**Unit 1 - Computer Languages & Number Systems**

Environment: IDE: freeCodeCamp.com, codepen.io

Resources: w3Schools.com, stackoverflow.com, bootstrap.com,

Version Control: git, github.com

Output: 'Hello World'

Comments

HTML Elements

<html>,<head> (meta-data)

HTML Content Elements

<body>, <h1> to <h6>, <p>, <div>

\*Use w3Schools referernce for more

CSS Style Rules

Background, Color, Box-Model (Content, Padding, Border, Margin), Border-Radius

\*Use w3Schools referernce for more

Selectors: Element, Class, Id

Inheritance: Inherit or Overide

Images <img>

Links (Anchors) <a>

Input: Form, Text-Field, Text-Area, Button <form>, <input>, <label>, <button>

Color: RGB, RGBA, HEX, name (number systems lesson)

Labs...

create a simple web-page using codepen.io (1-2 days)

create a simple web-page and host on github (use sublime text-editor) (1-2 days)

**Unit 2 - Programming Basics: JavaScript**

Comments

Variables

Assignment Operator

Constant

Output: console.log()

Math Operators

Order of Precedence

Inc/Dec Operators

Modulus Operator

Compound Assignment

Function

Parameter

Return

Labs...

Variables Lab (1/2 day)

Math Lab (1/2 day)

UI Controls (1 day)

Turtle Graphics (1 day)

Canvas (1 day)

**Unit 3 – Control Flow**

Conditionals

If

If else

If elif else

Loops

For

While

Labs -

Lightbot

Jeroo

AP conditionals problem set