What Is JavaScript ?

~ not to mention what does it do

JavaScript

1995

Created by Netscape

1996

Completely Integrated and made a standard

What Is JavaScript?

- JavaScript is a popular client-side scripting language that is used to develop products and applications to run in a web browser.

Clark, Nathan. JavaScript: Programming Basics for Absolute Beginners (Step-By-Step JavaScript Book 1) (p. 3). Nathan Clark. Kindle Edition.

- JavaScript has been used as a base to develop most of the popular frameworks around, such as Node.js, AngularJS and JQuery. Along with HTML and CSS, JavaScript is highly used to developer web based applications hosted on the internet. Almost all applications that you see on the web will have JavaScript running in some form or another.

Very Simple JavaScript Program

```html
<!DOCTYPE html>
<html>
<body>
<h1>JavaScript Tutorial</h1>
<p id="demo"></p>
<script>
document.getElementById("demo").innerHTML = "Hello World";
</script>
</body>
</html>
```
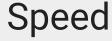
Goals

~ JS was created with these goals in mind

- Speed
- Always Running
- Working with the Dom
- Working with the Browser

Speed

JavaScript has a fast execution time due to its simplistic nature. It's because of its fast nature that it has such a widespread popularity. Since it has no server side component and it runs only on the client side, there is no latency or delay. In contrast, server-side applications need to traverse across the network to do the required computing.

Always Running

JavaScript will always try and run the code wherever possible. Even if the code fragment has a human element of error, the JavaScript engine will still try to run the code. An example of this is given below.

Working with DOM

JavaScript is built to work with the structure of an HTML document. HTML is the bread and butter of a web page and JavaScript has been made to work with the elements in an HTML document. The example below shows how the paragraph element in an HTML document can be modified.

Working with Browser

JavaScript is also designed to work with many browsers and has the capability of getting information from the browser window it is running in.

Lets See Some Examples