

HTML, XHTML, and XML

3rd Edition

Tutorial 4

Creating Special Effects with CSS

Thanks to the author of the textbook for providing these slides. I made slight changes/additions. Turgay Korkmaz





Objectives

- Work with CSS selectors
- Create styles for lists
- Create and apply class styles
- Create a rollover effect
- Create a drop cap using a pseudo-element
- Manage page layout with CSS
- Work with **overflow** and clipping styles



Objectives

- Create stacked objects
- Apply styles to various media
- Hide elements from printing
- Create and apply printer styles
- Create and prohibit page breaks for printing



Tutorial_04/tutorial

Home

Getting Started

Supply List

Online Classes

Sample Pages

Online Store

Shopping Cart

Your Account

Order Status

Customer Service

Wish List

About Us

Newsletter

Contact Us

FAO

Checkout

Glossary

Scrapbooking Tips

Textboo Pa 200

Initial design for the Getting Started page

Final appearance of the Getting Started page



Home Getting Started

- Scrapbooking Tips
- Supply List Glossary
- Online Classes
- Sample Pages
- Online Store
- Shopping Cart
- Checkout
- Your Account
- Order Status
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- <u>Wish List</u>
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 Contact Us

Getting Started

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Basic Materials

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- Acid-free pen, markers, and adhesive
- Acid-free memory book album
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 Photos and photo corners
- Protos and proto co
 Paper punches
- Journalling templates
- Decorative embellishments

will become yellow and brittle, so you should only use lignin-free products.

Your albums should contain page protectors to shield the pages from smudges, oil, and dirt that can be transferred from your hands. You should never use albums with sticky "magnetic" pages. The sticky substance will be transferred to the photo and backing paper causing deterioration. Never crop Polaroid[®] photos: they will curl and fall apart. Mount all memorabilia on acid-free cardstock paper, and photocopy all newspaper clippings on acid-free paper.



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element in wood fibers. Over time, paper with lignin will become yellow and brittle, so you should only use lignin-free products.

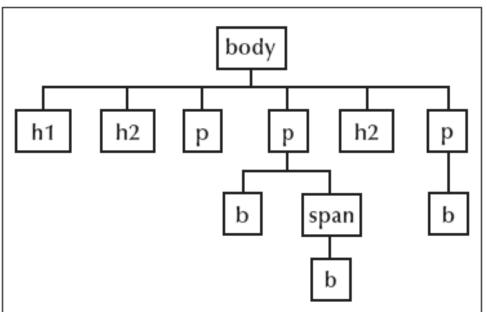
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Working with Selector Patterns contextual selectors

- Instead of using id for all the various elements, can we apply styles to elements based on their location or use in the web page?
- On a Web page, elements are nested within other elements, forming a hierarchical tree structure





Working with Selector Patterns contextual selectors

 To take advantage of this tree structure, CSS allows you to create **contextual selectors** that express the location of an element within the hierarchy of elements

parent descendant {styles}

```
NO
```

Selector

e1, e2, e3, ...

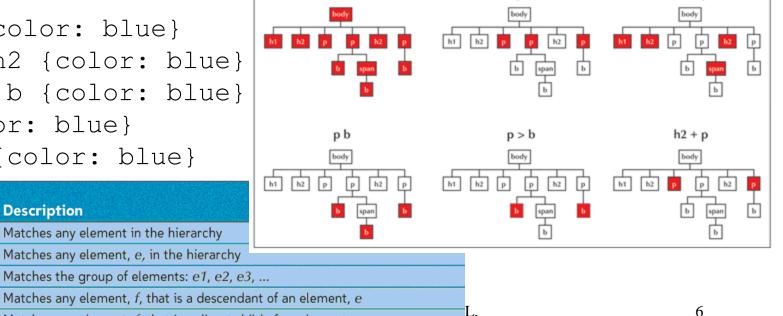
e

e f

```
li b {color: blue}
li b, h2 {color: blue}
#notes b {color: blue}
 {color: blue}
*
```

 $p > b \{color: blue\}$

Description



h1, h2, span



Working with Selector Patterns

 On occasion you might also need to select elements based on their attribute values

element[att] {styles}

a[href] {color: blue}

 ...

