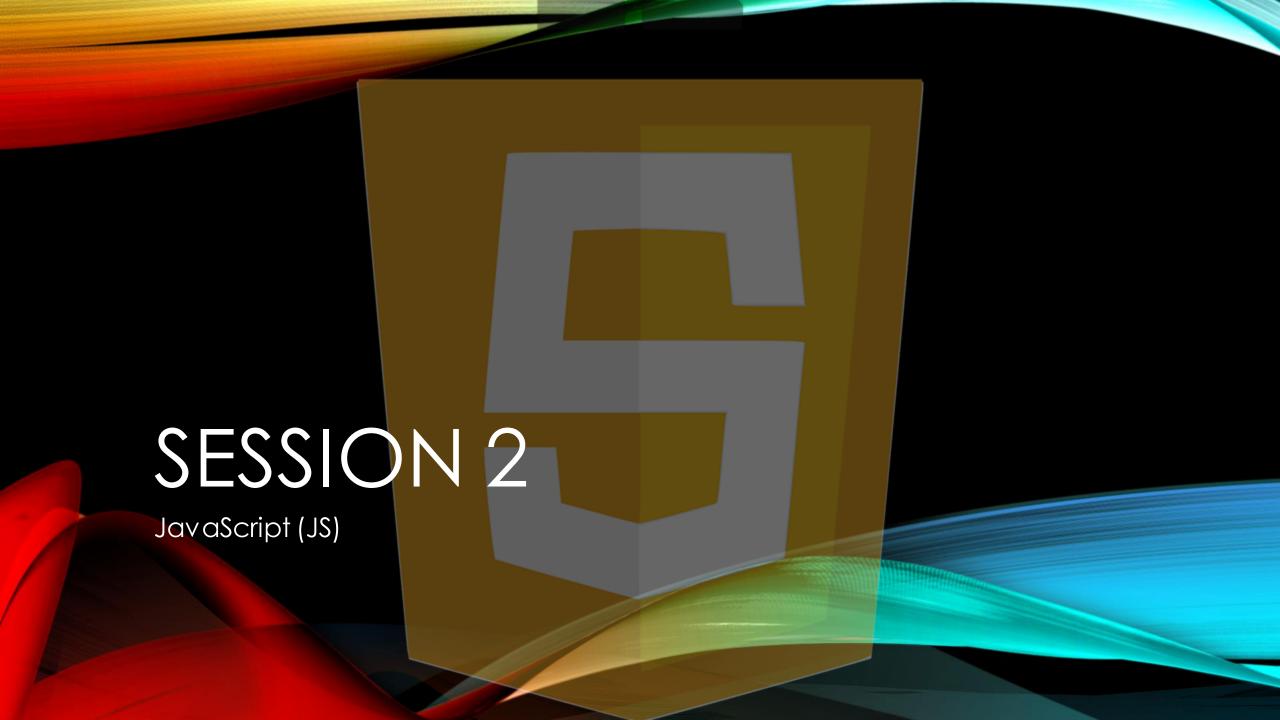


BASIC WEB-DEV TUTORIAL

By Edith @CSClub IIITDM



INTRODUCTION

- What is JavaScript?
- => JavaScript is a Scripting Language mostly used for client-side web development
- => JavaScript is an Implementation of ECMAScript Standards.
- (ECMA Stands for European Computer Manufacturers Association)

