



In the past
Siemens as a flash developer
IBM as a flex developer

At present trainer and consultant



The Cascading Style Sheets is a language that's used to write formatting instructions how webpage content should 'look'— in terms of: Layout & style





- 1 Apple 140
- 2 Mango 80
- 3 Grapes 78



1	Apple	140
2	Mango	80
3	Grapes	78



SI No	Product	Price
1	Apple	140
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The benefits of CSS

- Separation of content and presentation
 - CSS provided in a file that is separate to the (content)
 HTML. can more easily be updated.



- Smaller webpage file sizes
 - I personally have seen reduction up to 50%.



- Improved webpage download speed
 - Since it is small it will download faster
 - Can be cached for re use
 - Save bandwidth
 - Improve rendering speed



- Streamlined maintenance
 - Reduction in errors
 - Easy up gradation



- Different devices different presentations
 - For web
 - For print
 - For mobile etc...



- Table-less layout
 - Tables were meant to display data, and not to make a layout
 - Longer download times, uses more bandwidth
 - Table causes accessibility issues

Some XHTML tags that can format

- address Allows you to mark up addresses
- dl Indicates a definition list (especially for term/definition pairs)
- dt Indicates a definition term within a definition list
- dd Indicates the definition of a term within a definition list
- blockquote Indicates extended quotes
- q Indicates inline quotes
- label Labels form elements
- th Marks headers of columns and rows within a table
- thead Marks table headers
- tfoot Marks table footers
- fieldset Groups form elements
- button Creates form buttons
- cite Specifies citations or references to other sources
- samp Indicates sample output of scripts, programs, etc.
- kbd Indicates text to be entered by the user
- abbr Specifies abbreviated forms or words or phrases
- acronym Indicates acronyms



Inline Style

<h1 style="font-family: Arial">Welcome!</h1>

Where can a CSS be..?

```
Embedded Style
<style type="text/css" >
h1 {
font-family: Arial;
</style>
<h1>Welcome!</h1>
```



Linked Style

k rel="stylesheet" href="style.css" />

Where can a CSS be..?

Imported Styles

<style type="text/css">

@import "style.css"; or @import url ("style.css")

</style>

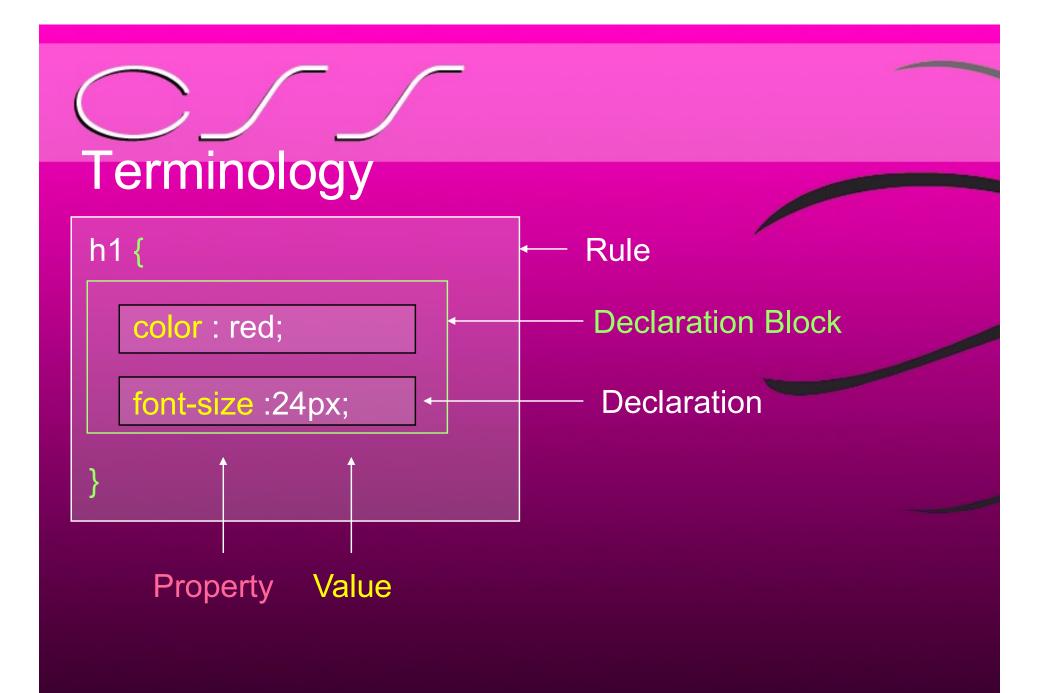
The import needs to the be the first declaration if there is any embedded style declared in the file...