Will be affected but Not

<a>

New Perspectives on]
Comprehei

	Selector	Description	Example	Interpretation
	elem[att]	The element contains the <i>att</i> attribute	a[href]	Matches hypertext elements containing the href attribute
	elem[att="val"]	The element's <i>att</i> attribute equals <i>val</i>	a[href="gloss.htm"]	Matches hypertext elements whose href attribute equals "gloss.htm"
	elem[att~="val"]	The element's <i>att</i> attribute value is a space- separated list of words, one of which is exactly <i>val</i>	a[rel~="glossary"]	Matches hypertext elements whose rel attribute contains the word "glossary"
	elem[att ="val"]	The element's <i>att</i> attribute value is a hyphen-separated list of words beginning with <i>val</i>	p[id ="first"]	Matches paragraphs whose id attribute starts with the word "first" in a hyphen- separated list of words
	elem[att^="val"]	The element's <i>att</i> attribute begins with <i>val</i> (CSS3)	a[rel^="prev"]	Matches hypertext elements whose rel attribute begins with "prev"
	elem[att\$="val"]	The element's <i>att</i> attribute ends with <i>val</i> (CSS3)	a[href\$="org"]	Matches hypertext elements whose href attribute ends with "org"
] 21	elem[att*="val"]	The element's <i>att</i> attribute contains the value <i>val</i> (CSS3)	a[href*="faq"]	Matches hypertext elements whose href attribute contains the text string "faq"



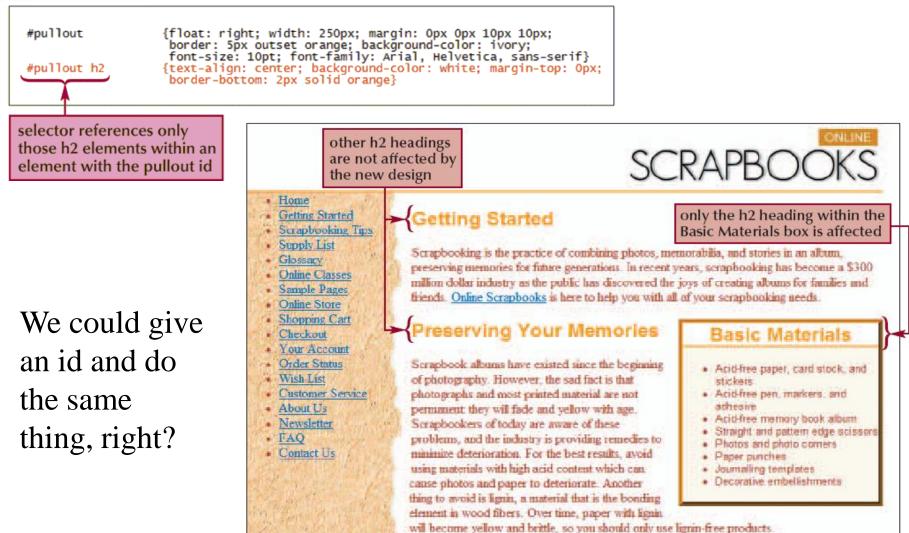
Using Selector Patterns

- To apply a style to all elements in the document, use the * selector
- To apply a style to a single element, use the **e** selector, where • e is the name of the element
- To apply a selector to a descendant element, **f**, use the **e f** selector, where **e** is the name of the parent element and **f** is an element nested within the parent
- To apply a selector to a child element, f, use the e > f selector, where **e** is the name of a parent element and **f** is an element that is a direct child of the parent
- To apply a selector to a sibling element, use the e + f selector, where **e** and **f** are siblings and **f** immediately follows e in the document tree



Working with Selector Patterns







Working with Selector Patterns

 Conditional comments allow you to apply different HTML code for different versions of Internet Explorer

<!-- [if condition IE version]><!--> HTML code <!--<![endif]-->



Applying Styles to Lists

• To specify the list marker displayed by the browser, you can apply the style

list-style-type: type

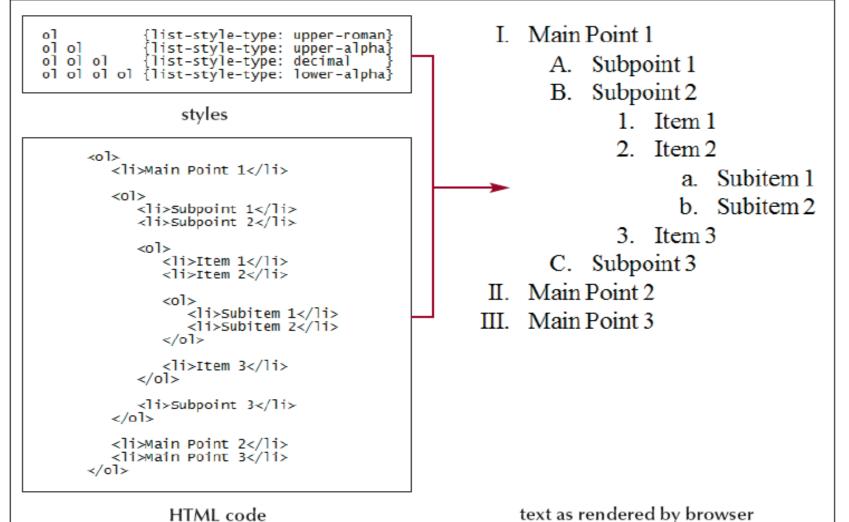
list-style-type	Marker (s)
disc	•
circle	0
square	
decimal	1, 2, 3, 4,
decimal-leading-zero	01, 02, 03, 04,
lower-roman	i, ii, iii, iv,
upper-roman	I, II, III, IV,
lower-alpha	a, b, c, d,
upper-alpha	A, B, C, D,
none	no marker displayed

list-style-image: url(file)

