Appin Technology Lab: CSS Notes

Introduction:

Cascading Style Sheets (CSS)

Used to describe the presentation of documents

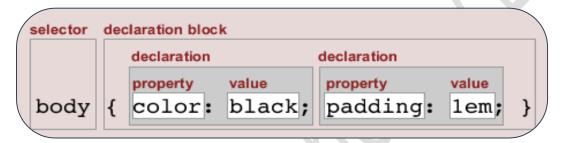
Define sizes, spacing, fonts, colors, layout, etc.

Improve content accessibility

Improve flexibility

Designed to separate presentation from content

Due to CSS, all HTML presentation tags and attributes are deprecated, e.g. font, center, etc.



Stylesheets consist of rules, selectors, declarations, properties and values

Selectors are separated by commas

Declarations are separated by semicolons

Properties and values are separated by colons

Selector in CSS:

- Selector is used to select or point to a specific element within the page.
- Following are the most commonly used selectors:
- 1. Universal Selector
- 2. Type Selector
- 3. ID Selector
- 4. Class Selector
- The universal selector is indicated by * and applies to all the elements of a page.
- For example :the following rule set changes all the element font name to "Arial"

*

```
{
font-family: Arial;
}
        <u>ID</u>
        Id selector is used for an unique element .
        Id selector uses id attribute of HTML <tag>.
        Id selector defines with '#'.
       #appin{.....}
        CLASS
        class selector is used for a group of elements.
        class selector uses class attribute of HTML <tag>.
        Class selector defines with ".".
       .appin{.....}
        Grouping of selectors is done when we want to apply same style to different elements.
        For example: h1,h2,h3,h4,h5,h6
{
color:red;
}
        Combining selectors is done so that we can hierarchically point to a specific element within
        the page.
        For example: p.main
{
font-size: 26px;
}
The above rule applies to only those "paragraphs" which have a class "main"
```

Combination of selectors can also use descendant technique.

In CSS, *descendant* means an element that is a child, grandchild, great grandchild, and so on,of another element.

Descendant selectors apply style based on whether one element contains another.

```
ра
{
font-weight: bold; color: red;
}
The above rule applies to all the anchors which are placed within the  tag.
         HTML (content) and CSS (presentation) can be linked in three ways:
               Inline: the CSS rules in the style attribute
                       No selectors are needed
               Embedded(Internal): Inside the <head> using <style> tag
               External: CSS rules in separate file (best)
                       Usually a file with .css extension
                       Linked via <link rel="stylesheet" href=...> tag
              Color
               body{color:red;}
               h1{color:#00FF00;}
            Align
 h1{text-align:left/right/center/justify;}
           Decoration
h1{text-decoration:overline/line-through/underline;}
           > Transformation
 h1{text-transform:uppercase/lowercase/capitalize;}
            Indentation
        p{text-indent:146px;}
Color
               body{background-color:red;}
```

h1(background-color:#00FF00;}

```
Image
 background-image:url('File.ext');
       background-attachment:fixed;
Repeat
  background-repeat:repeat/no-repeat;
Shorthand implementation
  body{background:#FFFFFF url('File.ext') no-repeat right top;}
           > Family
               p{font-family:Arial,helventika,Sans-Serif;}
           > Style
 h1{font-style:normal/italic/oblique;}
           Size
 h1{font-size:40px /1em;}
           > weight
h1{font-weight:bold/100 to 900/normal;}
           Shorthand
h1{font:italic small-caps bold 15px georgia;}
The border-color specifies the color of a border.
                       By name
                       by #Code
              The border-style specifies whether a border should be solid, dashed line, double
               line, or one of the other possible values.
                      dotted /dashed /solid /double /groove /ridge /inset /outset /none
                       /hidden
           The border-width specifies the width of a border.

✓ thin/ thick / medium

                      In pixels
```

Shorthand

h1{ border:1px solid red;}

border-collapse: collapse;

Border:

Variants of Border

- border-bottom-style
- border-top-style
- border-left-style
- border-right-style
- border-bottom-color
- border-top-color
- border-left-color
- border-right-color
- border-bottom-width
- border-top-width
- border-left-width
- ❖ border-right-width

h1{border-top: 1px solid red;}

Links:

we will discuss Pseudo-Classes of CSS.

- The :link signifies unvisited hyperlinks.
- The :visited signifies visited hyperlinks.
- The :hover signifies an element that currently has the user's mouse pointer hovering over it.
- The :active signifies an element on which the user is currently clicking.

<style>

a:link {color: #000000}

a:visited {color: #006600}

a:hover {color: #FFCC00}

```
</style>
```

Margin:

The margin properties are used to generate space around elements.

The margin properties set the size of the white space outside the border.

margin-top

margin-right

margin-bottom

margin-left

All the margin properties can have the following values:

- ☐ auto the browser calculates the margin
- ☐ *length* specifies a margin in px, pt, cm, etc.
- □ % specifies a margin in % of the width of the containing element
- ☐ inherit specifies that the margin should be inherited from the parent element

If the margin property has four values:

margin: 25px 50px 75px 100px;

top margin is 25px

right margin is 50px

bottom margin is 75px

left margin is 100px

If the margin property has three values:

margin: 25px 50px 75px;

top margin is 25px

right and left margins are 50px

bottom margin is 75px

If the margin property has two values:

margin: 25px 50px;

top and bottom margins are 25px

right and left margins are 50px

If the margin property has one value:

margin: 25px;

all four margins are 25px

auto Value

You can set the margin property to auto to horizontally center the element within its container.

```
div {
    width: 300px;
    margin: auto;
    border: 1px solid red;
}
<div>
This div will be centered because it has margin: auto;

</div>
```

Padding:

Example:

The *padding* property allows you to specify how much space should appear between the content of an element and its border.

- The padding-bottom specifies the bottom padding of an element.
- The padding-top specifies the top padding of an element.
- The padding-left specifies the left padding of an element.
- The padding-right specifies the right padding of an element.
- The padding serves as shorthand for the preceding properties.

```
div {
  border: 1px solid black;
  background-color: lightblue;
}
div.appin {
  padding: 25px 50px 75px 100px;
}
```

<div class="appin">Appin tech lab bhopal</div>

Float:

Float:-the float property specifies whether or not a box (an element) should float.

Left

Right

