# Fundamentals Notes

HTML

- HyperText Markup Language

- a markup, a descriptive language. WE are using HTML to describe the elements

- HTML is rendered by the browser

## Anatomy of HTML

1. Opening tag
   1. <p>, <div>
2. Content
   1. Text
   2. Another element (child element)
3. Closing tag
   1. </p>, </div>
   2. Elements with no content don’t have closing tag

## HTML Document Structure

1. Doctype
   1. Start of every page
2. Html
   1. We need to specify the language of the page
3. Head
   1. Meta element
      1. Charset =”UTF-8”
   2. Page title
   3. Scripts to css and js
4. Body
   1. All the elements on the page

- EVERY PAGE NEEDS TO HAVE ONLY 1 H1 HEADING

- <strong></strong> 🡪 use this for bold

- <em></em> 🡪 use this for italic (emphasize)

### Images

- <img />

- will always have a src

- will always have an alt (alternative text

- a text to describe what is the image abou

- will allow search engines to know what this image is about

- will allow blind people to use the website

## Links

1. Links to other pages
2. Links to outside of website
   1. Href
   2. Target = “\_blank” – opens the link in a new tab

## Containers

- we can specify a special element and group multiple minor elements intro a bigger one

- we can add attributes to the special element, and all elements will have the same attributes

- our body will have only 2 or 3 child elements

1. Nav

- used for navigational links

2. Main / Article / Aside (used for extra info not NECCEESASY related to the article)

- can be used for blog posts

- it represents articles – one article of computers, one article of pens

3. Header

- mark the top part of the page, article and so on

4. Footer

## Semantic HTML

- we mean that certain elements have actually a meaning or a purpose

- we should not think of an element how it looks on the page, but we should think on what the element means and what it stands for

- better for SEO – search engines will understand better the site

- for ACCESIBILITY – impaired users will profit from this semantic

EX

- strong 🡪 Bold

- em 🡪 emphasize

- nav, header, article, footer

- p ( paragraph with text )

- div (generic) – we want to use div when we don’t want to attach any mean to the element