

03 - Foundation Coding - Intro - Javascript Basics

30-April-2020

OUTCOMES

1. Variables and basic statements
2. The DOM - Grabbing and changing elements - very basic version
3. Data types
4. Some basic programming with vanilla javascript



TIME

- 2 - 4 hours

MATERIALS

- Code Editor
- Web Browser - Chrome
- Pen and paper for notes and to do's

LEARNING

1.  Reading -- What is the D.O.M?
<https://css-tricks.com/dom/>
2.  Some basic Data Types:
basic-data-types.jpg-below *courtesy: JavaScript and JQuery: Interactive Front-End Web Development 1st Edition*

DATA TYPES

JavaScript distinguishes between numbers, strings, and true or false values known as Booleans.

NUMERIC DATA TYPE

The numeric data type handles numbers.

0.75

For tasks that involve counting or calculating sums, you will use numbers 0-9. For example, five thousand, two hundred and seventy-two would be written 5272 (note there is no comma between the thousands and the hundreds). You can also have negative numbers (such as -23678) and decimals (three quarters is written as 0.75).

STRING DATA TYPE

The strings data type consists of letters and other characters.

'Hi, Ivy!'

Note how the string data type is enclosed within a pair of quotes. These can be single or double quotes, but the opening quote must match the closing quote.

Strings can be used when working with any kind of text. They are frequently used to add new content into a page and they can contain HTML markup.


BOOLEAN DATA TYPE

Boolean data types can have one of two values: true or false.

true

It might seem a little abstract at first, but the Boolean data type is actually very helpful.

You can think of it a little like a light switch - it is either on or off. As you will see in Chapter 4, Booleans are helpful when determining which part of a script should run.

-  More info on other data types:
https://www.w3schools.com/js/js_datatypes.asp

3. Grabbing Elements & Console.log vs Console.dir

 Live Demo - Recording to follow

4. Basic arithmetic and interacting with the D.O.M or HTML

 Live Demo - Recording to follow

ACTIVITES

1. Create your own basic program with the Demo template
 - a. Instructions to be confirmed by tutor

STUDENT INTERACTIONS

1. Initial meeting and interaction
2. Live demo with question time
3. Activity self study section

QUESTIONS & REFLECTION

1. What are the 2 values for a boolean?
2. How would you describe a javascript string?
3. What does D.O.M stand for?
4. What are 2 words you cannot use for a javascript variable

MODULE OUTCOMES

Foundation coding

These learning outcomes will enable you to:

- Debug JavaScript to eliminate errors
- Include a JavaScript library to meet project requirements
- Extend a JS library with a 3rd party plugin
- Use a range of production tools to assist in the development of a project
- Use JavaScript to manipulate the DOM
- Implement functionality of UI components with appropriate raw JavaScript and/or a library
- Write code consistently following a code style guide

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- Quality assure own code by testing against industry standards
- Define deliverables based on use cases prior to production
- Write an appropriate proposal for a web project
- Set critical deadline milestones for project during the planning stage, and analyses variations from this when signing off the project