



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





# Why?

- 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
2	Mango	80
3	Grapes	78

- 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



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>
```

#### Where can a CSS be..?

Linked Style

k type="text/css" 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...

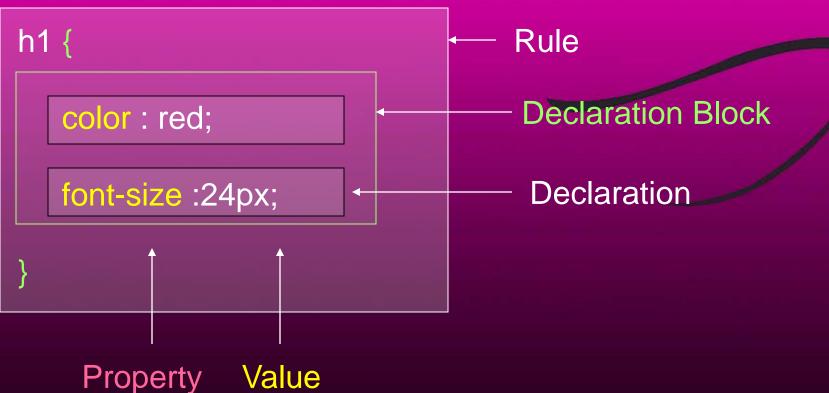
# Few vocabulary as we move on ..

- 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



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





# Selectors

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

```
 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

# Selector Groups

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



# Dynamic Pseudo Class Selectors

:focus -Applies the style when focused

:active - Applies style when element is clicked

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

mouse

# Language Pseudo Class Selectors

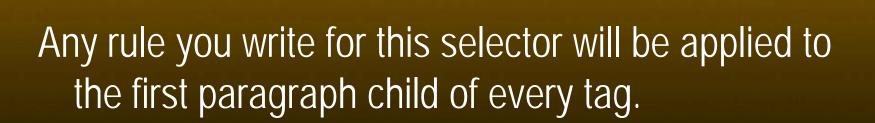
```
p:lang(es) {
}
 some Spanish text
```

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{
}



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**

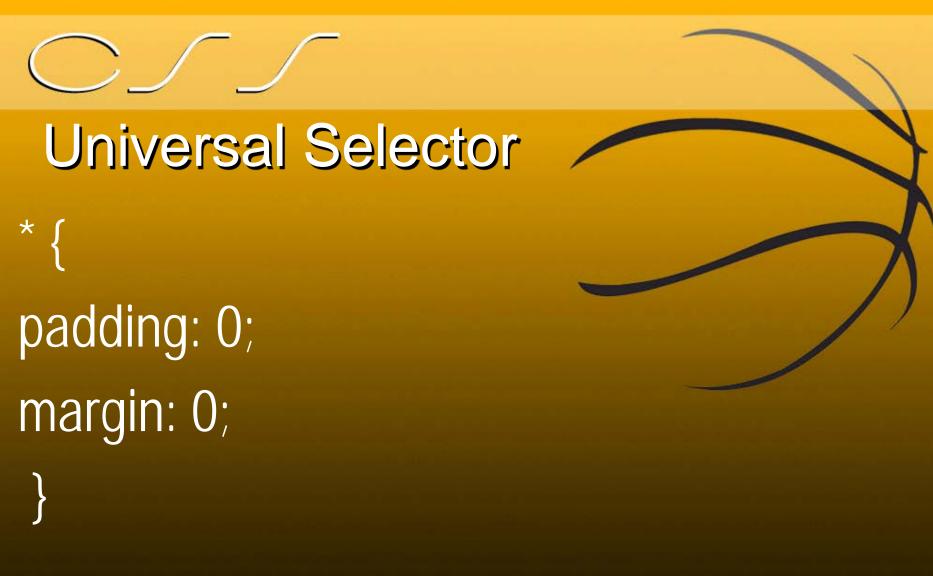
```
input[type="submit"] {
}
```

<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)