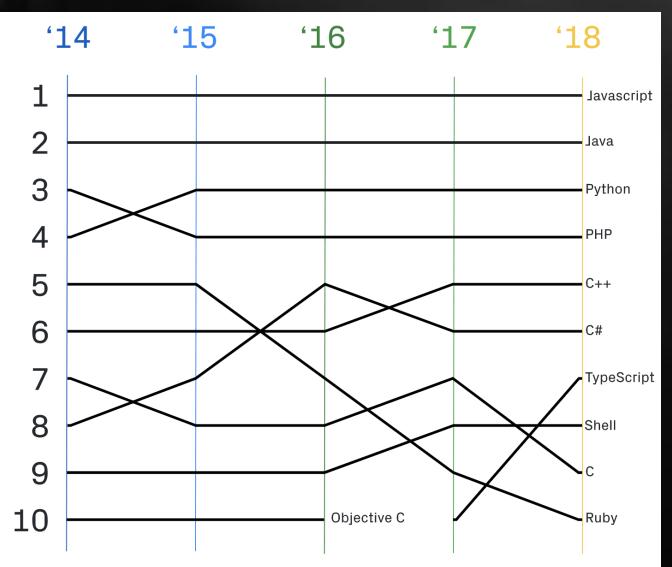
```
modifier_ob.
  mirror object to mirror
mirror_mod.mirror_object
peration == "MIRROR_X":
eirror_mod.use_x = True
irror_mod.use_y = False
__mod.use_z = False
 _operation == "MIRROR_Y"
Irror_mod.use_x = False
lrror_mod.use_y = True
 lrror_mod.use_z = False
 operation == "MIRROR_Z"
  _rror_mod.use_x = False
  lrror_mod.use_y = False
 lrror_mod.use_z = True
 melection at the end -add
  ob.select= 1
  er ob.select=1
   ntext.scene.objects.action
  "Selected" + str(modified
   irror ob.select = 0
  bpy.context.selected_obj
   ata.objects[one.name].se
  int("please select exaction
  --- OPERATOR CLASSES ----
    pes.Operator):
     X mirror to the selected
   ject.mirror_mirror_x"
  ext.active_object is not
```

WHY TO LEARN JAVASCRIPT?

Top languages over time

You're coding on GitHub in hundreds of programming languages, but JavaScript still has the most contributors in public and private repositories, organizations of all sizes, and every region of the world.

This year, TypeScript shot up to #7 among top languages used on the platform overall, after making its way in the top 10 for the first time last year. TypeScript is now in the top 10 most used languages across all regions GitHub contributors come from—and across private, public, and open source repositories. **



GETTING STARTED

JavaScript ("JS" for short) is a full-fledged dynamic programming language that can add interactivity to a website. It was invented by Brendan Eich (co-founder of the Mozilla project, the Mozilla Foundation, and the Mozilla Corporation).

JavaScript is versatile and beginner-friendly. With more experience, you'll be able to create games, animated 2D and 3D graphics, comprehensive database-driven apps, and much more!

JavaScript itself is relatively compact, yet very flexible. Developers have written a variety of tools on top of the core JavaScript language, unlocking a vast amount of functionality with minimum effort. These include:

GETTING STARTED

- Browser Application Programming Interfaces (APIs) built into web browsers, providing functionality such as dynamically creating HTML and setting CSS styles; collecting and manipulating a video stream from a user's webcam, or generating 3D graphics and audio samples.
- Third-party APIs that allow developers to incorporate functionality in sites from other content providers, such as Twitter or Facebook.
- Third-party frameworks and libraries that you can apply to HTML to accelerate the work of building sites and applications.
- And much more.

GETTING STARTED

All You need is:

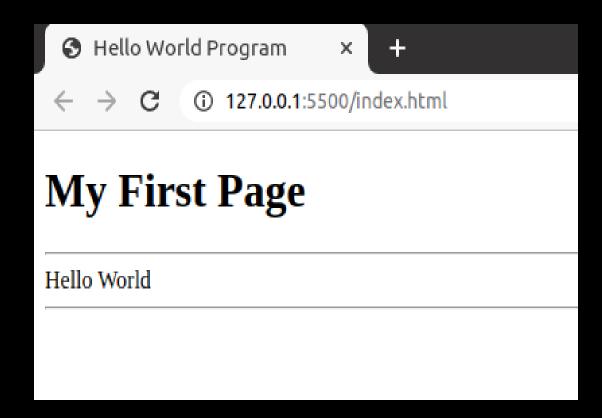
- > A Browser
 - Google Chrome, Mozilla Firefox, for testing
 - Mozilla Firefox for developers, Polypane, Opera, Blisk, Google chrome for developers, Safari for Developers.
- > A Text Editor.
 - Sublime Test3, VS Code, Brackets, Atom, Vim, Notepad.
- > References from internet.
 - W3schools, MDN Web Docs, Codeacedemy, etc.
- Some Motivation.
 - IDK get it from somewhere.

