Intro

29 August 2023 08:59

~~check terminal~~
~~Check~~ git
Check vsc

Web Dev

-> Developing a 'web' application

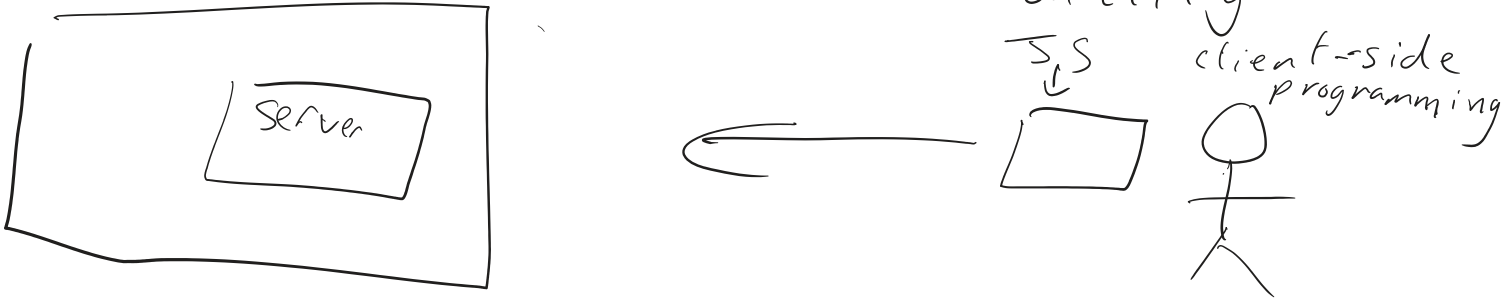
-> Any app that is accessed via the web

-> Accessed via web browsers

-> Different web browsers interpret code in different ways

-> Leads to potential issues in maintain feature parity across browsers

HTML -> HyperTextMarkupLangnage -> Structure
CSS -> Cascading Style Sheets -> Styling
JS -> JavaScript -> Functionality



