CASCADING STYLE SHEETS

CSS

CASCADING STYLE SHEETS

- Two aspects of any document Content and Style
 - Content information to be presented
 - Style how the information is presented

Content + Style = Document

CASCADING STYLE SHEETS

- Style sheet is a set of rules that controls the formatting of HTML docs
- A CSS is a style sheet language that specifies how to incorporate style information in a style sheet.
- Designed to work with html and xml documents
- W3C recommended

ADVANTAGES OF CSS

- Flexibility
- Faster
- Smaller in Size
- Saves Time
- Easy maintenance

STYLE SHEET RULE

It consists of two parts

- Selector defines which elements are controlled by the rule
- Declaration tells what the desired effect is.
 Each declaration consists of the name of the property and a value assigned to it.

Syntax: Selector { property: value}

Ex: h1 { color : blue }

GROUPING SELECTORS

A style can be applied to multiple selectors

Syntax: Sel1,sel2,..seln{ property: value}

Ex: h1,h2,h3,h4,h5,h6 { color : blue }

APPLYING MULTIPLE PROPERTIES

- To apply more than one property
- Declarations separated by semi-colon;

```
Syntax: Selector{ prop1:val1;prop2:val2....}

Ex: h1 {
    color : blue ;
    align : center
}
```

THREE WAYS TO INCLUDE CSS

- Inline
- Embedded or Internal
- External or Linked

INLINE METHOD

- Using style attribute
- Syntax:
- <tag style="property1:value1;property2:value2;">
- This paragraph background is blue in color

INTERNAL OR EMBEDDED

- Single document using a unique style
- Syntax

```
<style>
```

- o selector1 { property1:value1;}
- o selector2 {property1:value1;}
- </style>
- Example
- <head>
- <style>
- h1 { font-family:arial;color:blue;}
- body { backgroudimage:url("flowers.jpg");color:red; }
- </style>
- </head>

EXTERNAL OR LINKED

- Used when style is applied to many pages
- <head>
- type="text/css"
 href="style1.css" title=" Style1" media="tv,
 projection">
- </head>

STYLE PRECEDENCE (CASCADING)

- Inline styles override both linked style sheets and style information stored in the document head with <STYLE> tag.
- Styles defined in the document head override linked style sheets.
- Linked style sheets override browser defaults.



DIVISIONS

- Block level HTML element to define sections of a HTML document
- Can contain other HTML elements such as divisions, images, spans, text, etc.,
- o <div></div>

```
<div id="section1">
VIT UNIVERSTY
<img src="site.jpg">
<div>
```

```
#section1{
    color : blue;
    width : 50%;
    float : right;
}
```

SPAN ELEMENT

- Same as divisions except that it is an inline HTML element
- No line break is created
- content

```
<span id="section1">
This is part of the
  paragraph
<span>
```

```
#section1{
  font-style:italic;
  font-size:14pt;
  }
```

ID SELECTOR

- The id Selector is used to specify a style for a single, unique element.
- It is a name preceded with a "#"
- It uses the id attribute of the HTML element.

```
#p1 {background-color:blue}
 Web Technology
```

CLASS SELECTOR

- The class selector is used to specify a style for a group of elements.
- It is a name preceded with a "."
- It is generally used on several elements.
- It uses HTML class attribute.

```
<h5 class="fontcolor" > 
.fontcolor { color:blue;}
```

BACKGROUND PROPERTIES

Property	Description	Values
Background-color	Sets the background color	Color, transparent, inherit
Background-image	Sets the background- image	Inside, outside , inherit
Background-repeat	Sets the tiling of a background image	Repeat, repeat-x, repeat-y, no- repeat, inherit
Background-position	Sets the position of a background image	{Percentage, length,left,right,center}1 or 2 values, inherit
Background- attachment	Specifies if the background image scrolls or fixed	Scroll, fixed, inherit
*Background	Sets the color, image, repeat, attach ment and position	Background-color background- image background-repeat background-position background- attachment

TEXT PROPERTIES

Property	Description	Values
Color	To set the color of the text	Color name (red) Hexadecimal value(#ff0000) RGB color code (rgb(0,255,255)
Text-align	sets the horizontal text alignment	Left, right, Center, Justify,inherit
Text-decoration	Decorating the text	None(default), Underline, Overline, Line- through, Blink, inherit
Text-indent	Indent the first line of the text	Length (10px), Percentage(10%), em
Text-transform	To change the text to upper or lower case	None, Capitalize, Lowercase, uppercase, inherit
White-space	Controlling the whitespaces	Normal, Nowrap, pre, pre-line, pre- wrap, inherit
Letter-spacing	Space between letters	Normal, Length, Inherit
Word-spacing	To adjust space between words	Normal, Length(5pt), inherit
Length can be specified in em or px or pt or percentage(Generally, 1em = 12pt = 16px = 100%)		