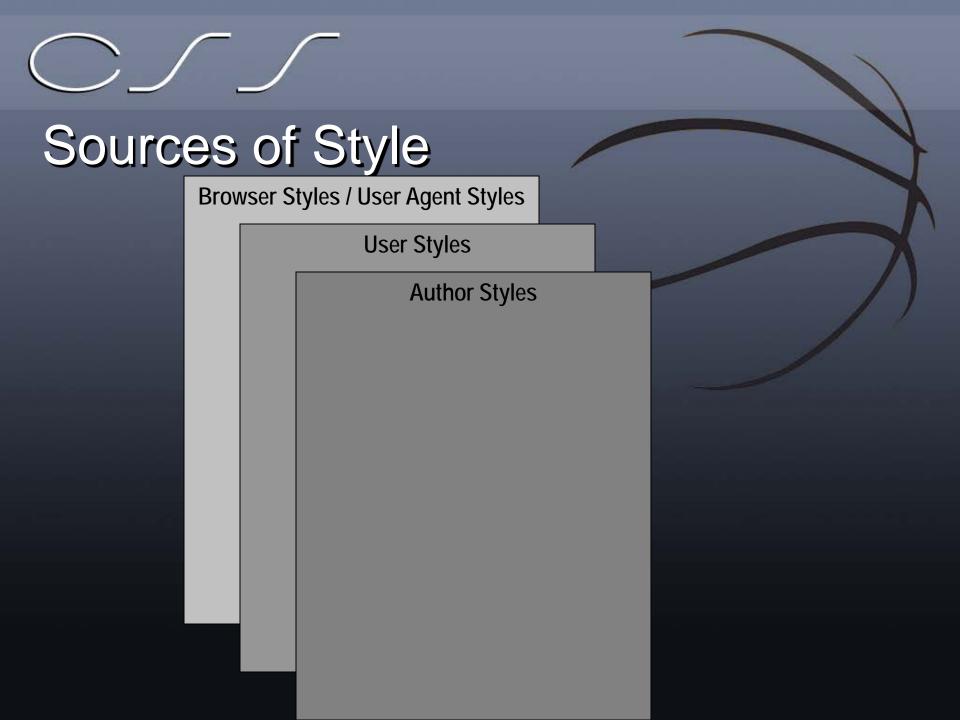
#### **Advanced Selectors**

Child and adjacent sibling selectors

#### Child and adjacent sibling selectors

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

```
ul id="nav">
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 {}

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# Specificity

#### 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 property

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 property

border-width: thin

border-width: medium

border-width: thick

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

border-width: 5px

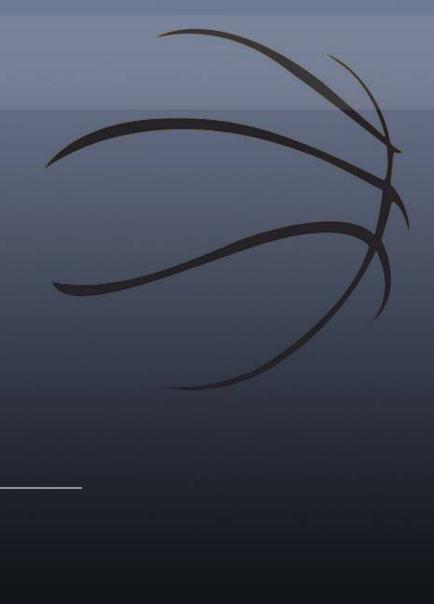
border-width: 1em

border-top-width: 1px

border-bottom-width: 1px

border-right-width: 1px

border-left-width: 1px





#### border-color property

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;

#### margins

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

margins can also accept negatives

#### padding

padding-top

padding-right

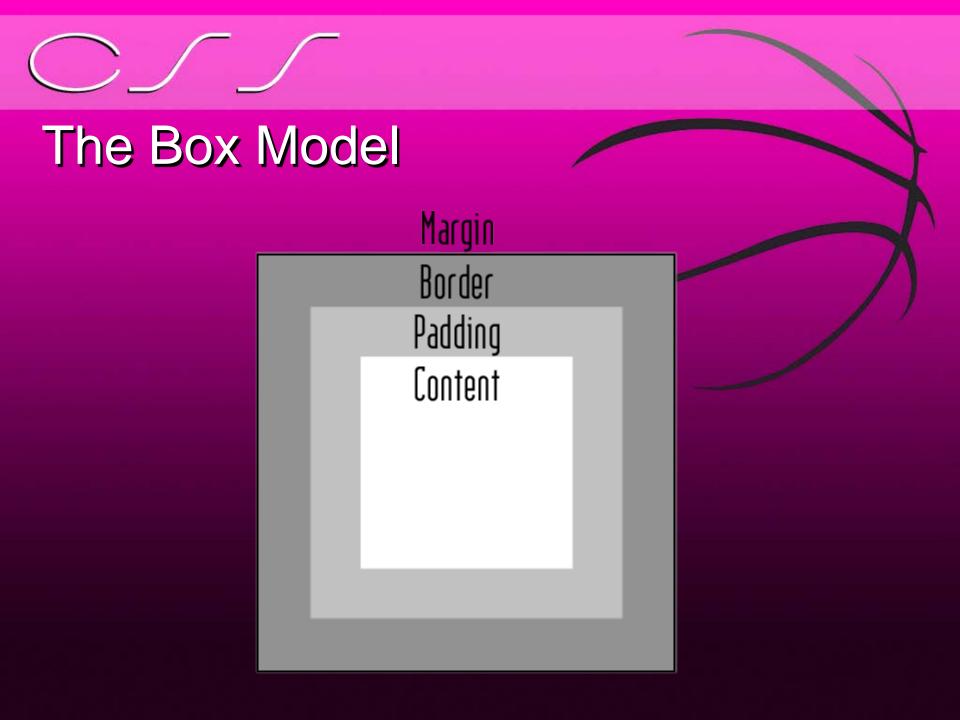
padding-bottom

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



#### **Float**

Arranges the element

float: left

float: right

float: none

float: inherit





#### Clear

Clears the block contents

clear: none

clear: left

clear: right

clear: both

clear: inherit





# Background

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**

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



# Font Families





# Font Styles









#### Font Size

font-size:12pt

font-size:12pt

font-size:medium

font-size:small

font-size:normal

font-size:larger

font-size:50%





#### Text indenting

text-indent: <length>

text-indent: <percentage> by containing block



## **Aligning Text**

text-align:left

text-align:right

text-align:center

text-align:justify



#### **Text Decoration**

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



#### Types of media

<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 synthesizers **braille**: 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.