ANECO ACADEMY

JS-INTRODUCTION

Agenda

- Introduction to JavaScript
- Why JavaScript?
- How to Add JavaScript?
- Difference between – HTML/CSS/JS
- Understanding DOM
- DOM Methods
- Events & Functions
- Variables & DataTypes
- Operators
- Conditional Statements
- Loops
- Arrarys

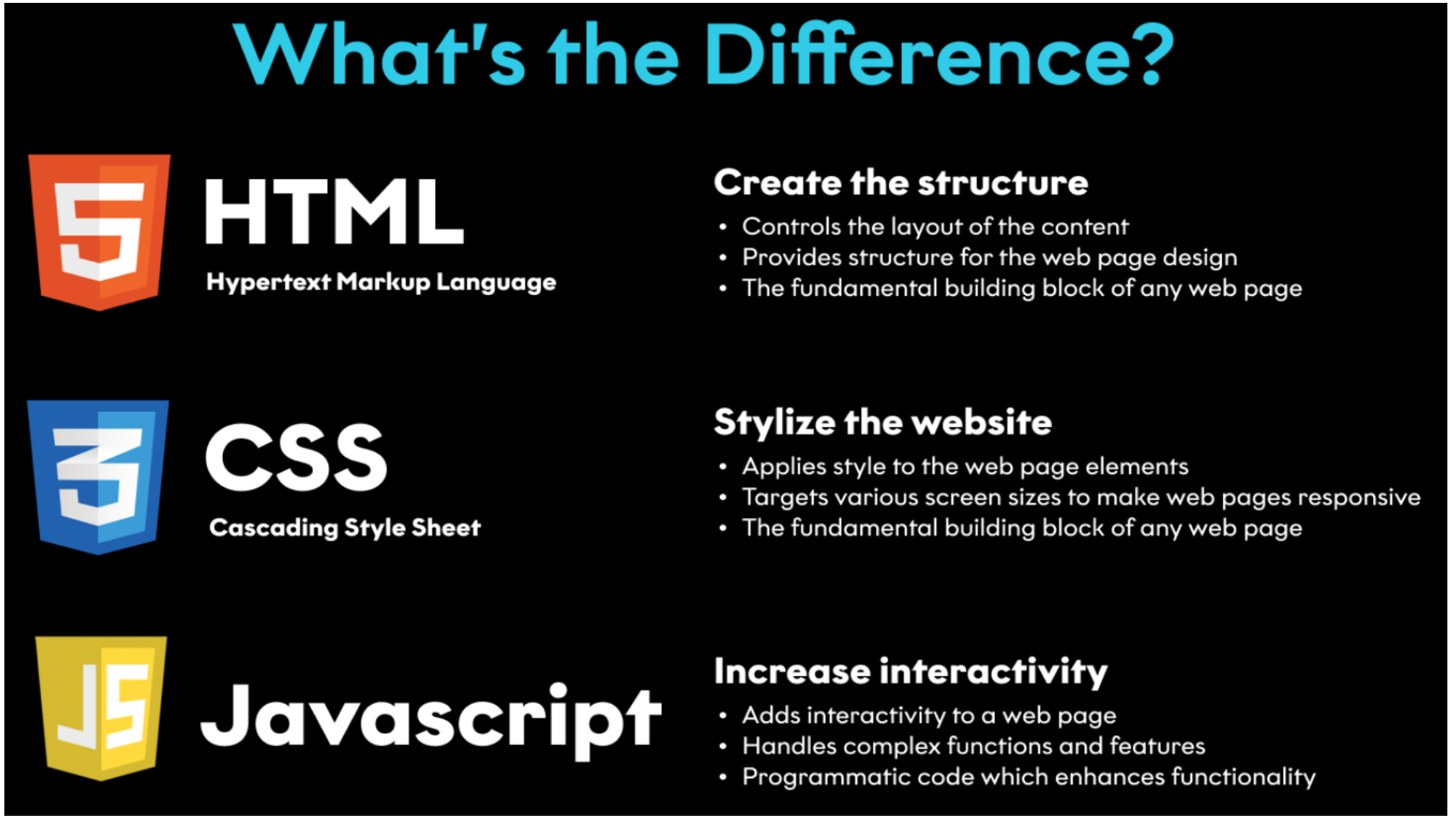
What is JavaScript?

