

SNS COLLEGE OF TECHNOLOGY

Coimbatore-35 An Autonomous Institution

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DEPARTMENT OF INFORMATION TECHNOLOGY

AI IN WEB TECHNOLOGY

III YEAR - VI SEM

UNIT 2 – CSS AND CLIENT-SIDE SCRIPTING

TOPIC 1 – Introduction – Features and Style Rules









- HTML markup can be used to represent
 - Semantics: h1 means that an element is a top-level heading
 - Presentation: h1 elements look at a certain way
- It's advisable to separate semantics from presentation because:
 - It's easier to present documents on multiple platforms (browser, cell phone, spoken, ...)
 - It's easier to generate documents with consistent look
 - Semantic and presentation changes can be made independently of one another (division of labor)
 - User control of presentation is facilitated



Style Sheet Languages



- Cascading Style Sheets (CSS)
 - Applies to (X)HTML as well as XML documents in general
- Extensible Stylesheet Language (XSL)
 - Often used to transform one XML document to another form, but can also add style
 - XSL Transformations covered in later chapter





A styled HTML document



produced by the style sheet style1.css:

body { background-color:lime }

p { font-size:x-large; background-color:yellow }



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```
<!DOCTYPE html
          PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
          "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
  <html xmlns="http://www.w3.org/1999/xhtml">
    <head>
      <title>
        CSSHelloWorld.html
                             link element associates style sheet with doc.
      </title>
     <link rel="stylesheet" type="text/css" href="style1.css"</pre>
             title="Style 1" />
      <link rel="alternate stylesheet" type="text/css" href="style2.css"</pre>
             title="Style 2" />
    </head>
    <body>
      Hello World!
      </body>
  </html>
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                                                              5
```





```
<!DOCTYPE html
          PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
          "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
  <html xmlns="http://www.w3.org/1999/xhtml">
    <head>
      <title>
        CSSHelloWorld.html
                             type attribute specifies style language used
      </title>
      k rel="stylesheet" type="text/css" href="style1.css"
            title="Style 1" />
      <link rel="alternate stylesheet" type="text/css" href="style2.css"</pre>
            title="Style 2" />
    </head>
    <body>
      Hello World!
      </body>
  </html>
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                                                              6
C/AIML/SNSCT
```





```
<!DOCTYPE html
           PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
           "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
  <html xmlns="http://www.w3.org/1999/xhtml">
    <head>
      <title>
        CSSHelloWorld.html
                              href attribute provides style sheet URL
      </title>
      <link rel="stylesheet" type="text/css" (href="style1.css")</pre>
             title="Style 1" />
      <link rel="alternate stylesheet" type="text/css" href="style2.css"</pre>
             title="Style 2" />
    </head>
    <body>
      Hello World!
      </body>
  </html>
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```



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```
<!DOCTYPE html
          PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
          "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
  <html xmlns="http://www.w3.org/1999/xhtml">
    <head>
      <title>
        CSSHelloWorld.html
                             title attribute provides style sheet name
      </title>
      <link rel="stylesheet"_type="text/css" href="style1.css"</pre>
           title="Style 1" />
      k rel="alternate stylesheet" type="text/css" href="style2.css"
            title="Style 2" />
    </head>
    <body>
      Hello World!
      </body>
  </html>
CSS AND CLIENT-SIDE SCRIPTING / AI IN WEB TECHNOLOGY/ Parkavi
                                                             8
```





```
<!DOCTYPE html
           PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
           "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
  <html xmlns="http://www.w3.org/1999/xhtml">
    <head>
      <title>
        CSSHelloWorld.html
      </title>
      <link rel="stylesheet" type="text/css" href="style1.css"</pre>
             title="Style 1" />
      <link rel="alternate stylesheet">type="text/css" href="style2.css"
             title="Style 2" />
                                   Alternative, user selectable style sheets
    </head>
                                   can be specified
    <body>
      Hello World!
      </body>
  </html>
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                                                               9
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```





🧱 CSSHelloWorld.html - Mozilla File Edit Bookmarks Tools Window Help View Go Show/Hide Full Screen F11 Hello Esc. Stop. <u>R</u>eload Ctrl+R Text <u>Z</u>oom (100 %) <u>U</u>se Style Basic Page Style Character Coding Style 1 Ctrl+U Page Source Style 2 Ctrl+I Page Info Apply Theme





A styled HTML document



produced by the style sheet style2.css:

p { font-size:smaller; letter-spacing:1em }



Note that alternate, user selectable style is not widely supported: firefox 3 and IE 8 do, but IE 6, IE 7 and Chrome don't.





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This document will be printed differently than it is displayed.

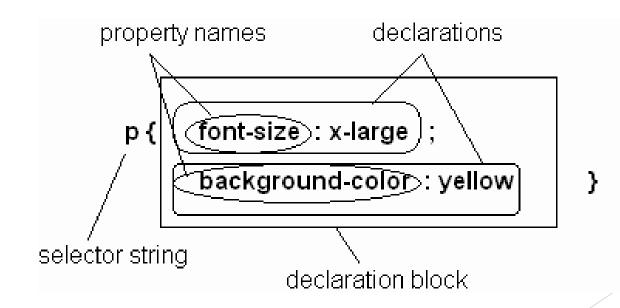
<link rel="stylesheet" type="text/cs2" href="style1.css"
 media="screen, tv, projection" />
<link rel="stylesheet" type="text/css" href="style2.css"
 media="handheld, print" />















- Single element type:
 - p { font-size:smaller; letter-spacing:1em }
- Multiple element types:

h1,h2,h3,h4,h5,h6 { background-color:purple }

- All element types:
 - * { font-weight:bold }







📕 Selectors.html - Mozilla

Selector Tests

Paragraph with id="P1" and class="takeNote".

Second paragraph. This span belongs to classes takeNote, special, and cool.

Span's within this list are in SMALL-CAP style.
 1. This item
 spaces
 letters.

Third paragraph (id=''p3'') contains a <u>hyperlink</u>.

 This item contains a span but does not display it in small caps, nor does it space letters.

Third paragraph (id="p3")

Third paragraph (id="p3") contains



Elements belonging to a style class:

Elements of a certain type and class

span.special { font-size:x-large }





Elements belonging to a style class:

Elements of a certain type and class:

this span belongs to three style classes

span.special { font-size:x-large }





Elements belonging to a style class:

#p4, .takeNote { font-style:italic } ולבובובווכוווא מ זנעוב נומזז ווו ווואיב.

