



Gaming Geeks



code8

WEB GAME DEV BOOTCAMP

24th February – 3rd March

Don't Limit yourself to Playing
SIMPLY LEARN AND CREATE ONE



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Points for discussion

Introduction to Javascript

Variables , Data types , Operators

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DOM

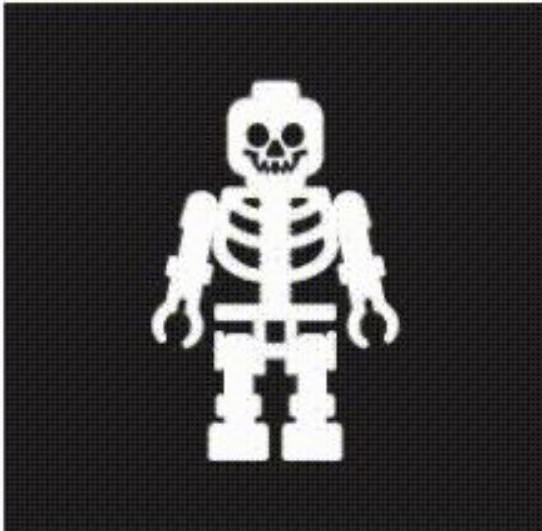
Event Handling

1.

INTRODUCTION

BASICS OF JAVASCRIPT

HTML
structure



CSS
presentation/appearance

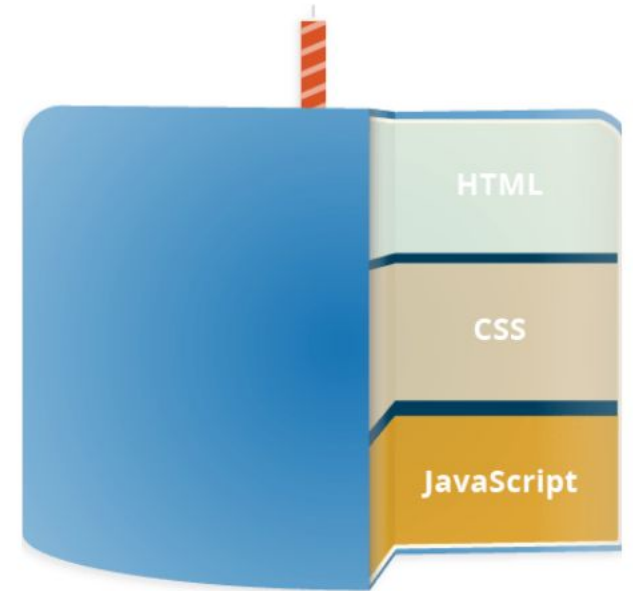


JavaScript
dynamism/action



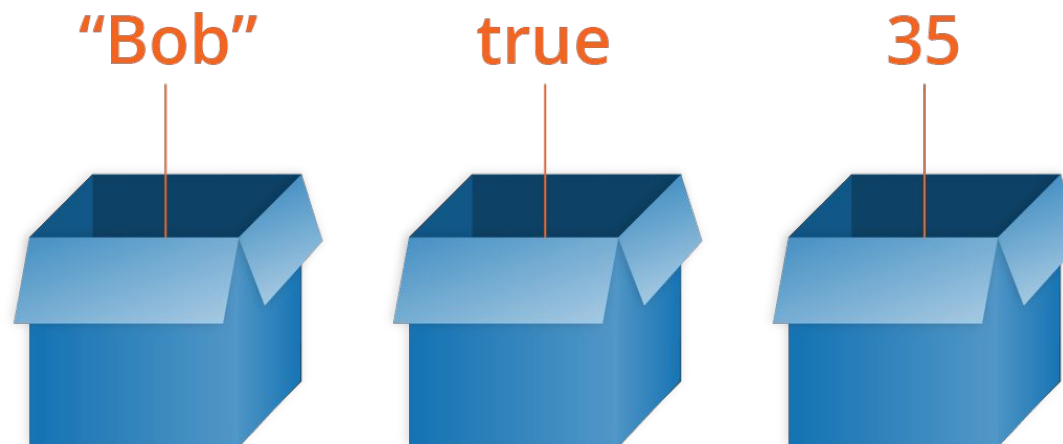
What is JAVASCRIPT?

