Session 1 - Introduction to Javascript

Done with Lead Instructor

Session 2

Introduction to Javascrip

- Add comments //

- Data types (strings, numbers, Booleans, null, undefined, symbols and objects)

- Arithmetic Operators

- String Concatenations

- Properties (.length)

- Methods (.trim .toUpperCase)

- Built in Objects (Math,random(), Math.floor)

Variabels

- Variable var

- Variable let

- Variable const

- Mathematical Operators (+ \_ % \* /)

- The increment and decrement operators (++ --)

- String concatenation with Variables (‘I asked a question to’ + friendName + ‘and they said’)

- String Interpolation (`I asked a question to ${ friendName} and they said`)

- Typeof (console.log(typeof newVariable //string)

Session 3

Conditional Statement

- If statement (if (true) {console.log(‘you won’))

- If…else statement

- Comparison operators (< > <= === !==)

- Logical Operators (&& || !)

- Truthy and Falsy

- Ternary Operators (if… else)

- Else if statement (if ….. else if ….else….)

- The Swicth

Session 4 – Debrief in the Pods

Session 1 – Done with Lead Instructor

JavaScript Functions, Scoping, and Program Flow,Conditional Statement

Session 2

Functions

- Function declaration

- Calling a Function

- Parameters and Arguments

- Default Parameters

- Return

- Helper Functions

- Function Expressions

- Arrow Functions

- Concise Body Arrow Function

Scope

- Blocks and Scope

- Global Scope

- Block Scope

- Scope Pollution

- Practice Good Scoping

Session 3

Arrays

- Create an Array

- Accessing Elements

- Update Elements

- Array with let and Const

- The .length property

- The push() Method

- The pop() Method

- More Methods (.unshift, .slice)

- Arrays and Functions

- Nested Arrays

Session 4

Loops

- Repeating Tasks Manually

- The For Loop

- Looping in reverse

- Looping through Arrays

- Nested loops

- The While loop

- The Do…While loop

- The Break keyword

Iterators

- Functions as Data

- Functions as Parameters

Session 5 – Debrief in the Pods

Session 1 – Done with Lead Instructor

Object Oriented Framing

Session 2

Objects

- Introduction to Objects

- Creating Objects Literals

- Bracket notations

- Property Assignment

- Methods

- Nested Objects

- Pass by Reference

- Looping through Objects

Advanced Objects

- Introduction

- The ‘this’ keyword

- Arrow function and this

- Privacy

- Getters

- Setters

- Factory Functions

- Property value Shortland

- Destructed assignment

- Built in objects Methods

Classes

- Introduction

- Constructor

- Instance

- Method Calls

- Inheritance 1

- Inheritance 2

- Inheritance 3

- Inheritance 4

- Inheritance 5

- Static methods

Session 3

How to Debug Javascript errors

Session 4

Modules

Session 5 – Debrief in the Pods - WED

Session 1 – Done with Lead Instructor

Building Interactivity with DOM Manipulation