Few vocabulary as we move on ..

- Cascade
 - Multiple sheets and types of sheets can be used.
- Inheritance
 - Style Inheritance relies on the document tree.
- Specificity
 - The style starts applying from generic to specific

Code Anatomy

```
Selector {
Property: Value;
e.g.
color: #ff0000;
```





Element Selectors	Dynamic Pseudo Class Selectors
Class Selectors	Lang Pseudo Class Selectors
ID Selectors	Child Selectors
Descendant Selectors	Adjacent Sibling Selector
Pseudo Class Selectors	General Sibling Selector
Pseudo Element Selectors	Attribute Selectors
Selector Groups	Universal Selector

Element Selectors body { h1 { p { ul {

Class Selector

```
.small { }
```

Welcome to your life there's no
turning back

ID Selector

```
#selection{
}
```

<div id="selection">
This is a division on my page
</div>

Must be unique in the document

Descendant Selectors

```
p em {
}
```

```
 this is my <em>paragraph </em>
```

Pseudo class selectors

```
a:link {
}
a:hover {
}
```

You can also make a combination of class and pseudo selection if an anchor tag has a class main then for the link property....

a.main:link

Pseudo element selector

:first-line - Applies style to the first line in a element

:first-letter- Applies style to the first line in a given element

:before- Applies style before a given element

:after- Applies style after a given element

h1:after { content: "header note" }

p:after {content: url(paramark.gif);}

given



```
h1, h2, h3 {
font-family: Arial;
}
```



:focus -Applies the style when focused

:active -Applies style when element is clicked

:hover -Applies the style only when the mouse hovers over the selected element

Language Pseudo Class Selectors

Note: The support for this feature is currently limited

Child Selectors

```
div:first-child{
<body>
  <div> Hello every one
      <em>Good Afternoon</em>
  </ div >
</body >
```

First Child Selectors

```
p:first-child{
}
```

Any rule you write for this selector will be applied to the first paragraph child of every tag.

Note: The support for this feature is currently limited

Adjacent Sibling Selectors

```
th+td {
}
```

As a table can contain both th and td in the same level they are siblings within the same table tag...

General Sibling Selectors

```
ul~p {
}
```

Any p that comes after the ul as a sibling

Attribute Selectors

input[type="submit"] {
}

<input type="submit" />

Other flavors available

[att] = Apply the style to a given attribute, no matter the value [att=val] = Apply the style to a given attribute with a specific value [att~=val] = Apply style to any attributes with space-separated specified values

- e.g. (class="val" and class="important val" and class="val high",
- but not class="my-val" or class="value")
- as they don't match val (should not have any alphabets before or after it)





