



JavaScript has 8 Datatypes

1. String
2. Number
3. Bigint
4. Boolean
5. Undefined
6. Null
7. Symbol
8. Object



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JavaScript Events

1. onclick
2. onchange
3. onkeydown
4. onload
5. onmouseover
6. onmouseout
7. onmousedown
8. onmouseup
9. onmousemove



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JavaScript Display Possibilities

- Writing into an HTML element, using `innerHTML`.
- Writing into the HTML output using `document.write()`.
- Writing into an alert box, using `window.alert()`.
- Writing into the browser console, using `console.log()`.

3 Ways to Declare a JavaScript Variable:

- Using `var`
- Using `let`
- Using `const`



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JavaScript Operators

- Arithmetic Operators
- Assignment Operators
- Comparison Operators
- Logical Operators
- Conditional Operators
- Type Operators

JavaScript Comparison Operators

`==` equal to

`==` equal value and equal type

`!=` not equal

`!==` not equal value or not equal type



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JavaScript Comparison Operators

> greater than

< less than

>= greater than or equal to

<= less than or equal to

? ternary operator

JavaScript Logical Operators

&& logical and

|| logical or

! logical not



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JavaScript Type Operators

`typeof` Returns the type of a variable

`instanceof` Returns true if an object is an instance of an object type

JavaScript Statements

```
let x, y, z; // Statement 1
```

```
x = 15; // Statement 2
```

```
y = 16; // Statement 3
```

```
z = x + y; // Statement 4
```



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JavaScript Declare

```
let a, b, c; // Declare 3 variables  
a = 15; // Assign the value 5 to a  
b = 16; // Assign the value 6 to b  
c = a + b; // Assign the sum of a and b to c
```

When separated by semicolons, multiple statements on one line are allowed:

```
a = 5; b = 6; c = a + b;
```

JavaScript Syntax

```
// How to create variables : var x;let y;  
// How to use variables : x = 5;y = 6;  
                           let z = x + y;
```



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JavaScript Strings

JavaScript strings are for storing and manipulating text.

Example

```
let text = "Pushpendra";  
console.log(text)
```

String Length

Example

```
let text = "Pushpendra";  
console.log(text)
```



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JavaScript String Methods

1. String length
2. String slice()
3. String substring()
4. String substr()
5. String replace()
6. String replaceAll()
7. String toUpperCase()
8. String toLowerCase()
9. String concat()



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JavaScript String Methods

10. String trim()

11. String trimStart()

12. String trimEnd()

13. String padStart()

14. String padEnd()

15. String charAt()

16. String charCodeAt()

17. String split()



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JavaScript Template Literals

- Template Literals
- Template Strings
- String Templates
- Back-Ticks Syntax

Back-Ticks Syntax

Template Literals use back-ticks (` `) rather than the quotes ("") to define a string:

Example

```
let text = `Pushpendra`;  
console.log(text)
```



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JavaScript Template Literals

Quotes Inside Strings

With template literals, you can use both single and double quotes inside a string:

Example

```
let text = `He's often called "Push"`;
console.log(text)
```

Multiline Strings

Template literals allows multiline strings:



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JavaScript Template Literals

Example

```
let text =  
`The quick  
brown fox  
jumps over  
the lazy dog`;  
  
console.log(text)
```

Variable Substitutions

Template literals allow variables in strings:



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JavaScript Template Literals

Example

```
let firstName = "Pushpendra";
let lastName = "Tripathi";
let text = `Welcome ${firstName}, ${lastName}!`;
console.log(text)
```

JavaScript Date Formats

JavaScript Date Input

ISO Date "2015-03-25" (The International Standard)

Short Date "03/25/2015"

Long Date "Mar 25 2015" or "25 Mar 2015"



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Storage API

Storage Object Properties and Methods

- 1- clear()
- 2- getItem()
- 3- key()
- 4- length
- 5-.setItem()
- 6-.removeItem()
- 7- window.localStorage
- 8- window.sessionStorage



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Console API

The Console Object

The `console` object provides access to the browser's debugging console.

- 1- `assert()`
- 2- `clear()`
- 3- `count()`
- 4- `error()`
- 5- `group()`
- 6- `groupCollapsed()`
- 7- `groupEnd()`
- 8- `info()`

- 9- `log()`
- 10- `table()`
- 11- `time()`
- 12- `timeEnd()`
- 13- `trace()`
- 14- `warn()`



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JavaScript Array Object

1- concat()
2- constructor
3- copyWithin()
4- entries()
5- every()
6- fill()
7- filter()
8- find()
9- findIndex()
10- forEach()
11- from()
12- includes()

13- indexOf()
14- isArray()
15- join()
16- keys()
17- lastIndexOf()
18- length
19- map()
20- pop()
21- prototype
22- push()
23- reduce()
24- reduceRight()

25- reverse()
26- shift()
27- slice()
28- some()
29- sort()
30- splice()
31- toString()
32- unshift()
33- valueOf()



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JSON Data Types

JSON Strings

Example

```
{"name":"push"}
```

JSON Arrays

Example

```
{"employees":["Push", "Anna", "Peter"]}
```

JSON Numbers

Example

```
{"age":30}
```

JSON Objects

Example

```
{"employee":{"name":"Push", "age":20, "city":"New York"}}
```

JSON Booleans

Example

```
{"sale":true}
```

JSON null

Example

```
{"middlename":null}
```



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JAVASCRIPT



console in JavaScript

info() method

Example

```
let tips = "Pushpendra Tripathi"  
console.info(tips);
```

clear() Method

Example

```
let tips = "PushpendraTips"  
console.log(tips)  
console.clear()
```

error() Method

Example

```
let name = "Pushpendra"  
console.error(name,'This is a simple error');
```

log() Method

Example

```
let tips = "Pushpendra Tripathi"  
console.log(tips);
```



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console in JavaScript

warn() Method

Example

```
let tips = "This is a warning!"
```

```
console.warn(tips);
```

table() method =>Array

Example

```
console.table(["HTML","CSS","JAVASCRIPT"]);
```

table() method =>Object

Example

```
({fName:"Pushpendra", lName:"Tripathi"});
```



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Pushpendra Tripathi

Thanks for reading!

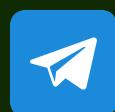
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