**12 February 2019**

To google:

http- hypertext transfer protocol

https- hypertext transfer protocol security (secure connection) internet encryption

markup-html/xml ( what is xml)

xml- more open ended, why not use it? A limited language is easier to use as a developer. Due to xml being more open range.

Why is a attr. Important, being is the path to show the browser where to find the image or link.

Why does the img tag have a closing tag, open tags don’t require more information that whats between the brackets.

P2P - ^

ftp- ^

learn how to adapt your information for different browsers, the three main browsers BROWSER CODE^ JS and jQuery,

copy right and copy left, ^ example of copy left, is wiki programs that can be edited. Different forms of licensing.

Back-end languages, node.JS PHP AND MySQL

TIM BERNERS-LEE ^

NeXT computer first server. / He made the HTTP CLIENT, he was talking about a set of simple concepts, he didn’t do any code.

(client/ server relationship)

WEB STANDARDS

W3C – world wide web consortium the formal description of technical Specification describing aspects of the WWW.

Process of implementation. Working Draft, the forst available form of public doc, Candidate Recommendation, Proposal Recommendation, W3C Recommendtion. There for the only, html that is best to be used is html 5

Licensing GP,L cc, MIT,Apache

Html is used for structure

Css is used for layout

JS is for dOM

Server Side Technology

Apache, PHP, MySQL

HOW TO VALADATE YOUR HTML DOC.

<http://validator.w3.org/>

Homework

Headings and paragraph challenge in your LMS

**14 February 2019**

Practicalities of website planning

**URL availability**- address of the website ( is it available to you)

**Domain types**(.com, .co.za, .org )- when you are looking to buy a url, which domain do you want. {to domains .com, .co.za, .org} .com standing for commotional to address to a particular market. You buy a domain from a domain registrar, that set it up so you can have your own website. Exists separately form hosting.

**[Port number]**

**[hosting services]**

**CPanel-** a system for managing hosting services any service hosting company must offer a CPanel system.

**Linux servers-** companies that use Linux servers used for storage and are most secure. Linux assumes that you are just a user, restricting what you can actually do. Chances of hacking can be reduced this way

Google page rank, structure.

HTML5 SEMANTIC ELEMENTS

|  |  |
| --- | --- |
| <header> | |
| <nav> | |
| <section> | <aside> |
| <Article> |
| <footer> | |

* **<article>-** self-contained section.
* **<aside>-**divergent content( but not completely separate from surrounding content.
* **<details>**
* **<figcaption>**
* **<figure>**
* **<footer>**-footermain or footer of a post can be used multiple times.
* **<header>**- master head or intro to page contents or intro to <article>
* **<main>**
* **<mark>**
* **<nav>-** major nav blocks (not intended in footer. (links)
* **<sectio**n> - separate page content Into major logically sections
* **<summary>**
* **<time>**

|  |
| --- |
| * Sectioning containers(not styling purposes * Elements with meaning for both humans and pcs * Search engines and other software making it readable. |

Document object model (DOM)

Inline blocks take less or half the page. (in CSS)

“../” (TAKES YOU ONE LVL HIGHER IN THE DIRECTORY)

**HTML5 markup excerise**

Include semetric markup

List nutritional info in a table

Include a short bio with icons linking to you social media profiles

Your images must be optimized for the web

Digital communication:

Email slack and google calendar.

**NB emails**

Always include a subject, not always good to use the same thread. Be friendly ut don’t ramble, keep it concise, full sentences and good grammar. Only send emails when necessary. Be neat and nice so the important bites are clear. CC- COPY SOMEONE IN. BCC- BLIND COPY.Dont use caps it looks like you are shouting. Greet you receipt, have good greeting at the end so people know the tone. [Boomagrang for gmail]

**Instant messaging SLACK**

USE slack for update, or to ask for help on it. **Join za.tech.slack google it**

**18 February 2019**

**Project: Online Cv excerise design a portfolio site on paper. This will be your CSS prettiness. Do it on powerpoint. Styling**

**Github.io for your url for you website.**

Ditigal Images

Resolution: image detail

Pixel: Picture element smallest unit of measurement for display of digital images

Raster: Resolution dependent images are image the relay of predetermine things. ( jpg, png, gif)

Vector: Resolution independent( svg, ai) mathematical images

Lossy and lossless-Compression is algorithm is use to make a folder or image smaller.

Lossy-loss more info

Lossless- lose less information

Dots per inch(dpi) – 72dpi. 150dpi, 300dpi.

Consider using SVG images because its not the most compatible with all browsers.

Most websites are using 72dpi. Newspapers are using 250dpi and magazines are using 300 dpi.

Use a 1920-1080 resolution so that your picture can be used on a monitor.

GiMP- IMAGE EDITOR

KRITA- IMAGE EDITOR

1bit indexed color is 2 colours

2 bit indexed colour 4 colour

4 bit indexed colour16 colours

8 bit channel RGB 16.7M colours

**Colour Space**

* RGB: additive colour (adding all these colours you will get white)

**Image qualities**

-jpg: photographers

-PNG: Alpha channel. Lossless

- GIF: low bit length animation

-SVG: Hmtl5, Crisp, Clean lines, Scalable.

CMYK: Subtractive Colour

Added together it will be a milky black

**Forms**

-text

-email

-message

Basically an text box that requires the user to put information into the text box.

<form>

<lable for=”name”> name:</lable>

<input type=”text id=”name” name=”user\_name” required>

</form>

Recommendation: Do the form validation challenge on your LMS

**Responsive Web Design**

Creating a website without a specification device like a website adapting to the size of the screen

Mobile first, you design your site to look good for a phone first.

**Characteristics of Responsive website**

-Flexible grid

3divs that change in size and position

-flexible media

Images that can change size according to have big the page is. Next it in the div because we want the image to be the 100% size of the div. ( width 100%) targeting the div and the image

Structure of a CSS rule:

.selector{  
property: value;

}

Id or class\_# or .

<div class=”my class:></div>

<div id=”myID”><div>

Fonts and colours challenge