

BACKGROUND & GETTING STARTED

GET PPT @:

WHO ARE WE?



freeCodeCamp()

SOUTH KOREA - Seoul

Free Code Camp Seoul

Joined Share Notifications

Discussion Members Events Photos Files Search this group

Write Post Add Photo / Video Create Poll More

Write something...

Amanda Krummel 9 hrs

<http://m.onoffmix.com/event/74681> Django Girls Seoul will have a special presentation/tutorial day this Saturday; 3/4 of the presentations will be in Korean, but they will have some people who can help with translations too. Title is : Metting Pot Seminar August. There will be 4 presentations - CSS , JavaScript , Django for beginners , and Using database with Python.

Like Comment Shares

ADD MEMBERS Enter name or email address...

MEMBERS 604 Members (11 new)

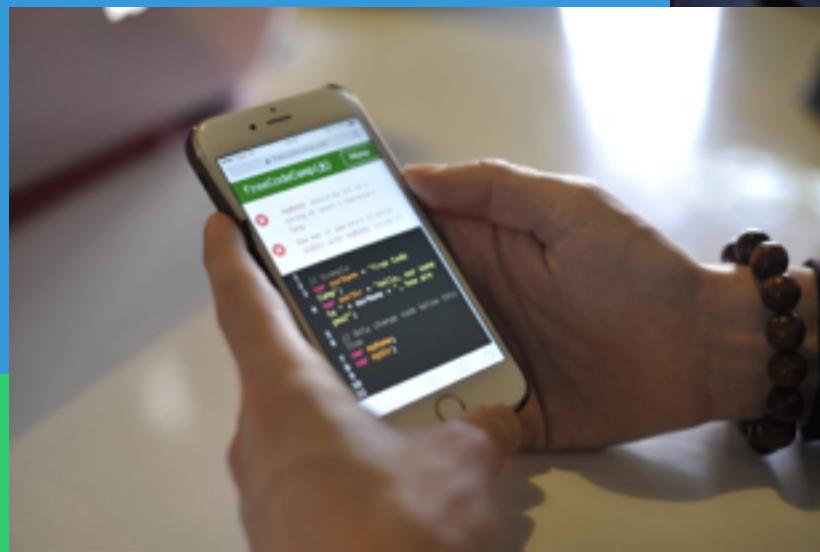
DESCRIPTION Learn to Code at <http://www.freecodecamp.com/> Edit

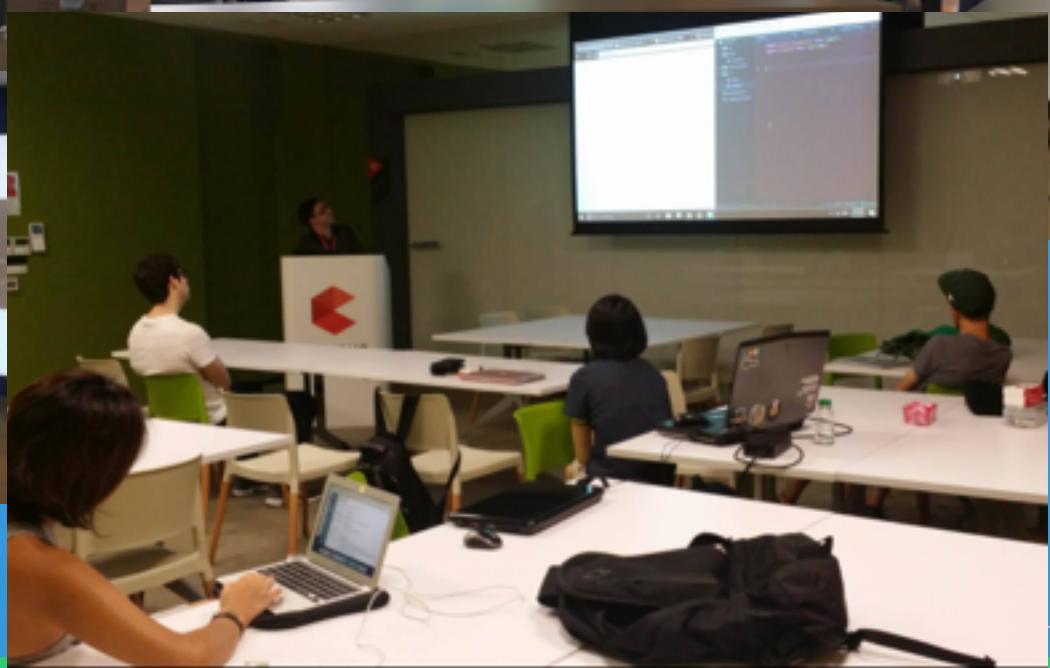
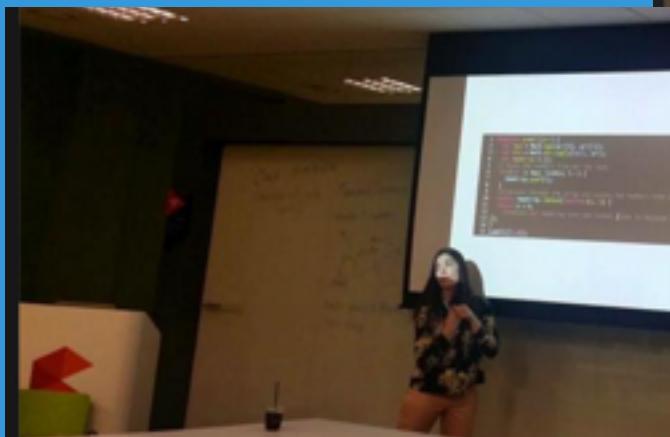
TAGS Add a few descriptive keywords.

