My complete guide to JavaScript

**References are borrowed from**

1.JavaScript the complete guide 2021 ([**Maximilian Schwarzmüller**](https://www.udemy.com/user/academind/))

2.The Modern JavaScript Tutorial

3. javascript info

By

Dwadasi Siva Teja

What is JavaScript?

JavaScript is a high-level Object oriented, multiparadigm programming language. This is used to manipulate the content in the browser.

Uses of the JavaScript:

1. Dynamic effects and web applications in the browser.
2. Web applications on the web servers.
3. For creating the native mobile applications.
4. Native desktop applications.

**Chapter -1**

**Introduction to JavaScript or what is JavaScript?**

**What is JavaScript?**

**JavaScript is a dynamic and weakly typed programing language which is compiled at run time. It can be executed as a part of webpage in browser directly or directly on any machine.**

**It was created to make web pages more dynamic initially named as LiveScript but due to the popularity of java it was name as a JavaScript**

**Java and JavaScript are two independent languages and it has nothing to do with the java**

**Why is JavaScript called dynamic and weakly type language?**

1. JavaScript unlike other languages is complied and executed at the time of fly.
2. It is also called as the weakly typed language because it does not have pre-defined datatype assigned to the variables declared.

**How is JavaScript compiled and executed in browser or in host machine?**

Browsers have JavaScript engine which is responsible for the compiling and execution.

Ex: V8 in chrome, chakra in IE, SpiderMonkey in Firefox

In host machines requires V8 engine i.e. node.js

**Environment set up and IDE for JavaScript**

Install the node.js for running the JavaScript in the machine and use VS Code as IDE with extensions.

**Chapter-2**

**JavaScript Fundamentals**

**Running the JavaScript in the browser**

<script>

< ----- JavaScript program ------ >

</script>

Running the external JavaScript program

<script src=’js path’></script>

**Running the JavaScript in the host environment**

node ex.js where ex.js is the JavaScript file

**“use strict”**

In order to work the JavaScript in the modern way we specify “use strict” at the top of the js file.