HTML

29 August 2023 13:41

Open → <tag>

<tag>

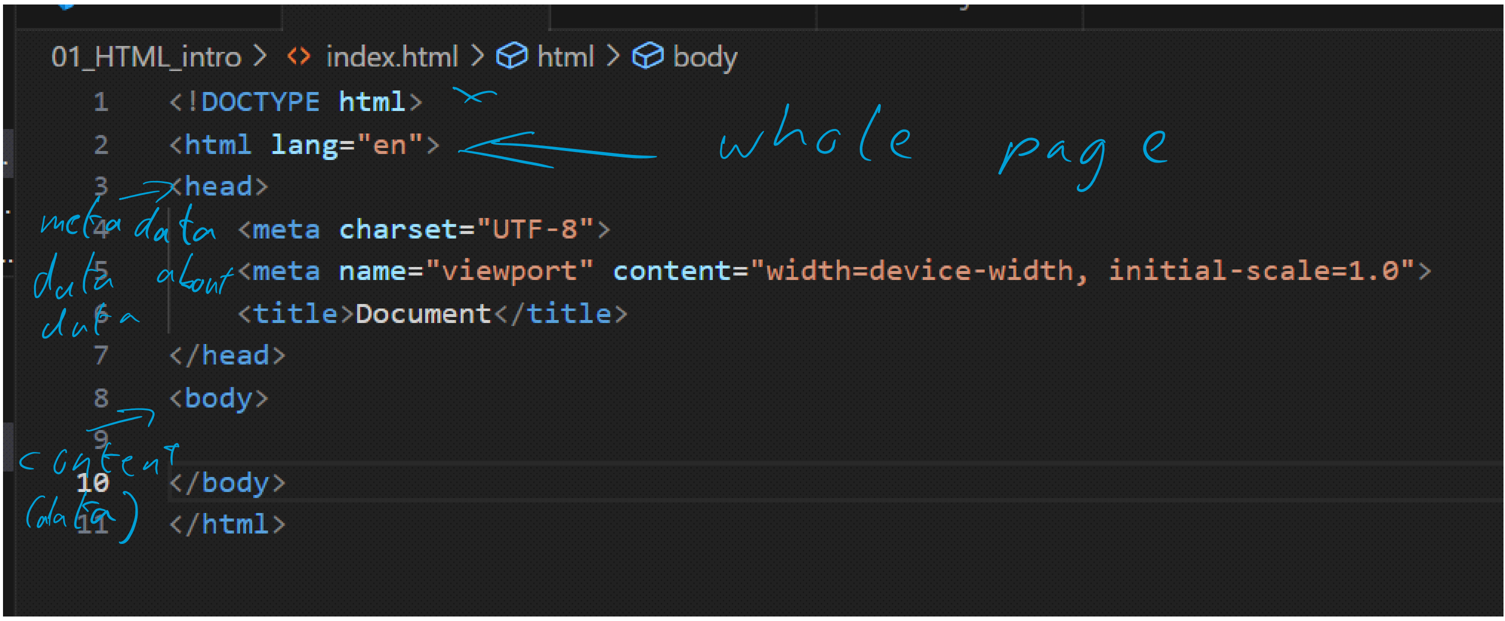
Content

Close → </tag>

<img src="...">

↑ attribute changes settings of that tag

29 August 2023 13:45

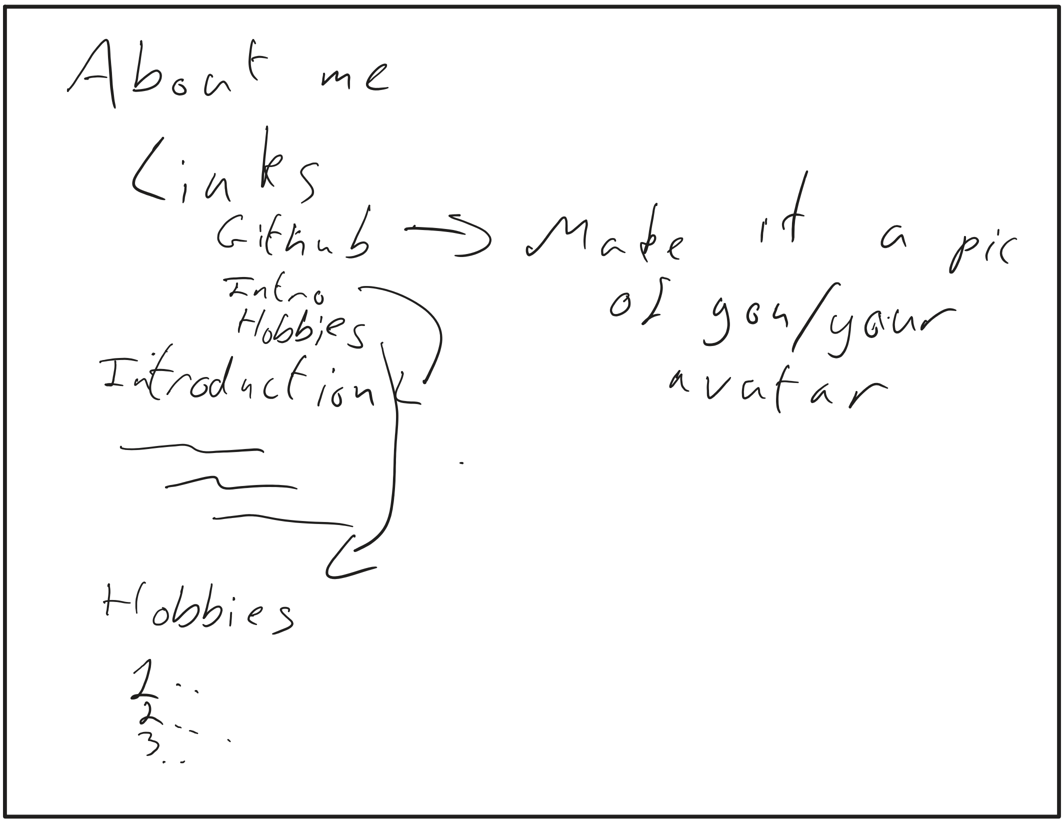


```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>

</body>
</html>
```

Ex 1.

29 August 2023 14:08



Links

29 August 2023 15:03

```
<a href="address">
    Text
</a>
```

https://www.qa.com

protocol

HTTP

Hyper Text Transfer Protocol → Chacks text at people over the internet

Recap

30 August 2023 09:06

HTML -> Hyper Text Markup Language

html version -> Structure of the page

DocTypeDefinition

html

body (content) head (meta data)

h1 -> biggest header

h4 -> normal text

h6 -> smallest header

p -> text with a line break

strong -> bold

em -> italicised

br -> line break

a -> hyperlink

-> href

<a href=" "> Link </a>

URL

External site : absolute path (including protocol)

Different page : relative path

Same page : # id

id is an attribute that provides a unique identifier for that element

div -> group of elements

ol / ul

ordered 1, 2, 3

unordered • •

W3Schools -> quick
-> easy
-> intuitive

MDN -> comprehensive

Table

30 August 2023 10:01

-> data expressed in rows and columns

-> can have headings

```
<table>
    <thead>
        <th>Heading </th>
    <thead>

    <tbody>

        <td> Data </td>

    </tbody>
</table>
```

head -> metadata

header -> top of the section

heading -> h1, h2...

