Full Stack Developer Program

JavaScript
Overview and Introduction

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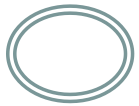
Outline



- Overview of Technologies
- Web Technologies
- About JavaScript
- Traditional Web Development
- Java Script Applications
- Start to code in JavaScript

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Technology Tree

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Technologies

Of all the Technologies,

Web Technologies have been here since ages and they are here to stay.

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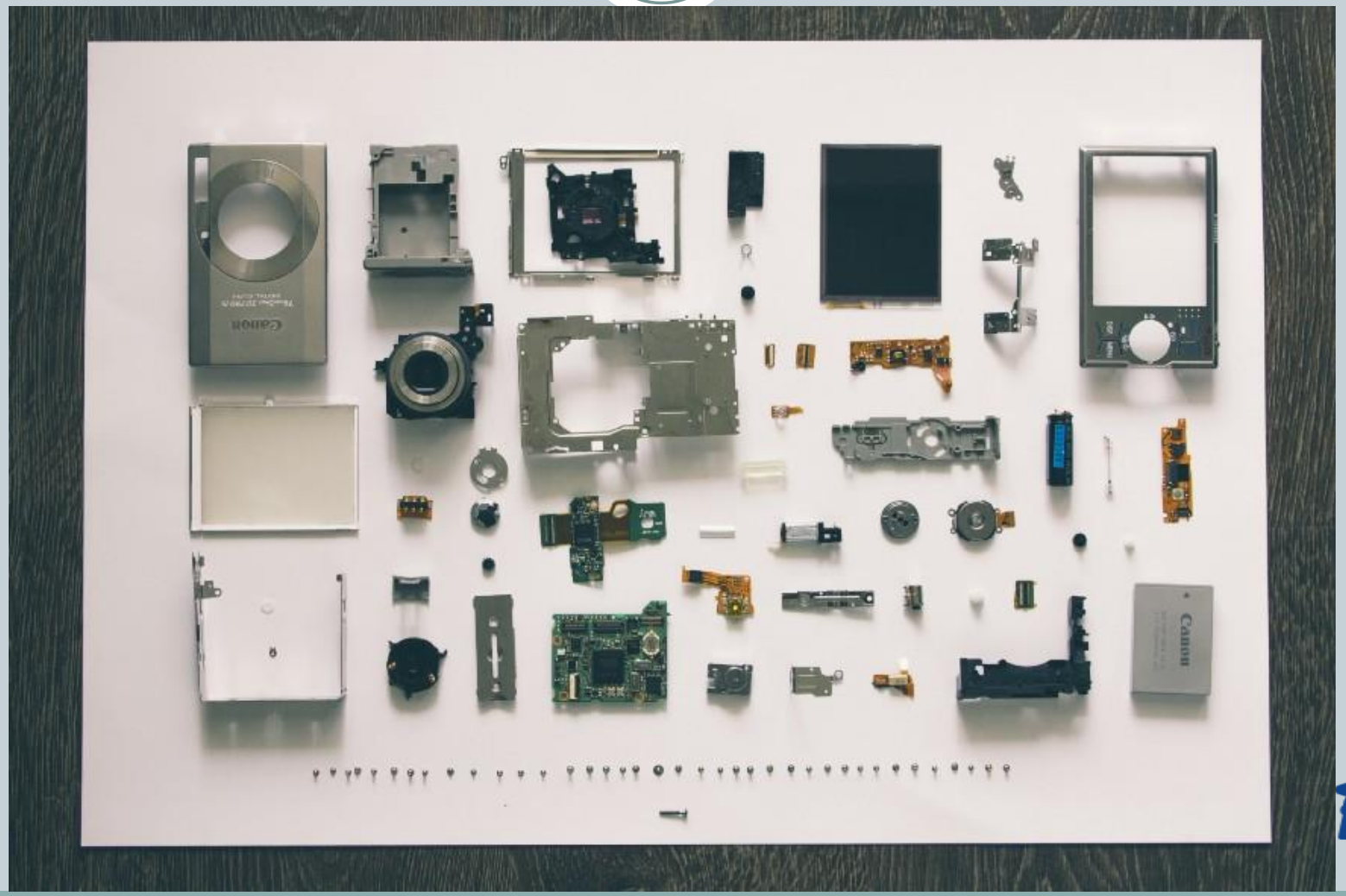
Your thoughts please



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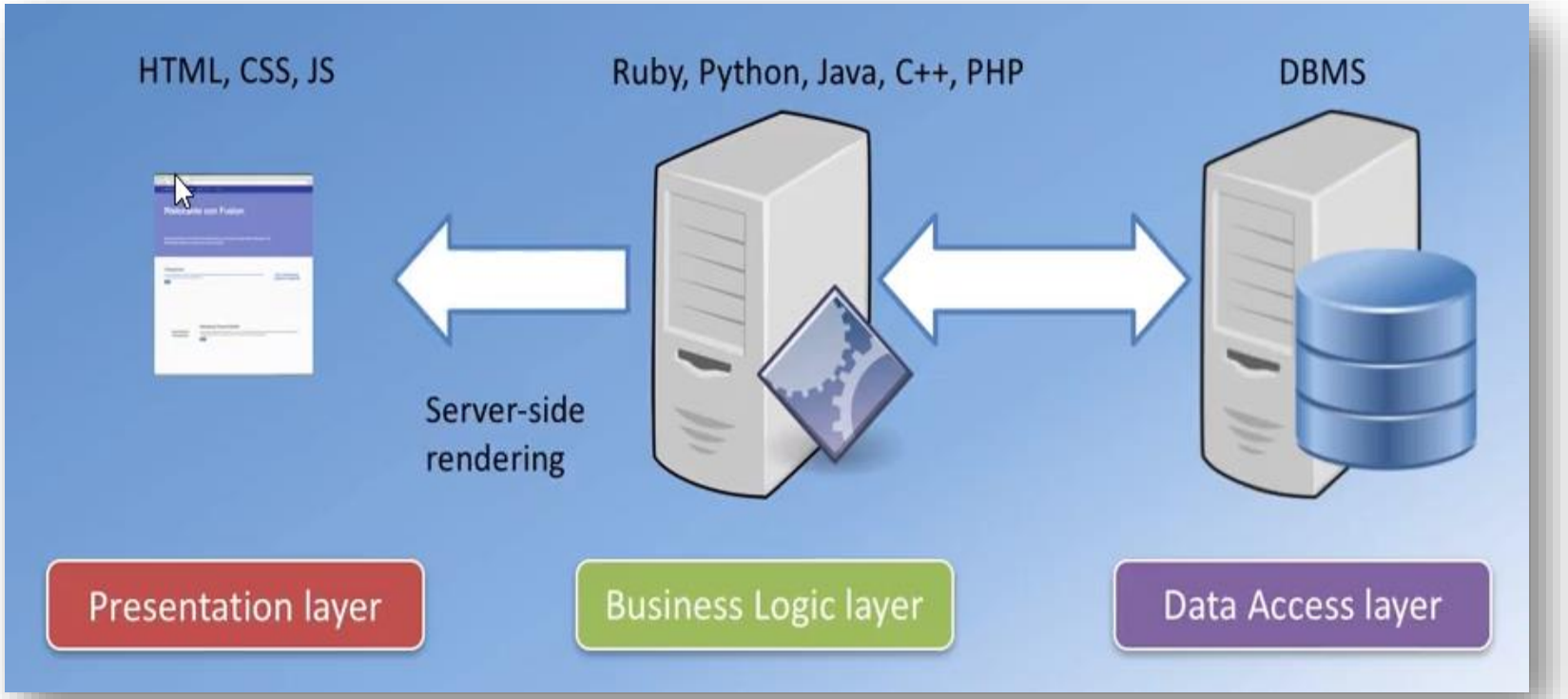
Traditional Web Development