CREATE NEW GROUPS Groups make it easier than ever to share with friends, family and communities Create Group

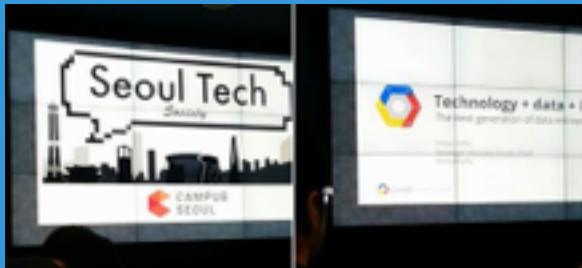
Two smartphones are shown side-by-side. The left phone displays a search interface for groups, with results for "Free Code Camp Seoul" and "Free Code Camp Incheon". The right phone shows a code editor interface with instructions for running tests and a preview of the browser console output.

WE LEARN TOGETHER

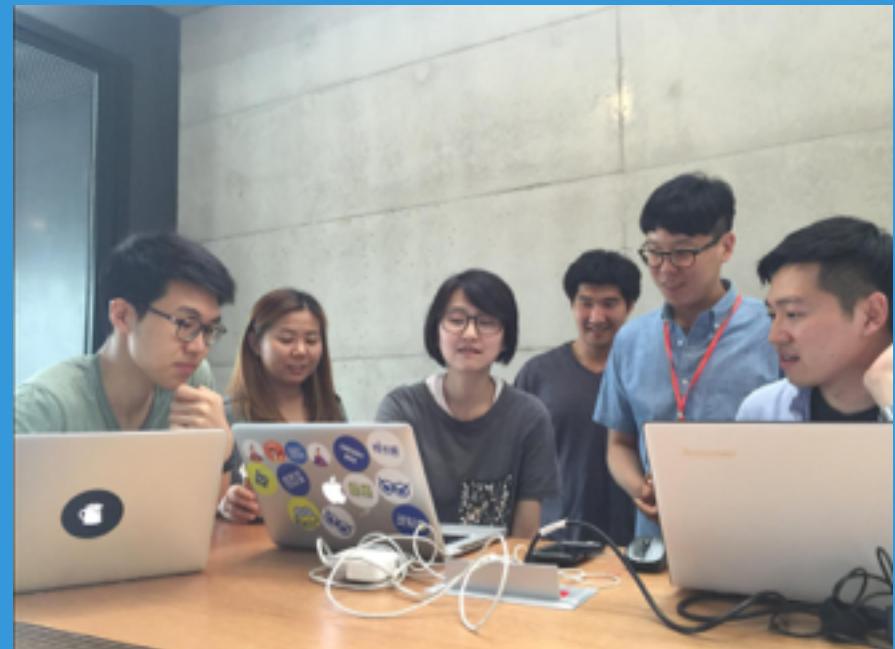
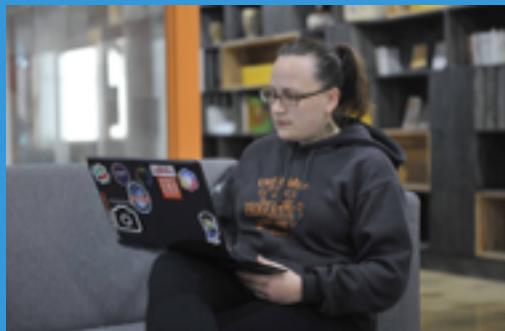




