

Data Types
Javascript Session-2



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Did you finish Javascript Core pre-class material?







Play Kahoot





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Data Types





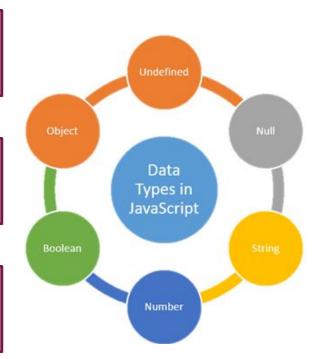
Data Types



JavaScript variables can hold numerous data types, such as numbers, strings, booleans, and more

It is required to declare a variable for creating

In JavaScript, we can declare a variable with the var keyword





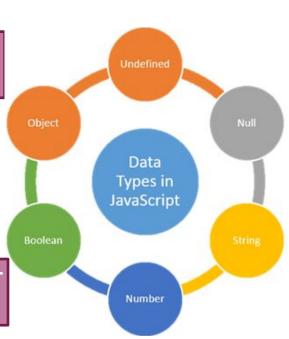
Data Types

var myNumber;

In the example above, myNumber value has no value. (actually, the value of myNumber is undefined)

var myNumber = 10;

It is necessary to use the equal sign for assigning a value to the variable





2 Numbers





Numbers



Unlike many other programming languages, JavaScript has only one type of number

$$var x = 7$$
;

Numbers can be written with decimals

$$var y = 33.33$$
;





Strings

var best = "CLARUSWAY";



Strings



Strings defined as the sequence of characters

In JavaScript, strings are used for storing and manipulating text

A string can be any content that shows up inside quotes. We can use single or double-quote

We can use quotes inside a string unless they don't match the quotes encompassing the string

If we need to use quotes inside the string, we can use backslash (\) escape character

var myName = " John";

var myAge = " 36";

var text2 = 'She said, "Go ahead";

var text = "He said, \"I am a new
programmer.\"";

CLARUSWAY



Booleans

var isReal = true;



Booleans

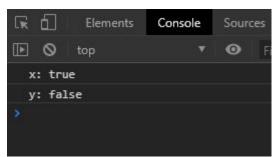


A JavaScript Boolean can have one of two values, either true or false

Boolean data type is useful when we need to have one of two values, such as true/false, yes/no, etc.

```
<script>
  var x = 8 > 4;
  var y = 34 == 25;
  console.log("x: " + x);
  console.log("y: " + y);
</script>
```









The Boolean value of everything with a "value" is true.

```
<script>
 var x = Boolean("Hi everybody.");
 var y = Boolean(5);
 var z = Boolean(-5);
 var t = Boolean("false");
  var s = Boolean(3.14 + 8);
 console.log("x: " + x);
 console.log("y: " + y);
 console.log("z: " + z);
 console.log("t: " + t);
 console.log("s: " + s);
</script>
```



```
Elements Console Sources

top volume

x: true

y: true

z: true

t: true

s: true

>
```



Booleans



The Boolean value of everything without a "value" is false

The Boolean value of 0, null, empty string, undefined, is false

```
var x = Boolean("");
var y = Boolean(0);
var z = Boolean(-0);
var t = Boolean(null);
var s;
console.log("x: " + x);
console.log("y: " + y);
console.log("z: " + z);
console.log("t: " + t);
console.log("s: " + Boolean(s));
```



```
Elements Console Sources

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x: false

y: false

z: false

t: false

s: false
```





The typeof Operator

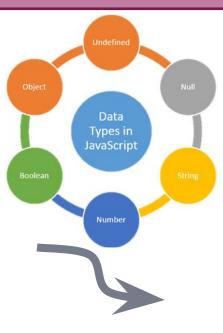


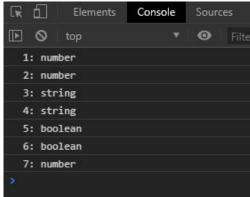
The typeof Operator



To find the type of a JavaScript variable, we can use the JavaScript typeof operator

```
<script>
  console.log("1: " + typeof 0);
  console.log("2: " + typeof (3,14));
  console.log("3: " + typeof "Clarusway");
  console.log("4: " + typeof "");
  console.log("5: " + typeof true);
  console.log("6: " + typeof (3 > 2));
  console.log("7: " + typeof (8 + 3));
</script>
```







WAY TO REINVENT YOURSELF



THANKS! > 1

Any questions?



