



Features Of JavaScript

~ the perks



What Are Features in JavaScript?

- JavaScript has a variety of different features we will begin to discuss throughout this lesson.
- Before we begin take some time to think about features and how they could possibly help.

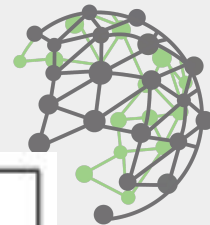


Features



Features

- Working with Objects
- Data Types
- Structured Language
- Object Oriented
- Defining Functions
- Event Handling
- Working With HTML DOM
- Working With The Browser
- Scope of Variables
- Built in Functions
- Working With Arrays
- Working With Errors
- Working With JSON



Working With Objects

- All data in JavaScript is expressed as an Object.
- This makes It easier to work with forms of data

```
<!DOCTYPE html>
<html>
<body>
<h1>javascript Example</h1>
<p id="demo"></p>
<script>
var value="Hello World";
document.getElementById("demo").innerHTML = value;
</script>
</body>
</html>
```



Our Turn

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Data Types

- JavaScript works on the principle that it's a dynamically typed language.
- A variable can be set to a number , then later set to a string.
- Dynamic

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <title>Simple JS</title>
</head>

<body>
  <h1>javascript Example</h1>
  <p id="demo"></p>
  <script>
    var value=1;
    value="Hello World";
    document.getElementById("demo").innerHTML = value;
  </script>
</body>
</html>
```

javascript Example

Hello World



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Structured Language

- JavaScript Follows a very specific path when it comes to programming.
- The Structured path. You can use normal loop statements like “while loop” and “for loop”

javascript Example

The value is 0
The value is 1
The value is 2
The value is 3
The value is 4
The value is 5
The value is 6
The value is 7
The value is 8
The value is 9

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Simple JS</title>
</head>
<body>
  <h1>javascript Example</h1>
  <p id="demo"></p>
  <script>
    var txt="";
    var i = 0;
    do {
      txt += "<br>The value is " + i; i++;
    }
    while (i < 10);
    document.getElementById("demo").innerHTML = txt;
  </script>
</body>
</html>
```



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Object Oriented

- JavaScript is an almost entirely object oriented language.
- It has the ability to define properties for variable objects.





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Defining Functions

- JavaScript has the ability to split code into separate modules with the help of functions.
- The logic of the program can be split by defining functions across a JavaScript program.



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Event Handling

- Events can also be handled in JavaScript.
- If we want to run code at the click of a button it can be done.
- Functions can be used to define code that can be run when an event is triggered.



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Working with HTML DOM

- This is looked at as one of the most important features of JavaScript.
- The ability to manipulate the elements of a HTML page through its DOM structure.
- This is what helps to make JavaScript such a popular language.



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Working With The Browser

- JavaScript was also designed to work with many different browsers and has the capability of getting information from the browser window it is running in.



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Scope Of Variables

- Variables in JavaScript also work with the concept of GLOBAL vs. LOCAL scope.
- The Scope of the variable is the block it is defined in.





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Built In Functions

- JavaScript has the ability to use some built-in functions that you can use inside of your code.





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Working With Arrays

- In JavaScript you have the ability to work with elements as arrays.
- This helps programmers work with a continuous set of elements.



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Working With Errors

- JavaScript has the ability to work with errors generated in the program by using try, catch blocks.





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Working With JSON

- JSON is known as JavaScript Object Notation.
- Its used primarily as a intermediate language like XML.
- JavaScript can also work with JSON objects.



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Hurray !!

We wrapped that lesson up !! Only 999999 more lessons.