WE JOIN



WE ARE FREE CODE CAMP



AGENDA

1. WHAT IT IS, HISTORY, & PURPOSE
2. GETTING STARTED
 - CONSOLE
 - DOCUMENT.WRITE
 - ALERTS
3. EXAMPLES
 - CONCAT
 - DATE AND TIME
 - ANIMATION WITH JS
4. RESOURCES



WHAT IS JS

OBJECT-ORIENTED COMPUTER PROGRAMMING
LANGUAGE COMMONLY USED TO CREATE
INTERACTIVE EFFECTS WITHIN WEB BROWSERS.



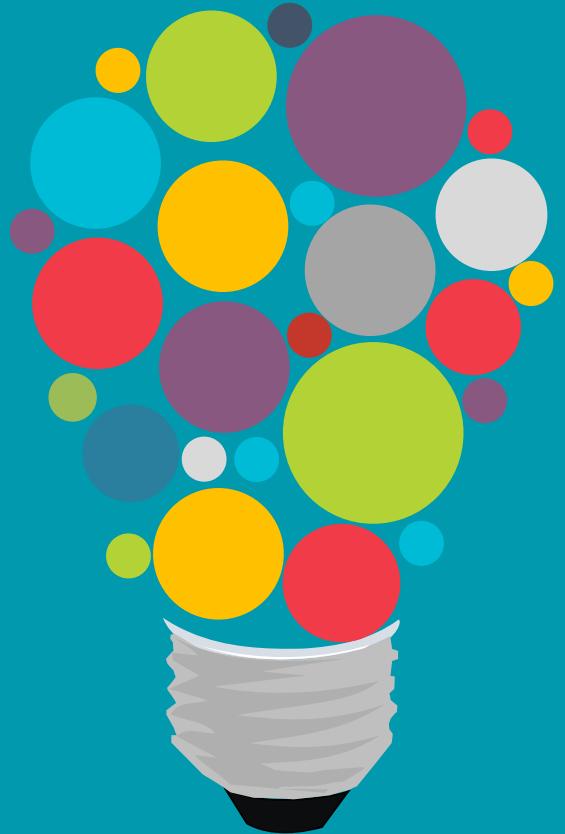
WHAT IS OOP

FOCUS ON OBJECTS:
PROPERTIES DESCRIBE THE OBJECT
METHODS ARE THE ACTIONS YOU CAN PERFORM
EVENTS ARE THINGS THAT CAN HAPPEN TO THE OBJECT



HISTORY OF JS

WHY IT WAS
CREATED EFFECTS
THE WAY IT BEHAVES



HISTORY OF JS

Microsoft
releases Jscript—
implementation of
javascript



1995

1996

1997

2002

2004

2009



Netscape

Brendan Eich creates
Javascript (mocha/
livescript)