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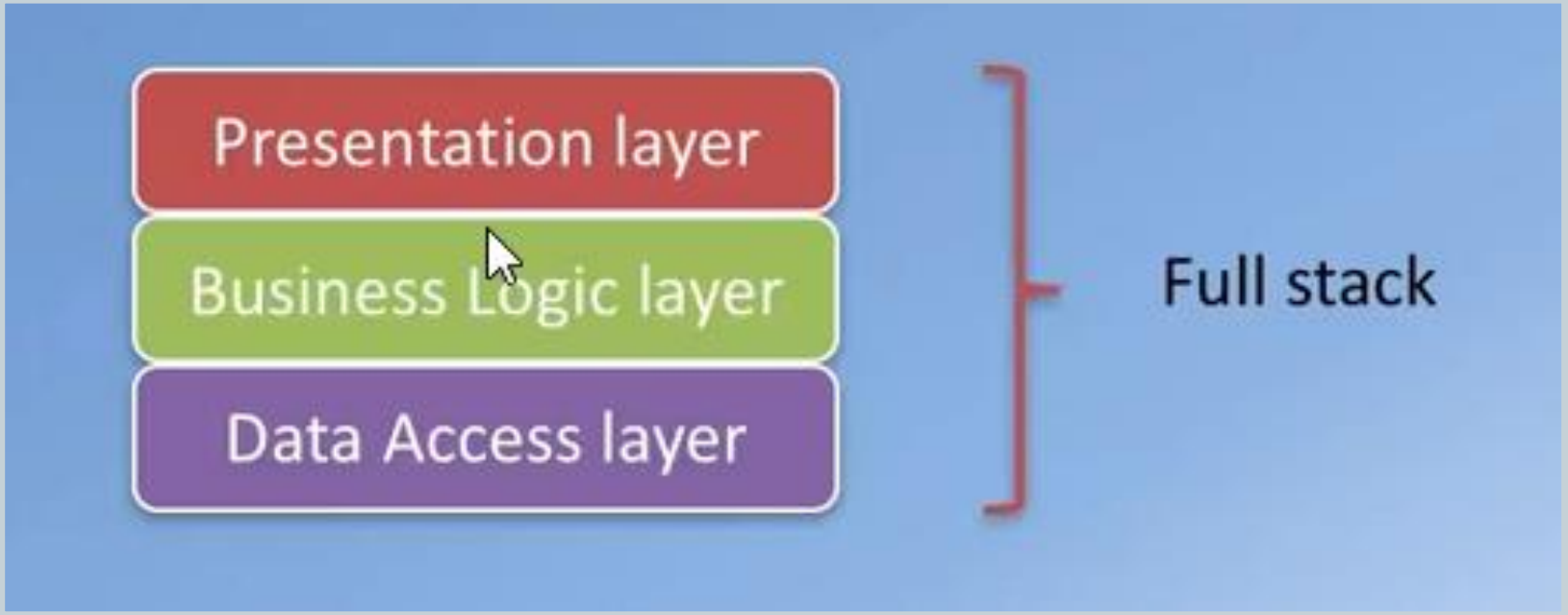
Technical Stack

Stack or Technical Stack- a particular combo of technologies frequently used by a community of software or web application developers.



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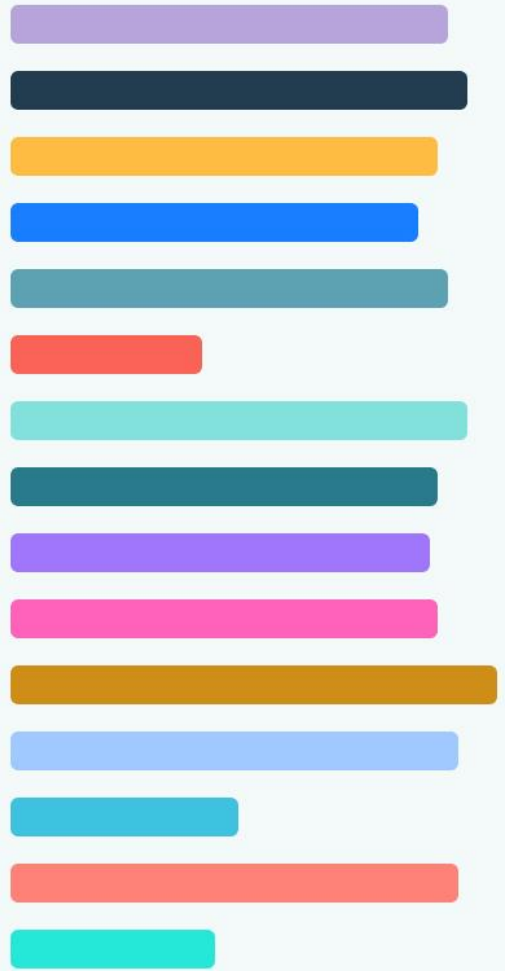
North American Full-Stack Developer Salaries