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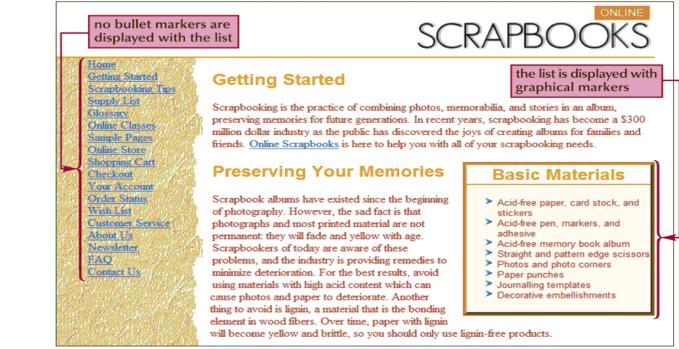


Applying Styles to Lists



100			
	h1, h2, h3 {font-f h1 {border	n: Opx; color: brown; ound: white url(back.jpg) repeat-y} 'amily: Arial, Helvetica, sans-serif; color: orange} -bottom: 2px solid orange; background-color: white; margin: Opx; padding: Opx} n-top:Opx}	Textbook Pg 209
	#outer_container #head	{width: 780px} {text-align: right}	
	#links #links ul	{float: left; width: 200px} no marker is used {list-style-type: none} with the list the graphic file	
	#article	{margin-left: 200px} bullet.jpg is used	
	#pullout	<pre>{float: right; width: 250px; margin: 0px 0px 10px 10px; border: 5px outset orange; background-color: ivory; font-size: 10pt; font-family: Arial, Helvetica, sans-serif}</pre>	
	#pullout h2	<pre>{text-align: center; background-color: white; margin-top: 0px; border-bottom: 2px solid orange}</pre>	
	<pre>#pullout ul</pre>	<pre>{list-style-image: url(bullet.jpg)}</pre>	
	address	<pre>{text-align: center; font-style: normal; font-variant: small-caps; border-top: 2px solid orange; color: orange}</pre>	

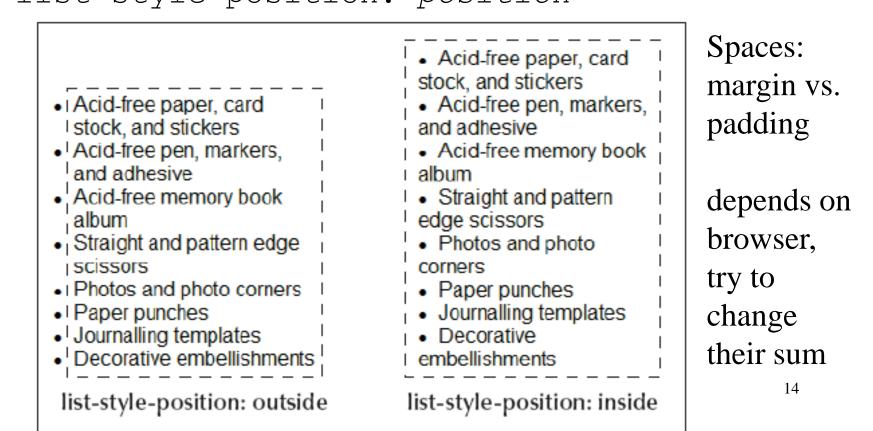
Can we remove the extra space on the left of the list?





Applying Styles to Lists

• Most browsers place the list marker to the left of the block, lining up the markers with each list item list-style-position: *position*



	1	
36.1		

#outer_container #head	{width: 780px} {text-align: right}
#links #links ul	<pre>{float: left; width: 200px} {list-style-type: none; margin-left: 15px; padding-left: 0px} </pre> Pg 212
#article	{margin-left: 200px}
#pullout	{float: right; width: 250px; margin: 0px 0px 10px 10px; border: 5px outset orange; background-color: ivory; font-size: 10pt; font-family: Arial, Helvetica, sans-serif}
#pullout h2	{text-align: center; background-color: white; margin-top: Opx; border-bottom: 2px solid orange}
#pullout ul	<pre>{list-style-image: url(bullet.jpg); margin-left: 25px; padding-left: 0px}</pre>
address	<pre>{text-align: center; font-style: normal; font-variant: small-caps; border-top: 2px solid orange; color: orange}</pre>



Home Getting Started Scrapbooking Tips Supply List Glossary **Online Classes** Sample Pages Online Store Shopping Cart Checkout Your Account Order Status Wish List Customer Service About Us Newsletter FAO Contact Us

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element in wood fibers. Over time, paper with lignin will become yellow and brittle, so you should only use lignin-free products.