Elements of a certain type and class

span.special { font-size:x-large }

this rule applies only to span's belonging to class special





Source anchor elements:

a:link { color:black }
a:visited { color:yellow }
a:hover { color:green }
a:active { color:red } ;:
pseudo-classes

ul ol li { letter-spacing:1em }





Source anchor elements:

a:link { color:black }
a:visited { color:yellow }
a:hover { color:green }
E a:active { color:red }

ul ol li { letter-spacing:1em }
 rule applies to li element that is





Source anchor elements:

a:link { color:black }
a:visited { color:yellow }
a:hover { color:green }
F a:active { color:red }

ul ol li { letter-spacing:1em } rule applies to li element that is part of the content of an ol element CSS AND CLIENT-SIDE SCRIPTING / AI IN WEB TECHNOLOGY / Parkavi

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Source anchor elements:

a:link { color:black }
a:visited { color:yellow }
a:hover { color:green }
E a:active { color:red };

ul ol li { letter-spacing:1em } rule applies to li element that is part of the content of an ol element CAIML/SNSCT CAINCALLY PARTY OF THE CONTENT of a ul element 23









- Style rules covered thus far follow ruleset syntax
- At-rule is a second type of rule
 - Reads style rules from specified URL
 - Must appear at beginning of style sheet URL relative to style sheet URL @import url("general-rules.css");



Style Sheets and HTML

- Style sheets referenced by link HTML element are called external style sheets
- Style sheets can be embedded directly in HTML document using style element

```
<head>
  <title>InternalStyleSheet.html</title>
  <style type="text/css">
    h1, h2 { background-color:aqua }
  </style>
</head>
```

Most HTML elements have style attribute (value is list of style declarations)





Style Sheets and HTML

- Rules of thumb:
 - Use external style sheets to define site-wide style
 - Prefer style sheets (either external or embedded) to style attributes
 - XML special characters
 - Must use references in embedded style sheets and style attribute
 - Must not use references in external style sheets



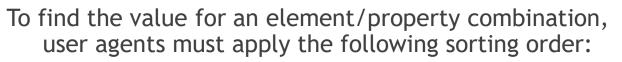


What if more than one style declaration applies to a property of an element?

* { font-weight:bold }
The (... font-weight:normal }
decl; #p3 { font-weight:normal }







 Find all declarations that apply to the element and property in question, for the target <u>media type</u>.
 Declarations apply if the associated selector <u>matches</u> the element in question.





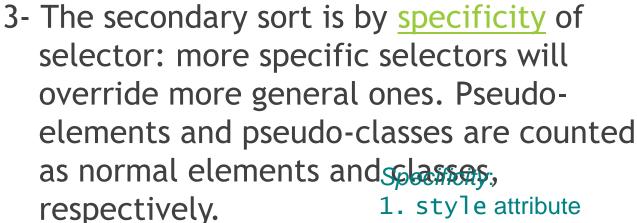
2- The primary sort of the declarations is by weight and origin: for normal declarations, author style sheets override user style sheets which override the default style sheet. For "!important" declarations, user style sheets override author style sheets which override the default style sheet. "!important" declaration override normal declarations. An imported style sheet has 5. user agent/normal the same origin as the style sheet that imported it.



Five origin/weight levels:

- 1. user/important
- 2. author/important
- 3. author/normal
- 4. user/normal





- 2. rule with selector:
 - 1. ID
 - 2. class/pseudo-class
 - 3. descendant/element type
 - 4. universal
- 3. HTML attribute



4- Finally, sort by order specified: if two rules have the same weight, origin and specificity, the latter specified wins.
Rules in imported style sheets are considered to be before any rules in the style sheet itself.

Conceptually, create one long style sheet. Later style rules have higher priority than earlier rules.





- What if no style declaration applies to a property of an element?
- Generally, the property value is inherited from the nearest ancestor element that has a value for the property
- If no ancestor has a value (or the property does not inherit) then CSS defines an initial value that is used







body { font-weight:bold }
li { font-style:italic }
p { font-size:larger }
span { font-weight:normal }

List item outside and inside a span.

🧮 Inherit.html - Mozilla

Embedded paragraph outside and inside a span.

<body>

<1i>

List item outside and inside a span.

Embedded paragraph outside and inside a span.

▶ :::::::::::







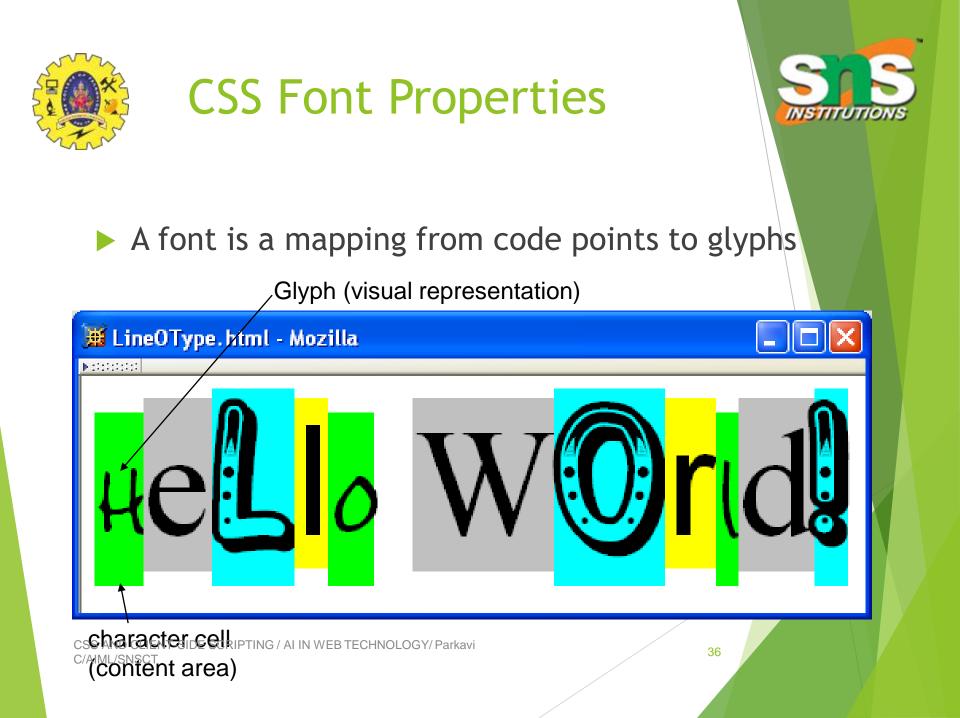
Property values:

- Specified: value contained in declaration
 - Absolute: value can be determined without reference to context (e.g., 2cm)
 - Relative: value depends on context (e.g., larger)
- Computed: absolute representation of relative value (e.g., larger might be 1.2 x parent font size)
- Actual: value actually used by browser (e.g., computed value might be rounded)





- Most properties inherit computed value
 - Exception discussed later: line-height
- A little thought can usually tell you whether a property inherits or not
 - Example: height does not inherit