table headings -> thead
-> th

Form

30 August 2023 11:43

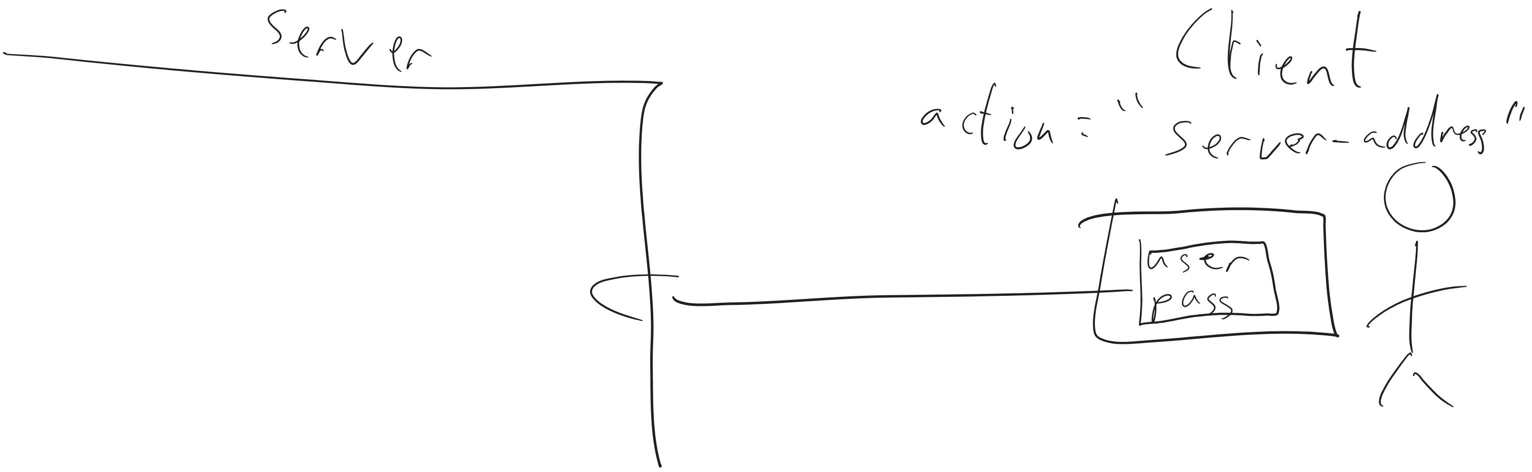
Gather user Input

<form>

<input />

</form

http://127.0.0.1:5500/03_HTML_Forms/index.html?user=root&pass=pass ← query params



30 August 2023 14:29

```
<label for="passId"> Pass:
</label>

<input type="pass" id="passId"/>
```

CSS

30 August 2023 15:08

Cascading Style Sheets

- → used to style a webpage
- → default styling provided by the browser
- →

```
selector {
    property : value ;
    color : red ;
}
```

- → 3 ways to use it :
  - external css : css file referenced using a <link>
  - internal/embedded css : <style> tag in head
  - inline css : use the style attribute

DOM

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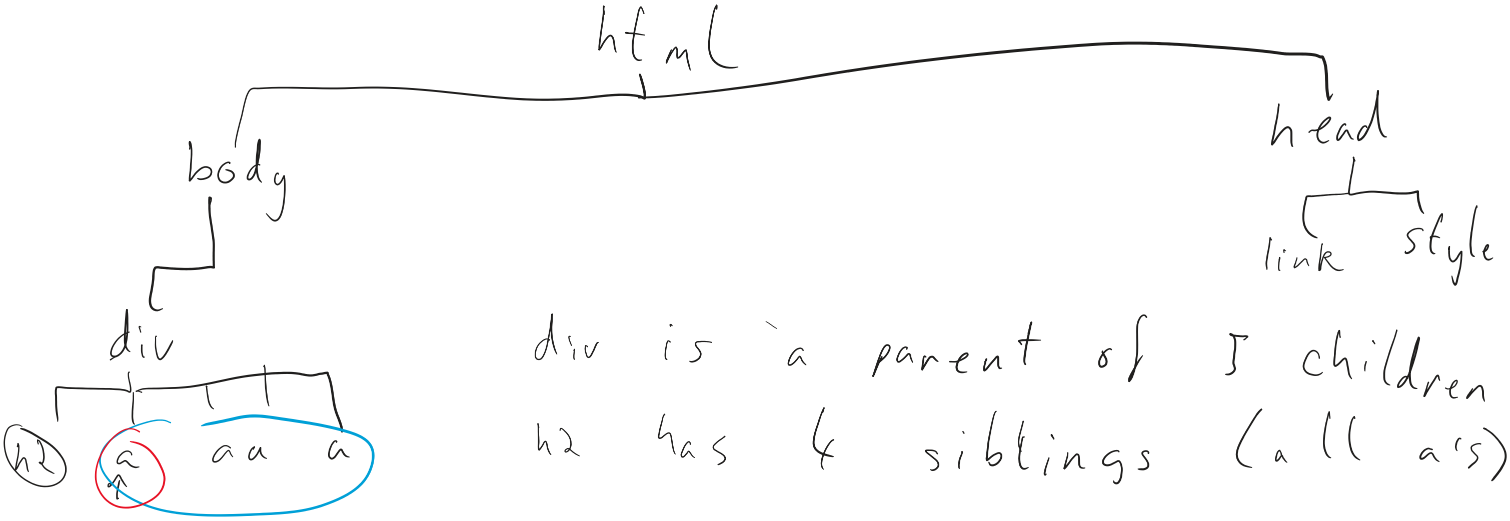
Document Object Model