JSON

Javascript object
notation release



1997



ES1

ECMAS (standardized
JS) first release



Node.js

fast/UI friendly
designs...2011 share
libraries and create
web servers

jQuery

Javascript library faster
and easier to use



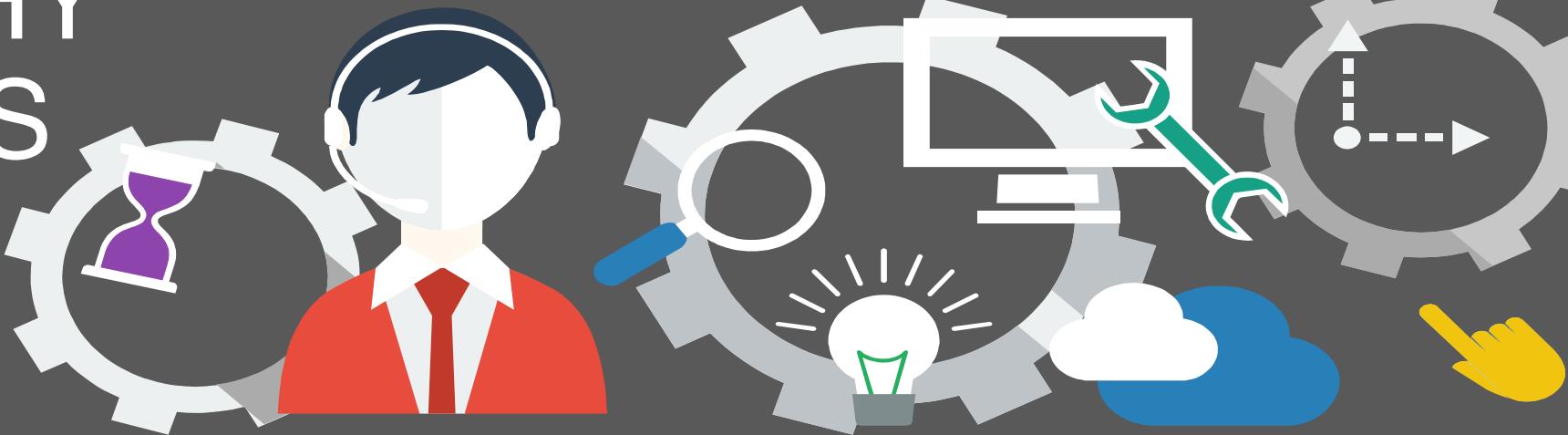
ANGULARJS



ECMAScript 6

JS

WHY JS



DESIGN GOAL: EASIER FOR USERS TO USE FROM ZERO TO HERO

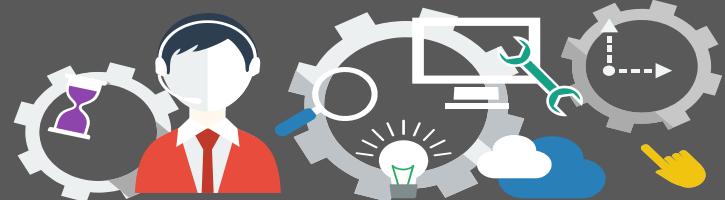
The purpose of JavaScript is to command the browser on what to do. It is a dynamic, weakly typed, **general purpose**, prototype-based scripting language. Java script support object-oriented, imperative, and functional programming styles.

Javascript's main purpose is to make looking at websites better. It is used on **dynamic** websites and in enhancing user menus.

JavaScript is a wonderful technology to use on the web. It is not that hard to learn and it is very versatile. It plays nicely with other web technologies — such as HTML and CSS — and can even **interact with plugins** such as Flash.

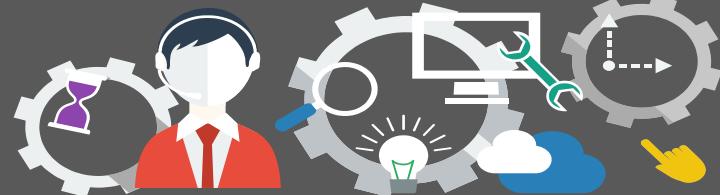
Javascript is used for add **functionality**, validate forms, communicate with the server, and much more.

WHY JAVASCRIPT: ANALYZING THE VALUE OF LEARNING THE PROGRAMMING LANGUAGE



IS IT FREELY AVAILABLE?

POSSIBLY THE MOST OPEN PROGRAMMING LANGUAGE
AVAILABLE



IS IT USEFUL IN PRACTICE?

-COMPLEMENTED BY HTML 5 AND CSS

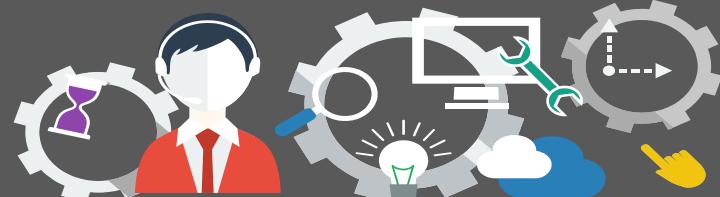
-ABUNDANCE OF LIBRARIES

-NODE.JS

-JSON

-COUCHDB

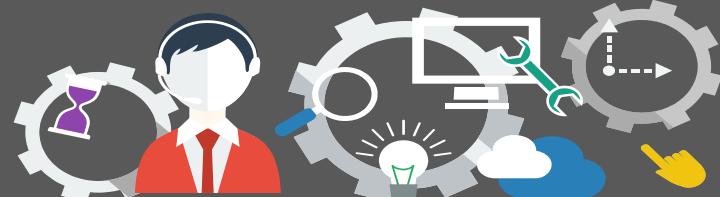
- MONGO



DOES IT HAVE GOOD TOOLS, ESPECIALLY GOOD INTEGRATED DEVELOPMENT ENVIRONMENTS?

