



Java Script JS

19CSE100 - Problem Solving and Algorithmic Thinking PROGRAMMING LANGUAGE SURVEY ASSIGNMENT Arul Sujith S

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History



JavaScript was invented by Brendan Eich in 1995.



JavaScript was just created in just 10 days.



JavaScript's original name was Mocha.

About

For creating interactive front-end web development and for server-side programming with technologies such as Node.js

It's syntax and control structures are heavily influenced by C, Java, Perl, Scheme and Self (OOPs and Prototypebased inheritance).

Paradigm



JavaScript is a multi-paradigm language.



Paradigms in JavaScript are Imperative and Declarative.



JavaScript supports both object-oriented, & functional programming.

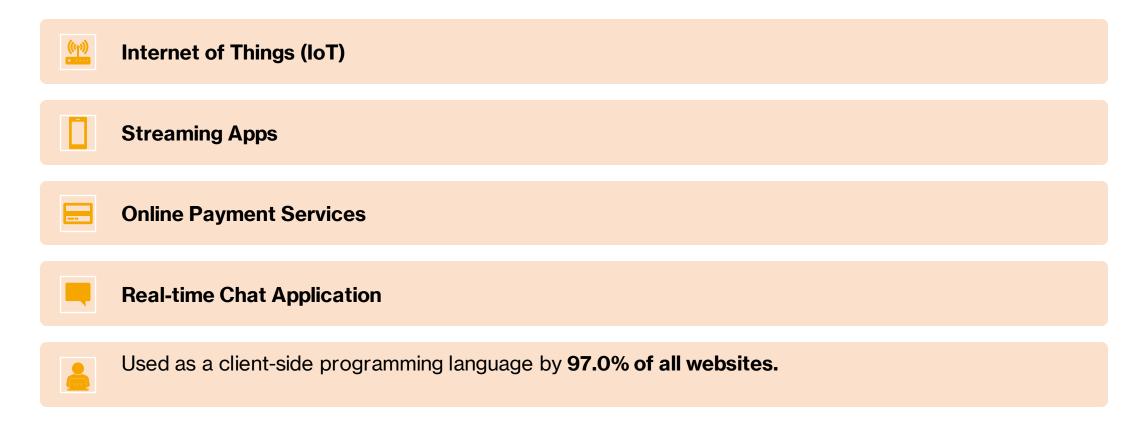
Object Oriented Programming

- Object-oriented programming programming by the name implies it's a pattern of programming using objects,
- It consists of classes objects and prototypes.
- The main advantage of using this type of approach is because it eliminates redundancy in code.

Functional Programming

- Functional programming is a programming pattern centered around functions is involves closures and lambdas to execute some certain task.
- It generally leads to less code, because JavaScript already has a lot of the in-built functions.
- It can be simply explained by following these 2 laws,
 - 1) You architect your software out of pure, isolated functions
 - 2) You avoid mutability and side-effects

Application



Hello World



Using console.log()

• Console.log() method, will just display the string entered within the string

```
console.log("Hello, World!");
```

```
Output
Hello, World!
```

Using alert()

- alert() method, will display an alert box
- An OK button that will allow the user to close the alert.

```
alert("Hello, World!");
```



Using document.write()

```
Write some text directly to the HTML output:
    document.write("Hello World!");
```

```
Write some HTML elements directly to the HTML output:

document.write("<h2>Hello World!</h2>Have a nice day!");
```

Resourses

- https://www.w3schools.com/jsref/met_doc_write.asp
- https://www.programiz.com/javascript/examples/hello-world
- https://javascript.plainenglish.io/types-of-real-time-web-applications-you-can-build-with-node-js-technology-ba2af2af888a
- https://javascript.plainenglish.io/what-are-javascript-programmingparadigms-3ef0f576dfdb?gi=65669448b7ac
- https://www.w3schools.com/js/js_history.asp#:~:text=JavaScript%20was%20invented%20by%20Brendan,Mozilla's%20latest%20version%20was%201.8.

Thank You