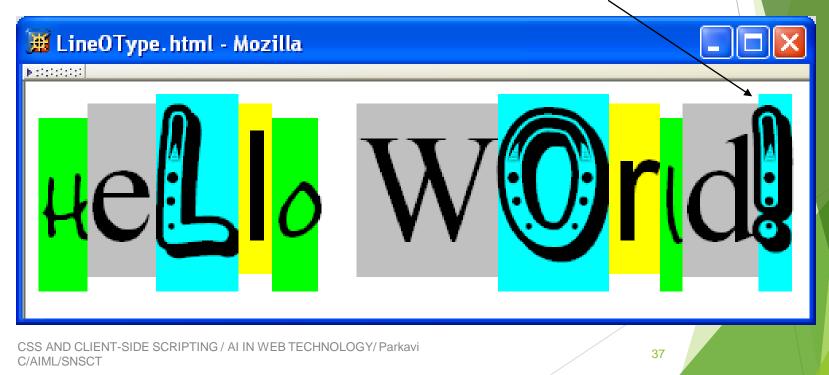




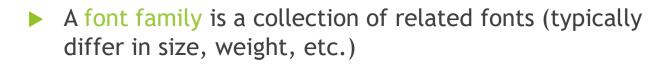


A font is a mapping from code points to glyphs

glyphs do not necessary stay inside cells!





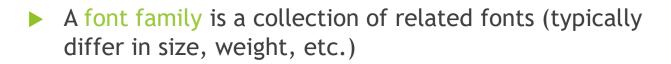


font family property can accout a list of families,
p style="font-family:'Jenkins v2.0'">***

font-family: "Edwardian Script ITC", "French Script MT", cursive

first choice font





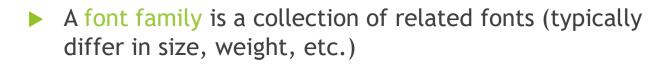
font family property can accout a list of families,
p style="font-family:'Jenkins v2.0'">***

font-family:"Edwardian Script ITC", "French Script MT", cursive

second choice font

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font family property cap accort a list of families, " including generic rone rainties

font-family:"Edwardian Script ITC", "French Script MT", cursive)



generic

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Preferences

Category Fonts Appearance -Fonts Fonts for: Western ¥ Colors Themes Typeface Size (pixels) --Languages/Content Proportional: Serif ¥ 16 v Navigator generic History Serif: Times New Roman Languages fonts are Sans-serif: Arial V Helper Applications system-Smart Browsing Cursive: Comic Sans MS specific Internet Search Fantasy: Alba ¥ Tabbed Browsing Downloads Monospace: Courier New ¥ 13 ¥ Minimum font size: None v Privacy & Security Allow documents to use other fonts. 🗄 ChatZilla Advanced Display resolution: 96 dpi ~ Offline & Disk Space CSS AND CLIENT-SIDE SCRIPTING / AI IN WEB TECHNOLOGY / Parkavi OK Cancel Help 41 C/AIML/SNSCT





Note that most generic font can be easily set on Firefox and Chrome, but such option doesn't seem to be available on IE 7 and 8. IE will still default to something although maybe not what you had hoped for!

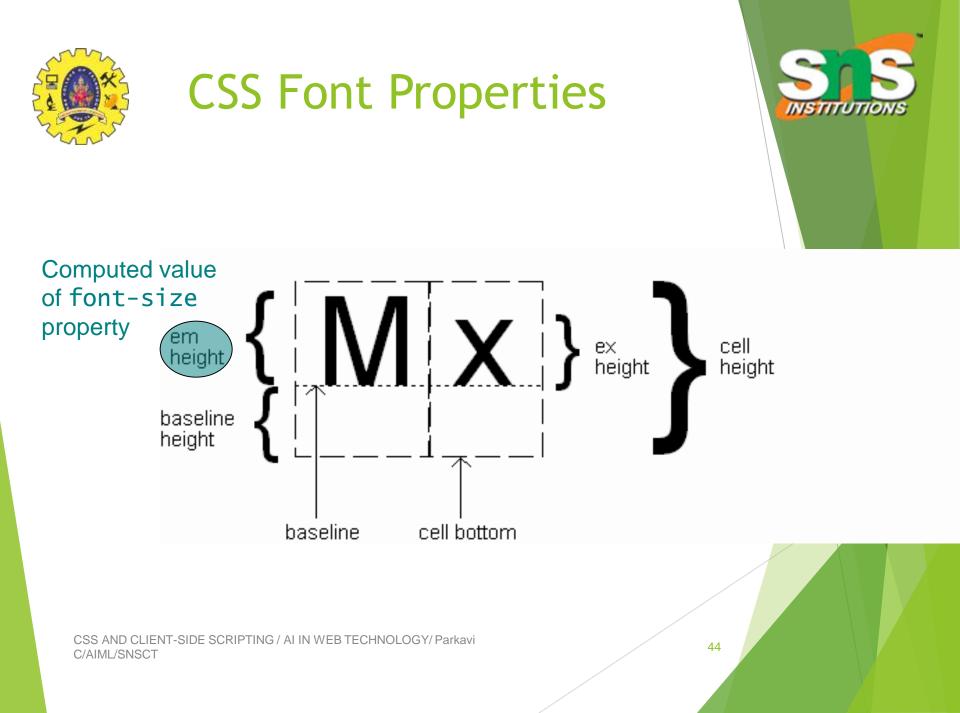




- Many properties, such as font-size, have a value that is a CSS length
- All CSS length values except 0 need units

TABLE 3.4: CSS length unit identifiers.

	Identifier	Meaning
	in	inches
	cm	centimeters
1	mm	millimeters
1	pt	points: 1/72-inch
	рс	picas: 12 points
1	рх	pixel: typically 1/96-inch (see text).
	em	1em is roughly the height of a capital letter in the reference
		font (see text).
CSS AND CLIER	NT-SIDE SCRIPTIN(ex	1ex is roughly the height of the lowercase 'x' character in
		the reference font (see text).







Reference font defines em and ex units

- Normally, reference font is the font of the element being styled
- Exception: Using em/ex to specify value for font-size

<div id="d1" style="font-size:12pt">
 <div id="d2" style="font-size:2em">

parent element's font is reference font





- Other ways to specify value for font-size:
 - Percentage (of parent font-size)
 - Absolute size keyword: xx-small, x-small, small, mcdium (initial value), large, x font-size:85%
 - User agent specific; should differ by ~ 20%
 - Relative size keyword: smaller, larger
 - Relative to parent element's font



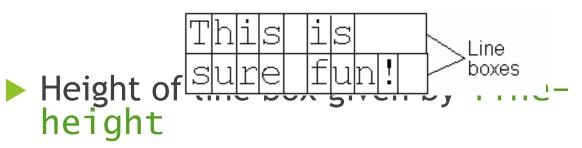


TABLE 3.5: Additional font style properties.

