Gaming Geeks X 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

Conditional Statements and Loops

DOM

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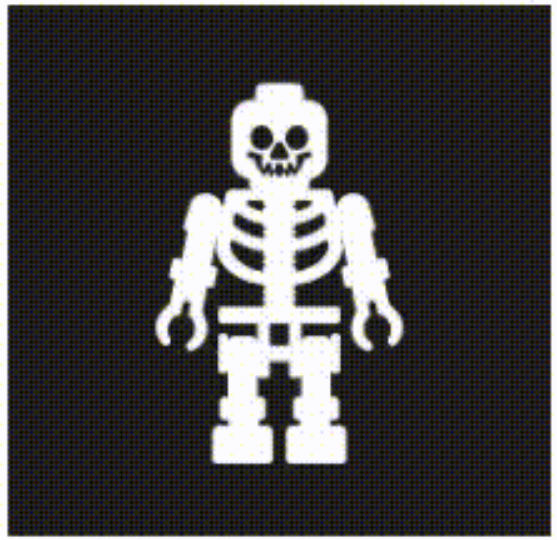
1. INTRODUCTION

BASICS OF JAVASCRIPT

HTML
structure

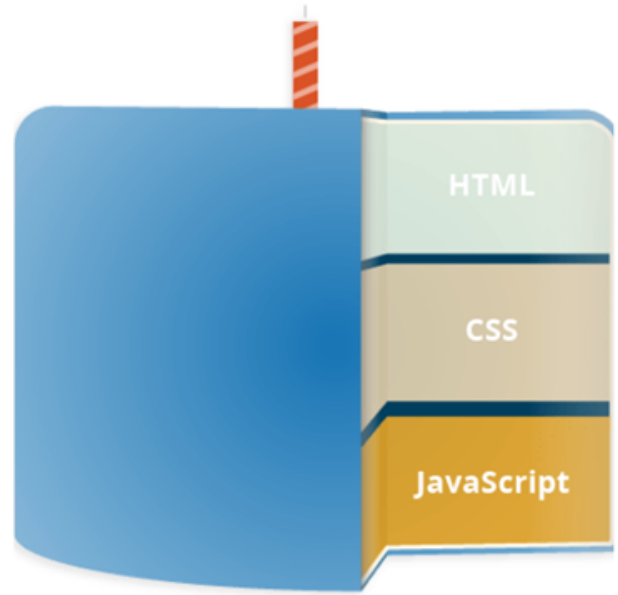


CSS
presentation/appearance

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.,



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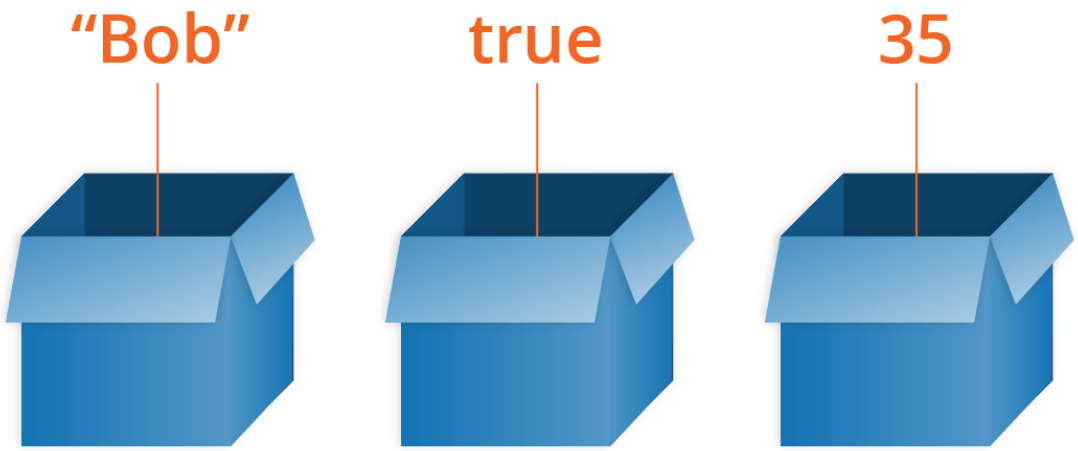
VARIABLES



var x = "demojs" (before ES6)

(After ES6)

