Chapter 3

		Caso	eading St	tyle Sheets			
Parel In	ntroduction	and Levels	of style sh	eets			
July 18	CSS sta	nds for "Cascad					
fl-exibility.	Cascadi			rmat the layout of v			
code Rendent	☐ CSS hel		ers to create	uniform look acros	s several pages on		
easy maneji	websites		anciente def	ina aamman lavaut	across the names		
Global change	CSS is s			ine common layout , including the desig		tions in	
facepires flixibility code Rendens easy mange blobal change time saving	display	for different dev			sn, rayour and rana		
cary mailine	There are t	hree levels of s	tyle sheets:				
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linelessel	level of styl  1. Inline	e sheet .)	bod DZi	style = whomat	0000FF > well	me 2/1	7
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external Superior to him multi dincie c w Secompitability	n/ 🗀 i	s fine-grain st	yle, which	defeats the purpos	e of style sheets	<b>i</b>	
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, ,	·	pply to the who	le documen	t in which they appe	ar Estylety	polex	1055)
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	3. Externa	I style sheets			7 ball	cound-co	lir gan
	$\Box$ c	an be applied to	any numbe	r of documents	font	513c:2011	K. J.
1-m	□ a	re in separate fi	ies, potentia	ny on any server on	the Internet	, ,,,	13
m-m		se a /r <pre>link rel = "style</pre>	sheet" type	owser fetch and use = "text/css" href = 1	an external style sl	neet file	2
		he file should n	ot contain a	ny html tags.		()	
				aved with a .css ex	tension.	1 dir>no	lora
	Note: So	, an inline style	has the high	nest priority, and wi	ll override externa	land Lio	lir
	internal s	tyles and brows	ser defaults.		21	ir> hisp.	lut Ils
CS	S Syntax					U) MSM	Prof Cong
	☐ A CSS rt	le-set consists of	of a selector	and a declaration b	olock:		
• 1	Selector	Declar	ation	Declaration	on		
, `		4	1981 P.S. B. B. B.				
		(Branifata)	Halifat		0-15250003		
		<b>†</b>		<b>↑</b>	1		
		Property	Value	Property	Value		( IN )

☐ The selector points to the HTML element you want to style.

	the semicolons.	
	☐ The declaration block contains one or more declarations separated by semicolons. ☐ Each declaration includes a CSS property name and a value, separated by a colon ☐ A CSS declaration always ends with a semicolon, and declaration blocks are	
	<ul> <li>□ A CSS declaration always clies with a semice of surrounded by curly braces.</li> <li>□ In the above example all <h1> elements will be of font color blue, with font size</h1></li> </ul>	
	In the above example all \(\text{II}\) elements \(\text{III}\) = 12px.	
	Example:	
	html <html></html>	
	<head> //internal level css</head>	
	<style> body {</td><td></td></tr><tr><td></td><td>background-color: linen;</td><td></td></tr><tr><td></td><td>h1 {</td><td></td></tr><tr><td></td><td>margin-left: 40px;</td><td></td></tr><tr><td>4</td><td><pre> </style> //External level css    Local park (Same path  (Sam	
	//External level css	
	<pre><li><li>k rel="stylesheet" type="text/css" href="style.css"&gt;</li></li></pre>	13
		3/
	 body>	>
1	<h1>This is a heading</h1> This is a paragraph.	.1
	<	
	/*style.css*/ /*This is an external file named style.css*/	
	h1{ font-size: 25px;}	
	Note:	
	Do not add a space between the property value and the unit (such as margin-left:	
	25 px; ). The correct way is: margin-left: 25px;	
	CSS Selectors	
	CSS selectors are used to "find" (or select) HTML elements based on their	
	element name, id, class, attribute, and more.	
	Types of selectors: Offag selector	
Ulcord>	1. The element selectors	
Ehrlistupe = He	The element selector selects elements based on the element name.	
Jan	The simplest selector form is a single element name, such as $h1$ .	
Hend> Style=type="te, this color: ood	DOFF; \( \) The property values in the rule apply to all occurrences of the named element.	
7	☐ The selector could be a list of element names separated by commas	
2 body	withsame	
Hed > 260/3 260/3 2h1 > welone 2h1 > welone	(h) you cannot deelend some selectr name	36
the wellow	Carl	