Property	Possible values				
font-style	normal (initial value), italic (more cursive than normal),				
	or oblique (more slanted than normal).				
font-weight	bold or normal (initial value) are standard values, al-				
	though other values can be used with font families having				
	multiple gradations of boldness (see CSS2 [W3C-CSS-2.0]				
	for details).				
font-variant	small-caps, which displays lowercase characters using up-				
	percase glyphs (small uppercase glyphs if possible), or				
	normal (initial value)				



Text is rendered using line boxes

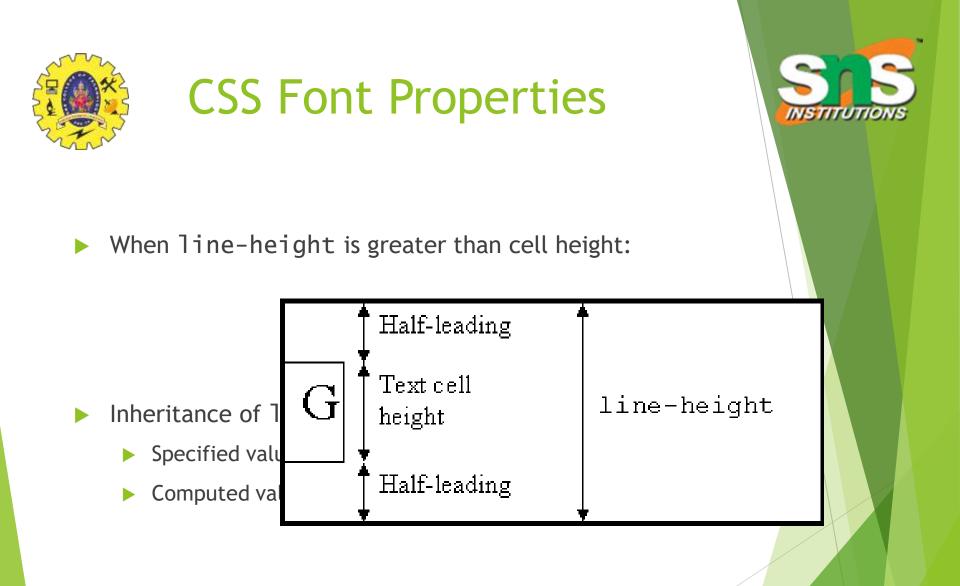


- Initial value: normal (i.e., cell height; relationship with em height is fontspecific)
- Other values (following are equivalent): line-height:1.5em

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font shortcut property:





font shortcut property:

size and family required, order-dependent



CSS Text Formatting



TABLE 3.6: Primary CSS text properties.

	TABLE 3.6: Frimary CSS text properties.						
	Property	Values					
	text-decoration	none (initial value), underline, overline, line-through,					
		or space-separated list of values other than none .					
	letter-spacing	normal (initial value) or a length representing additional					
		space to be included between adjacent letters in words.					
		Negative value indicates space to be removed.					
	word-spacing	normal (initial value) or a length representing additional					
		space to be included between adjacent words. Negative					
		value indicates space to be removed.					
	text-transform	none (initial value), capitalize (capitalizes first letter of					
		each word), uppercase (converts all text to uppercase					
		lowercase (converts all text to lowercase).					
	text-indent	length (initial value 0) or percentage of box width, possi-					
		bly negative. Specify for block elements and table cells to					
		indent text within first line box.					
	text-align	left (initial value for left-to-right contexts), right,					
		center, or justified. Specify for block elements and					
		table cells.					
	white-space	normal (initial value), pre. Use to indicate whether or not					
CSS AND C/AIML/SI	CLIENT-SIDE SCRIPTING / AI IN	wentechnologyshould be retained. 53					



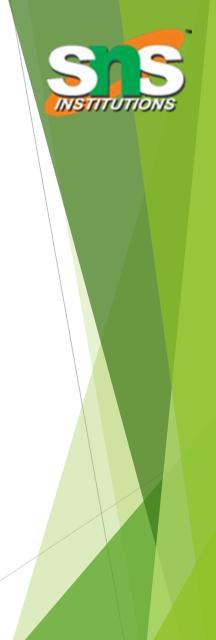
CSS Text Color



- Two primary ways of specifying colors:
 - Color name: black, gray, silver, white, red, lime, blue, yellow, aqua, fuchsia, maroon, green, navy, olive, teal, purple, full list at <u>http://www.w3.org/TR/SVG11/types.html#ColorKeywords</u>

red/green/blue (RGB) values







CSS Text Color



Edit Colors	? 🔀
<u>B</u> asic colors:	
<u>C</u> ustom colors:	
	Hu <u>e</u> : [156] <u>R</u> ed: 84
	<u>Sat:</u> 142 <u>Green:</u> 97
Define Custom Colors >>	$\frac{\underline{S}at}{\underline{L}um} = 139$
	Add to Custom Colors



CSS Text Color



TABLE 3.7: Alternative formats for specifying numeric color values.

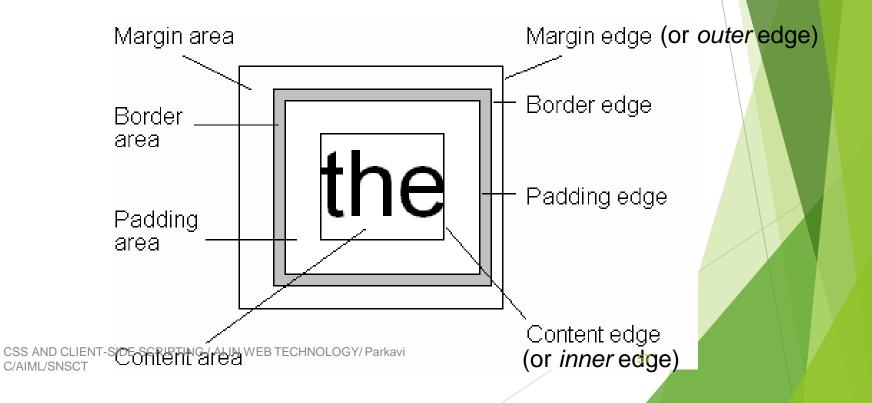
Format	Example	Meaning
Functional, integer argu-	rgb(255,170,0)	Use arguments as RGB
ments		values.
Functional, percentage	rgb(100%,66.7%,0%)	Multiply arguments by
arguments		255 and round to obtain
		RGB values (at most one
		decimal place allowed in
		arguments).
Hexadecimal	#ffaa00	The first pair of hexadec-
		imal digits represents the
		red intensity, second and
		third represent green and
		blue, respectively.
Abbreviated hexadeci-	#fa0	Duplicate the first hex-
mal		adecimal digit to obtain
		red intensity, duplicate
		second and third to ob-
		tain green and blue, re-
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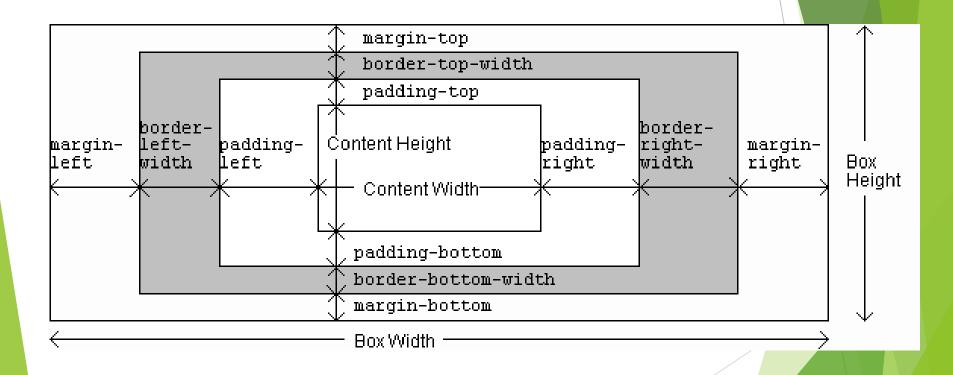