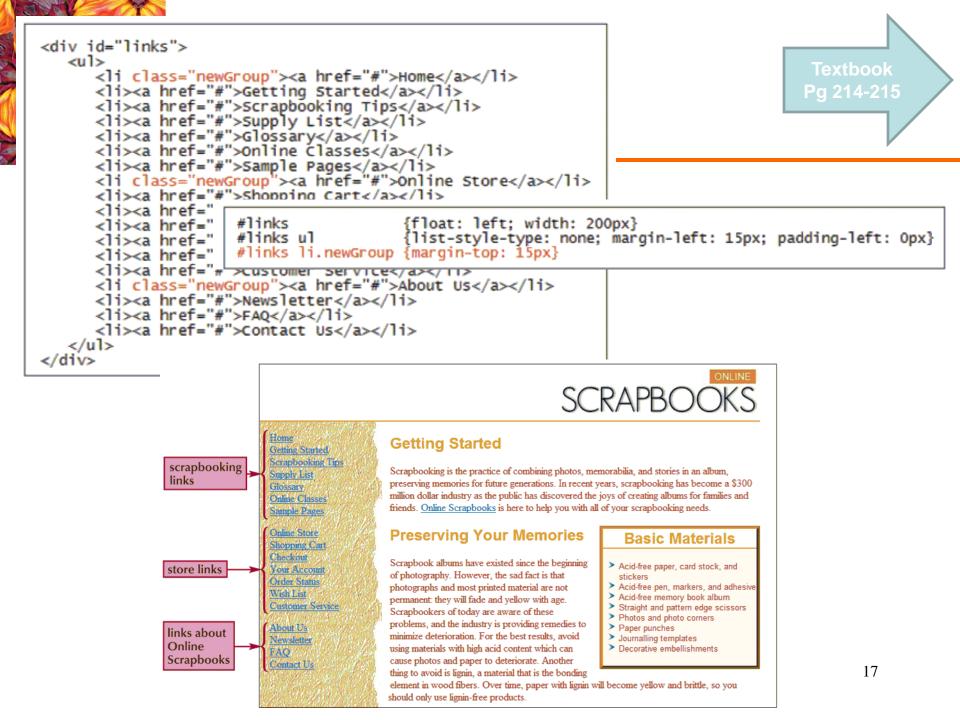
Working with Classes

- The class attribute is used when you want to identify elements that share a common characteristic (vs. ID) <elem class="class"> ... </elem>
- You can use the class attribute to assign the same style to multiple elements sharing the same class value .class {styles}

<h2 class="subtitle"> ... </h2>

.subtitle {color: blue}

h2.subtitle {color: blue}





Using Pseudo-Classes

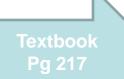
creating link rollover

- How to make underlining a rollover efect for the list of link?
- A **pseudo-class** is a classification of an element based on its current status, position, or use in the document selector:pseudo-class {styles}

Pseudo-class	Description	Example
link	The link has not yet been visited by the user	a:link {color: red}
visited	The link has been visited by the user	a:visited {color: green}
active	The link is in the process of being acti- vated by the user	a:active {color: yellow}
hover	The mouse pointer is hovering over the link	a:hover {color: blue}
focus	The element has received the focus of the keyboard or mouse pointer	<pre>input.focus {background-color: yellow}</pre>
first-child	The element is the first child of its parent	<pre>p:first-child {text-indent: 0}</pre>
lang	Specifies the language to be used with the element	q:lang(FR) {quotes: '<<' '>>'}

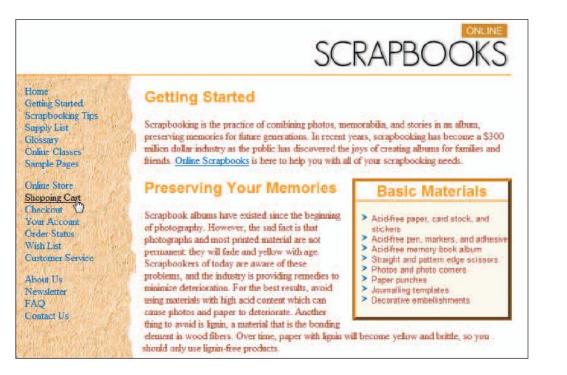


Using Pseudo-Classes



creating link rollover

#links	{float: left; width: 200px}
#links ul	{list-style-type: none; margin-left: 15px; padding-left: 0px}
#links li.newGroup	{margin-top: 15px}
#links a:link	{text-decoration: none}
#links a:visited	{text-decoration: none}
#links a:hover	{color: black; text-decoration: underline}
#links a:active	{text-decoration: none}