comma and Its internal property will be the same front! 2. Class selectors The class selector selects elements with a specific class attribute colors oo AFO To select elements with a specific class, write a period (.) character, followed by the name of the class. Class selectors are used to allow different occurrence of the same tag to use different style specifications. must not be doublicate 3. Id selectors The id selector uses the id attribute of an HTML element to select a specific element. The id of an element should be unique within a page, so the id selector is used to select one unique element! To select an element with a specific id, write a hash (#) character, followed by the id of the element. dublicate Universal selector CSS Universal selector selects any type of elements in HTML page. CSS Universal selector is defined by using asterisk (i.e. \*). CSS Universal selector is also followed by selector. Universal selector is useful to style all elements in HTML pages or used to style all elements with in element. 5. Pseudo Classes Sometime we need to apply style when something happen, rather than because the target element simply exists, i.e. specify by pseudo classes. Example: /\* Single \* is used to set up for all body elements \*/ color: blue; /\*defines blue color for all font\*/ background-color: green; /\*define green background color \*/ font-size: 20px; /\*defines font size for all font\*/ /\*Following use of asterisk is used to style all elements of div element\*/ div \*{ color: yellow; /\*define yellow color to all fonts with in div elements\*/ font-size: 30px; /\*define font size to all fonts with in div elements\*/ Box Model All HTML elements can be considered as boxes. In CSS, the term "box model" is used when talking about design and layout. The CSS box model is essentially a box that wraps around every HTML element. It consists of: margins, borders, padding, and the actual content. The image below illustrates the box model:

Margin	
Border	
Padding	
Content	

Explanation of the different parts:

paddig: 10 px; colors white; weidth : 38 px; hight: 20 ps; text-celismo: cu	Content - The content of the box, where text and images appear  Padding - Clears an area around the content. The padding is transparent  Border - A border that goes around the padding and content  Margin - Clears an area outside the border. The margin is transparent.  The box model allows us to add a border around elements, and to define space between elements.  CSS Margin:  The CSS margin properties are used to create space around elements,
bady nud-astor	The CSS margin properties are used to create space around elements, outside of any defined borders.  CSS has properties for specifying the margin for each side of an element.  margin-top  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
	Example: If the margin property has four values:
	margin: 25px 50px 75px 100px;

	right margin is 50px bottom margin is 75px left margin is 100px	
marş	margin property has three values:  gin: 25px 50px 75px;  top margin is 25px  right and left margins are 50px  bottom margin is 75px	
	margin property has two values:  gin: 25px 50px;  top and bottom margins are 25px  right and left margins are 50px	
	margin property has one value: gin: 25px; all four margins are 25px	
Note:	width took up first and then remain left and right margin from centre of	ue is set to margin property, specified ing space will be split equally between container.
D</td <td>ample:  OCTYPE html&gt; ml&gt; ad&gt; vle&gt; div {  border: 1px solid red; margin-left: 100px; }  p.demo {  margin-left: inherit; } div.demo1 {  width:300px; margin: auto; border: 1px solid red;</td> <td>This div nill horsent entre Use of the inheritable Let the lest This payre believe</td>	ample:  OCTYPE html> ml> ad> vle> div {  border: 1px solid red; margin-left: 100px; }  p.demo {  margin-left: inherit; } div.demo1 {  width:300px; margin: auto; border: 1px solid red;	This div nill horsent entre Use of the inheritable Let the lest This payre believe
<td>yle&gt; ead&gt; dy&gt;  You can set margin horizontal</td> <td></td>	yle> ead> dy>  You can set margin horizontal	

<div class="demo1">

		This div will be horizontally ce	ntered because it has	margin: auto;
			. Š	
"a " i " X	<h2>Us</h2>	se of the inherit value	v	×
	8.0	Let the left margin be inhe	erited from the parent	element:
	<div></div>		(·	
		<pre>This paragra</pre>	aph has an inherited le	ft margin (from the div
	7.10	element).		
			•	
2			y *	
	CCC D	. **		
	CSS Pac			
		CSS padding generates spa defined border.	ice around the elem	nents content, inside of
g	□ CSS	has properties for specifying	ng the padding for	each side of an element.
4		padding-top		
		<b>U</b> 1 9:		
10		padding-right		
		padding-bottom		
	** F	oadding-left		
	All the p	padding properties can have	e the following valu	ues:
	auto	- the browser calculates the	e margin	
ang ing the con-		th - specifies a padding in p		
		specifies a padding in % of t		aining element
		rit - specifies that the paddi		
22	elem		ing official de limiter.	red from the parent
F	Example:		3. ~	
43.	, , , , , , , , , , , , , , , , , , ,		in	
I	f the padding	g property has four values:		
144			Ę	K b L
		5px 50px 75px 100px;		
		padding is 25px		
	27.00	padding is 50px		
	□ botto	om padding is 75px		
1 16-1	□ left p	padding is 100px		
			ihe	
lf	the padding	g property has three values:	; <b>t</b>	
	padding: 25	5px 50px 75px;		
	□ top p	oadding is 25px		
		and left paddings are 50px		
85		om padding is 75px		
		1 0 · · p··		
If	the padding	g property has two values:		
	padding: 25	5px 50px;		
		nd bottom paddings are 25	рх	