• Every rendered element occupies a box:





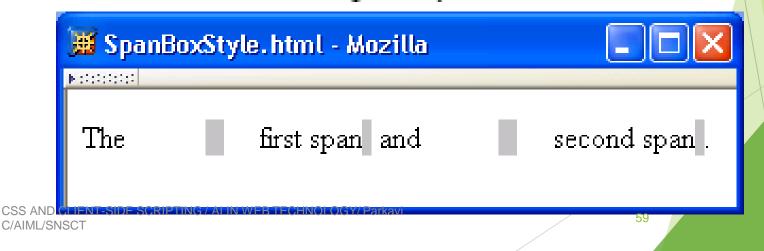




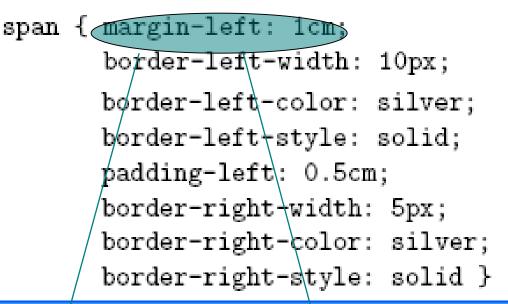


span { margin-left: 1cm; border-left-width: 10px; border-left-color: silver; border-left-style: solid; padding-left: 0.5cm; border-right-width: 5px; border-right-color: silver; border-right-style: solid }















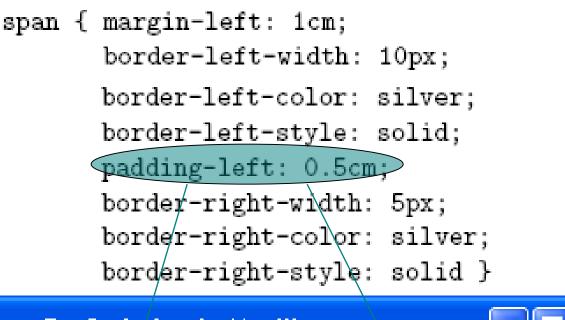








TABLE 3.9: Basic CSS style properties associated with the box model.

Property	Values
padding-{top,right,bottom,left}	CSS length (Sec. 3.6.2).
padding	One to four length values (see text).

TABLE 3.10: Meaning of values for certain shorthand properties that take one to four values.

Number of values	Meaning
One	Assign this value to all four associated properties (top,
	right, bottom, and left).
Two	Assign first value to associated top and bottom proper-
	ties, second value to associated right and left prop-
	erties.
Three	Assign first value to associated top property, second
	value to right and left, and third value to bottom.
Four	Assign first value to associated top property, second
	to right, third to bottom, and fourth to left.





TABLE 3.9: Basic CSS style properties associated with the box model.

border-{top,right,bottom,left}-width	thin, medium (initial value), thick,			
	or a length.			
border-width	One to four border-*-width values.			
border-{top,right,bottom,left}-color	Color value. Initial value is value of			
	element's color property.			
border-color	transparent or one to four			
	border-*-color values.			





TABLE 3.9: Basic CSS style properties associated with the box model.

border-{top,right,bottom,left}-style	none (initial value), hidden, dotted,
	dashed, solid, double, groove,
	ridge, inset, outset.
border-style	One to four border-*-style values.

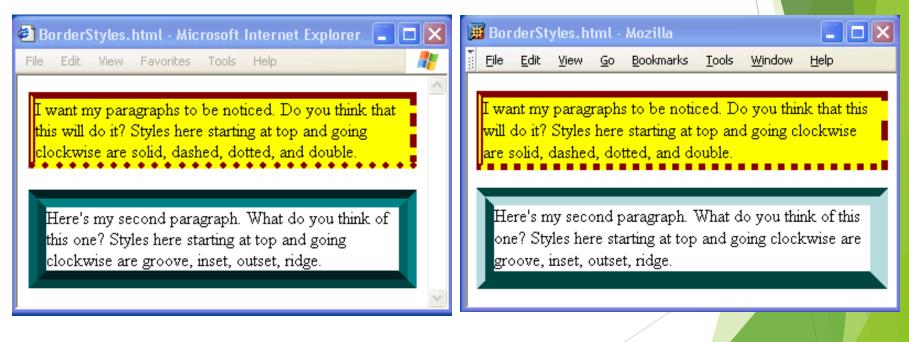






TABLE 3.9: Basic CSS style properties associated with the box model.

border-{top,right,bottom,left}	One to three values (in any order) for
	border-*-width, border-*-color,
	and border-*-style. Initial values
	are used for any unspecified values.
border	One to three values; equivalent to
	specifying given values for each
	of border-top, border-right,
	border-bottom, and border-left.
margin-{top,right,bottom,left}	auto (see text) or length.
margin	One to four margin-* values.







border: 15px solid; border-left: 30px inset red; color: blue }



Left border is 30px wide, inset style, and red



Backgrounds

background-color

- Specifies background color for content, padding, and border areas
- Margin area is always transparent
- Not inherited; initial value transparent

background-image

Specifies (using url() function) image that will be tiled over an element





Backgrounds



<body style="background-image:url('CucumberFlowerPot.png')">





Normal Flow Layout



- In normal flow processing, each displayed element has a corresponding box
 - html element box is called initial containing block and corresponds to entire document
 - Boxes of child elements are contained in boxes of parent
 - Sibling block elements are laid out one on top of the other
 - Sibling inline elements are one after the other



