Web Technology



Javascript

Department of Computer Science and Engineering Shiv Nadar University

Last Class Summary

- CSS Introduction
- Inline style
- Internal Style
- External Style
- Multiple Style
- Selector Strings
- CSS Property
- Best practices

- Most Popular Programming Language
- Webpages Dynamic and Interactive
- Javascript?

- Most Popular Programming Language
- Webpages Dynamic and Interactive
- Javascript
 - Java?

- Most Popular Programming Language
- Webpages Dynamic and Interactive
- Javascript
 - Java
 - Indonesia Java Coffee Bean
 - Javascript is different from Java
 - Why Javascript?



- Most Popular Programming Language
- Webpages Dynamic and Interactive
- Javascript
 - Java
 - Indonesia Java Coffee Bean
 - Javascript is different from Java
 - Javascript
 - Borrowed Concepts from Java
 - Object Oriented Programming
 - Java was popular (steal some popularity)
 - Netscape/Mosaic browser supported Java Applets

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- Most Popular Programming Language
- Webpages Dynamic and Interactive
- Javascript
- Language?

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Language

	English	Javascript	HTML
Alphabet	A-Z, a-z	A-Z, a-z	A-Z, a-z
Numbers	0-9	0-9, 0 and 1, 0-7, 0-F	0-9
Words	Words	Tokens	Nodes
Sentences	Grammar + Words = Sentences	Syntax + Tokens = Statements	Syntax + Nodes = Elements
Paragraph	Paragraph	Block	
Chapter/Book	Chapter/Book	Program	Web Page
Library	Library	Library	Website

- Javascript History
 - Reading Assignment <u>JavaScript Wikipedia</u>

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- High-Level Language



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- European Computer Manufacturer's Association (ECMA) script Standard



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- Dynamically Typed
- Object Oriented Programming Language
- Interpreted/ Just-in-time Compiled
- Types of Programming?

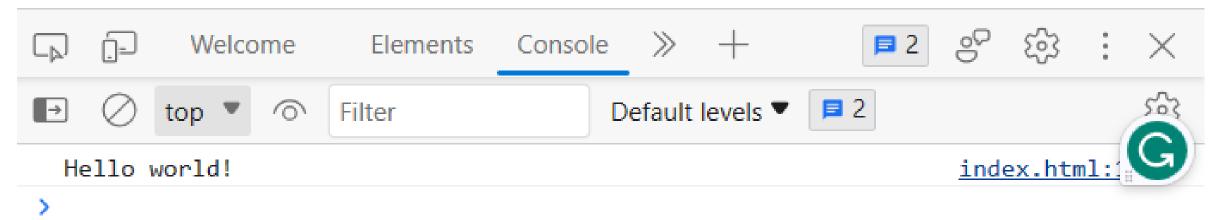


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- Types of Programming
 - Inline Programming
 - External Programming
- <script> tag





- The Hello World Program Inline Programming
- <script> element
- Print in Console (Syntax: console.log ("");)



Introduction – Example 1

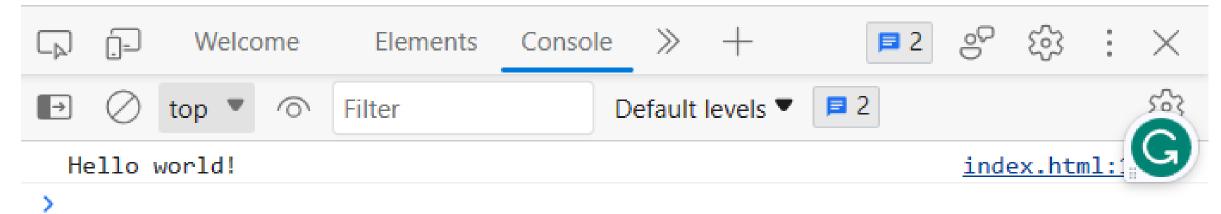


The Hello World Program - Inline Programming





- The Hello World Program External Programming (save as .js)
- <script> element. Include the Javascript file in src attribute of <script> element.
- Print in Console (Syntax: console.log ("");)



Introduction – Example 2



- The Hello World Program External Programming
- Script content empty

```
File Edit Selection View Go Run ...

Js main.js X

D: > OneDrive - SSN Trust > July Dec 2023 > Well

1 console.log("Hello world!");
```





- The Hello World Program External Programming (save as .js)
- Pop an alert box. (Syntax: alert("");)

This page says

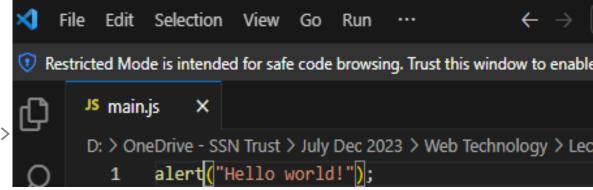
Hello world!

OK

Introduction – Example 3



- The Hello World Program External Programming
- Script content empty







- The Hello World Program External Programming (save as .js)
- Pop an alert box. (Syntax: document.write("");)



Hello world!

Introduction – Example 4



- The Hello World Program External Programming
- Script content empty

```
File Edit Selection View Go
Restricted Mode is intended for safe code browsing. Trust this window to enable
        JS main.js
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                     ×
        D: > OneDrive - SSN Trust > July Dec 2023 > Web Technology > Lo
                document.write("Hello world!");
જુ
2
留
```

Keywords - 48



Best Practices



- 1. Use HTML tags with the same case (preferably lowercase).
- 2. Filename to be based on functionality.
- 3. When opening a tag, have a "tab space" for each line until you close the tag. It helps in the readability of your HTML document.
- 4. Give a comment describing a web page as the first line of your HTML document.
- 5. Keep HTML, CSS, and Javascript files separate

Summary

- Javascript Statistics
- Java vs Javascript
- Language
- Introduction
- Types of Programming
- Inline Hello World Inline
- External Hello World Inline
- External Hello World Alert
- Keywords
- Best Practices

References



1. Paul J Deitel, Harvey M Deitel, and Abbey Deitel, "Internet and the world wide web: How to program," Pearson, Fifth Edition, 2012.

THANK YOU

