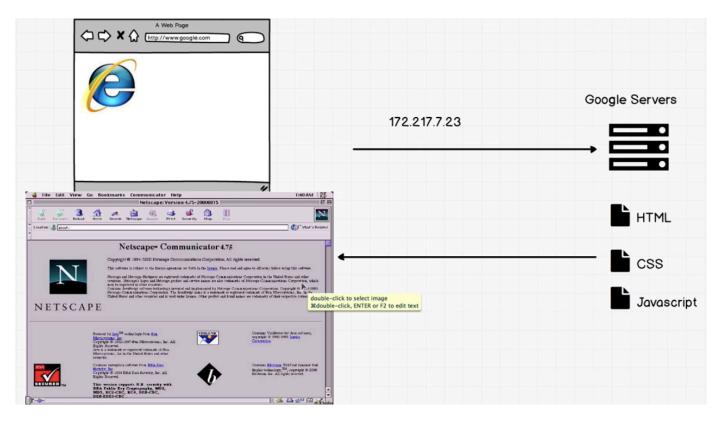
JavaScript: Types & Comparisons The Complete Web Developer in 2018

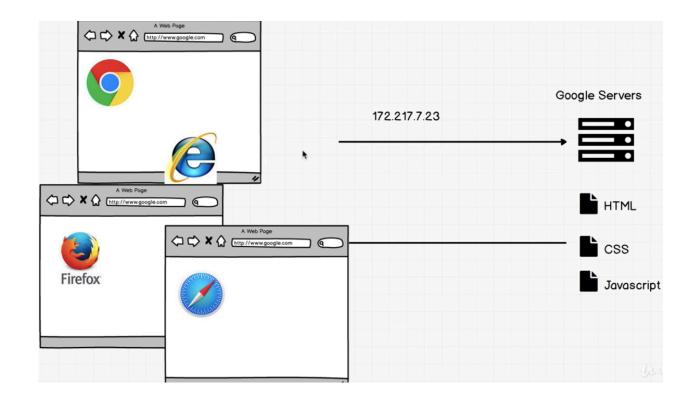
The Complete Web Developer in 2018
Zero to Mastery
Andrei Neagoie
Lecture Notes by Stephanie

Javascript

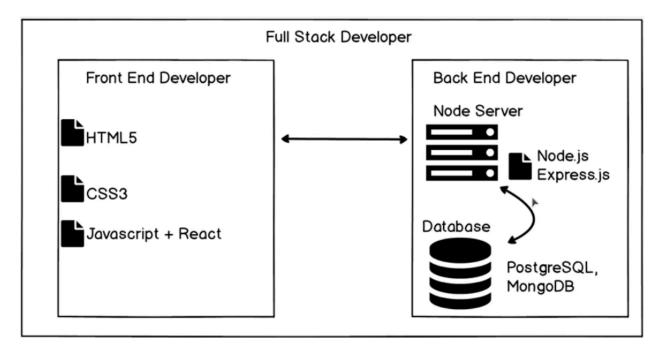
originally Netscape - Javascript performs actions



Now- web, apps, VR, drones, robotics



Javascript used in Node.js, Express.js, react (backend)



Javascript is **file** to write instructions to computer

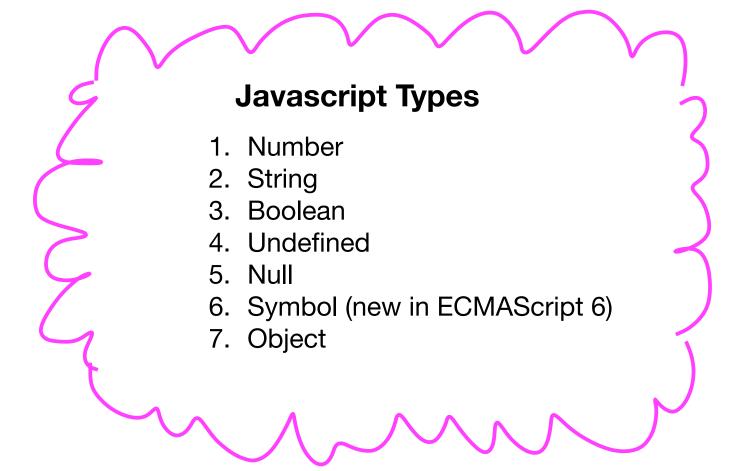
In web - performs actions

Javascript

Chrome Developer Tools > Console



To clear console: clear() or 🛇



Use \ in front of quote to prevent error

add strings together to concatenate

```
> "steph" + "bot"

< "stephbot"
```

string - string = NaN

```
> "hello" - "bye"
<- NaN
```

string + number = string

```
> 10 + "34"

< "1034"
```

number - string = number

```
> 10 - "3"
< 7
```

Javascript Comparisons (Boolean)

```
!== not equal to <=
=== equal to >
>=
```

- > true
- true boolean
- > false
- false boolean
- > 3 > 2
- < true
- > 5 > 10
- < false
- > 5 >= 5
- < true
- > 5 <= 5
- < true
- > 3 = 3 <<<< = is for var assignment
- ❸ Uncaught ReferenceError: Invalid left-hand side <u>VM841:1</u> in assignment

Use === to check if they are equal, = gives error

```
> 3 === 3 checks if equal to
```

```
> 3 !== 3
< false
> 4 !== 5
< true</pre>
```

Module Operator % returns remainder (division)

```
> 12 % 6

< 0

> 12 % 5

< 2
```

— exercise1.txt —

// Guess what answers you would get if you ran this in the // Javascript Console in Google Chrome. Once you have an answer to the questions then // check them by copying them and running it in the console yourself line by line

```
//Evaluate the below:
5 + "34"
5 - "4"
10 % 5
5 % 10
"Java" + "Script"
" " + "
" " + 0
true + true
true + false
false + true
false - true
3 - 4
"Bob" - "bill"
```

```
//Evaluate the below comparisons:

5 >= 1

0 === 1

4 <= 1

1 != 1

"A" > "B"

"B" < "C"

"a" > "A"

"b" < "A"

true === false

true != true
```

// Make the string: "Hi There! It's "sunny" out" by using the + sign:

e x p r e s s i o n - code that produces a value
**** needs to have a semicolon at the end ****

Exercise 1 solutions

```
> 5 + "34"
< "534"
> 5 - "4"
< 1
> 10 % 5
< 0
> 5 % 10
< 5
```

```
> "Java" + "Script"

< "JavaScript"

> " " + " "

< " "

> " " + 0

< " 0"</pre>
```

```
> 3 - 4

< -1

> "Bob" - "bill"

< NaN
```

```
> "A" > "B"
< false
> "B" < "C"
< true
> "a" > "A"
< true
> "b" < "A"
< false</pre>
```

```
> true === false
< false
> true != true
< false</pre>
```

```
> true === false
< false
> true != true
< false
```

So how does this work....?

```
> "A" > "B"
                                "A" < "B" < "C"
false
> "A" < "B"
< true
> "B" < "C"
< true</pre>
> "B" > "C"
false
> "a" > "A"
                                     "A" < "a"
<- true</pre>
> "a" < "A"
false
> "b" > "B"
< true</pre>
> "b" < "B"
false
> "b" < "A"
false
> "b" > "A"
< true
```