WITH NODE.JS CAN RUN VIA A SHELL (COMMAND LINE/
BASH)

WORKS WELL IN OPEN SOURCE TEXT EDITORS SUCH AS
BRACKETS AND LIGHT TABLE



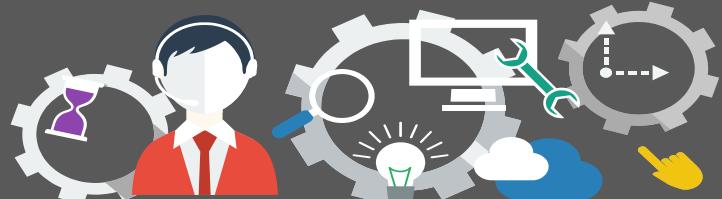
IS IT FAST ENOUGH TO DO WHAT YOU WANT TO DO?

IN THE PAST—A SLOW INTERPRETER

BUT

FAST ENOUGH FOR MOST APPLICATIONS

70% AS FAST AS C++

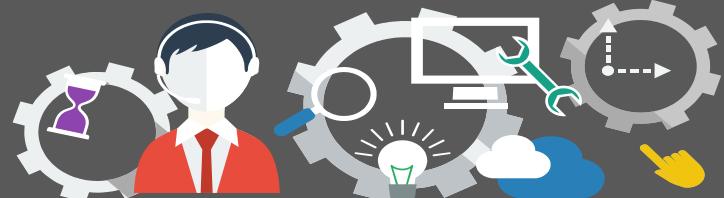


IS IT WIDELY USED?

YES, THE BENEFITS OF BEING WIDELY USED ARE MORE DOCUMENTATION AND SUPPORT

IN ADDITION

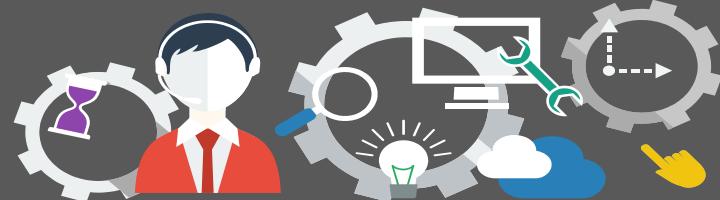
MORE PROGRAMMERS KNOW THIS LANGUAGE



DOES IT HAVE A FUTURE?

EVOLVING STEADILY

SUPPORTED BY MANY COMPANIES



TIME TO CODE



GETTING STARTED WITH JS

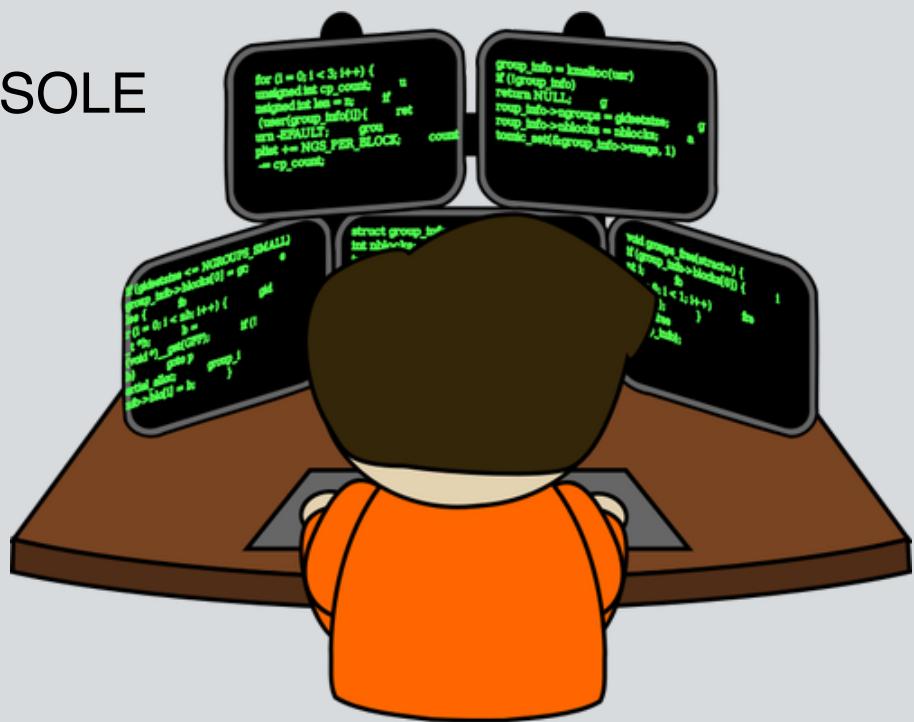
ONLINE EDITORS

[CODEPEN.IO](https://codepen.io)

