## 3. Introduction to CSS

CSS -> Cascading Style sheet

A rule based language. Rules are defined by specifying groups of styles that should be applied to posticular elements or groups of clements on the web page.

Every single thing you see on a HTML page can be considered as an element.

CSS works at element level

Tell CSS > Appley style on a posticular element or group of elements.

HTML is sendered from top to bottom.

Style needs to be defined for seady before the content loads.

<head>

2style>

Stop1: Select the element

h2 & Mall the h2's in

HTML doc will have

this Style

color: sed;

font-size: 20ps; -> property

2

Key value

∠(Style>
∠(head>)

Defining CSS,

-> External

-> Internal

onilat 6

# Uses Agent Style Sheet (UASS):

Even if we don't do any styling, every HTML element had some default styling. That styling is coming from UASS.

They are default styles that web browsers apply to HTML doc's when no specific styles are provided by the author.

Each browser has its own UASS.

Usex Agent -> Browsex (acts on behalf of the usex when interacting with web content)

### Esternal CSS:

New CSS file is executed. It contains all sules for the app.

To link this external CSS to HTML docr

chead>

clink sel="stylesheet" heef=
" relative fath"/>

Style.css

43 {

Color: dreen:

 $\frac{1}{2}$ 

### Internal CSS:

CSS in the same as HTML file using 2style?

#### Inline CSS:

CSS for a particular element using 2 style?

Zdiv Style = "background-olor: aqua;
font-size: 30 px"

Style is available for all HTML elements.

If a HTML element has style defined in all 3 places (external, internal, int

The style of the last CSS to be applied.

Element Selector:

Selecting group of elements by a name.

color= red;

Selectors

Selectors

# Classes:

Let's say we want to apply Same styling to specific elements like h3, h2, input. Applying the style in internal /external CSS will apply to all n3, n2 & input but we only want for particular clements. Applying inline CSS will mare the style sepetitive.

Classoom > students with affects.

Science

Literature

Blue Badges

Red Bodges

A class is an attribute that can be used to assign a specific name to an HTML element.

This name can be used to apply CSS styles of to manipulate the element with Towa script.

Id's:

Library > Each book has UIN.

Unique Identification
Number

Library SHTML DOC BOOK SHTML element UIN S Id

Id's are used to identify HTML elements uniquely.

Id's are meant to be unique in the entire HTML doc.

No two elements can share the same id.

classes us Id's -> on be assigned to only element.

Can be assigned

to multiple elements and styling will be applied to all the elements with that class name.

HTML won't throw expose when two elements have same id.

But it is considered invalid according to HTML specification.

Some browsers may render the style for all elements with same id & some may only render the style for first element with the id.

Tosues with shorted Id.

SCSS conflicts: Only first occurrence of id will be styled.

STONASCOIPT Issues: get Elementhy Idos
only setuen the
first element
with that ID.

- Accessibility Apoblems. Duplicate Id's confue access to seaders to other

assistive technologia

class selectos:

. class-name {

3

Id Selector:

# id-name {

3

Selector is way to select an elements from element or group of elements from a HTML doc.

### Aescendant Selectos:

Descendant > A child is a descendant

of father as well as

his ground father.

48:4>

div li [ 11 All li clements in div should be applied this style.

## Children Selector:

·CI > hI & II hz is direct child of CI.

One clement can be given multiple classes separated by a space.

classe mi me > 2(d:1>

Not one class. Two classes separated by a spare.

2011 class = "ml m2 m3 m4 m5">

-m1.m2 & 11 Scienting multiple classes at the same time.

Attribute Selector:

Selecting an element from HTML doc based on attribute.

Input [value = "screet me"] {

?

# Pseudo-Class Selectos:

Select and style elements based on their state or position in the document, without state or position in the document, without needing to add additional classes to ID's to those elements.

a hover E L element state

color: greenyellow?

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