- JavaScript is a client side scripting language (interpreted programming language)
- JavaScript make web pages interactive
- Open source and cross-platform
- Case sensitive
- Most commonly used as a part of web pages
- JS was created to make web pages more Dynamic (Change content on a page directly from inside the browser)
- Supported by all major browsers and enabled by default

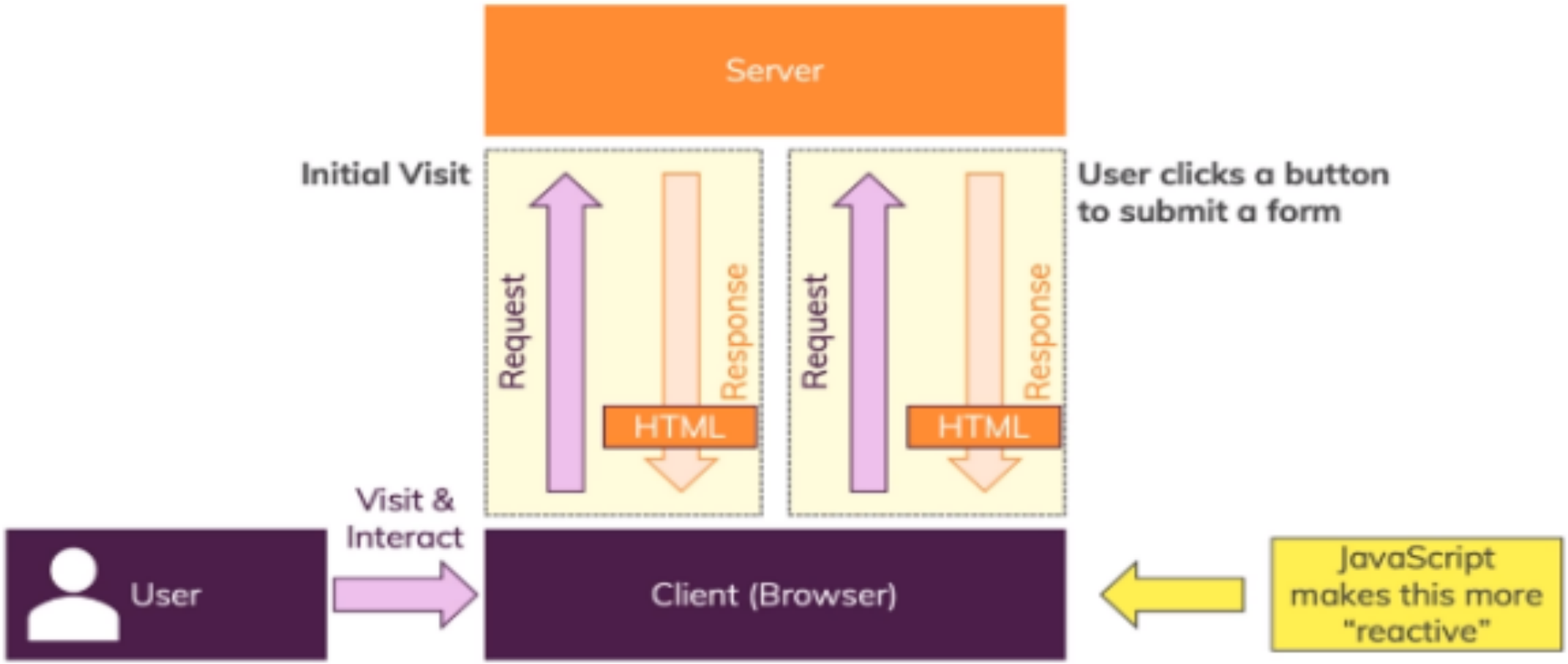
Why JavaScript?

- JavaScript adds behavior to web pages
- Show or hide more information with the click of a button
- Change the color of a button when the mouse hovers over it
- Less server interaction
- Immediate feedback to the visitors