[HTTPS://JSFIDDLE.NET](https://jsfiddle.net)

[HTTPS://JS.DO](https://js.do)

CONSOLE



OR....

YOUR TEXT EDITOR:

IN THE SAME FILE
<SCRIPT>... </SCRIPT>



```
1
2
3  <html>
4  <title>
5  Getting Started with Javascript
6  </title>
7  <body>
8  <h1>
9  Hello Django Girls
10 </h1>
11
12 <script>//or <script language="JavaScript"> opens js in regular html files :)///
13 document.write("Welcome to Javascript");
14 </script>
15 </body>
16 </html>
```

```
1 <html>
2   <head>
3     <!-- <link rel="stylesheet" type="text/css" href="style.css" /> -->
4     <script src="gettingStarted.js"></script>
5   </head>
6   <title>
7     Getting started with Javascript
8   </title>
9   <body>
10  <h1>
11    Hello Django Girls!
12  </h1>
13  </body>
14 </html>
15
```



```
1 alert("Easy as Pie");
2
3
4
```

OR...

THE CLEANER WAY

LET'S PRACTICE MORE

1. CONCAT
2. RETRIEVING DATE AND TIME
3. ANIMATION



CONCATENATE ME

.CONCAT()

[HTTPS://DEVELOPER.MOZILLA.ORG/EN-US/DOCS/WEB/JAVASCRIPT/REFERENCE/GLOBAL_OBJECTS/STRING/CONCAT](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String/concat)



CONCATENATE ME



```
<script>
    var str1 = "Hello ";
    var str2 = "world!";
    var res = str1.concat(str2);

    document.write(res);

</script>
```

DATE AND TIME

GET ELEMENT BY ID () [HTTPS://DEVELOPER.MOZILLA.ORG/EN-US/DOCS/WEB/API/DOCUMENT/GETELEMENTBYID](https://developer.mozilla.org/en-US/docs/Web/API/Document/getElementById)

DATE() [HTTPS://DEVELOPER.MOZILLA.ORG/EN/DOCS/WEB/JAVASCRIPT/REFERENCE/GLOBAL_OBJECTS/DATE](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/Date)