Austin	$108,829
Boston	$116,068
Chicago	$100,904
Houston	$90,603
Los Angeles	$106,680
Montreal	CA$69,000 ($54,515)
New York	$116, 975
Philadelphia	$100,230
Phoenix	$99,668
Portland	$101,818
San Francisco	$138,178
Seattle	$112,401
Toronto	CA$79,000 ($62,408)
Washington DC	$113,050
Vancouver	CA$72,000 ($56,891)



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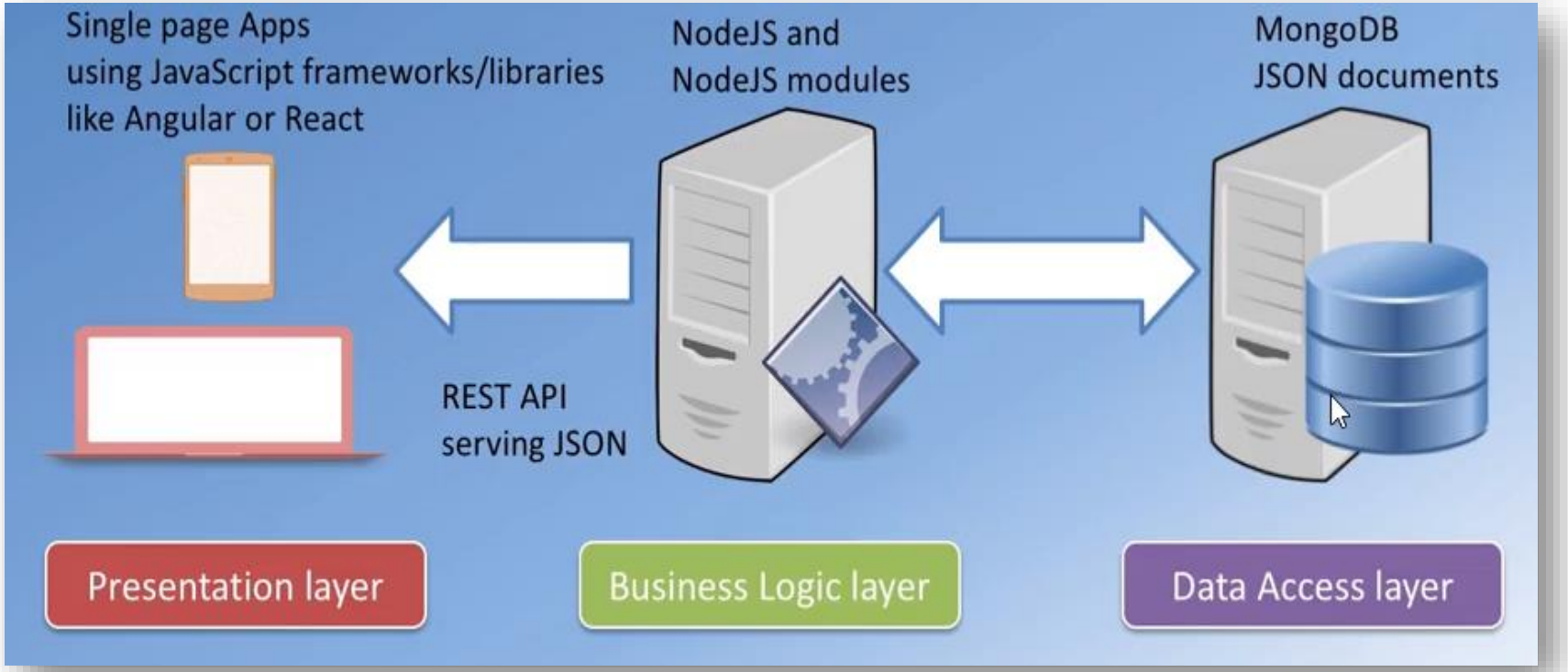
JS in Technical Stack

Increasing trend to use single language(JavaScript)



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Rewind

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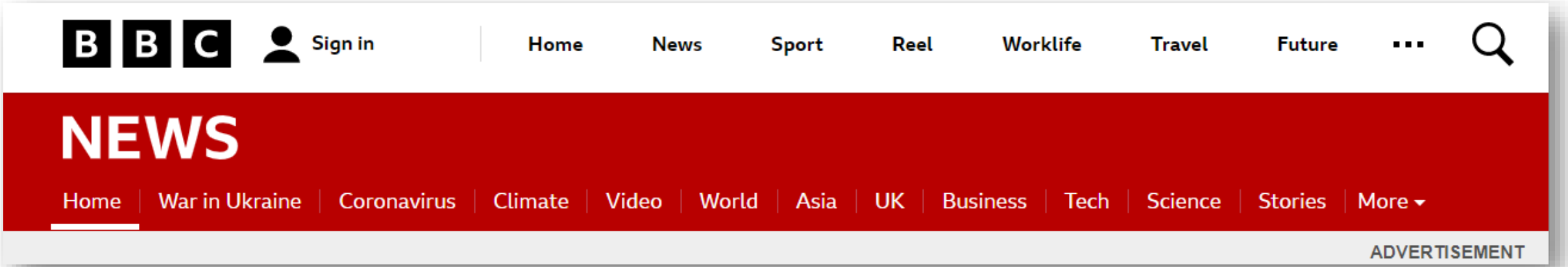