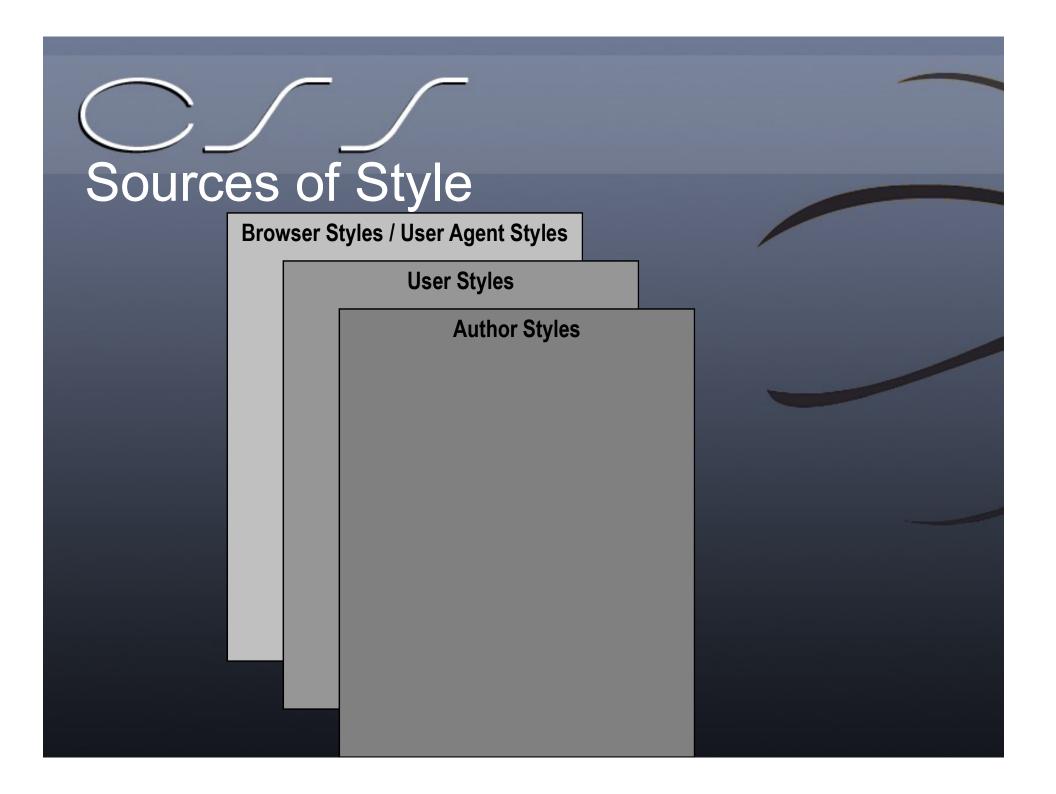
Child and adjacent sibling selectors

Child and adjacent sibling selectors

#nav > li {font-weight: bold;}

```
Home
Services
>ul>
Design
Development
Consultancy

Contact Us
```



Specificity

- Style=""
- #id #id {}
- #id .class {}
- tag #id {}
- #id {}
- tag.class .class {}
- tag.class{}
- tag tag {}
- tag {}

- 1,0,0,0
- 0,2,0,0
- 0,1,1,0
- 0,1,0,1
- 0,1,0,0
- 0,0,2,1
- 0,0,1,1
- 0,0,0,2
- 0,0,0,1

- 1000
- 200
- 110
- 101
- 100
- 21
- 11
- 2
- 1



In the order of importance

- User styles flagged as !important
- Author styles flagged as !important
- Author styles
- User styles
- Styles applied by the browser/user agent



A Block level element

Used to create a block with nested elements

Idea is to group the nested elements and to be able to refer with a name or an id



Just like div span creates an inline element

That can be addressed to



color:red

color:#rrggbb

color:rgb(rrr,ggg,bbb)

color:rgb(rrr%,ggg%,bbb%)

color:inherit

color:#f00

color keyword

color in hex notation

values from 0-255

values in percentage

color of the parent tag

will also be treated as hex



border-width: thin

border-width: medium

border-width: thick

Note: thin, thick, medium sizes are provided by browser

border-width: 5px

border-width: 1em

border-top-width: 1px

border-bottom-width: 1px

border-right-width: 1px

border-left-width: 1px



Same as color property

border-style property

border-style: none

border-style: double

border-style: hidden

border-style: dashed

border-style: dotted

border-style: ridge

border-style: solid

border-style: groove

border-style: inset

border-style: outset

border-color property

none

solid

double

groove: A three-dimensional effect that gives the impression that the border is carved into the canvas.

hidden : same as none but works when applied to tables

inset

dashed

outset

dotted

Ridge: a 3D effect that has the opposite effect of groove

Border properties shorthand

border: <width> <style> <color>

Eg; border:thick groove #F00;



margin-top
margin-right
margin-bottom
margin-left
Shorthand
margin:<top> <right> <bottom> <left>