Normal Flow Layout



	Paragraph 1: more blah a blah blah blah	ispan b	lah	<	Canvas (body) Initial Containing Block (html)
	blah blah blah Paragraph 2: more blah a blah blah blah blah blah blah	blah blah b i span blah t	lah lah olah		Browser Client Area
CSS AND CLIENT-SIDE SC	Paragraph 3: Image 2	Image 1	rkavi		70
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Normal Flow Layout



html, body { border:solid red thin }
html { border-width:thick }
body { padding:15px }
div { margin:0px; padding:15px; border:solid black 2px }
.shade { background-color:aqua }
.topMargin { margin-top:10px }

```
<body>
    <br/>
        <div id="d1">
Block <div id="d2">
elements <div id="d3" class="shade"></div>
only </div>
        <div id="d4" class="shade topMargin"></div>
        </div>
        <//div>
        </div>
        </div>

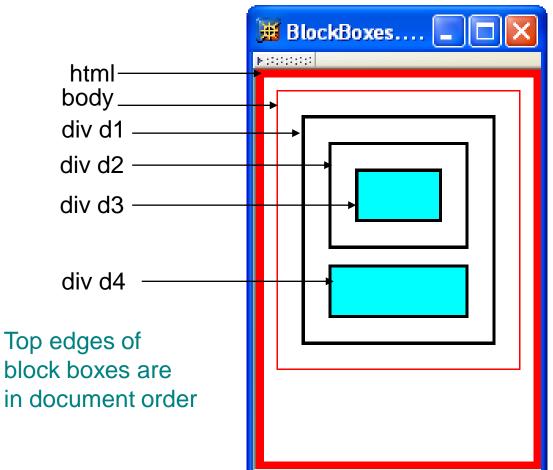
        </div>

        </div>

        </l
```



Normal Flow Layout



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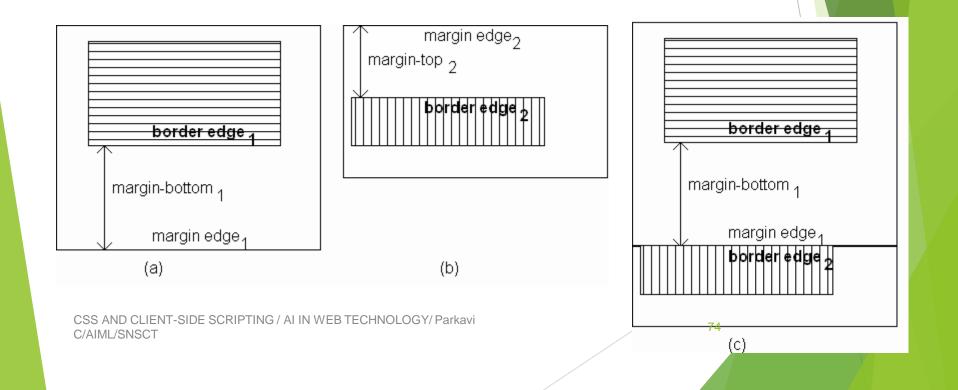


- What is a "block element"?
 - Element with value block specified for its display property
 - User agent style sheet (not CSS) specifies default values; typical block elements include html, body, p, pre, div, form, ol, ul, dl, hr, h1 through h6
 - Most other elements except li and table-related have inline specified for display





When blocks stack, adjacent margins are collapsed to the size of the larger margin







Initial value of width property is auto, which for block boxes means to make the content area as wide as

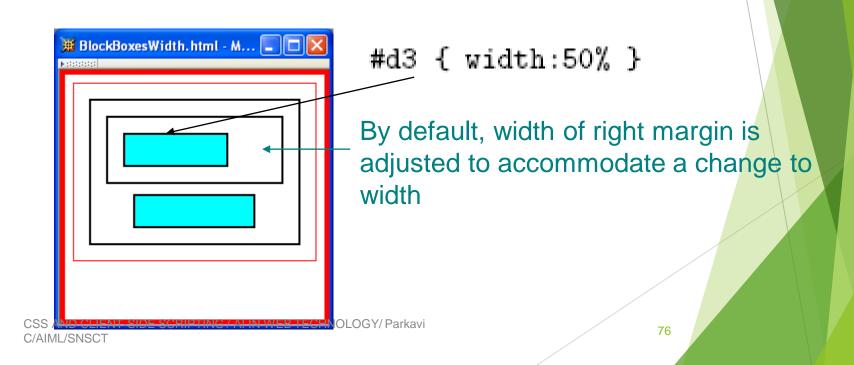
BlockBoxes	BlockBoxes.html - Mozilla	g
		W in cl
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Width of block boxes increases as browser client area is widened



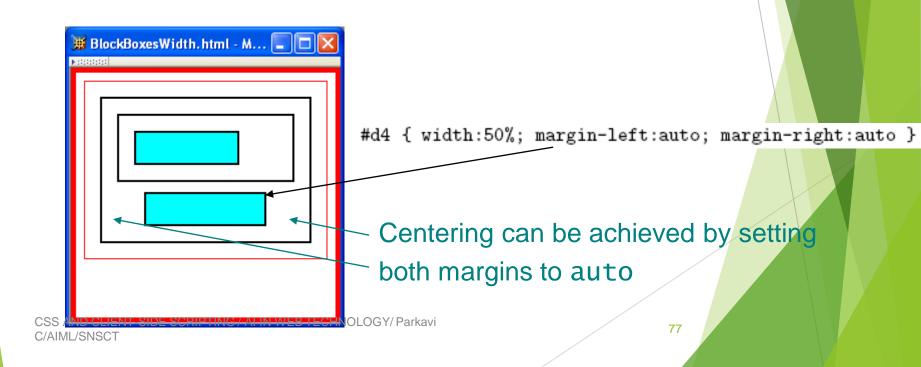


Can also specify CSS length or percentage (of parent's content width) for width property





