-) Cascading Style Sheets -) Describes how 4THL elements are to be displayed on screen 610 c.l.s J. -) It can control layout of multiple pages all at ones J. -) External style short are stored in css files Why use CSS? used to define styles of your web pg, including the design, layout d'variations in display for different devices à surcen sizes. CSS syntan? Selecton & Declaration block ? } the octon: blue; } property value How to add styling in 4TML? * Inline CSS * Internal CSS (style Tag) * Enternal CSS Selectors in CSS A css selector selects the 47ML element(s) you want

to style 1) Simple selectors (Element selector, class selector, ID selector) 2) Psuedo-class selectors 3) Maltiple Selector Combinator selectors 4) ? sue do - elements selectors 5) Attribute selectors Clement Selector Schots de MTML elevents band on the elevent name En ? l' text - align: center; colon: ned; Clas Selector selects KTML elements with a specific class attribute To select elements with a specific class period (.) character, followed by class name · center { coton: red; ID selector Used to select unique element. En # paral of colon: red;

Psuedo class selectors: Selects elements based -) hover -) active -) etc Syntan: selector: pseudo-class ? Property: value; Combinator selectors specific relationship between selects elements based On then. -) Descendant (space) -> child (>) -) Next sibling (+) -) Subsequent - sibling (~) Pseudo-elements selectors select and style a part of an element. Syntan: selector:: pseudo-element ? property: value;

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select elements based on an attribute or attribute

Universal selectors (*)

Multiple (monping sted selector) & h1, h2, p 1'.
Nested selector

Selector specificity

If there are I on more CSS rules that point to the same element, the selector with highest specificity value will "win", and its style decoration will be applied to that HTML element.

Specificity Hierarchy

Every cas selector has its place in the specificity thierarchy

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4 categories which define the specifity level of a selector:

* Inlène styles (righest)

* IDs (less than inline)

+ clarses, pseudo-clarses, attribute selectors (Lower)

* elements de pseudo-elements (loweast)

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-)!important rule is used to add more importance
to a property I value then normal

-) It will override all previous rules

-) Do not use unless you absolutely have to

En p g

colon: red [important;

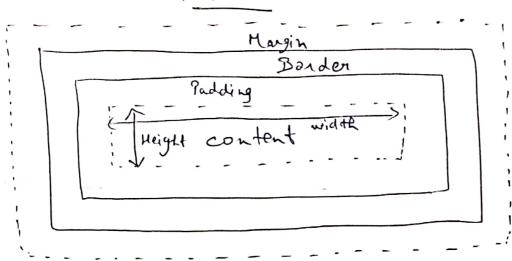
Carcading in CSS

Cascading ensures that styles from different sources (inline, internal and enternal) are applied connectly, with specific rules taking precedence over general ones.

Bon Model in CSS

Basic building block of CSS

According to the bon model concept every element on a page is a nectargular bon & may have width, height, padding, borders & margins.



- images appear
- * Padding: clears an area around the content. The padding is transparent.
 - * Bonden: A bonder that goes around padding & content
- * Margin: Clears an area outside the border. The margin is transparent.

Colors in CSS

Colons in CSS can be specified by following methods:

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- -> Henadecimal colons
- ->RGB colons
- -) Predefined / Cross browser color names
- endlos ABARA
- mala JEH (-
- 1881 V Valour

1) Henadecimal colons (HEX) A heradecimal color is specified with: #RRGGBB RR => Red, GG => Green, BB => Blue Values must be btw 00 to Black = #000000 White = # ffff ff 2) Rais Colon Red Green, Blue 195 (red, green, blue) Each parameter defines the intensity of color & can be an integer blu 0 to 255 on a percentage value from 0% to 100% Eg ngb(255, 99, 71) color names 3) Ynodefined / Choss - browser 140 color names are predefined in 4THL & CSS color specification 4) R<u>GBA</u> Entension of RGB with A as an alpha channel which specifies the opacity for a colon Alpha parameter is number between 0.0 (July transparent) and 1.0 (not transparent at all) ngba (255, 99,71, 0.8)

5) HJL colons hal (hue, saturation, lightness) e T Hue is degree on color wheel from 0 to 360 ET 0=) Red , 120=) Green, 240=) blue Saturation is a generage value 01/2 means a shade of grey, 100%, nears jul colon Lightness is also a percentage 0% is black, 50% is neither light on dark, 100% is white 6) MSLA whom Enternon of HSL with A as alpha channel which specifies opacity for a colon. Alpha between 0.0 to 1.0 En hsla (0,100%, 50%, 1) Units in CSS 2) Relative Unit 1) Absolute Unit length relative to another fined longth property cm i) Relative Unit to Font Size hm in (Parent on rely) en :- Relative to font size of element gn (noot) nem: - Relative to fort - size 9+ of noot element C Pc ii) Relative Unit to parent elevent 1. =) Relative to pared.

iii) Pete Relative Unit to Viewport * vN =) # DIX & glowdth of viewport * vh =) 1% of length of viewport <u>l'onts</u> Sets all font properties in one declaration. " Fort family (Specifies the Jost James Jon tent) * Font weight (weight of Jout) * Font style specifies font style for text. * Enternal Forts use google fonts a font-face is font-family ingtont; CSS Background Add background effects for elements CSS Bonders Allows to specify the style, width & colon of an element's bonder. Display Property specifies how an element is shown on web page the It can charge the default display behavior of MIML elments (i.e Inline on Block)

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display: ilin-block

behavior: - inline

style: - block

when elements need to flow inline but retain

block had styling

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CSS Position

Determines how an element is positioned in the

- i, <u>Static</u> Default for all elements
 elements are placed in round cloc flow
 (one after another)
 Top, night, bottom, left der not work
- ii) Relative Positioned relative to its normal position.
 More when you use top, right, softon, left, but
 its space in layout remains reserved
- none exists, it is positioned relative to contail anceston. If
 the document)
 Removed from normal flow, doesn't effect other
- iv) fixed Positioned relative to viewport, so it absort more when scrooling Great for sticky headers or navigation bars

Acts like relative unitil you scrobb to certain point, then it becomes fixed

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Z-inder property

-) Controls the stacking ander of elements, determing which elements appears in front of or behind cothers useful when elements overlap.

-> Higher reinden values appear in front of lower ones -> only works on elements with a positioning content.

Dreylow Property

Specifies what should happen if content overflow's an element's bon

This works only with block elements with specified height.

overflow: visible | Lidden | clip | scroll | auto;

Opacity

Specifies the transparency/opacity of an element the Lower the value, the more transparent.

Range: -0.0 to 1.0