div is a parent of 5 children

h2 has 4 siblings (all a's)

h2 ~ a

h2 + a

31 August 2023 09:13

$$\underbrace{\texttt{p}}_{\text{tag}}.\underbrace{\texttt{interactive}}_{\text{Class}}:\underbrace{\texttt{hover}}_{\text{pseudo-class}}$$

↓

like a class
but they're applied
by the browser

Hex

31 August 2023 10:45

0

↓

999

1 0

1 1

1 2

3

4

5

6

7

8

9

Base 10

0

↓

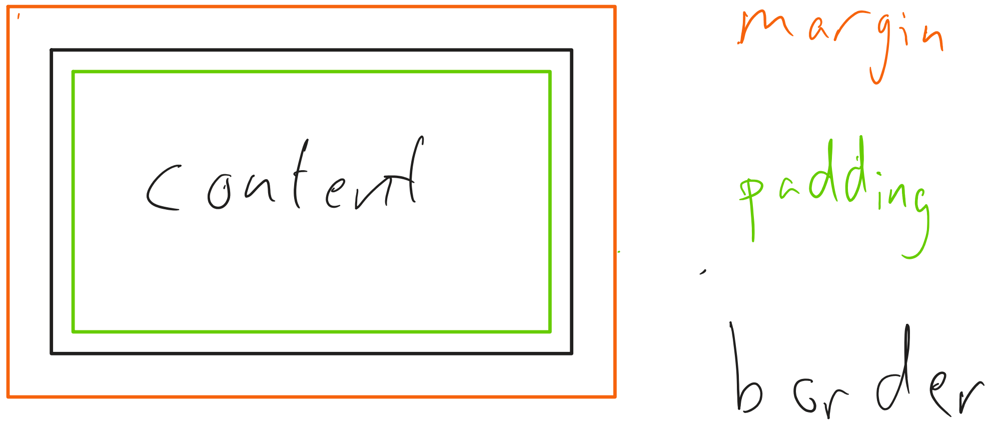
fff

Base 16 (Hex)

0
1
2
3
4
5
6
8
9
a
b
c
d
e
f

Box Model

31 August 2023 13:11



Positioning

31 August 2023 13:26

position -> how an element is positioned

default: static -> unchanging

relative -> relative to original position

absolute -> `like' relative but doesn't affect rest of page

JS

31 August 2023 13:53

JS → Used to provide functionality to websites → react to user input

Has modern libraries for creating websites like React

Better than python?

Unique because it runs in the browser → Is actually the only language that runs in a browser

JavaScript

Java → Lie

Script → scripting language → .js files that are exeuted ↓

Variable

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Variable -> box for data

-> named, so you can refer back to it later

let n = 27;

variable is

(print)

console.log (n) -> 27

n = 32;

- assignment (put value in box)

Const PI = 3.142; -> constant

-> can't reassign it

let variableName223;

-> unique -> start with letter or $ or _

-> camelCase makes it easier to read long names w/o spaces

String functions

31 August 2023 15:31

str.indexOf ("...")

↓

finds the position of a string in a bigger string

e.g. → "Jordan Harrison".indexOf("r");

0 1 ② 3 4 5 6 ....

"Jordan".charAt (0) → "J"

character at position 0

↓

letter/number/symbol

"Jordan".toUpperCase ( ) → "JORDAN";

Types

31 August 2023 14:56

Primitive Types: simple
1 value

Number → 0→9

Boolean → true/false

Strings ⇒ "text" or 'text'
⇒ alphanumeric characters

Undefined → never had a value

Null → No Value → EMPTY

Objects ?

typeof <variable> → prints out the type of that variable