HELLO WORLD USING JAVASCRIPT

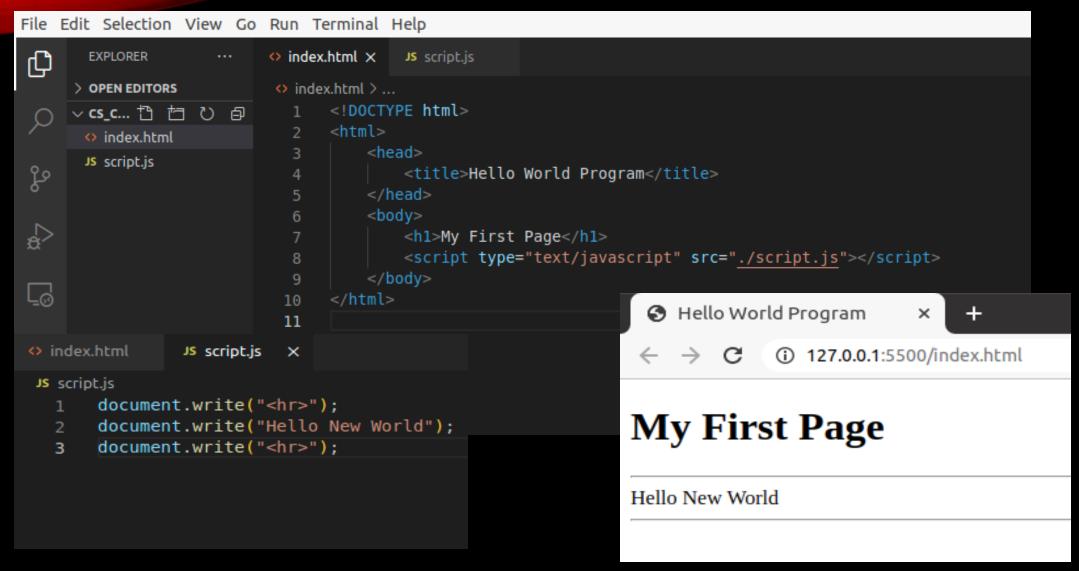
```
File Edit Selection View Go Run Terminal Help
       o index.html ×

⇔ index.html > ⇔ html

             <!DOCTYPE html>
             <html>
                      <title>Hello World Program</title>
                  </head>
                  <body>
                      <h1>My First Page</h1>
                      <script>
                          document.write("<hr>");
                          document.write("Hello World");
                          document.write("<hr>");
                      </script>
品
                  </body>
             /html
```



HELLO WORLD USING JAVASCRIPT





EMBEDDING JAVASCRIPT

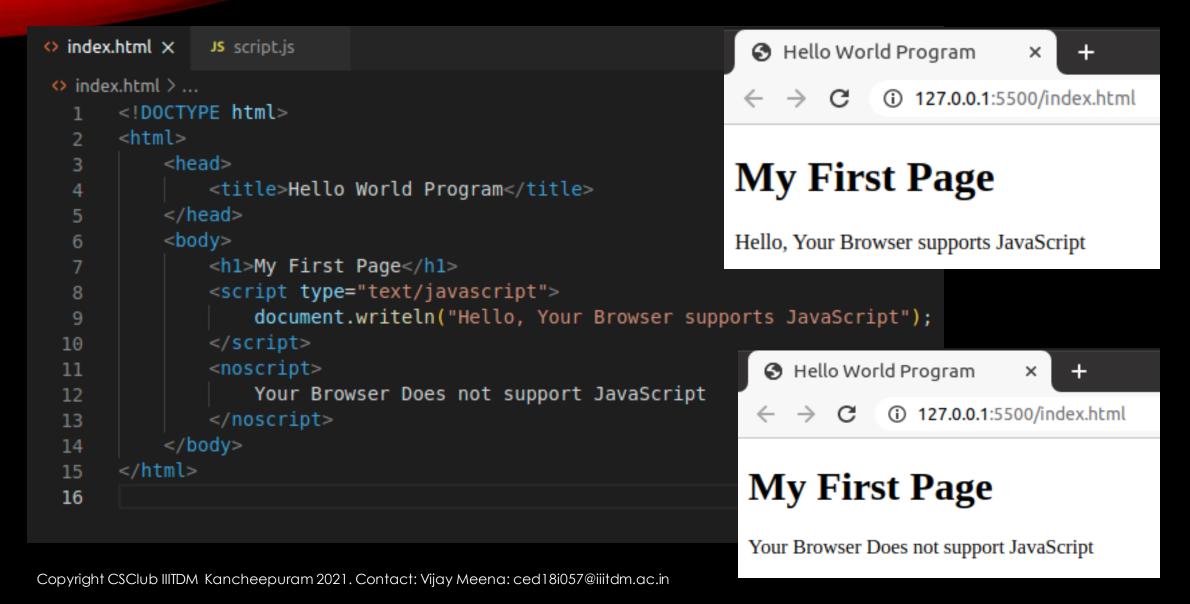
• As Scripts are interpreted in the browser in the order it appears.