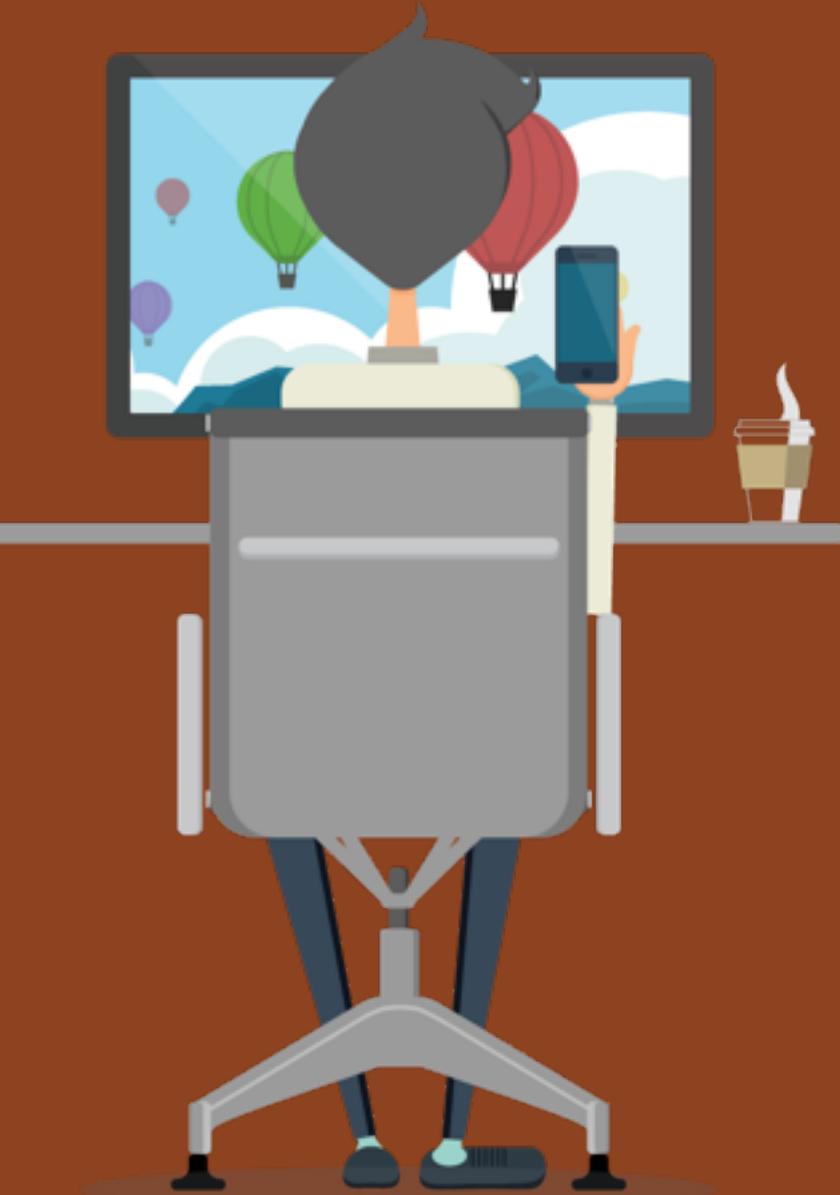
ON CLICK

The HTML DOM Tree of Objects



With the object model, JavaScript gets all the power it needs to create dynamic HTML:

- JavaScript can change all the HTML elements in the page
- JavaScript can change all the HTML attributes in the page
- JavaScript can change all the CSS styles in the page
- JavaScript can remove existing HTML elements and attributes
- JavaScript can add new HTML elements and attributes
- JavaScript can react to all existing HTML events in the page
- JavaScript can create new HTML events in the page



DATE AND TIME

```
2  <!--ex. 1 <script>
3  var a = Date();
4
5  document.write(a);
6
7  </script>-->
8
9  <!--ex. 2<html>
10   <body>
11     <h1> What is the date and time?</h1>
12     <button type="button" onclick="innerHTML = Date()"> click me to find out
13     </button>
14   </body>
15 </html>-->
16
17 <!--ex. 3-->
18
19 <html>
20
21 <body>
22
23 <h1> What is the date and time? </h1>
24
25 <button type="button"
26 onclick= "getById('date').innerHTML = Date()"> Click me to find out</button>
27
28 <p id="date"></p>
29
30   </body>
31 </html>
32
```



ANIMATE ME

SETINTERVAL/CLEARINTERVAL —

[HTTPS://
DEVELOPER.MOZILLA.ORG/EN-US/
DOCS/WEB/API/WINDOWTIMERS/
SETINTERVAL](https://developer.mozilla.org/en-US/docs/Web/API/WindowTimers/setInterval)



ANIMATE ME

```
1  <!DOCTYPE html>
2  <html>
3  <style>
4  #container {
5      width: 400px;
6      height: 400px;
7      position: relative;
8      background: yellow;
9  }
10 #animate {
11     width: 50px;
12     height: 50px;
13     position: absolute;
14     background-color: red;
15 }
16 </style>
```

```
17 <body>
18
19 <p>
20 <button onclick="myMove()">Click Me</button>
21 </p>
22
23 <div id ="container">
24 <div id ="animate"></div>
25 </div>
26
27 <script>
28 function myMove() {
29     var elem = document.getElementById("animate");
30     var pos = 0;
31     var redSquare = setInterval(frame, 5);
32     function frame() {
33         if (pos == 350) {
34             clearInterval(redSquare);
35         } else {
36             pos++;
37             elem.style.top = pos + 'px';
38             elem.style.left = pos + 'px';
39         }
40     }
41 }
42 </script>
43
44 </body>
45 </html>
46
47
```