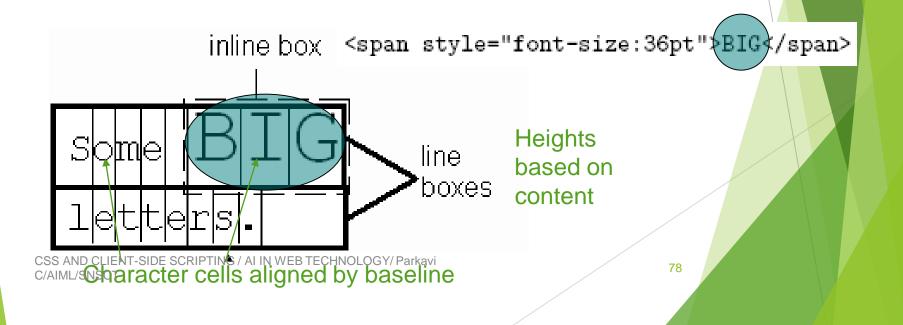
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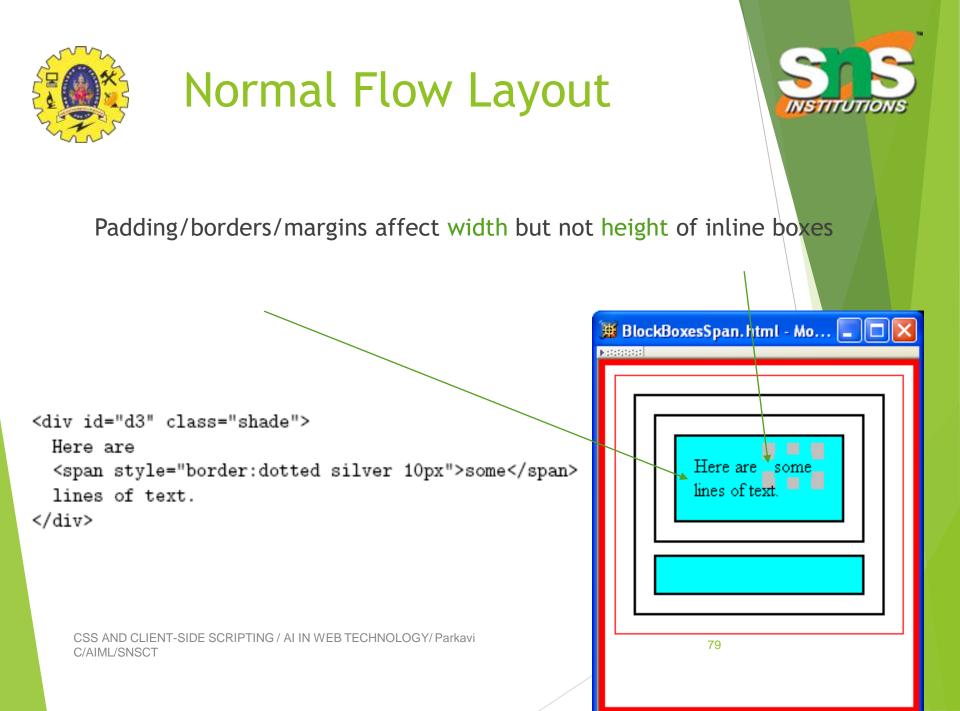






Boxes corresponding to character cells and inline elements are laid out side by side in line boxes that are stacked one on top of the other



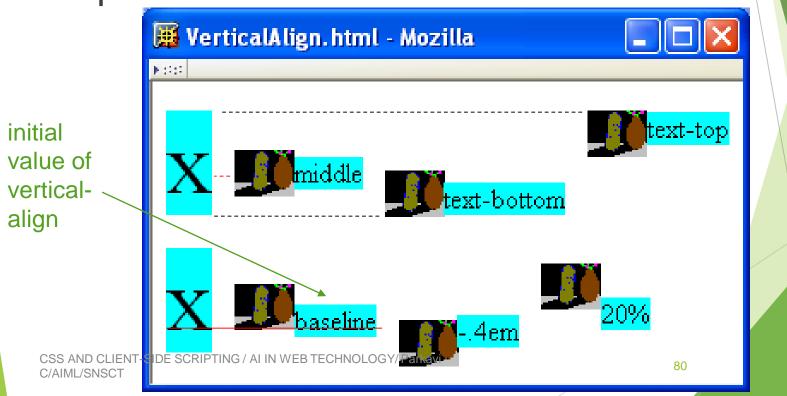




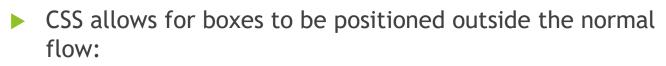
Normal	Flow	Layout



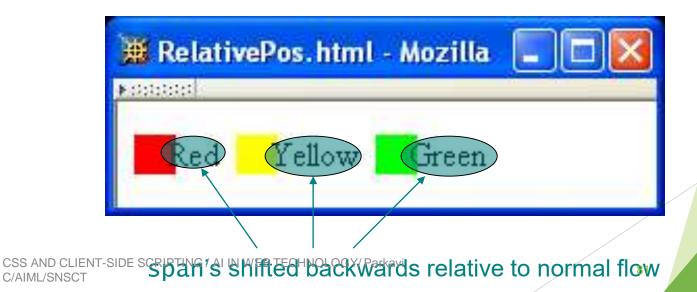
Specify value for vertical-align to position an inline element within line box:







Relative positioning









- CSS allows for boxes to be positioned outside the normal flow:
 - Float positioning

span taken out of normal flow and "floated" to the – left of its line box 📕 FloatedPos.html ... 📒

▶:0:0:0:0:0

This text is going to wrap around the big Roman numeral embedded within the paragraph, because the numeral is floated.

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- CSS allows for boxes to be positioned outside the normal flow:
- 🦉 AbsolutePos.html Mozilla Absolute positioning ▶ :1:1:1:1:1:1 This is the first paragraph. No note here. This note is pretty This second long, so it could paragraph has a span's removed from cause trouble... note. normal flow and positioned relative A short note. This third to another box paragraph also has a note. CSS AND CLIENT-SIDE SCRIPTING / ALIN WEB TECHNOLOGY/ Parkavi 83 C/AIML/SNSCT





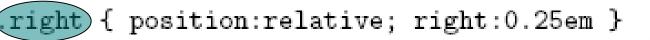
- position: static (initial value), relative, or absolute
 - Element is positioned if this property not static
 - Properties left, right, top, bottom apply to positioned elements
 - Primary values are auto (initial value) or CSS length
- float: none, left, or right
 - Applies to elements with static and relative positioning only





Relative positioning

Specifying positive value for right property of relatively positioned box moves it to left



 Red







- Relative positioning
 - Specifying negative value for left property *also* moves box to left

- .right { position:relative; left:-0.25em
- Red







- Float positioning
 - Specify value for float property

.bigNum { float:left; font-size:xx-large; font-weight:bold }

```
This text is going to wrap
around the
<span class="bigNum">I.&nbsp;</span>
big Roman numeral
```

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選 FloatedPos.html ... 🔳 🗖

▶:::::::::::

This text is going to wrap around the big Roman numeral **I.** embedded within the paragraph, because the numeral is floated. 87



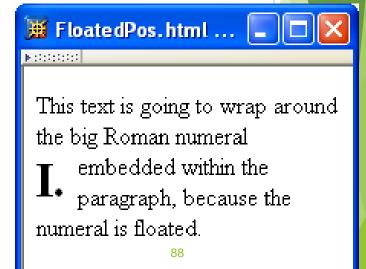


- Float positioning
 - Specify value for float property

.bigNum { float:left; font-size:xx-large; font-weight:bold }

This text is going to wrap around the I. big Roman numeral Floated element becomes a CSS block

css and client-side scripting / Al IN WEB TECHNOLOGY/Parkavi. Celement (e.g., can set height and width)





