## \* What is CSS?

- · CSS Stands for Cascading Style Sheet.
- · CSS describes how Html element are to be displayed on screen.
- · It can control layout of multiple pages an at
- · External Style sheets are stored in Css file,

# \* Why use css?

It is used to define styles of your web pager, including the design, layout and variations in display for different devices and screen Size.

## \* CSS Syntax

A css rule consists of a selector and a decilortion block. Ext n1 {

color: blue;

## \* Selectors in CSS

A CSS Selectors Select the HTML elements based on the element name.

- 1) Simple Selector
  q Element selector
  b Clay Selector
  c ID selector
  - 2) Psyedo-class selector
  - 3) Multiple Selector.

(a) Element Selector css element selector selects HTML element based on the element name EX > P { text-align: center, color : red;

# (b) class Selector was born beginning

- . The class selector selects HTML element with a specific clay attribute.
- . To select element with a specific clay write a period (.) character, followed by the class name. Ex => center-clan ?

color: blue! 3- Muskiple Selector | Grouping intection

## (c) ID Selector

- . The ID selector uses the id attribute of an HTML element to select a specific element
- · The id of an element is unique within a page, so the id selector is used to select one unique element.
- · To select an element with a specific id, write a hash (#) character, followed by the id of the element's

Ex=> # pana-id-ola / color: red;

# 2- Psuedo-clayer Selector A psuedo-clay is a keywownd added to a Selector that specifies a special state of the Selected element. Ex > Dstyle an element when a user hovery the cursor over it. Style visited and unvisided links differents,

Syntax Selector: psucdo-class property: value;

button: hover {

color: blue;

# 3- Multiple Selector | Grouping Selector

- · A grouping Selector Selects all the HTML eliment with the same Style definitions.
- to minimize the code.
- · To group Selectors, seperate each selector with

Ex=> h1, h6, P ( )

text-align: left;
background-color: aqua;

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\* HW universal selector

Nested selector

Attribute Selector

\* universal selector

The universal selector (\*) selector selects all HTML element on the Page.

EXF) \* { color: green;

\* Nested Selector

Just like in HTML Where you can have element nested inside other element, the same can be done in CSS.

Ex ? table tr th {
background-color: green;

\* Attribute Selector

The attribute selector is used to select element with a specified attribute.

Ex => 9 [target] | volo

7

backguround - color: yellow;

the exception of the state of the

\* How to add Styling in HTML?

(1) Inline CSS (6) Internal CSS (6) External CS

## \* Inline CSS

- · To style an HTML element, you can add the styl. attribute directly to the opening tag.
- · To use inline styles, add the style attribut to the relevent element.
- · Inline style should be avoid at all costs because it make it impossible to alter Style from an external stylesheet Ex> < h3 Style = "color: red," > HELLO </h1> \* Internal CSS

An internal Style sheet may be used if one Single HTML page has a unique Style. HTML allows us to write CSS code inside the (style) element, inside the head section Ex > < head>

<style> h6 / color: aqua,

</style>

# \* External CSS

When the HTML & CSS code are in seperate files, the must be linked.

· you can use the klink's element to link HTML and CSS files together. The kunky element must be placed within the head of the HTML file.

Ex > K rel="Stylesheet" href= "Style-css";

\* Specificity

If there are two or more css rules that points to the same element, the selector with highest specificity value will "win" and it style declaration will be applied to that HTML element.

· Every CSS selector has its place in the specificity hierarchy. | Inline

• ID

· clay, pseudo-clay, Attribute selector

L' Elementy and Pseudo-element.

# \* 1 important Rule

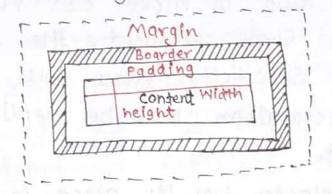
- . The limportant rule in CSS is used to add more importance to a property/value than normal.
- · If you use the important rule, it will overvide all previous Styling rules.
- · However, do not use it unless you absolutely have to

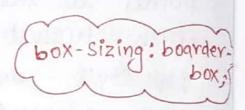
Ex > Polaso ga (nome) por (bed) da sure

color: red: important;

# \* Box Model in CSS

- · The box model is the basic building block of css.
- · According to the box model concept every element on a page is a RECTANGULAR box and may have width, height, padding, boardery and marging





Used

## \* colors in CSS

colors in css can be specified by the following methods.

- \* Hexadecimal colors
- \* RGB colors
- \* Predefined / cross-browser color
- \* RGBA colors.
- \* HSL Colors
- \* HSLA colors

## 1) Hexadecimal colors

A Hexadecimal colors is specified with # RR948 whomathe RR (Red), GG (Green), BB (Blue)

All values must be blow oo and ff, whomat oo means lowest value and ff means highest.

Black = # 000000 white = # ffffff

@ RGB color

rgb (red, green, blue)

Each perametery defines the intensity of the color and can be an integer b/w o and 255 or a percentage value from 0% to 100%.

ex+ rgb (255,99,71)

3 predefined color

140 color names are predefined in the HTML and CSS color specification, Exp red, green, black etc

(9) RGBA COLOY

[rgba (red, green, blue, alpa)]

It is extension of rgb color with alpa chandwhich specifies the opacity for a color. Alpha value b/w 0.0 (fully transparent) and 1.0 (not transparent) at all.

6) HSL colors

hst (hue, saturation, lightness)

. Hue is a degree on color wheel from 0 to 360.

· Saturation is the percentage value or, mean 9 Shade of gray and 100% is full color.

· lightness is also 9 %. Or is black, sol, is neither

light or dark, 100% is white.

6 HSLA color

hsla (0, 100'/., 50%, 1)

Extension of HSI with alpha channel -which specific opacity for a color alpha b/w (0.0 to 1.0)

# \* Font

\* Font-family

\* Font - weight

\* Font - Style

\* Emphasis & Important

\* How to add external fonts?

1) Font >> text characters in a specific Style and Size.

Maista Mark tar I day

- 2) Font family => A set of fonty that have a common design.
- 3) Font weight => Overall thickness of a typeface's Stoke in any given font.
- 1 Font Style => Is med to specify italic text

ins. I thus a softwall.em

(5) External font > @ font-face {

font-family: "my-fort".

sre: url (light-woff),

# \* Unit in CSS

- (1) Absolute Unit
- (2) Percentage unit
- (3) Relative unit
  - (9) Relative of font Size
  - (b) Related to document

(1) Absolute Unit

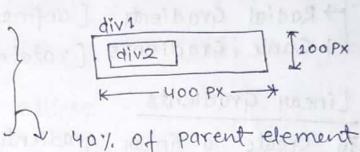
\* mm

\* cm

\* in

\* px } fixed (496 inch)

(2) Percentage Unit

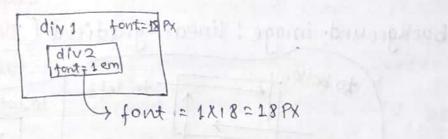


4\$ x 40\$ => 160 px

(3) @ Relative unit to font size

\* em => Related to parent element.

\* rem => Related to Root element.



B Relative unit to View Port

\* vh => 1 x height of view Port.