



JavaScript Essentials

JavaScript Overview



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Lesson Objectives





- Understand the high-level definition of JavaScript
- Understand what JavaScript do to our web page
- Understand the fundamentals of Programming
- Able to think like Programmer





Section 1

Overview

Overview – Fact about Computer





Computers are incredibly powerful machines

But deep down, Computers are actually pretty dump



Computers can *only* do exactly what we humans tell them to do

Without programs, computers can't do anything at all!

Overview – Meet JavaScript



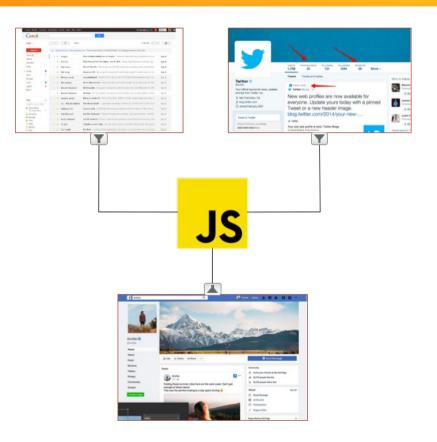


- Even worse, computers can't understand English or any other spoken language.
- Computer programs are written in a programming language like JavaScript
- The JavaScript programming language is used to write programs that run in web pages.
- JavaScript can control how a web page looks or make the page respond when a viewer clicks a button or moves the mouse.

Overview – Who uses JavaScript



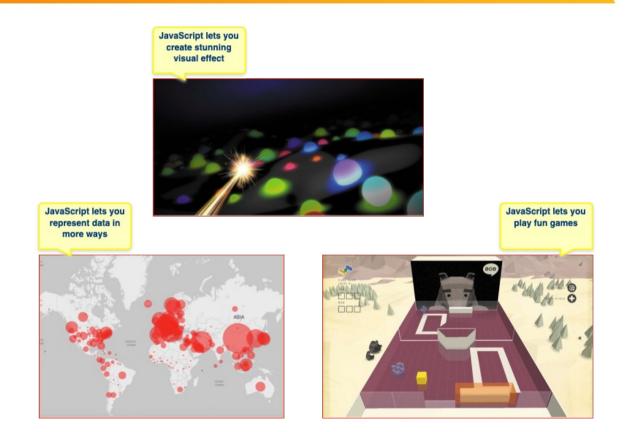




Overview – Much more







Overview – Why learn JavaScript?





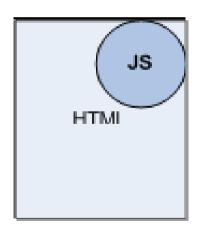
- It's a lot easier (and more fun) to learn
- In order to write and run JavaScript programs, all you need is a web browser
- Share your JavaScript programs with other

Overview – How to add JavaScript?





- Internal JavaScript
- JavaScript can be placed in the <body> and the <head> sections of an HTML page by using <script> tag
- In the HTML page itself:



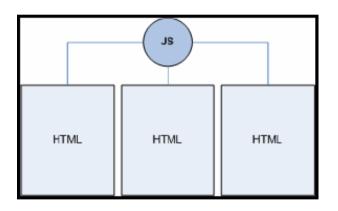
Overview – How to add JavaScript?





- External JavaScript
- As a file, linked from the HTML page:

```
<head>
<script src="script.js">
</script>
</head>
```

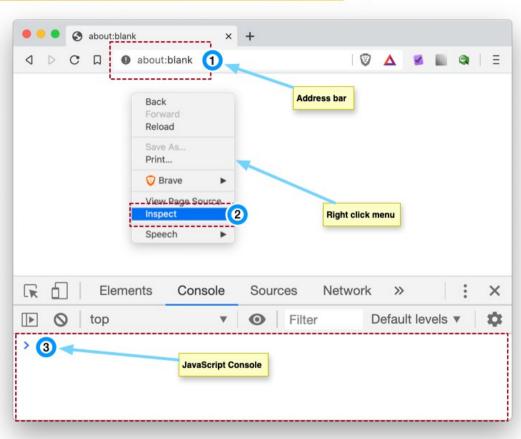


Overview – To test JavaScript





- Open Chrome browser
- Navigate to about:blank
- Right Click and choose Inspect
- Got to JavaScript Console by click on Console tab in
- Start typing JavaScript cod and press
 Enter
- Example: type 3 + 4; then press Enter