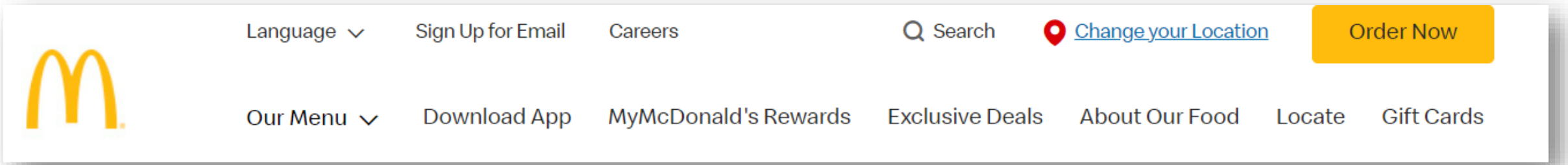

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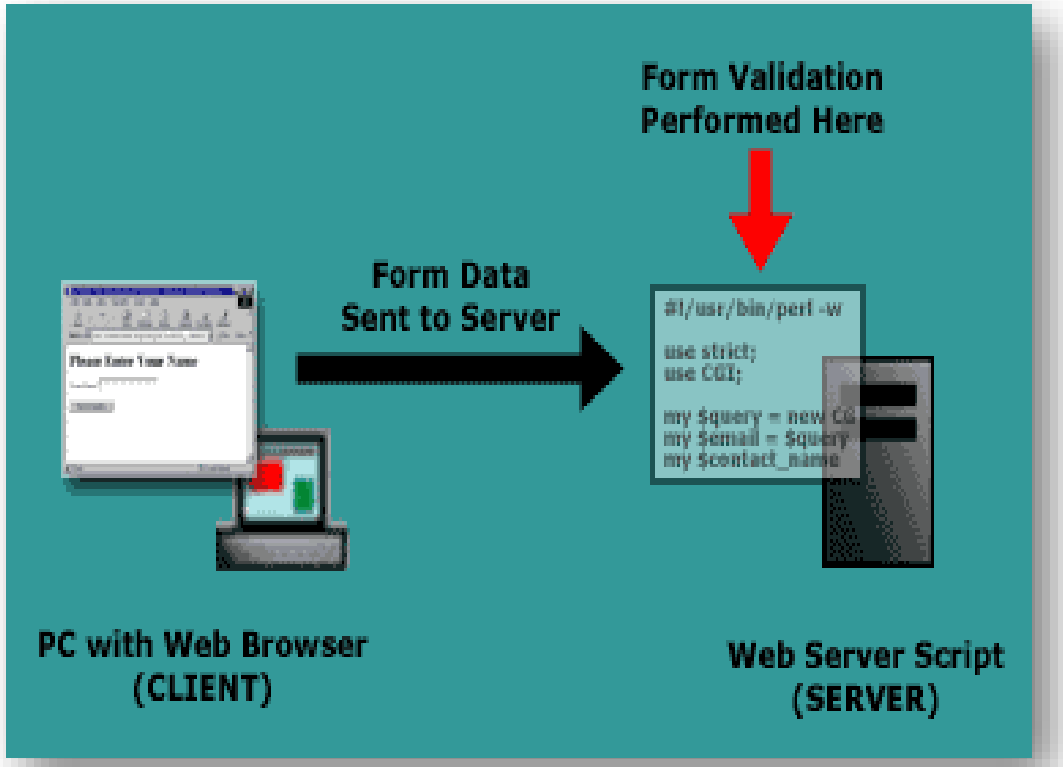
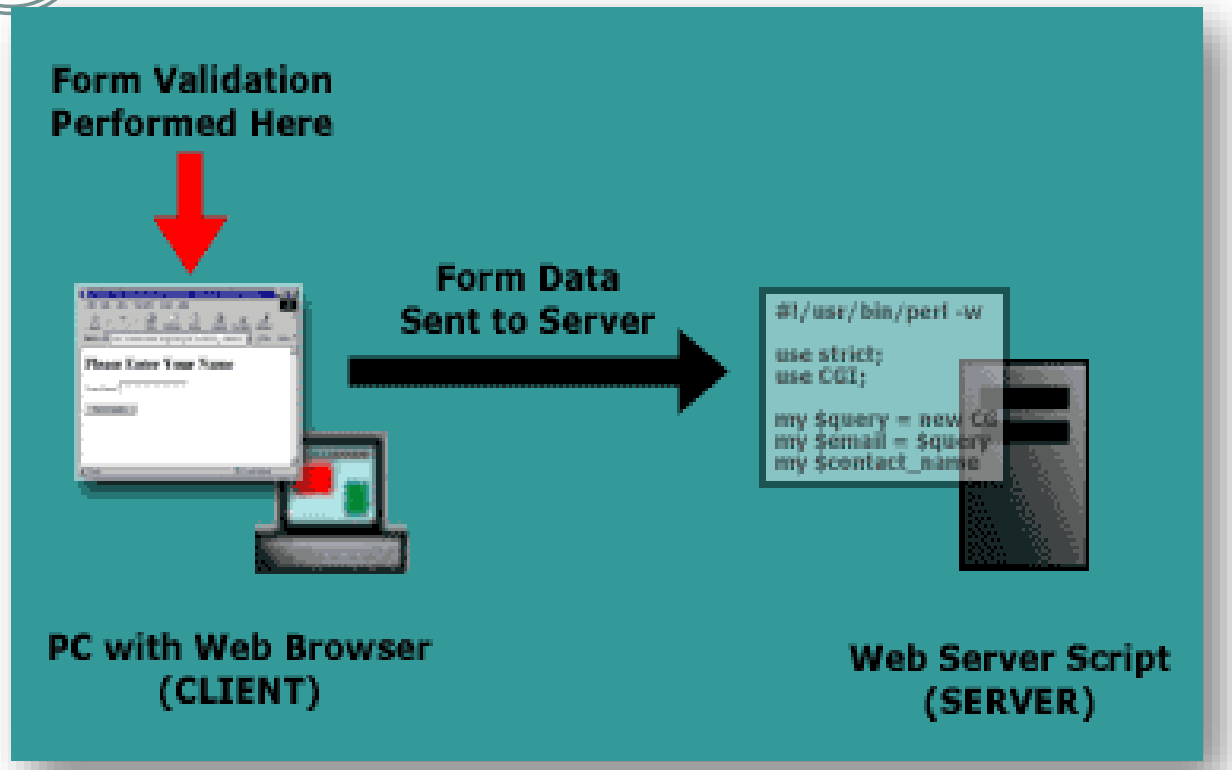
JavaScript – In olden days (1990s)





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Pic courtesy: elated communications

History of JS

- **Brendan Eich** is an American computer programmer and technology executive.
- **Netscape and Eich designed JavaScript** as a scripting language for use with the company's flagship web browser, **Netscape Navigator** , in 1995.

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History of JS

- JavaScript became the ECMA-262 standard in 1997
- After Netscape handed JavaScript over to ECMA, the Mozilla foundation continued to develop JavaScript for the Firefox browser.