FONT PROPERTIES

Property	Description	Values
Font- family	Sets the font family for the text content	Family name(ex: Arial, Garamond), inherit
Font-size	sets the font size for text content	Absolute-size, Relative- size(smaller, larger), length, percentage, Inherit
Font-weight	sets the font weight for text content	100,200,300,400,500,600,700,800,9 00,bold,bolder,lighter,normal,inheri t
Font-style	sets the font style for text content	Italic,normal,oblique,inherit
Font-variant	sets the font variant for text content	Normal, small-caps, inherit
Font	specifies font properties	font-style font-variant font- weight font-size font-family inherit
Absolute-size: xx-small, x-small, small, medium, large, x-large, xx-large		

LIST PROPERTIES

Property	Description	Values
List-style-type	Specifies the type of list- item marker in a list	Disc , circle, square, decimal , decimal-leading-zero, lower-alpha, lower-roman, upper-alpha, upper-roman, none, armenian, inherit
List-style- position	Specifies if the list-item markers should appear inside or outside the content flow.	Inside, outside , inherit
List-style- image	Replaces the list-item marker with image	url, none , inherit
*List-style	Sets the style, position and image	Style position image

TABLE PROPERTIES

Property	Description	Values
Table-layout	Sets the layout of the table	Auto, fixed, inherit
Border-collapse	Specifies if the border should collapse or detached	Collapse, separate, inherit
Border-spacing	Sets the spacing between adjacent cells' borders	Length , inherit
Empty-cells	Specifies whether or not to display borders and background on empty cells	Hide ,show, inherit
Caption-side	Specifies the placement of a table caption	Top, bottom, inherit
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Dimensions		
Property	Description	Values
height	Sets the content height of a block	Length(px,pt) Percentage Auto Inherit
Width	Sets the content width of a block	Length(px,pt) Percentage Auto Inherit

Margins		
Property	Description	Values
Margin-top	Sets the top margin of an element	Length(px ,pt,em), Percentage, Auto, Inherit
Margin-right	Sets the right margin of an element	Length(px ,pt,em), Percentage, Auto, Inherit
Margin-bottom	Sets the bottom margin of an element	Length(px ,pt,em), Percentage, Auto, Inherit
Margin-left	Sets the left margin of an element	Length(px ,pt,em), Percentage, Auto, Inherit
Margin(short hand)	Sets margin on all 4 sides	Length, percentage, auto{1 to 4 values}

Padding		
Property	Description	Values
Padding-top	Sets the padding for the top side of an element	Length(px,pt,em), Percentage,Inherit
Padding-right	Sets the padding for the right side of an element	Length(px,pt,em) Percentage,Inherit
Padding-bottom	Sets the padding for the bottom side of an element	Length(px,pt,em) Percentage,Inherit
Padding-left	Sets the padding for the left side of an element	Length(px,pt,em) Percentage,Inherit
Padding(short hand)	Sets padding on all 4 sides	Length Percentage{1 to 4 values}

Border		
Property	Description	Values
Border -top-color	Sets the color for the top border of an element	Color, Transparent, Inherit
Border-top-style	Sets the style for the top border of an element	None, hidden, dotted, dashe d, solid, double, groove, ridg e, inset, outset, inherit
Border-top-width	Sets the width for the top border of an element	Thin, medium, thick, length, inherit
Border-top	Sets the width ,color and style for the top border of an element	Border-width border-style border-color
Border-left, Border-right, Border-bottomsame as above		

Border		
Property	Description	Values
Border -color	Sets the color for all four borders of an element	Color, Transparent, Inherit
Border-style	Sets the style for all four borders of an element	None, hidden, dotted, das hed, solid, double, groove , ridge, inset, outset, inhe rit
Border-width	Sets the width for all four borders of an element	Thin, medium, thick, leng th, inherit
Border	Sets the width ,color and style for all four borders of an element	Border-width border- style border-color

LAYOUT

- To control the visibility, position, and behaviour of the generated boxes.
- Layout properties
 - Display
 - Position
 - Visibility
 - Float
 - Clear

LAYOUT PROPERTIES

Property	Description	Values
Display	Controls the type of box that is generated	Block, Inline, Inline-block None
Position	Controls the positioning of the box that is generated	Static(default), Absolute, Fixed, Relative, Inherit
Visibility	Controls the visibility of the element	Visible(default), Hidden Collapse, Inherit
Float	specifies whether a box should float to the left or right, or not float at all	Left , Right ,None ,Inherit
Clear	prevents a box from being adjacent to floated boxes	Left, Right, Both, None, Inherit