

JavaScript Programming

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Introduction

What is Java Script?

- ❖ Java Script is a scripting programming language we can execute its code inside the web browser.
- ❖ Java Script appeared for the first time in 1995, as a scripting programming language supported by Netscape Navigator.

ECMA Script

- ❖ In 1997 Java Script 1.1 was submitted to the European Computer Manufacturers Association (ECMA).
- ❖ ECMA Script, defined by ECMA-262, is the standard JavaScript programming language.
- ❖ The ECMA Script specification defines the very basic parts of the JavaScript programming language, including the following: Syntax, Types, Statements, Keywords, Reserved Words, Operators and Objects.

ECMA Script

- ❖ Each web browser implements ECMAScript in a different level, such as ECMAScript 2015, ECMAScript 2016, etc.

JavaScript & HTML

- ❖ We can embed Java Script code within our HTML page using the `<script>` element.

```
<script type="application/javascript">
  function doSomething()
  {
    alert("Good Morning!");
  }
</script>
```

- ❖ We can have the Java Script code saved inside a separated file the HTML file refers to.

```
<script type="text/javascript" src="mycode.js"></script>
```

IDEs

- ❖ We can develop simple code in JavaScript using a simple text editor.
- ❖ We can alternatively use an Integrated Development Environment, such as WebStorms, Visual Studio, and Eclipse.

The Node.js Platform

- ❖ The Node.js® platform is a JavaScript runtime built on top of the Chrome's V8 JavaScript engine.

<https://nodejs.org>