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FROM ZERO TO HERO!

Introduction to JS

Sesiunea 16 - 14/06/2021

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/Let’s remember the whole picture\

JS
CSS
HTML

FE programming

- Structure: HTML
- Presentation: CSS
- Logic and UX: JS

About JS

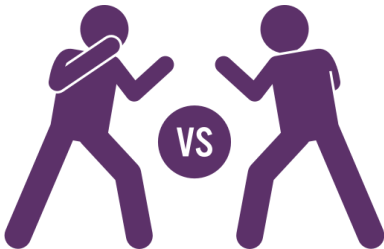
- Scripting languages for web pages
- Do not confuse with Java (different syntax, semantics and usages)
- Aim to program the behaviour of web pages
- JS is also used server side (Node.js)
- JS supports event-driven, functional and imperative programming styles
- It has API (application programming interfaces) for working with text, dates, regular expressions, standard data structures, DOM (document object model)
- Helps great coverage of the logic client-side (improving UX, response timing)

About JS

- Used to make web pages interactive
- It can insert dynamic text into HTML
- It can manipulate CSS
- BE integration

Java vs JS

- Java code must be compiled, JavaScript code is all-text
- Each language requires different plugins
- JS code is run on browser only, while Java creates applications that run in a virtual machine or browser
- Java is an OOP and JS is specifically an OOP scripting language



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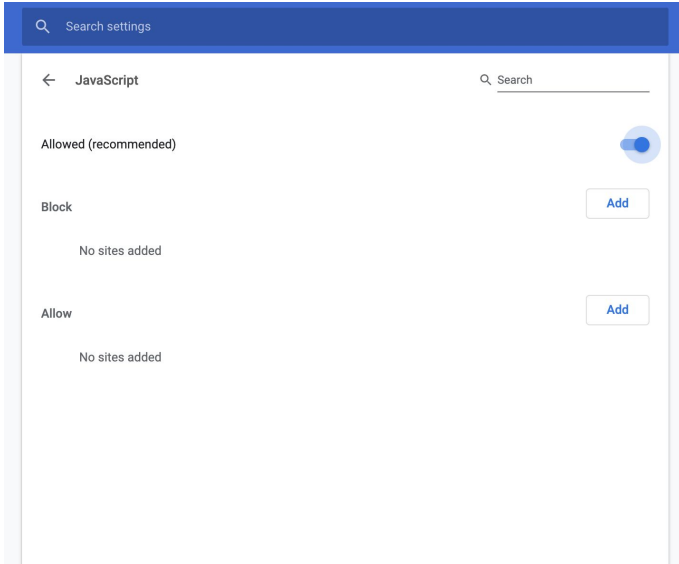
/Course Coverage\

Course **coverage**

- Variables
- Types and operators
- Analyze decisions and loops
- Functions
- Objects
- Arrays
- DOM interactions
- Scope and hoisting
- Error handling

JS: types

- External script (also multiple)
- Internal script
- <noscript> - HTML to be inserted if a script type on the page is not supported or if scripting is turned off in the browser



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/Keep Dev Tools at hand\

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/console.log(“Hello”)\

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/alert(“Hello”)\

JS: why use external script (-> resources)

- Reusable code
- Readability
- Page optimization
- Cleaner HTML code: markup separation
- SEO

JS: best practices

- <script> at the end of the HTML file (last child node of <body>)
- Formatting code (performed by js itself) - don't rely on that though
  - Tabs/indentation - to align similar and/or siblings
  - White space - it should **only** help the developer understand the code better
  - Empty rows - only of it helps clarify the code
- 'use strict'
- **Case sensitivity** (*replaceMainTitle* is not the same as ***R****eplaceMainTitle*)
- Commenting code (single&multiple line - detail complex logic)
- Detecting and fixing errors (Dev Tools -> Console)

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/code\

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/Assignment #9 (responsiveness #2)\

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/Q&A\

Resources

- Disable JS in Chrome: https://www.lifewire.com/disable-javascript-in-google-chrome-4103631
- Toogle JS extension: https://chrome.google.com/webstore/detail/toggle-javascript/cidlcjdalomndpeagkjpnefhljffbnlo?hl=en

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Thank you

Next: JS - Variables&Constants (Friday, 18th of June)