## Resources:

* https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/#basic-javascript

## introduction

* JavaScript and Java are completely different languages, both in concept and design.
* JavaScript was invented by Brendan Eich in 1995, and became an ECMA standard in 1997.
* ECMA-262 is the official name of the standard. ECMAScript is the official name of the language.

### Where to use JavaScript

The possible places to use JavaScript are:

1. in the <script> Tag

In HTML, JavaScript code is inserted between <script> and </script> tags. E.g >

<script src = “Javascriptfile.js”></script>

1. **JavaScript Functions and Events in the body and head:** You can place any number of scripts in an HTML document.
2. Scripts can be placed in the <body>, or in the <head> section of an HTML page, or in both.
3. **External JavaScript:** Scripts can also be placed in external files. External scripts are practical when the same code is used in many different web pages. JavaScript files have the file extension .js.To use an external script, put the name of the script file in the src (source) attribute of a <script> tag

What are the advantages and disadvantages of using JavaScript as internal or external file?

### Outputting JavaScript

#### Commenting in javaScript

JavaScript can output/display data in different ways:

* Writing into an HTML element, using innerHTML.
* Writing into the HTML output using document.write(). Using document.write() after an HTML document is loaded, will delete all existing HTML:
* Writing into an alert box, using window.alert().
* Writing into the browser console, using console.log().

## JavaScript Syntax

## JavaScript Operators

## Conditionals

## Data Types in JavaScript

## JavaScript Variables

* Variables are Containers for Storing Data. JavaScript Variables can be declared in 4 ways:
  + Automatically
  + Using var
  + Using let
  + Using const
* When to Use var, let, or const?
  + 1. Always declare variables
  + 2. Always use const if the value should not be changed
  + 3. Always use const if the type should not be changed (Arrays and Objects)
  + 4. Only use let if you can't use const
  + 5. Only use var if you MUST support old browsers.

# Projects

Programming Foundations with JavaScript, HTML and CSS: https://www.coursera.org/learn/duke-programming-web?irclickid=RIxWhvSoAxyNUviSyOTL63PeUkF22-wGUxA12A0&irgwc=1&utm\_medium=partners&utm\_source=impact&utm\_campaign=3294490&utm\_content=b2c