JavaScript is a scripting or programming language that allows you to implement complex features on web pages — every time a web page does more than just sit there and display static information for you to look at — displaying timely content updates, interactive maps, animated 2D/3D graphics, scrolling video jukeboxes, etc.,





VARIABLES



`var x = "demojs"` (before ES6)

(After ES6)

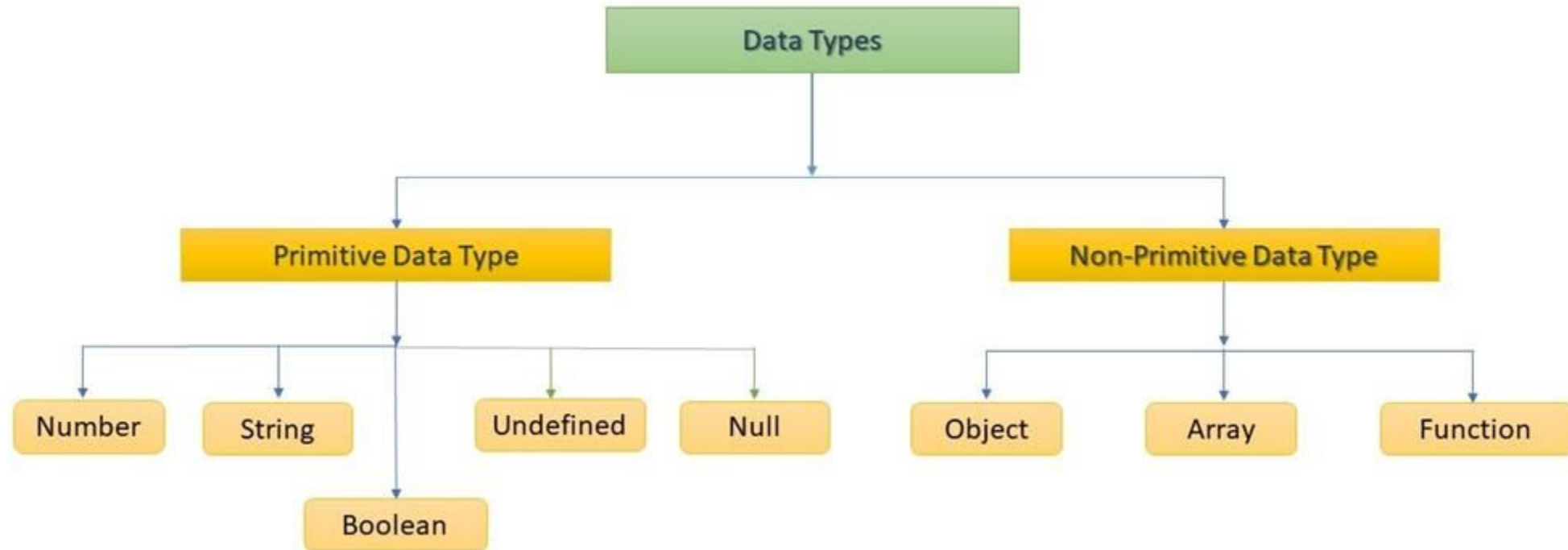
-> New keywords : `let` & `const`



RULES FOR NAMING JAVASCRIPT VARIABLE

- 1.Name should start with a letter, underscore or a dollar.
- 2.It cannot start with a number.
- 3.Javascript is case-sensitive.
- 4.Keywords cannot be used as a variable name.
- 5.It should provide a descriptive name for the variable (optional).