Pseudo-Elements

Creating a Drop Cap

 Pseudo-elements are abstracted from what we know of an element's content, use, or position in the document selector:pseudo-element {styles}

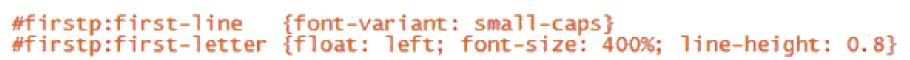
p:first-letter {font-size:20pt}

Pseudo-element	Description	Example
first-letter	The first letter of the element text	p:first-letter {font-size:14pt}
first-line	The first line of the element text	p:first-line {text-transform: uppercase}
before	Content inserted directly before the element	p:before {content:"Special!"}
after	Content appended to the element	p:after {content:"eof"}



Pseudo-Elements

Creating a Drop Cap



#article

{margin-left: 200px}



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element in wood fibers. Over time, paper with lignin will become yellow and brittle, so you should only use lignin-free products.

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Generating Text with Pseudo-Elements

- *selector*:before {content: "*text"* }
- selector:after {content: "text"}

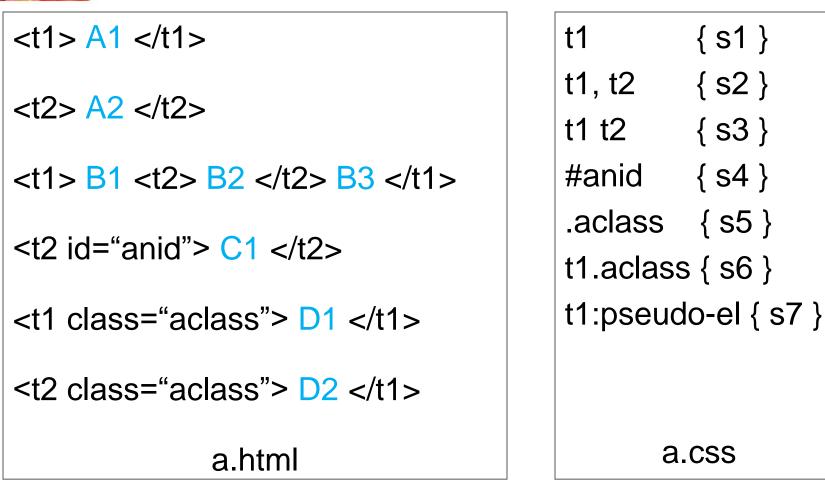
```
Examples
```

```
em:after {content: " !"}
```

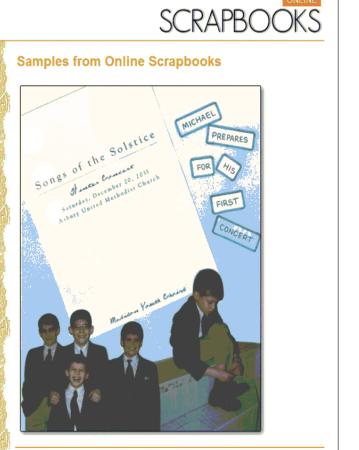
```
a:hover:before {content: "<"}
a:hover:after {content: ">"}
```



Summary



Session 4.2 Positioning Objects with CSS



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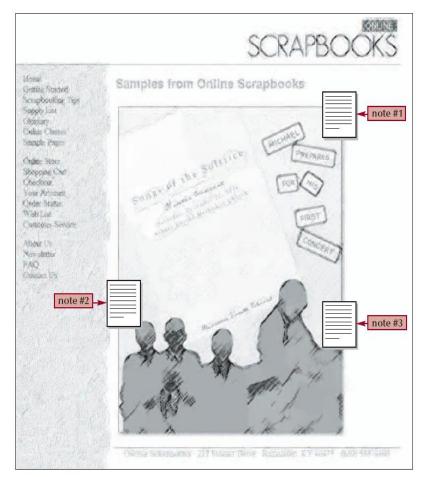
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Scrapbooking Tips