HTTPS://WWW.FREECODECAMP.COM/

HTTPS://DEVELOPER.MOZILLA.ORG/EN-US/DOCS/WEB/
JAVASCRIPT

HTTP://WWW.W3SCHOOLS.COM/Javascript/

HTTPS://WWW.CODEACADEMY.COM/LEARN/JAVASCRIPT



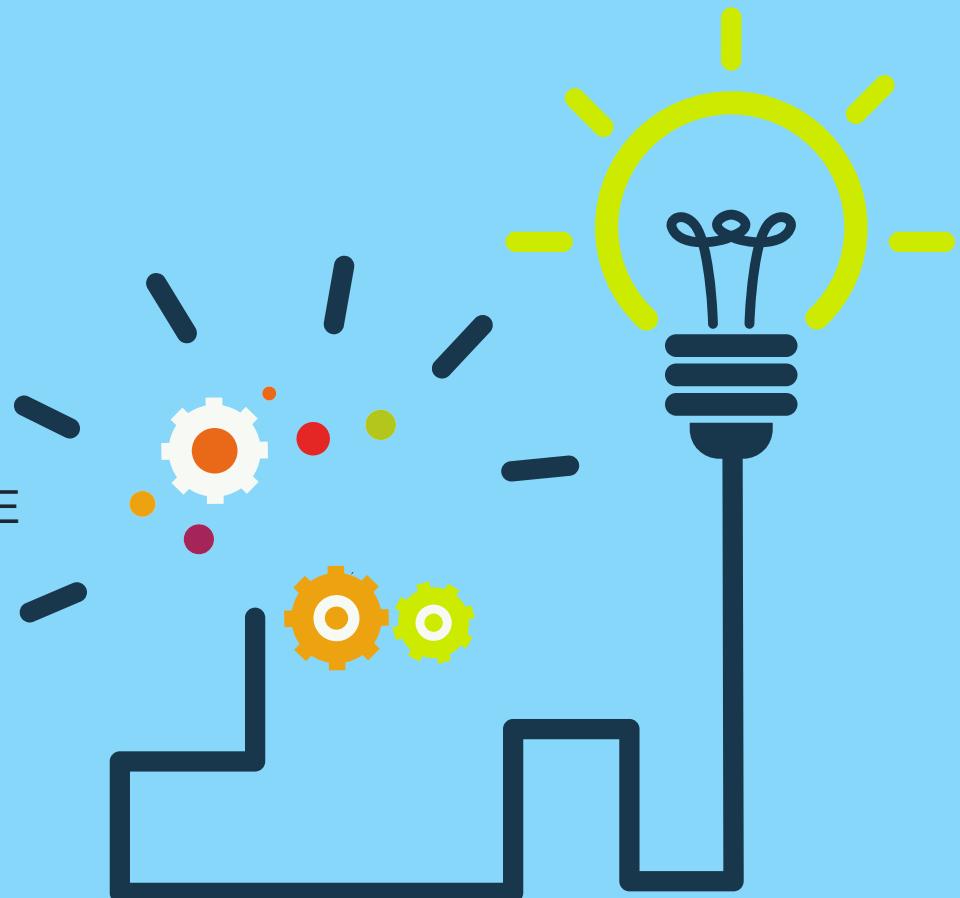
RESOURCES

SUMMARY / CONCLUSION

WE COVERED: HISTORY AND PURPOSE OF JAVASCRIPT

CONSOLE

YOU LEARNED: DOCUMENT.WRITE,
ALERT, GET-ELEMENT, CONCAT, AND
ANIMATION





Q&A SESSION



A yellow rectangular stage is centered against a yellow background. The stage is framed by two red curtains on the left and right sides. In the foreground, there are several rows of red theater-style seats facing the stage. The stage itself has a slight curve at the top and is bordered by a thin black line.

THANK YOU !

DJANGO GIRLS

WHAT IS OBJECT ORIENTED PROGRAMMING? [HTTPS://
WWW.YOUTUBE.COM/WATCH?V=NUL8LCBEN2Y](https://www.youtube.com/watch?v=NUL8LCBEN2Y)

A BRIEF HISTORY OF JAVASCRIPT: [HTTPS://WWW.YOUTUBE.COM/RESULTS?
SEARCH QUERY=JAVASCRIPT+HISTORY+AND+PURPOSE](https://www.youtube.com/results?search_query=javascript+history+and+purpose)

WHY JAVASCRIPT: [HTTP://WWW.WEBICY.COM/WEB-DESIGN/66014-
PURPOSE-JAVASCRIPT.HTML](http://www.webicy.com/web-design/66014-purpose-javascript.html)