Front End Development-CSS TechBuzz

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What is CSS

- CSS stands for Cascading Style Sheets
- If HTML is the structure of the house then CSS is the look and feel of the house
- It's the language to make our web pages presentable
- Designed to make style sheets for web
- Now let's try to break the acronym:

Cascading: Falling of Styles

Style: Adding designs/Styling our HTML tags

Sheets: Writing our style in different documents



History

- 1994 : First Proposed by Hakon Wium Lie on 10th October
- 1996: CSS was published on 17th November with influencer Bert Bos
- Later he became co-author of CSS
- 1996 : CSS became official with CSS was published in December
- 1997 : Created CSS level 2 on 4th November
- 1998: Published on 12th May



CSS Editors

- Atom
- Brackets
- Espresso(Mac user)
- Notepad++(Great for HTML & CSS)
- Komodo Edit (Simple)
- Sublime Text

Basic Structure

- Selector: selects the element you want to target
- There are few basic selectors like tags, id's, and classes
- All forms this key value pair
- Keys: properties(attributes) like color, font-size, background, width, height, etc.
- Value : values associated with these properties
- Always remains same whether we apply internal or external styling

Comments

- Comments don't render on the browser
- Helps to understand our code better and makes it readable.
- Helps to debugging our code
- Two ways to comment:
 - Single line
 - Multiple line



Different ways to Write CSS

- There are 3 ways to write Css in our HTML file.
 - Inline Css
 - Internal Css
 - External Css
- Priority order
 - Inline > Internal > External



Inline CSS

- Before Css this was the only way to apply styles
- Not an efficient way to write as it has lot a redundancy.
- Self contained
- Uniquely applied on each element
- Idea of separation of concerns was lost.
- Example:

```
<h3 style=" color:red"> Have a great day </h3>
```

I did this , I did that

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Internal CSS

- With the help of style tag we can apply styles within the HTML file
- Redundancy is removed
- But idea of separation of concerns still lost
- Uniquely applied on single document

External CSS

- With the help of k > tag in head tag we can apply styles
- Reference is added
- File saved with .css extension
- Redundancy is removed
- Idea of separation of concerns is maintained
- Uniquely applied on each document
- Example:
 link rel="stylesheet" type="text/css" href="">
 h1{
 color:red; //.css file

CSS Selectors

Selector are used target elements and apply Css



Element Selector

Used to select HTML elements by its name

```
    How we do it
    h1
        {
                  Color: red;
              }
```

We selected the heading tag and then changed the color property i.e text color to red. Now whatever is written in this tag (content) will have the text color as red

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ID Selector

- Id attribute is used to select HTML element
- Used to target specific or unique element

We selected id and then changed the color property i.e text color to red. Now whatever is written in this tag (content) will have the text color as red

Class Selector

- Class attribute is used to select HTML element
- Used to target specific class of element

We selected class and then changed the color property i.e text color to red. Now whatever is written in this tag (content) will have the text color as red

Universal Selector

- Wild card character
- Used to target specific all the elements
- How we do it

```
*
{
    Color: red;
}
<h1> Hi </h1>
 Bye
```

We selected all the elements then change the color property i.e text color to red. Now whatever is written in all the tags (content) will have the text color as red

Group Selector

- Group selector minimizes code
- Used to target specific group of elements

```
    How we do it
        h1,p {
             color: red;
        }
        <h1> Hi </h1>
         Bye
```

We selected these elements and then changed the color property i.e text color to red. Now whatever is written in these tags (content) will have the text color as red

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Descendant Combinator Selector

- Combine two or more selectors
- How we do it

We selected class inside id then changed the color property i.e text color to red. Now whatever is written (content) will have the text color as red



Child Combinator Selector

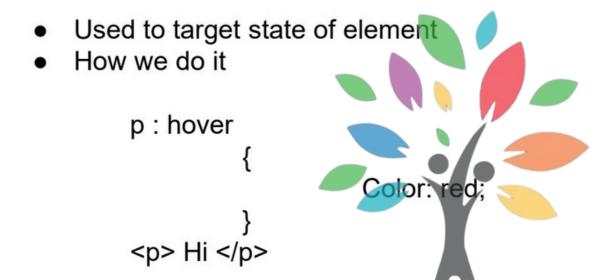
- Combine two or more selectors like Descendant
- It only targets immediate child.
- How we do it

```
<div id="out">
<div class="in">Hi </div>
</div>
```

We selected class inside id then changed the color property i.e text color to red. Now whatever is written (content) will have the text color as red



Pseudo-class Selector



We selected element and then changed the color property i.e text color to red. Now whatever is written in this tag (content) will have the text color as red

CSS Color

- There are different colouring schemes in CSS
- 2 widely used techniques are as follows
 - RGB
 - This starts with rgb and takes 3 parameter
 - 3 parameter basically corresponds to red, green and blue
 - Value of each parameter may vary from 0 to 255.
 - Eg: rgb(255,0,0); means color red

HEX

- Hex code starts with # and comprises of 6 numbers which is further divided into 3 sets
- Sets basically corresponds to Red, Green and Blue A single set value can vary from 00 to ff

CSS Background

- There are different ways by which CSS can have effect on HTML elements
- Few of them are as follows
 - Color used to set the color of the background
 - Repeat used to determine if image has to repeat or not and if it is repeating then how it should do that
 - Image used to set image as the background
 - Position used to determine the position of the image
 - Attachment It basically helps in controlling the mechanism of scrolling

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CSS Background Demo

```
html{
    background: #ff9900;
p{
    background: url("https://encrypted-
tbn0.gstatic.com/images?q=tbn%3AANd9GcRT8t-o6oUJ-
E9YRhimOvTU2TSH7vlBnRWBN554 rX30dZah466&usqp=CAU");
    background-position: left;
    background-repeat: no-repeat;
    background-attachment: fixed
ι
```

CSS Border

- Helps in setting up the border for HTML elements
- There are 4 properties that can help in setting up of border:
 - Width sets the width of the border
 - Style sets the style of border; Eg: solid, dashed etc.
 - Color sets the color of the border
 - Radius determines the roundness of the border
- You can set the border for specifically top, right, bottom and left
- We can also club top and bottom together and same goes for left and right
 - Eg: border-width: 2px 5px; sets top and bottom 2px; left and right 5px
- Border can also be set in a single line
 - Eg: border : 2px solid blue: Buzz

CSS Border Example

```
p{
    border-style: solid;
    border-color: blue;
    border-width: 2px 5px;
    border-radius: 10%:
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```

Box Model

- Every element in CSS can be represented using BOX model
- It helps developer to develop and manipulate the elements
- It consist of 4 edges
 - Content edge It comprises of the actual content
 - Padding edge It lies in between content and border edge
 - Border edge Padding is followed by the border edge
 - Margin edge It is outside border and controls margin of the element
- Example:

```
#styled{
```

border: 2px solid blue;

margin: 5px;

padding: 20px; hBuzz

Conclusion

- Introduction to CSS
- CSS Basic Structure
- Different ways to write CSS
- CSS Selectors
- Color Property
- Background Property
- Border Property
- Box Model



Thank You