## trinth-childleven) { badynd-estor is # 3

□ right and left paddings are 50px

If the padding property has one value:

padding: 25px;

all four paddings are 25px

## Note:

- The width property specifies the width of the element's content area. The content area is the portion inside the padding, border, and margin of an element.
- So, if an element has a specified width, the padding added to that element will be added to the total width of the element.

## **CSS Border**

☐ The CSS border properties allow you to specify the style, width, and color of an element's border.

Some border related properties are given below:

- **↓ border-style** specify what kind of border to display (values are(dotted, dashed, solid, double, groove, ridge, inset, outset, none, hidden). Also can have one to four value(border-top-style, border-right-style, border-bottom-style, border-left-style).
- **★ border-width** specify width of the four borders.
- border this property is used as shorthand property of border-width, border-style and horder-color.

## Example:

border-radius & 10Px;

R

9

the bordy-dor

p.four{

ps width: 200pp hist: 12 ppi bords: 1px soud red; overflow: auto, overflow: seroll

white: overflow-x, } scrollbars nisible hidden border: 1px dashed blue; </style></head> <body> <h2>The border-color Property</h2> A solid red border A solid green rounded border A solid multicolor border This is shorthand property: </body> </html> **CSS** Visibility Visibility property effect on the appearance of an element. Visibility property specifies whether or not an element visible. ☐ When you use value hidden, the hidden element take space on the page. ☐ Visibility property values are visible – default value, element is visible ➡ hidden – the element is hidden but still take space collapse – only used in table . collapse the borders ↓ inherit – specify that a property should inherit its value from its parent initial – sets this property to its default value Example: <!DOCTYPE html> <html> <head> <style> h2.a { visibility: visible; h2.b { visibility: hidden; The is is is if proposts. This heady is visible </style> </head> <body> <h1>The visibility Property</h1> <h2 class="a">This heading is visible</h2> <h2 class="b">This heading is hidden</h2> Notice that the hidden heading still takes up space on the page. </body> </html> **CSS Display** The display property is an important property that is used for controlling layout. The display property specifies if/how an element is displayed. As you saw that every HTML element has a default display value depending on what types of element it is.

The default display value for most elements is either block or inline.

A block-level element always starts on a new line and takes up the full width available( eg: <div>, <h1>....<h6>, <header>, <footer>, and <section> ☐ An inline element does not start on a new line and only takes up as much width as necessary(eg:  $\langle span \rangle$ ,  $\langle img \rangle$ , and  $\langle a \rangle$ ). Some values of display property are as follows: display: inline – is used to display in inline format. **display**: block – is used to display in block format. height 100 VL Backgrounds

The CSS backgrounds are specified for background effects on elements.

The CSS background ☐ The CSS background properties are: The CSS background properties are:

background-color - specifies background color of an element.

background-image - specifies background image of an element(background-image: url("karnali.jpg"). Note - if necessary give path.

background-attachment - property sets whether a background image scrolls with the rest of the page, or is fixed. (Values are: scroll, fixed, inherit, initial Co look & Whid local) background-position - sets the starting position of a background image. (Values are: left top, left center, left bottom, right top, right center, \* right bottom, center top, center bottom, and center center) backgroundrepeat - sets if/how a background image will be repeated. (Values are: no-\* repeat, repeat-y, repeat-x, space, and round) background-size - specifies the size of the background images. (Values are: auto, cover, contain, length, percentage, initial, and inherit) background-origin - specifies the origin position (the background positioning area) of a background image.(Values are: padding-box, contentbox, border-box, inherit and initial) background-clip - defines how far the background (color or image) should extend within an element. (Values are: padding-box, content-box, borderbox, inherit and initial) background-blend-mode - defines the blending mode of each background layer (color and/or image). (Values are: normal, multiply, screen, overlay, darken, lighten, color-dodge, saturation, color, luminosity:) Example: <!DOCTYPE html> <html> <head> <style>