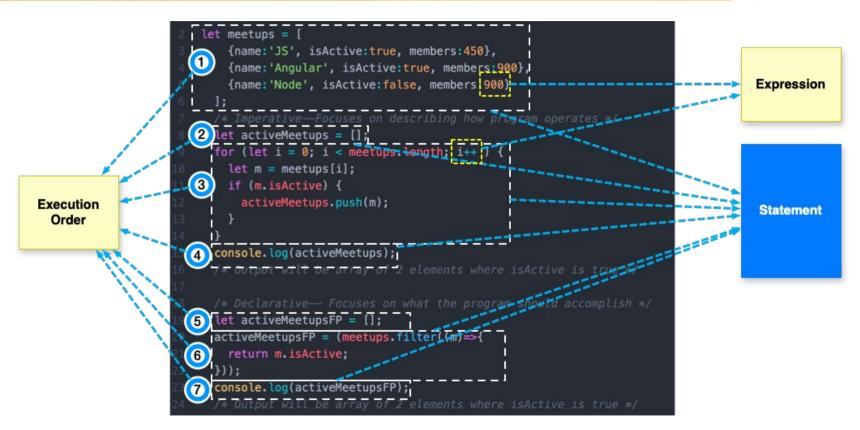


Demo: Add JavaScript to your web page

Overview – Structure of JavaScript Program



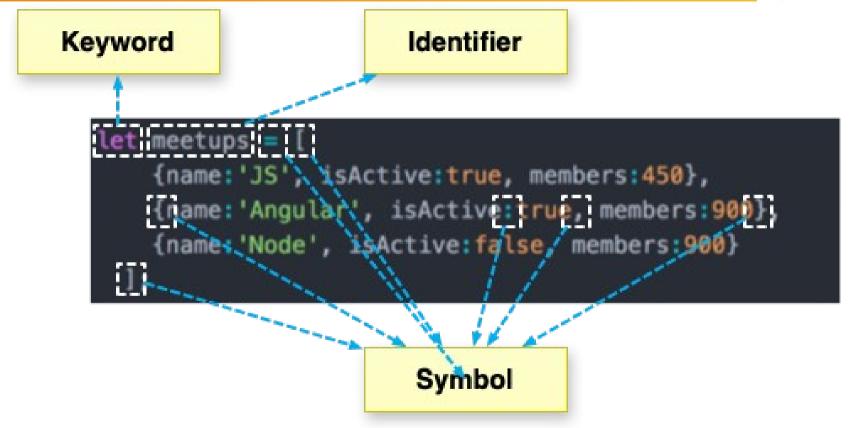




Overview – What is Syntax?







Overview – Think like a Programmer





Be lazy



Divide and Conquer



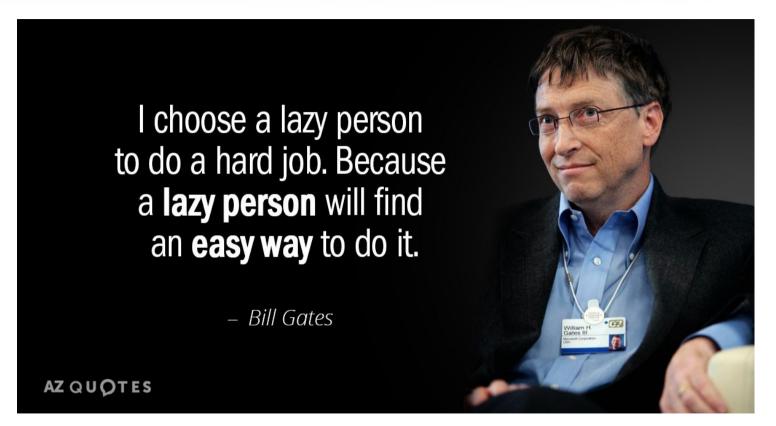
Care about your code



Overview – Be lazy



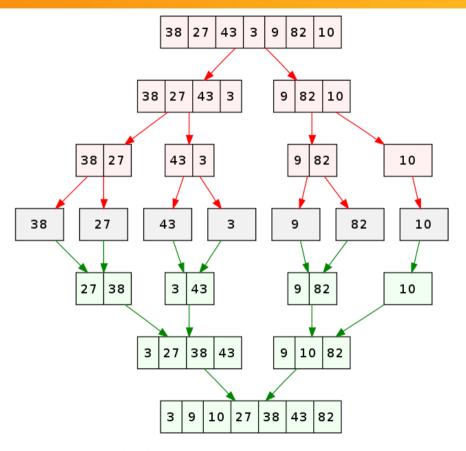




Overview - Divide and Conquer







Overview – Care about your code





Always code as if the guy who ends up maintaining your code will be a violent psychopath who knows where you live. -Martin Golding

Overview – Summary





- JavaScript program is built out of statements, which themselves sometimes contain more statements.
- Statements tend to contain expressions, which themselves can be built out of smaller expressions.
- JavaScript lets us build interactive, stunning web page
- To think like a Programmer, you have to be lazy, divide the problem into smaller trunks, always care about your Code





Thank you Q&A