DATA TYPES IN JAVASCRIPT





”

• OPERATORS

- 1.Arithmetic Operators
- 2.Relational Operators
- 3.Logical Operators
- 4.Assignment Operators
- 5.Bitwise Operators
- 6.String Operators





Conditional Statements & Loops

3 types of conditional statements:

- 1.If statement
- 2.If-else statement
- 3.If-elseif-else statement

Different types of loops:

- 1.For loop
- 2.While loop
- 3.Do-while Loop

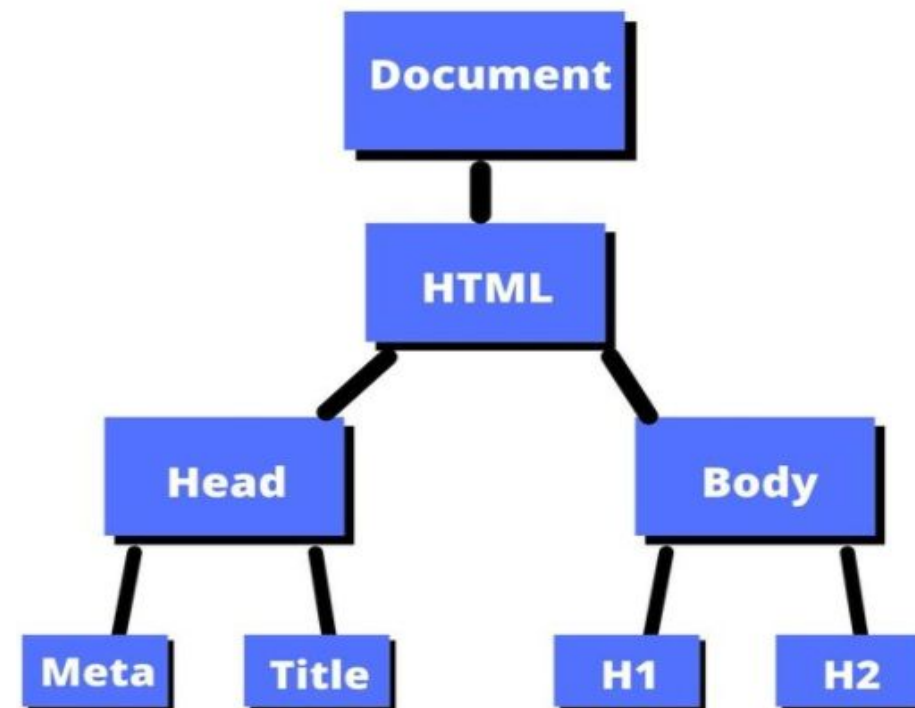


DOM

The Document Object Model (DOM) connects web pages to scripts or programming languages by representing the structure of a document—such as the HTML representing a web page—in memory



```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <title>DOM tree structure</title>
  </head>
  <body>
    <h1>DOM tree structure</h1>
    <h2>Learn about the DOM</h2>
  </body>
</html>
```





How to select elements in the document?

- 1.`getElementById()`
- 2.`getElementsByClassName()`
- 3.`getElementsByTagName()`
- 4.`querySelector()`
- 5.`querySelectorAll()`

How to add elements in the document?

1. `createElement()`
2. `appendChild()`

How to remove elements in the document?

1. `removeChild()`



How to get/update element content in the document?

1. `innerText()`
2. `textContent()`
3. `innerHTML()` Using style property

How to change the inline CSS?

1. Using **style** property



Event Handling

3 ways to add event handlers:

- ✓ **Inline Event Handlers**

```
<element eventName= "functionName()">
```

- ✓ **Traditional DOM Event Handlers**

```
element.onevent = functionName;
```

- ✓ **addEventListener()**

```
element.addEventListener("event", functionName);
```



Windows Event Attributes

Mouse Event Attributes

Form Event Attributes

Clipboard Event Attributes

Keyboard Event Attributes

Media Event Attributes



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HANK YOU. **THANK YOU.** THANK YOU
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