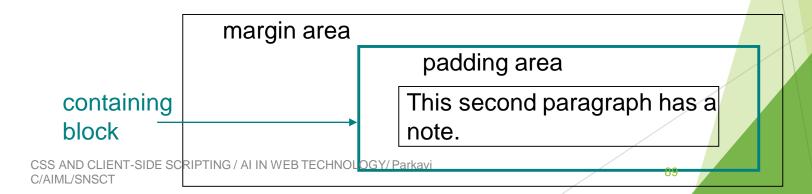


Absolute positioning

 Specify location for corner of box relative to positioned containing block









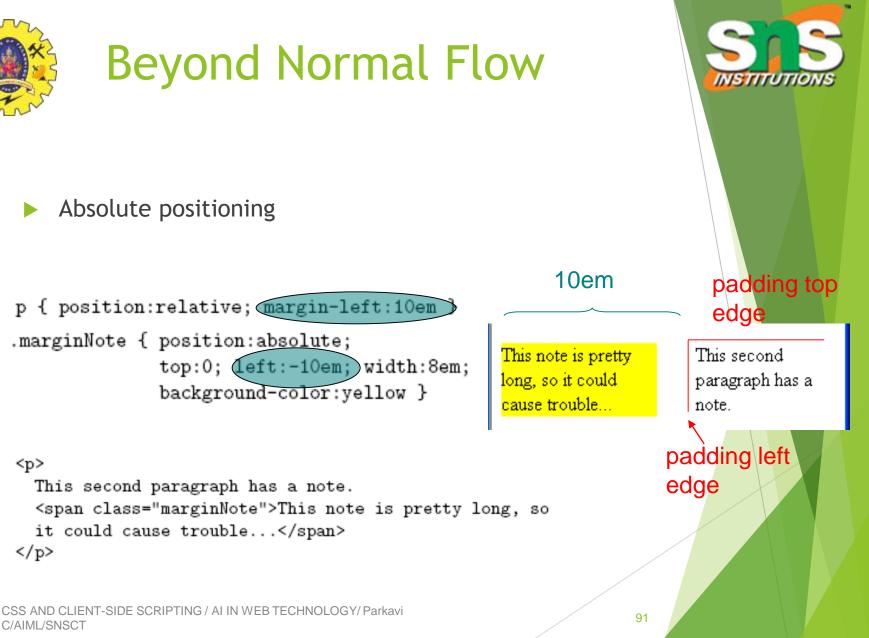
Absolute positioning

 Specify location for edges of box relative to positioned containing block

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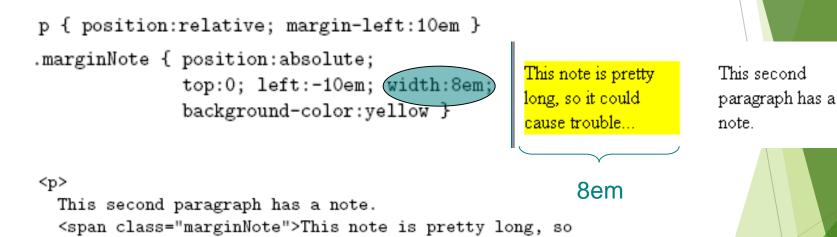






Beyond Normal Flow

Absolute positioning



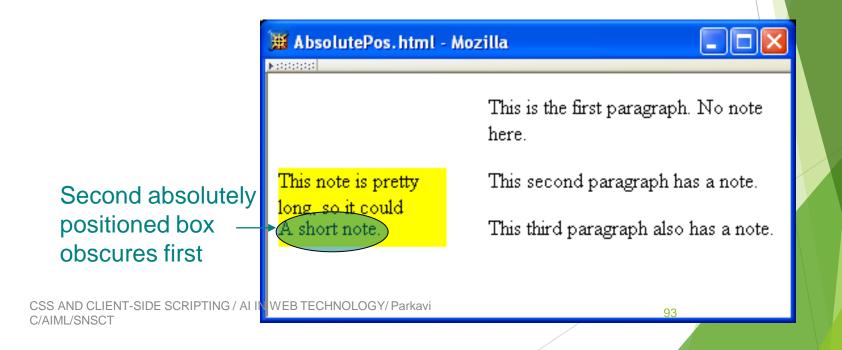
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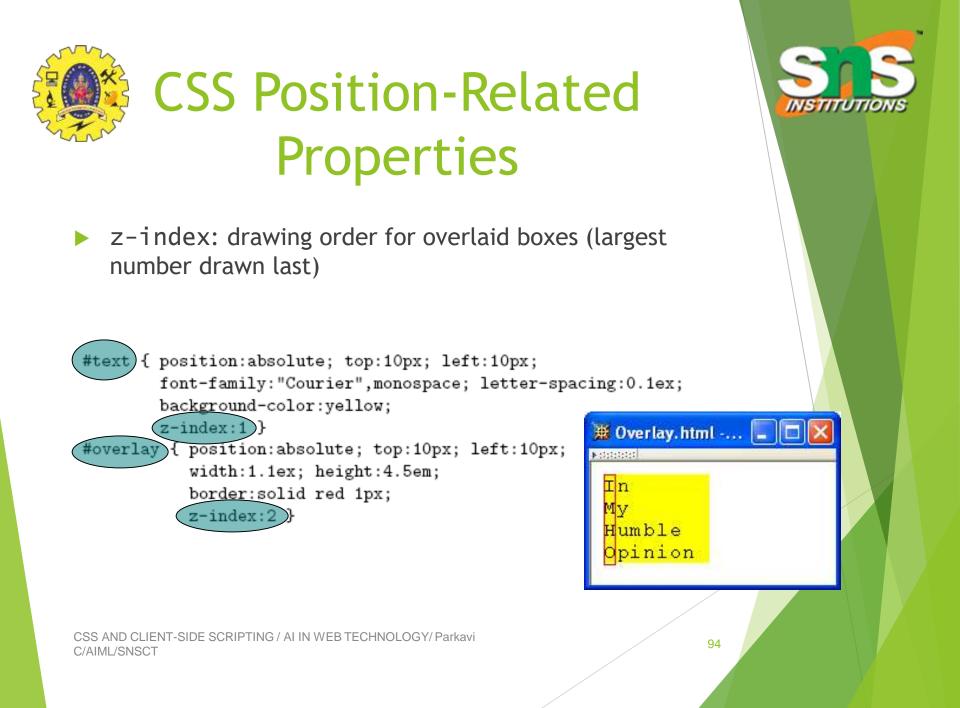
it could cause trouble ... </ span>





Absolutely positioned box does not affect positioning of other boxes!







- display: value none means that element and its descendants are not rendered and *do not* affect normal flow
- visibility: value hidden (initial value is visible) means that element and its descendants are not rendered but still *do* affect normal flow