#myDIV {

				l("bas2.jpg"), url("karna	li.jpg");	
		· Y	background-blend-mo	de. lighten,		
		/ 				
	45				Rex	
	*	<body></body>				2
		,	<div id="mvDIV"><th><b>'&gt;</b></th><th></th><th>· #</th></div>	<b>'&gt;</b>		· #
			<b>Note:</b> Edg mode property.	e/Internet Explorer do n	not support the ba	ackground-blend-
					*	
			*		•	
	CSS Cole					
ack	ground-color; rejis		ecified using predefi	ned color names, or	RGB, HEX, H	SL, RGBA,
colo	ry tred; To	u can add (	color to text, border	and background.	:	
and	ere 200 c Ted ned	re are diff	erent method to assi	gn colors. Which are	e given below:	
# c	255, 99,71, 0	the inter HEX Va the form values by HSL Va lightness on the c Saturation full color dark, 10 RGBA alpha ch is specifi	nsity of the color betalue - In HTML, a contribute a contribute and the color wheel from 0 on is a percentage value. Lightness is also a 0% is white.  RGBA color value annel - which specified with: rgba (really annel).	ween 0 and 255. blor can be specified (red), gg (green) and a decimal 0-255). color can be specified bolor can be specified to 360. 0 is red, 120 alue, 0% means a shape percentage, 0% is best are an extension of the green, blue, alpha	using a hexade and bb (blue) are and using hue, so and using hue, so all the solution of RGB color vocolor. An RGB a) The alpha p	ecimal value in the hexadecimal atturation, and the is a degree of 240 is blue. In the light or the light or the light and the light and the light are arameter is a second to be a second to light or the light or the light and the light are light are light as a second to light and light are light are light are light are light are light as a second to light and light are light are light as light as light are light as l
	shsla(9,100%,64)			ansparent) and 1.0 (in HSL color values was lor.		
	CSS Tex	t Proper	ties	5.	/	ž .
			ned to set color for t	ext.		
	□ tex	t-decoratio		remove decorations	from text.(Va	ues are:
	_ tex			al text alignment.(Va	alues are: left, o	center, right

	text-transform – is used to specify uppercase and lowercase letters in							
	text.(Values are: uppercase, lowercase and capitalize)							
	text-indent – is used to specify indentation of the first line of a text.							
	line-height – is used to define space between lines.							
	<b>direction</b> – is used to change the text direction of an element. (Value is <i>rtl</i> i.e. right to left)							
	word-spacing – is used to specify the space between the words in a text.							
	text-shadow – add shadow to text.							
	and state it to text.							
	Example:							
	'PE html>							
<html></html>								
<head></head>								
<style></td><td>.changeColor{ color: green; } text-transform: upper</td></tr><tr><td></td><td>.changeColor{</td></tr><tr><td></td><td>color: green;</td></tr><tr><td></td><td>text-panapoint : con</td></tr><tr><td></td><td>nou</td></tr><tr><td></td><td>text-align: center;</td></tr><tr><td></td><td>) usf</td></tr><tr><td></td><td>a{</td></tr><tr><td></td><td>text-decoration: none; /*remove decoration to text*/</td></tr><tr><td></td><td>.uppercase{</td></tr><tr><td></td><td>text-transform: uppercase;</td></tr><tr><td></td><td>}</td></tr><tr><td></td><td>.txtIndent{</td></tr><tr><td></td><td>text-indent: 50px;</td></tr><tr><td></td><td>1</td></tr><tr><td></td><td>h2 { morel-spacing & SPX;</td></tr><tr><td></td><td>h2 { word-spacing: 7px; /*Also can use -ve number.*/</td></tr><tr><td></td><td>}</td></tr><tr><td>1.5</td><td>.txtShadow{</td></tr><tr><td></td><td>text-shadow: 3px 2px red;</td></tr><tr><td></td><td></td></tr><tr><td></style>								
	·							
<body></body>	<h1 class="changeColor">This is heading 1</h1>							
	<h1 class="changeColor">This is heading 1</h1>							
· (4	<pre><h1 class="txtAlignment">You can align as you like</h1></pre>							
	<pre>You Can use other Transform.</pre>							
	<pre> It start text line after 50px indentation. <h2>This is heading 2</h2></pre>							
	<h1 class="txtShadow">Text-shadow effect</h1>							
	<n1 class="txtShadow">Text-shadow effect Text in the Sheedow</n1>							
	rest with shedow							
CSS n	nax-width property							
	The max-width is used to set the maximum width of an element.							
	ordinent.							