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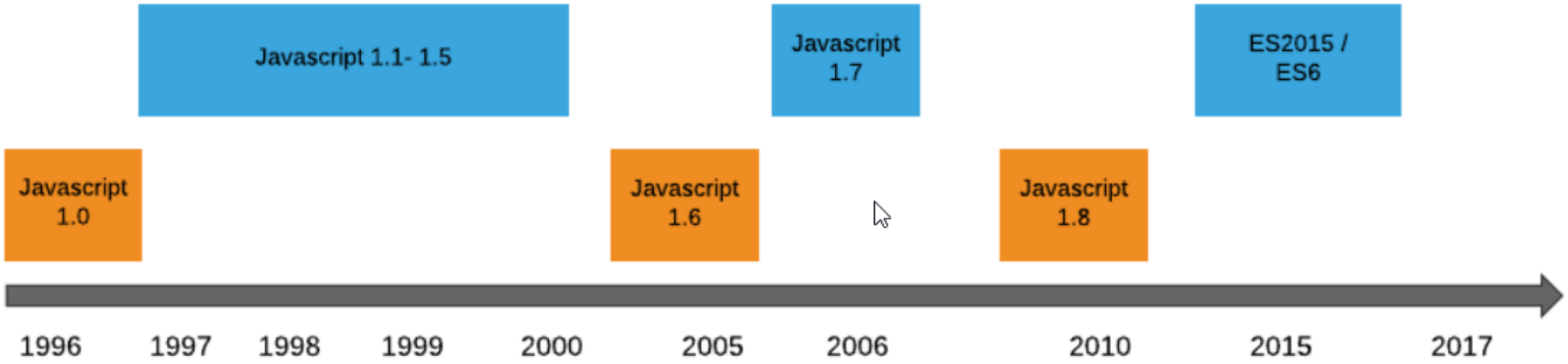
JS Time line



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JavaScript

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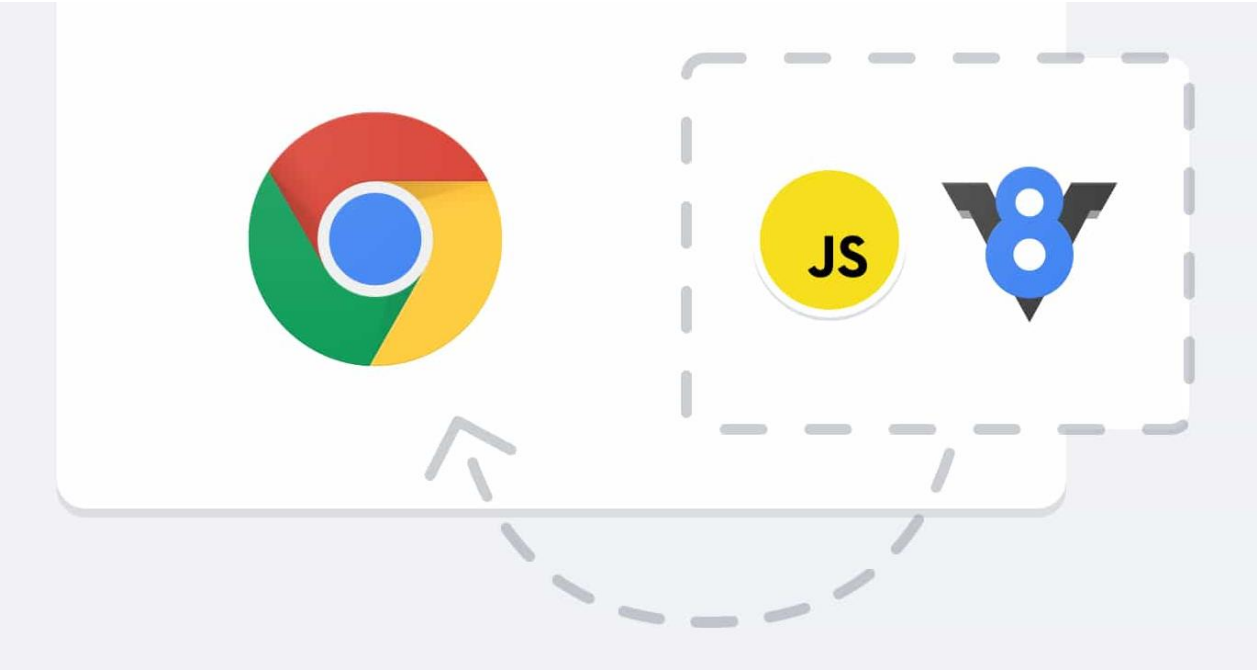
V8 Engine



V8 JavaScript Engine

- Built for Google Chrome
- Just-In-Time compiler
- No interpreter

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NodeJS

Node.js

- Cross-platform
- Server-side
- ES6+ support

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Applications of JS

- Adding **interactive behavior** to web pages
- Creating **web and mobile apps**.
- Building web servers and developing server applications.
- Game development.

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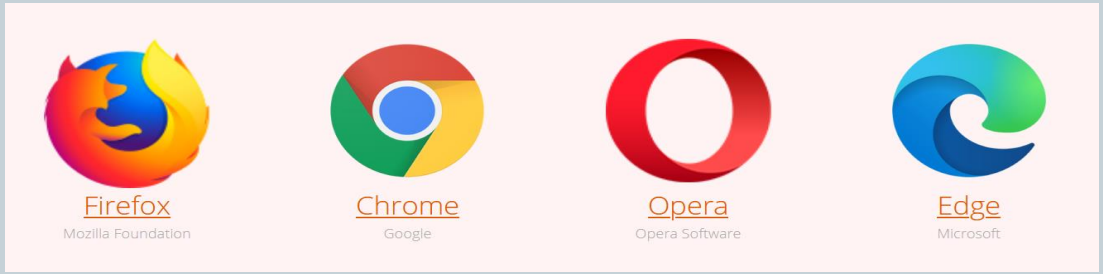
About JavaScript

- JavaScript is primarily known as the language of most modern web browsers.
- JavaScript is a **powerful, flexible, and fast** programming language now being used for increasingly complex web development and beyond
- Since JavaScript remains at the core of web development, it's often the **first language learned by coders** eager to learn and build.
- JavaScript **powers the dynamic behavior** on most websites.

