

"THE LAST GREAT UNCHARTED FRONTIER"

Visit THE CLIFFS OF VALUE



THE CLIFFS OF VALUE

THE PROMPT & SOME BASIC NUMBERS

- > The JavaScript Prompt, aka "the Console"
- → What gets returned from the code

JavaScript automatically recognizes numbers



OPERATORS

Common Operators used in JavaScript Syntax:

addition

multiplication

subtraction

division

modulus

$$\rightarrow$$
 3

Modulus returns the remainder after division.

ORDER OF OPERATIONS: PEMDAS

Grouping Expressions in JavaScript



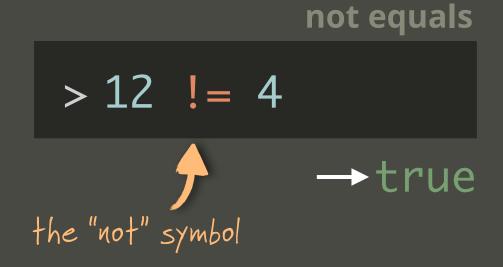
COMPARATORS

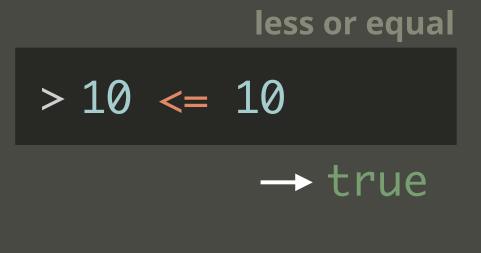
Common Number Comparators used in JavaScript Syntax:

greater than > 6 > 4 —>true "boolean" value

less than

greater or equal
$$> 8 >= -2$$
 \rightarrow true





STRINGS

How JavaScript stores and processes flat text

> "Raindrops On Roses"

→ "Raindrops On Roses"

> "Whiskers On Kittens"

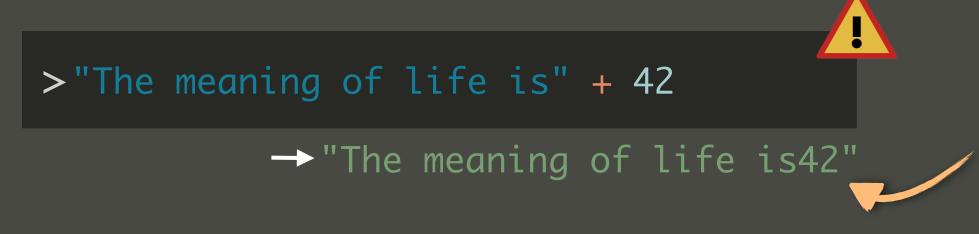
→ "Whiskers On Kittens"

> "Raindrops On Roses" + " And " + "Whiskers On Kittens"

→ "Raindrops On Roses And Whiskers On Kittens"

THESE ARE A FEW OF MY FAVORITE...STRINGS

Concatenation works with numbers and their expressions, too.



Uh oh ... what happened? Concatenation adds no spaces, so we need to add our own.

```
Notice the extra space!

> "The meaning of life is " + 42
```

→ "The meaning of life is 42"

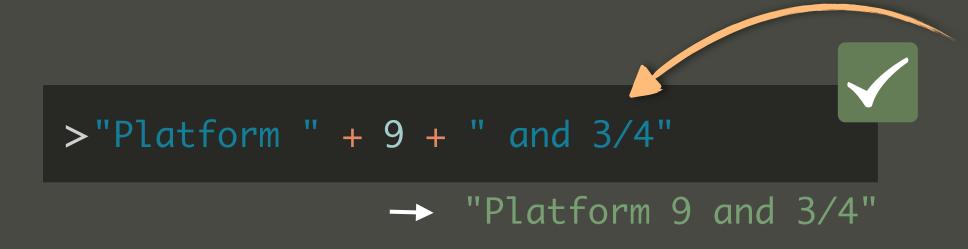


THESE ARE A FEW OF MY FAVORITE...STRINGS

Concatenation works with numbers and their expressions, too.



Expressions get evaluated!



Make strings out of expressions that you want to see in their original format.



SPECIAL CHARACTERS INSIDE STRINGS

Some characters need backslash notation in JavaScript Strings

```
advances to the next "tab stop"
> "Flight #:\t921\t\tSeat:\t21C"
                                       → "Flight #: 921 Seat: 21C"
Adds a quotation mark but without
ending the string too early.
> "Login Password:\t\t\"C3P0R2D2\""
                                  → "Login Password:
                                                               "C3P0R2D2"
```

SPECIAL CHARACTERS INSIDE STRINGS

Some characters need backslash notation in JavaScript Strings

- Places a backslash itself in the String

> "Origin\\Destination:\tOrlando(MCO)\\London(LHR)"

→ "Origin\Destination: Orlando(MCO)\London(LHR)"

shifts the printout to a "new line"

> "Departure:\t09:55A\nArrival:\t14:55P"

→ "Departure: 09:55A

→ Arrival: 14:55P"

STRING COMPARISONS

Checking for matching strings and alphabetical ordering

"Double equals" will compare EXACT contents

> "The Wright Brothers" == "The Wright Brothers"

→ true

> "The Wright Brothers" == "Super Mario Brothers"

"Not equals" returns true if there is a mismatch

→false

> "The Wright Brothers" != "the wright brothers"

Case counts!

→ true

STRING COMPARISONS

The length of strings can be accessed with the .length property

> "antidisestablishmentarianism".length

Returns a number value

Spaces and any non-alphabetic characters are counted, too!

> "One Fish, Two Fish, Red Fish, Blue Fish".length

→ 39