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create content

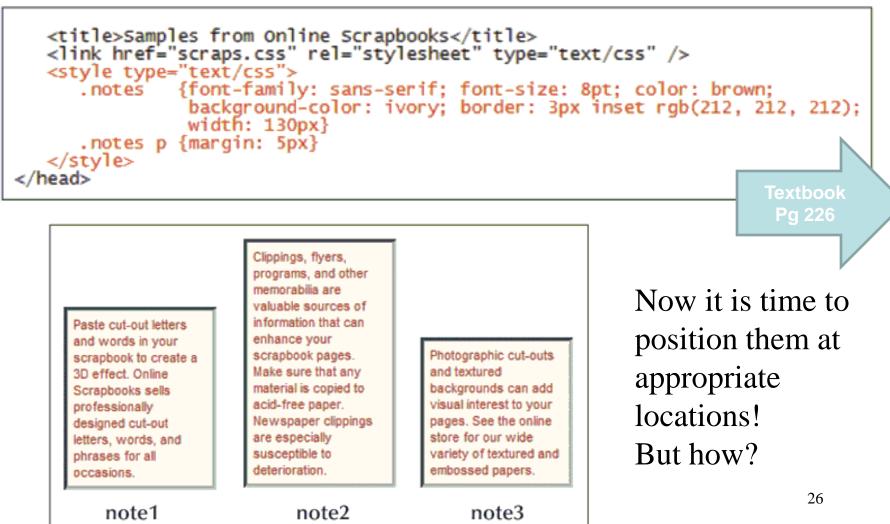
- Create div containers for each note
- Add a class attribute to apply a common set of styles
- Each note should have a unique id

```
<div id="article">
  <h2>Samples from Online Scrapbooks</h2>
  <div id="note1" class="notes">
     Paste cut-out letters and words in your scrapbook to create
     a 3D effect. Online Scrapbooks sells professionally
     designed cut-out letters, words, and phrases for all occasions. 
  </div>
  <div id="note2" class="notes">
     <plippings, flyers, programs, and other memorabilia are valuable</p>
     sources of information that can enhance your scrapbook pages.
     Make sure that any material is copied to acid-free paper.
     Newspaper clippings are especially susceptible to deterioration. 
  </div>
  <div id="note3" class="notes">
     Photographic cut-outs and textured backgrounds can add visual
     interest to your pages. See the online store for our wide
     variety of textured and embossed papers. 
  </div>
  <div id="sample_image">
     <img src="sample.jpg" alt="sample page" width="474" height="616" />
  </div>
```

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create style





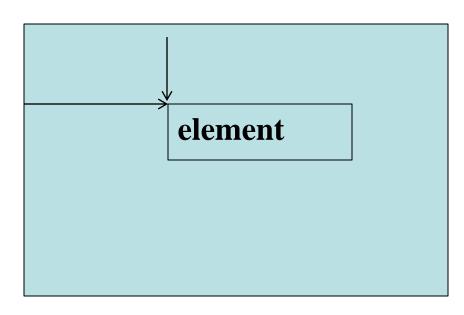
- CSS-P (CSS-Positioning) became part of the specification for CSS2, and positioning styles were some of the first CSS2 styles to be adopted by browsers
- To place an element at a specific location on a page position: type; top: value; right: value; bottom: value; left: value;
- *type* indicates type of positioning
 - static (default ignore coordinates), absolute, relative, fixed and inherit
- top, right, bottom, left indicate the coordinates
 - we can use two (e.g., top, right) find others using height, width

tutorial.04\demo click demo_positioning.htm



Absolute positioning

 Absolute positioning enables you to place an element at specific coordinates either on a page or within a containing element position: absolute; left: 100px; top: 50px

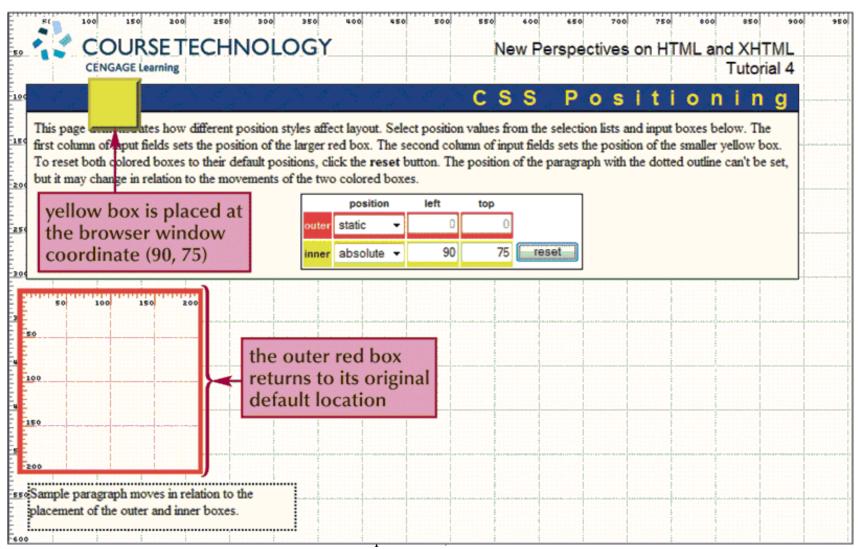


Once an element has been placed using **absolute** positioning, it affects the placement of other objects on the web page (see demo)