Supported Browsers



Google Chrome is recommended

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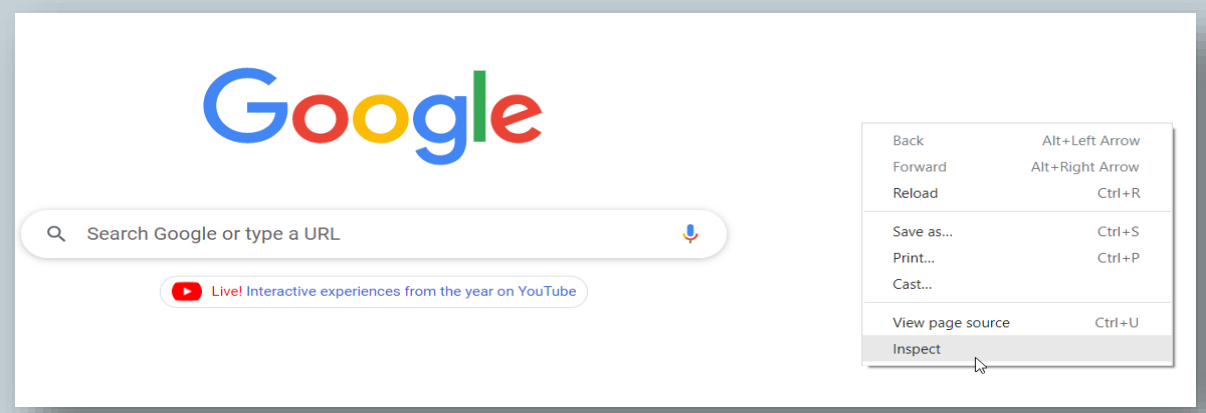
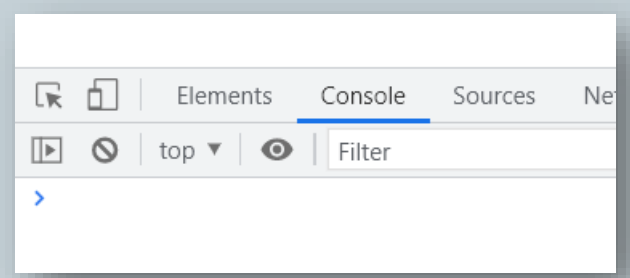
Executing JS code in Chrome

1. Open Chrome and Ctrl + Shift + I to open the Developer Tools' Console Tab
   Or right click on screen and select 'Inspect' option and click on 'Console'
2. Should see this symbol- >





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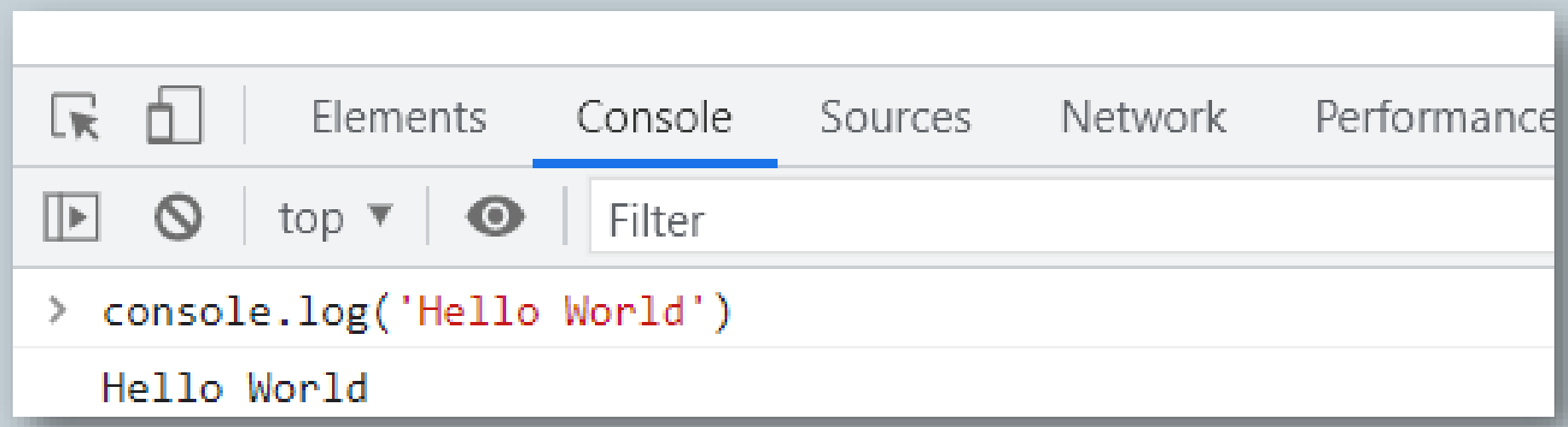
Coding at >

- Print– console.log



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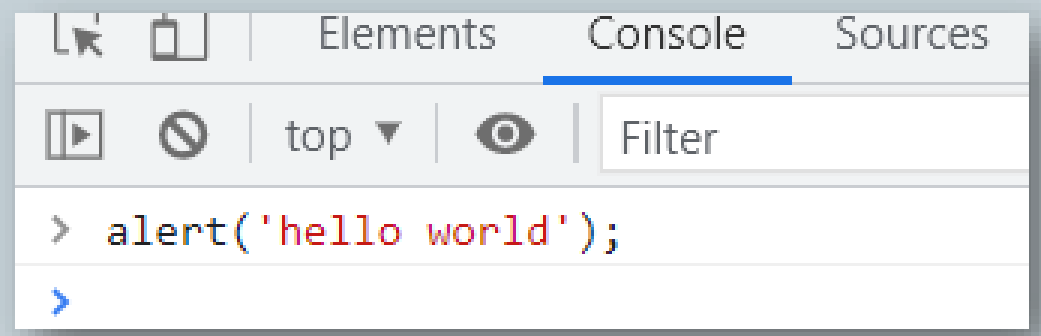
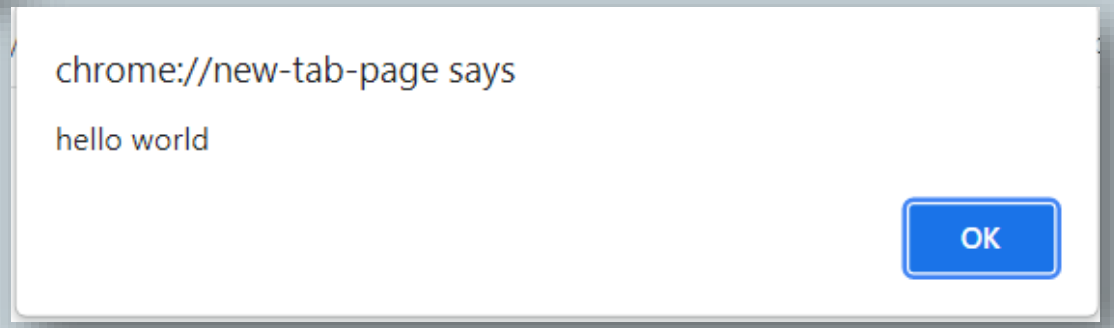
Alert user