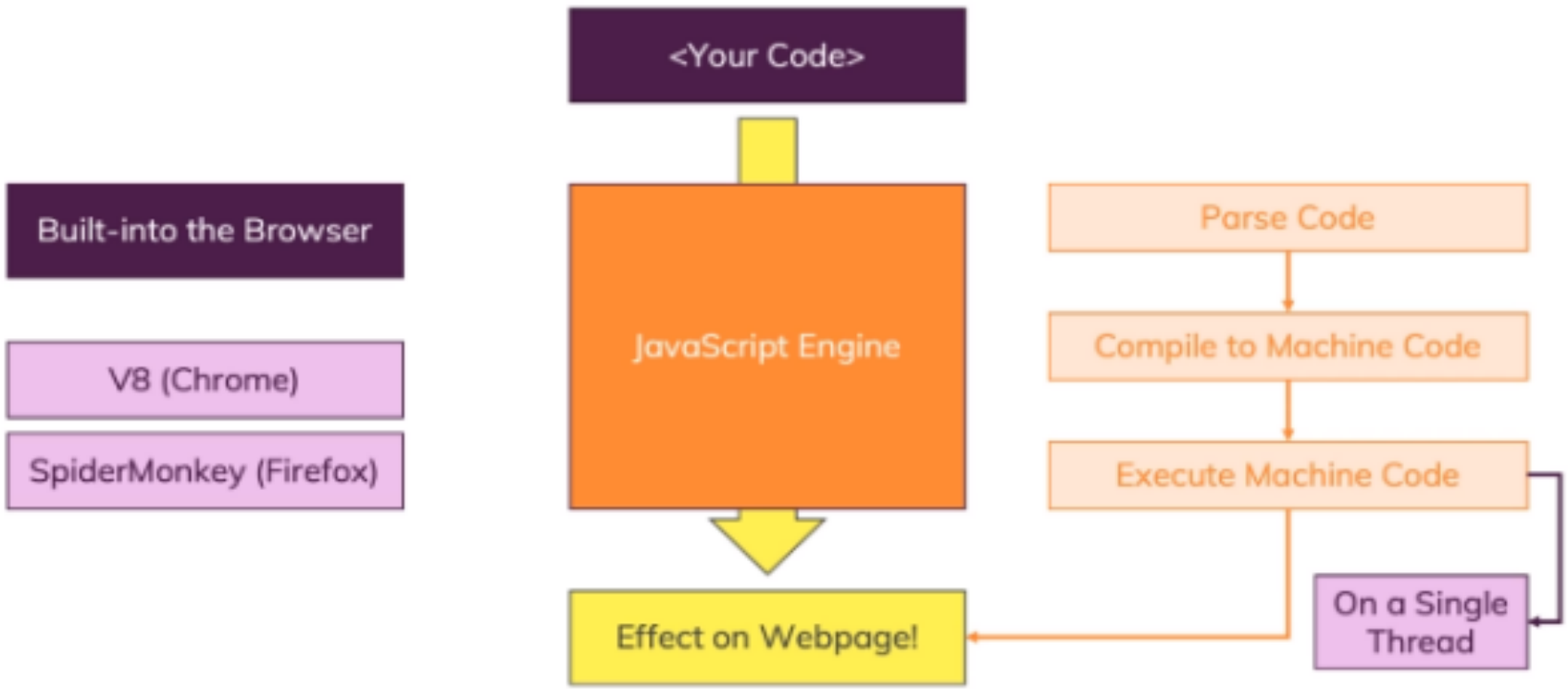
HTML, CSS & JavaScript



How do Web Pages Work?



How is JavaScript Executing?



JS in Browser side vs Server side

Browser-side	"Other" (e.g. Server-side)
JavaScript was invented to create more dynamic websites by executing in the browser!	Google's JavaScript Engine (V8) was extracted to run JavaScript anywhere (called "Node.js")
JavaScript can manipulate the HTML code, CSS, send background Http requests & much more	Node.js can be executed on any machine and is therefore often used to build web backends (server-side JavaScript)
JavaScript CAN'T access the local filesystem, interact with the operating system etc	Node.js CAN access the local filesystem, interact with the operating system etc. It CAN'T manipulate HTML or CSS

Separate Module!

How to Add JavaScript

- **Internal JS** - Internal JavaScript code is code that's placed anywhere within the web page between the HTML tags

```
<script>
 alert("Happy Learning");
</script>
```

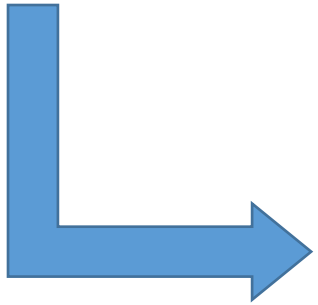
- **External JS**
  - JavaScript code placed in a file separate from the HTML code is called external Javascript.
  - External JavaScript code is written and used in the same way as internal Javascript.
  - The file should have the ".js" extension.

```
<script src="myScript.js"></script>
```

Interact with HTML using JS

- **Using Document Object**

```
document.write("Hello World!");
document.write("<h1>Hello World!</h1><p>Have a nice day!</p>");
document.write(Date());
document.write("Hello World! <br>");
document.write("Have a nice day!");
```



Hello World!

Hello World!

Have a nice day!

Thu Dec 16 2021 08:47:01 GMT+0530 (India Standard Time)Hello World!
Have a nice day!