Absolute positioning

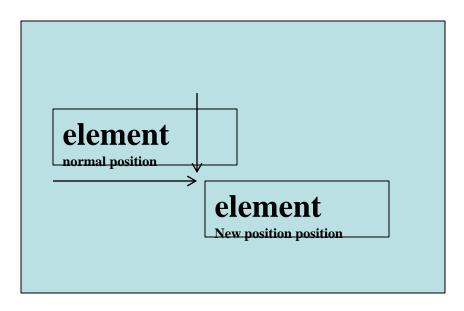
Absolute positioning within a nonpositioned element





Relative positioning

• Relative positioning is used to move an element relative to its default position on the page position: relative; left: 100px; top: 50px

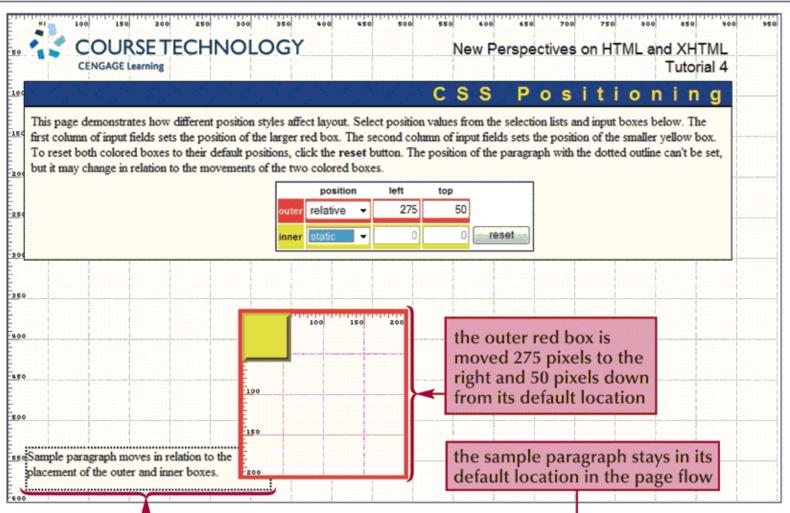


Once an element has been placed using **relative** positioning, it does NOT affect the placement of other objects on the web page (see demo). Other objects retain their position as if the element had never been moved...



Relative positioning

Relative positioning



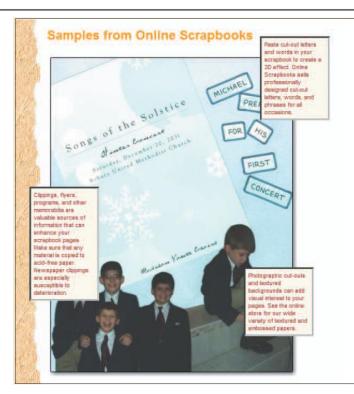
Fixed and Inherit positioning

Fixed and inherited positioning

COURSE TECHNO CENGAGE Learning								on HTML and XHTML Tutorial 4 itioning
This page demonstrates how different position first column of input fields sets the position of To reset both colored boxes to their default p but it may change in relation to the movement	the larger r ositions, cli	ed box. 1 ick the re	The sec set but	ond colu ton. The	nn of inpu	t fields sets t	he posi	tion of the smaller yellow box.
	outer	positio fixed	on 💌	left 300	top 300			
Sample paragraph moves in relation to the placement of the outer and inner boxes.	so 50	inherit 100	150	200	300	reset		the two boxes are
	100							fixed at a specific location within the browser window
	200						J	



<style type="text/css"> .notes {font-family: sans-serif; font-size: 8pt; color: brown; background-color: ivory; border: 3px inset rgb(212, 212, 212); width: 130px} .notes p {margin: 5px} #note1 {position: absolute; left: 600px; top: 120px} #note2 {position: absolute; left: 170px; top: 400px} #note3 {position: absolute; left: 570px; top: 550px} </style>



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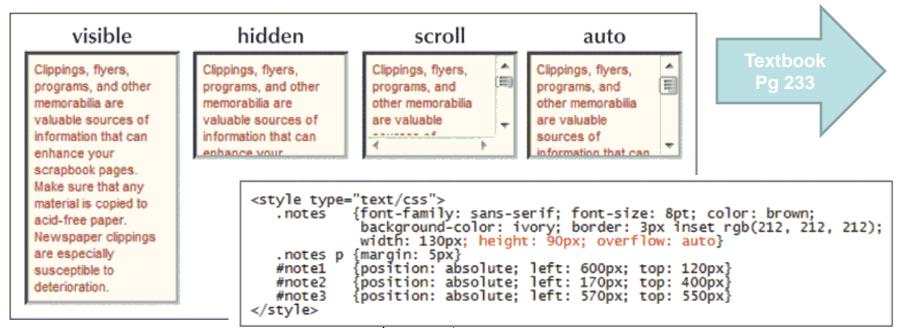
Notes are too big! Make them less intrusive



Working with Overflow and Clipping

 If you want to force an element into a specified height and width, you have to define how the browser should handle a situation where content overflows the space allotted to the object