So, it does matter where you place your script tag.

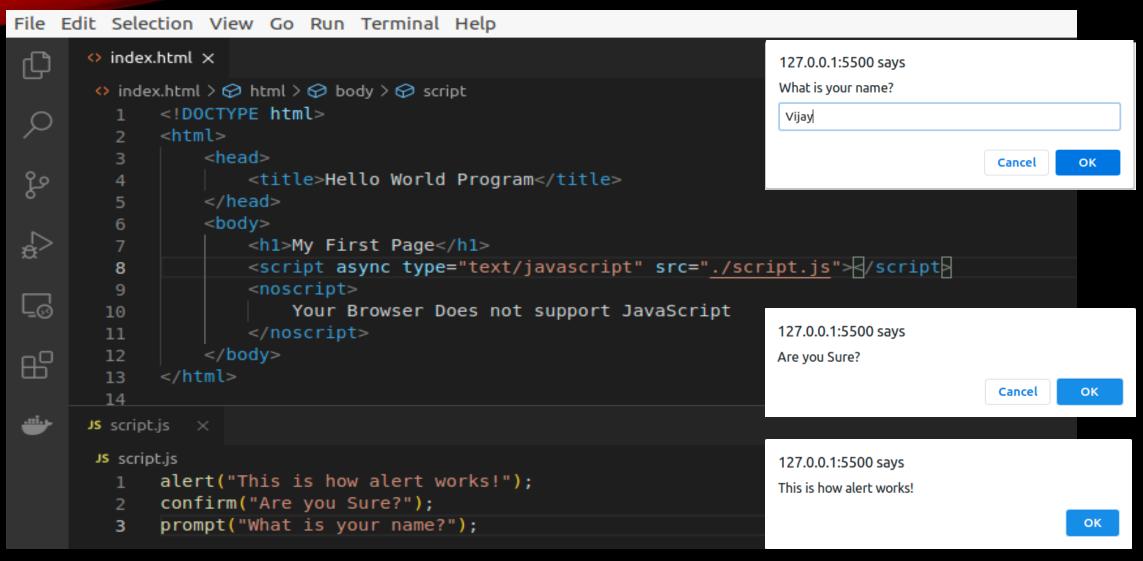
- But what if the browser doesn't support JavaScript?
- => Then you can just hide it.
- Let's See how do we do that in the next slide.

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HIDING JAVASCRIPT FROM INCOMPATIBLE BROWSERS



ALERT();, CONFIRM();, AND PROMPT();



FUNCTIONS IN JAVASCRIPT

```
File Edit Selection View Go Run Terminal Help
Q
       index.html ×

    index.html > 
    html > 
    head > 
    script

                                                                                                Hello World Program
              <!DOCTYPE html>
              <html>
                                                                                                           (i) 127.0.0.1:5500/index.html
                  <head>
                       <title>Hello World Program</title>
                      script async type="text/javascript" src="./script.js" </script>
                                                                                              My First Page
                       <noscript>
                           Your Browser Does not support JavaScript
                                                                                               click to get result
                       </noscript>
                                                                                              12
                  </head>
                  <body>
                      <h1>My First Page</h1>
                       <button onclick="multiply(4, 3);">click to get result</button>
昭
                       <div class="new" id="idToRef"></div>
                  </body>
              </html>
       JS script.js
        JS script.js > ...
              function multiply(num1, num2){
                  return document.getElementById('idToRef').innerHTML = num1*num2;
              };
```

LET'S BEGIN WITH HANDS ON PRACTICAL

- Write a Calculator Program in JavaScript.
- Download the required html files from my GitHub repository from this link if you want the code locally on your computer.
 - https://github.com/VijayMeena701/CSClub_Sessions
- Follow me along to complete the code.
- Create a Toggle button for menu bar.
- Next, we'll see how to make a slide show of images with JavaScript.