margins can also accept negatives

padding

padding-top

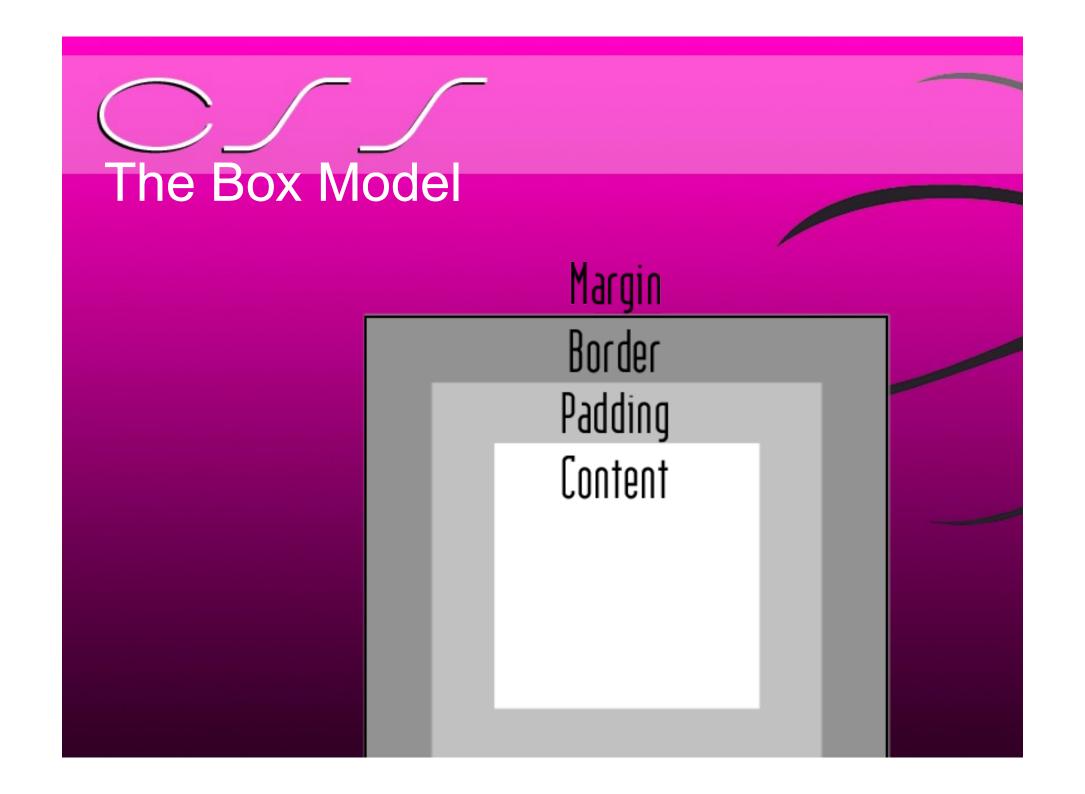
padding-right

padding-bottom

padding-left

Shorthand

padding:<top> <right> <bottom> <left>





position: static

position: relative

position: absolute

position: fixed

position: inherit

the default place

takes a position relative to the container

takes user defined position from a relative parent

takes a position irrespective of container

takes position property from parent



Arranges the element

float: left

float: right

float: none

float: inherit



Clears the block contents

clear: none

clear: left

clear: right

clear: both

clear: inherit



background:url()

background:#rrggbb



background-image:url("")
background-image:none
background-image:inherit



background-repeat:repeat background-repeat:repeat-x background-repeat:repeat-y background-repeat:no-repeat background-repeat:inherit



background-attachment:scroll background-attachment:fixed background-attachment:inherit



background-position:<x> <y>
background-position:top
background-position:bottom
background-position:left
background-position:center
background-position:right

Font Families





Font Size

font-size:12pt

font-size:12pt

font-size:medium

font-size:small

font-size:normal

font-size:larger

font-size:50%



text-indent: <length>

text-indent: <percentage> by containing block



text-align:left
text-align:right
text-align:center
text-align:justify



- text-decoration:none
- text-decoration:underline
- text-decoration:overline
- text-decoration:line-through
- text-decoration:sub
- text-decoration:super
- text-decoration:blink



<link rel="stylesheet" type="text/css" href="print.css" media="print" />
<link rel="stylesheet" type="text/css" href="screen.css" media="screen" />
<link rel="stylesheet" type="text/css" href="projection.css" media="projection" />

all: Users for all devices

aural : Used for speech and sound synthesizersbraille : Used for Braille tactile feedback devices

embossed : Used for Braille printers

handheld: Used for handheld or small devices like PDAs and smartphones

print : Used for printers and print preview

projection : Used for projected presentations

screen: Used for color monitors

tty: Used for teletypes, terminals, and portable devices with limited characters

tv: Used for television and WebTV

Display common properties

- Block elements, such as paragraphs, headings, and lists, sit one above another when displayed in the browser.
- Inline elements such as a, span, and img, sit side by side when they are displayed in the browser and only appear on a new line if there is insufficient room on the previous one.