Alert or say Hello World using alert





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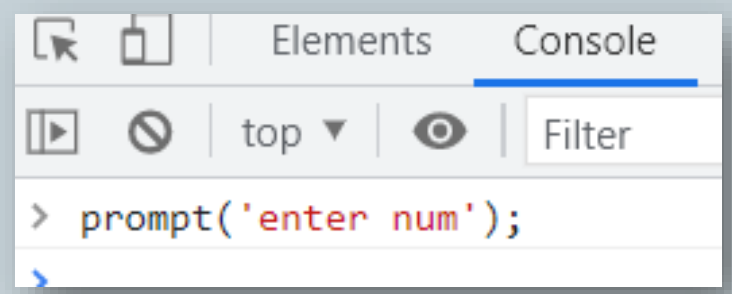
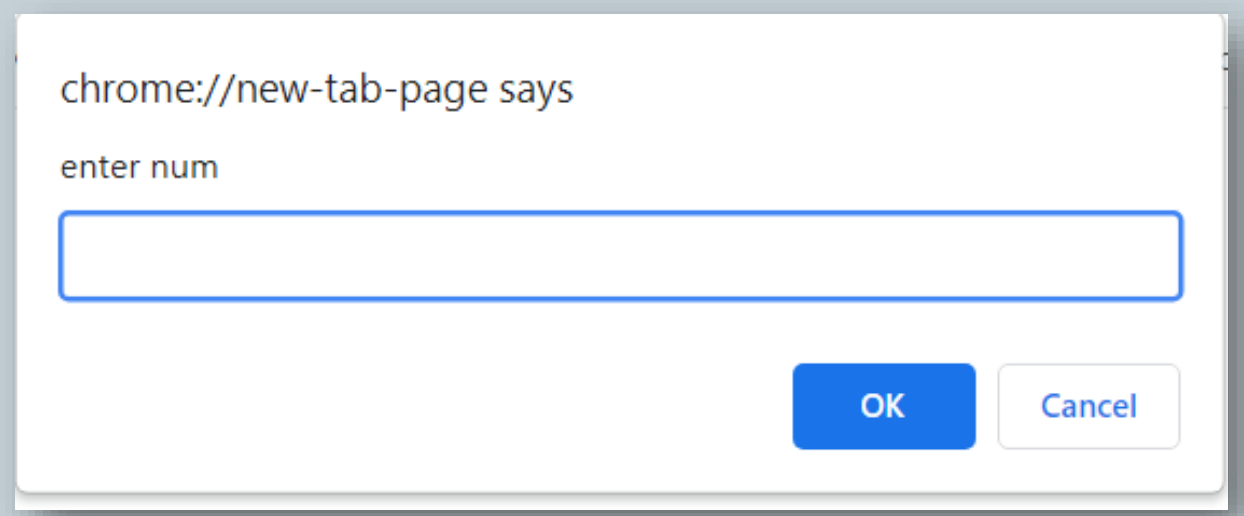
Accept value from user

Prompt





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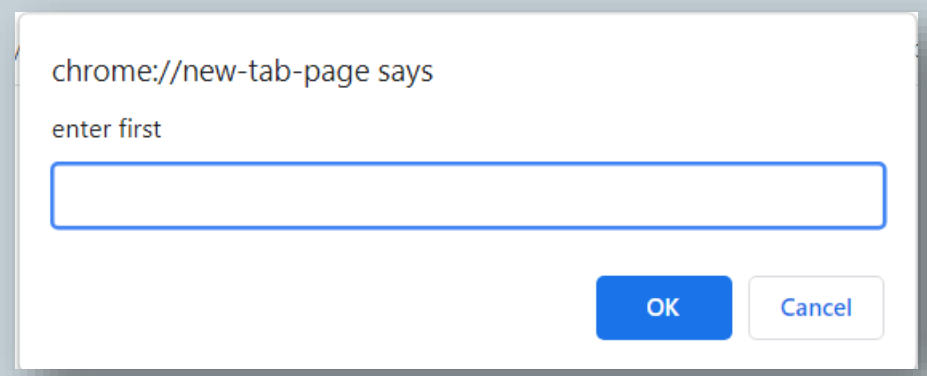
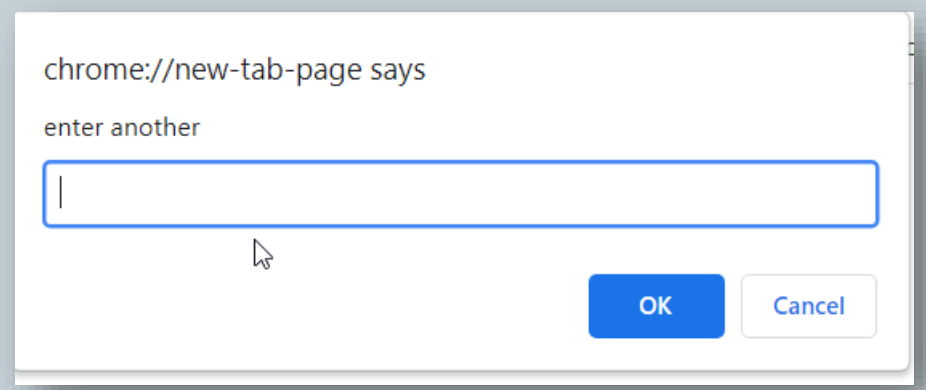
Accept/request values , add and display

```
> let num = prompt('enter first'); let num1= prompt('enter another'); console.log(parseInt(num1)+parseInt(num));
  30
```





Note the parseInt.

