is the data type of the variable `functionValue`?

Answer

1. number
2. string
3. boolean
4. null
5. undefined
6. object
7. array
8. function

Some extra notes

- Strings enclosed in double quotes if include a double quote, it will be treated as the end of the string, hence escape the double quote using the escape character "