-> New keywords : let & const

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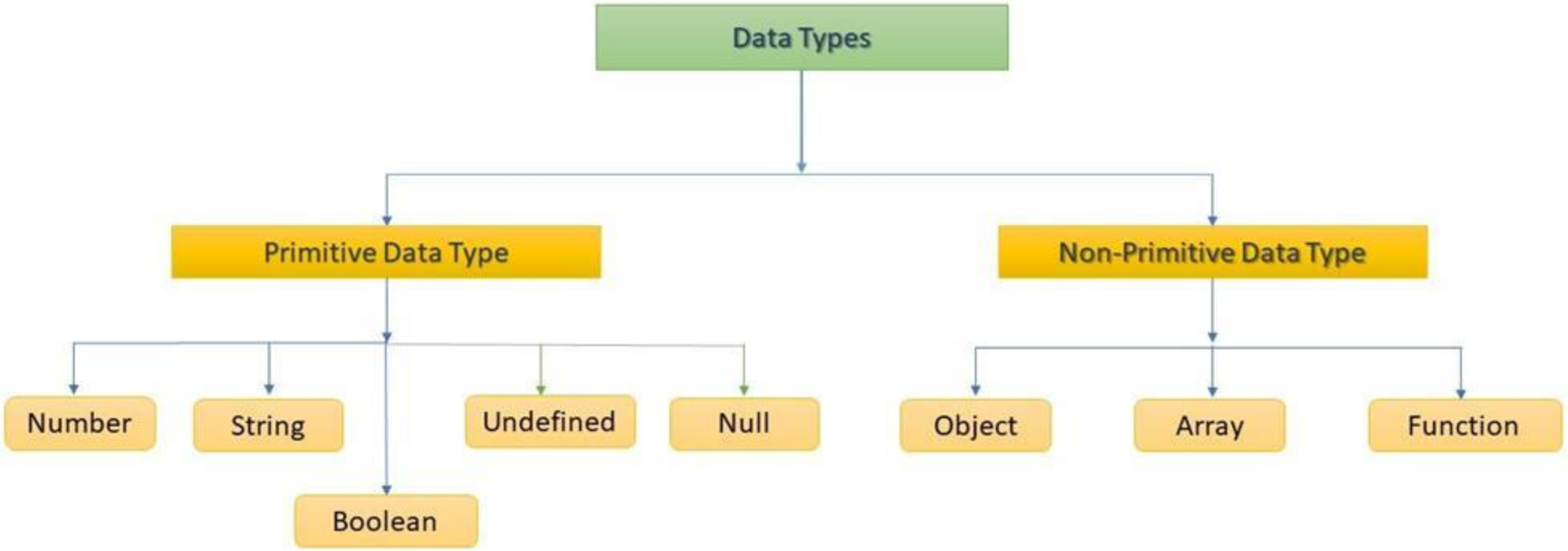
RULES FOR NAMING JAVASCRIPT VARIABLE

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

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Conditional Statements & Loops

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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

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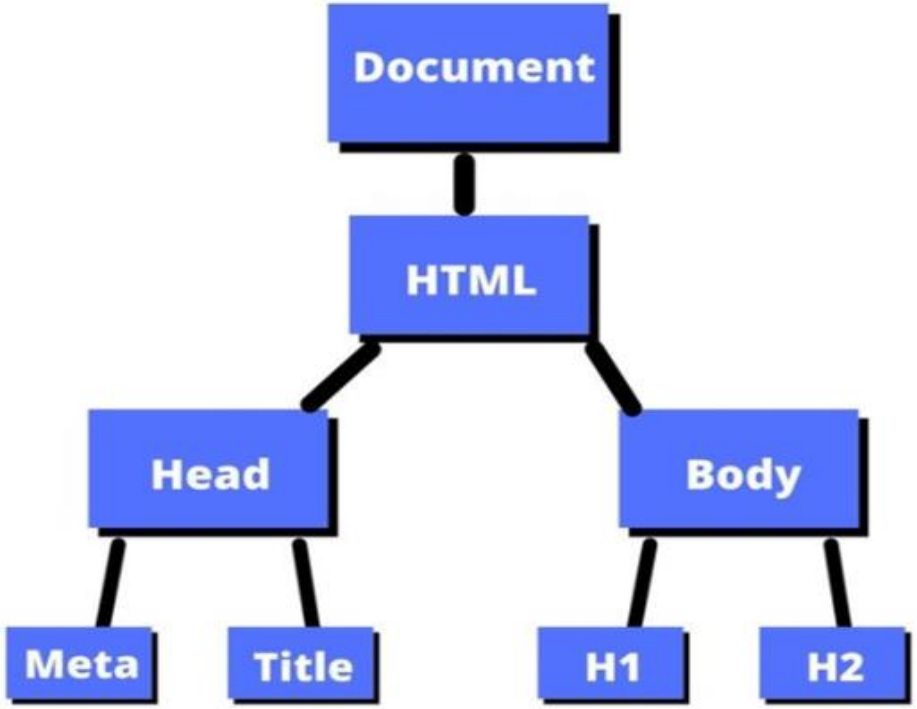
DOM

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.getElementByClassName()

3.getElementByTagName()

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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