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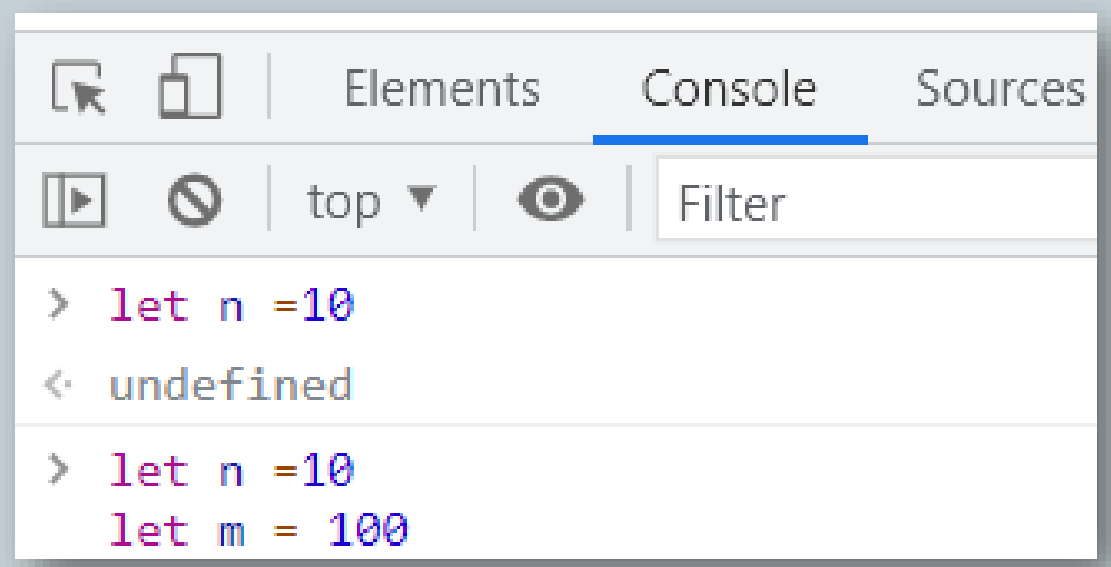
Store values

Store values in variables



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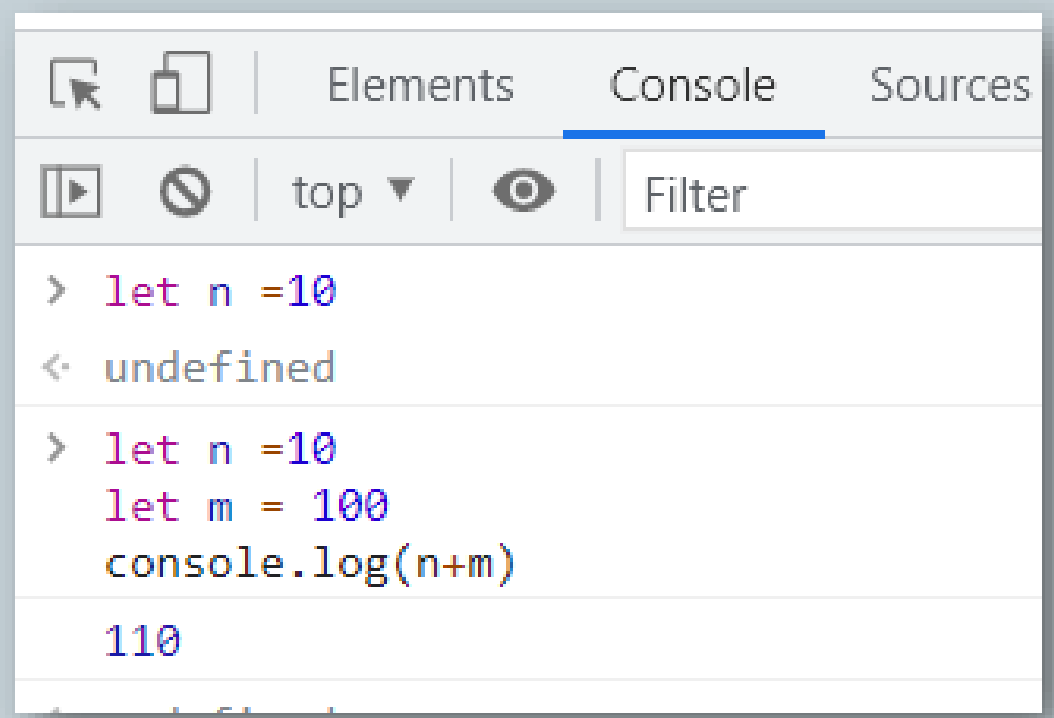
Add two numbers

Store using ‘let’ and add



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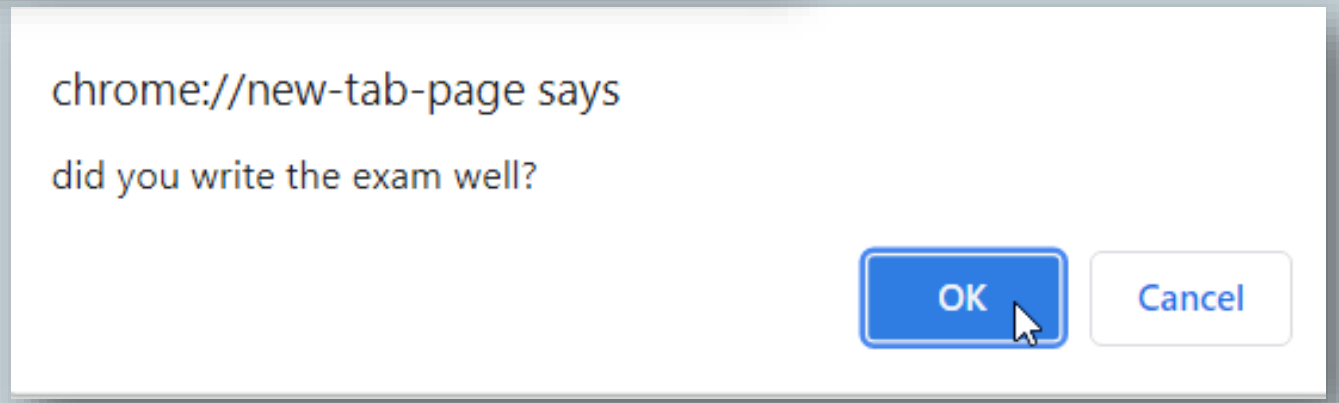
Confirm box. Yes or no?

```
> let q = confirm('did you write the exam well?'); console.log(q);
  true
```



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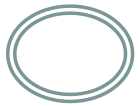

Questions?

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Thank you.

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