	of the conta	dth can be specified in <i>lengt</i> aining block, or set to non width).	e (this is de	fault. Means of	id. iii	(%) s no
Γ	The max-wi	dth property handle the bro	wser if the co	ntent of elemen	t is larger	
-	then browse	r				
	Example:					
	<html></html>					
	<head></head>		¥3			
	<style></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>div {</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>max-width: 5</td><td>00px:</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>height: 100px;</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>background-color: powderblu</td><td>e;</td><td></td><td></td><td></td></tr><tr><td></td><td>}</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></style>					
	<body></body>				-	
	<h2>Set the m</h2>	ax-width of an element	set-	the mayo		
	<div></div>					
	Resize the	prowser window to see the effect	t.		1	
			~			
		5.0	K	es se		
CSS	Layout - T	he position Property				
	11-5		10		791 0 0	
		type of positioning method	used for an e	element (static,	relative,	
	- fixed, absolu	te or sticky).		*		
	position stat	<i>ic</i> – this is default value.				
	position rela	tive – relative to its normal	position.			
	•	d – is positioned relative to		which means i	t always of	toxia
		lace even if the page is scre		, winch means i	t always si	lays
Ц		<i>lute</i> – is positioned relative			cestor	
	(instead of po	sitioned relative to the vie	wport, like fix	xed).		
	position stick	y – is positioned based on	the user's scr	oll position .A	sticky eler	nent
	toggles between	en relative and fixed, dep	ending on the	e scroll position		
	Example:					
	html</td <td>5</td> <td></td> <td></td> <td></td> <td></td>	5				
	<html></html>					
	<head></head>			1		
	<style></td><td></td><td></td><td>40.4</td><td></td><td></td></tr><tr><td></td><td>div.shift{</td><td></td><td></td><td></td><td></td><td>MAC O</td></tr><tr><td></td><td>div.siiii(į</td><td>top: 100px;</td><td></td><td>11:</td><td>J 1</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>( 14512 W</td><td>971</td><td></td></tr><tr><td></td><td>1</td><td>padding-top: 25px;</td><td></td><td>Been</td><td>Hu 1-2</td><td>clay</td></tr><tr><td></td><td>div.relative {</td><td></td><td></td><td></td><td></td><td>9</td></tr><tr><td></td><td>div.relative {</td><td></td><td></td><td>position.</td><td>21-1</td><td>1-</td></tr><tr><td></td><td></td><td>position: relative;</td><td></td><td>local tor</td><td>· ·</td><td>بر</td></tr><tr><td></td><td></td><td>width: 400px;</td><td></td><td>1th el</td><td>_t</td><td></td></tr><tr><td></td><td></td><td>height: 200px;</td><td></td><td>M.</td><td></td><td></td></tr><tr><td></td><td>1</td><td>border: 3px solid #73AD21;</td><td></td><td>1.002</td><td></td><td></td></tr><tr><td></td><td>div.absolute {</td><td></td><td></td><td>1</td><td></td><td>1</td></tr><tr><td></td><td>alv.ausolute (</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>R. W.</td><td></td><td>1 140</td><td>del</td></tr><tr><td></td><td></td><td>. V</td><td></td><td>1</td><td>1</td><td>  </td></tr><tr><td></td><td></td><td>-2-4</td><td></td><td></td><td></td><td>,</td></tr></tbody></table></style>					

```
List
                                                  uis ust-stole-type: squa
                                                 015, 4st -style -tspen
<img src="bas2.jpg" width="300" height="140">
Secause the image has a z-index of -1, it will be placed behind the text. <div</p>
An element with position: absolute; is positioned relative to the nearest positioned
ancestor (instead of positioned relative to the viewport, like fixed):
<div class="relative">This div element has position: relative;
```

Note: Do yourself remaining properties, including *div* and *span*.

<div class="absolute">This div element has position: absolute;</div>

position: absolute:

position: absolute:

left: Opx; top: Opx; z-index: -1;

<h1>This is a heading</h1>

class="shift"><h2>position: absolute;</h2>

border: 3px solid #73AD21;

top: 80px; right: Opx; width: 200px; height: 100px;

img {

</style> </head> <body>

</div> </div> </body> </html>

```
Font
font family is used to change the face of font
fort style is used to make four ifalicor oblique
fout variant is used to create as mall eaps effects
fort size is used to set the size of fext
fort weight is yallt set the weight of fout.
 goode pout stole use It link its USI
```

# Fouts fout-faily & Notable, sans sent; Link lahref = "dens.ph unkunsifed hypeslink Cont-variant; small-cups; visted! visited approlate fact-513e1 2 em (1em = 2PX) nover ! user mania printed over font-style: italy; a: linu & what : red; } a : visited & wor : graps for everyt word; (100-900)