Notes - Web 1

Fall 2024

The following notes are Mr. Birkel's notes taken regarding the important concepts covered in class.

Due Date	Assignment
9/25	Simple Bio

Web 1   9/9/2024

(EQ) How to set up an
HTML Page

Resources

Canvas — sk.instructure.com

VSCode — vscode.edu.com

Common web files {
index.html — main page — "what"

styles.CSS — How it looks — "How"

favicon.ico — tab image (optional)

script.js — Javascript - interactivity (optional)

* names of files doesn't really matter.

Elements — <start> _____ </end>
                              content
                    tags — "what" of
                         your content

| Pg 2 | Indentation
- every time a start + end tag are
on separate lines, indent everything
in between
`<head>`
   ~~~~~~
   ~~~~~~
   ~~~~~~
`</head>`

Head → Background info

Body → Web page - visible portion |

Pg 3

Brief History of Web   9/10/24

5 websites I visited this week, their
Purpose + Non-Internet Alternatives

* gmail — Digital communications
  Alternatives — Phone, letters, in-person communication,
                  not talk to people

*

*

*

*

Add your own

Pg 4

Brief History of the Web

WWW = World Wide Web (Not the Internet)
Internet = ~~Network~~ Global Network of Computers
- roads = Paths
- homes = Computers
"The Web" = Websites you visit

~~1960's 1970's~~

1960s - 1970s
- *US DoD needed a data & communication system that could survive an attack if part of it was destroyed.
- *ARPANET or
  - 1st Network
  - Breaks data into packets (like puzzle pieces)
  - Packets are reassembled @ Destination
- *Elizabeth Fienler (a.k.a. Jake)
  - ~~Helped~~ Directed NIC for the ARPANET
  - Pioneered development & administration of the Internet
- *Vint Cerf & Bob Kahn
  - Introduced TCP/IP protocol
  - Allowed different networks to communicate w/ each other
- *Tim Berners Lee
  - *Developed WWW in 1990
    - 1st Web Browser -1990
    - 1st Web Server -1990
    - 1st Web Page -1991
- *Web Browsers - Apps that display website content
  - Google Chrome, Firefox, Edge, IE, Opera, etc.
- *Search Engines - Websites that index & show search results for other Websites - Google Search, Bing, pinterest, etc.

Pg 5

HTML Page Setup

* All web pages are called _____.html
index.html → Default home page.

* HTML → HyperText Markup Language
↳ HyperLinks/Anchor Tags

```
<!DOCTYPE HTML>  →  ( Define the type of document
                      as an HTML Doc )

<html>  ←  ( document starts here. )
    <head>   } Background info
               - Title (of tab)      - meta data
               - Link to stylesheet
    </head>
    <body>   } All visible content
               - Headings (H1 - H6)
               - Paragraphs
               - images          - etc
    </body>    - links
</html>  ←  ( document ends here )
```

HTML Text Elements

*Headings - Larger Text (w/ a purpose)

6 HTML Headings h1, h2, h3... h6

h1 - Titles of web page (only 1 on page)

h2 - Section Headings - create divisions

h3 - Subsections

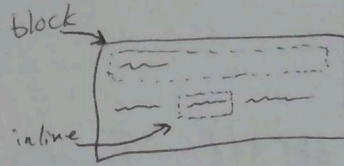*Other Text

Paragraphs - p - Almost all other text

address
quote
blockquote

*Space (whitespace) - ignored by browser

Code	Browser
`<h1>Hello   World</h1>`	Hello World
`<p> Hi, my name is    Mr.   Bickel </p>`	Hi, my name is Mr. Bickel

new lines are ignored

Auto wrap

block

inline

* Text Formatting
- Block Elements - Take entire "row" of space
- Inline Elements - Tags that go between other tags. Only take as much space as needed. Unlike headings & paragraphs, they don't create new lines

<strong> Bold text → Visual Stress/Emphasis
<em> Italic Text → Vocal Stress/Emphasis
- change meaning
I love pizza | I love pizza | I love pizza

Comments

start

comment   end

```
<!-- 1 Line Comment -->
```

```
<!--
Multi-Line
Comment
-->
```

Comments are ignored by your browser

Self closing Tags

Images

Source   Location/Name of img

```
<img src="_____" alt="_____" >
```

alternative text

how you would describe the img to someone who can't see it.

| Pg 8 | (images continued) —— Full URL/Address

Absolute References — https:// —————

-avoid this....

Relative References — files/images stored
in the same project
- easier to access
- Not stealing bandwidth from other sites
- Does not use https:// —————   ↖ Local
                                       Address

                    Property
< —   " >
name   —value

         attributes

title = " _____ " → tooltips

Links

a.k.a Hyperlinks or Anchor Tags

-Launch you to
- another location on this page
- another location on this site
- Someplace else entirely

(hyper reference)

 ⌐→ Visible Name of Link

(open in a new tab)

(where to launch to) |
Pg 9	
Pg 10	
Pg 11	
Pg 12	

| Pg 13 | |