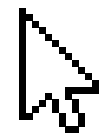




Computer Science : JavaScript

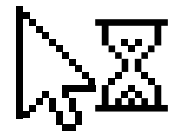


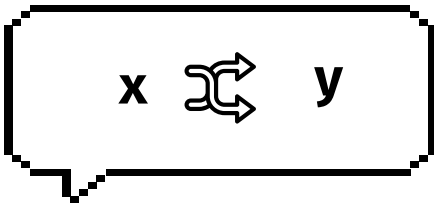
Week 1: Introduction to JavaScript



.js

JavaScript is primarily used for web development and allows you to implement complex features to web pages





01

Vocabulary



Objects

bike



It is a stand alone entity that hold a collection of data and action.

There are several types of built in objects

Objects



Properties

```
bike.color= blue;
```



Properties are data with name and value.
In our example bikes properties include:
model, size, color, weight



Methods

```
bike.start();
```

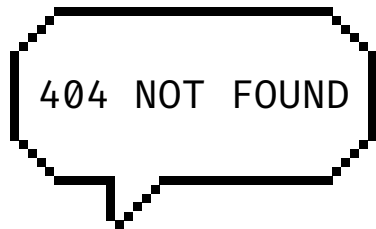


Method is the action that the object will do.

Example: `.start()`, `.brake()`, `.turn()`



02



Console

Panel that displays information



```
console.log();
```

console: object used to interact with the web pages panel

.log() : method that will print data placed in the parentheses

; : always end code with semicolon





console.log()

Examples

`console.log(5)` prints 5

`console.log('Happy')` prints Happy





IDENTIFIED

03

Data Types



Data Types

Numbers: any number including decimals

BigInt: big integers greater than $2^{53}-1$ or less than $-(2^{53}-1)$

String: group of characters enclosed by “” or “

Boolean: two possible values which are true or false

Null: purposeful absence of a value, written as `null`

Undefined: a given value does not exist, written as `undefined`

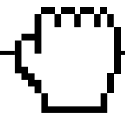




Number

Example: `console.log(40.67)`

```
Prints 40.67
```

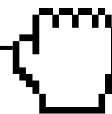




String

Example: `console.log("#Stop")`

Prints `#Stop`





Arithmetic

Addition: +

Subtraction: -

Division: /

Multiplication: *

Remainder: %

Ex: `console.log(7 - 6);` will print 1

`console.log(11 % 3);` will print 2






Strings and Operator (+)

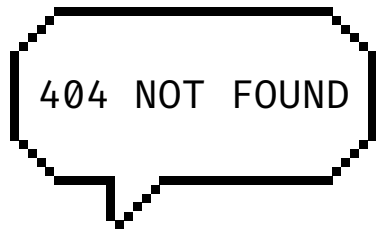
You can use the operator (+) to connect strings

Ex: `console.log('I'm' + ' ' + 'Alan');` will print I'm Alan
`console.log('I am' + 'Alan');` will print I amAlan





04



Properties

Each data type has properties

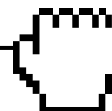


.length

Example: `console.log('Tough'.length);`

This will display the amount of characters in the string.

What will print

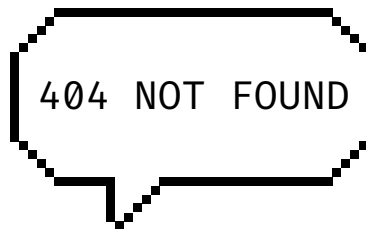




05

Methods

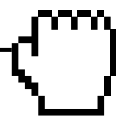
Actions that we can perform





Syntax

We call methods by:
`.methodName()`





Boolean Example

Example:

```
console.log('Hey'.startsWith('H'));
```

Identify the method

What is the value it returns

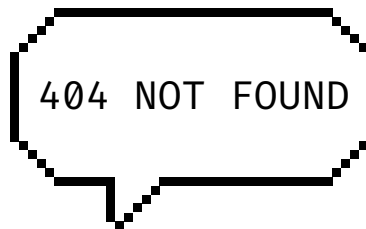




06

Comments

How to type comments





// Single Line

```
console.log('Tough' .length); // Prints 5
```





/* Multi-line*/

```
/*  
I have a lot I want to say  
I just need the space  
*/
```