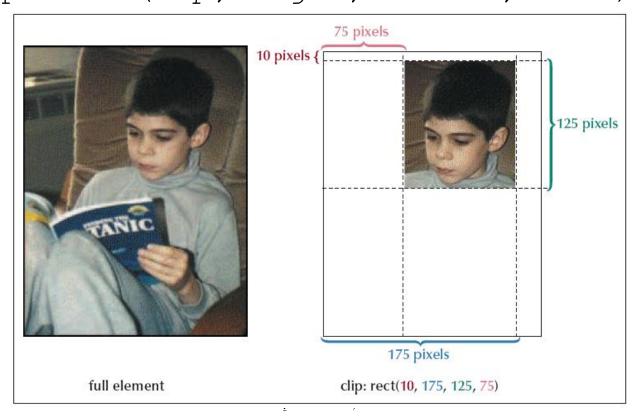
overflow: type





Working with Overflow and Clipping

• The clip style allows you to define a rectangular region through which the element's content can be viewed clip: rect(top, right, bottom, left)





Limiting Width and Height

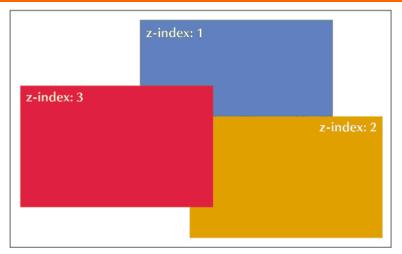
min-width: value min-height: value max-width: value max-height: value div { width: 80%; min-width: 200px; max-width:700px

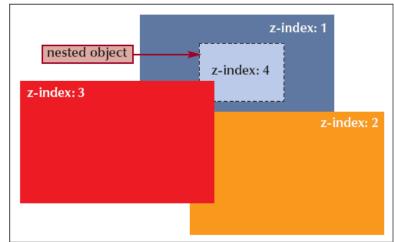
/* width of div is 80% of web browser but it is not lees than 200px or more than 700px */



Stacking Elements

- Elements placed using CSS positioning are stacked on top of other elements, leading overlaps
- To specify a different stacking order, use the style: z-index: value
- Only works with absolute positioning under same parent
- If parents are different, no impact

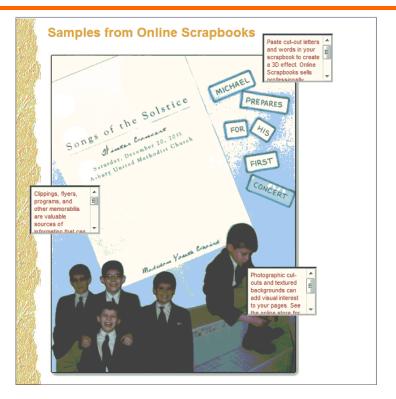






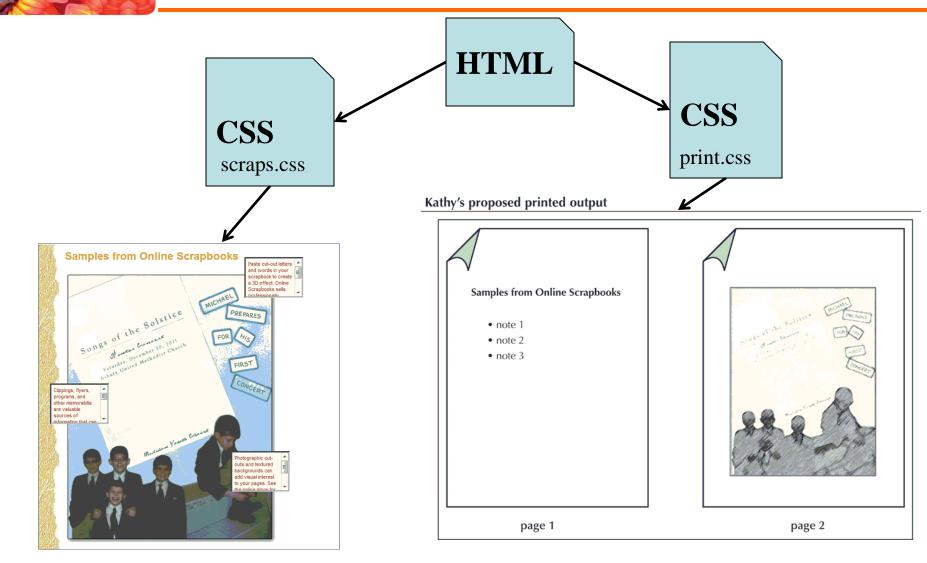
Session 4.3 Working with Different Media

- How will this page look like on a printed page?
- By default, a style sheet is applied to all devices, and each device must determine how best to match the styles to its own requirements



- But the result may not look good on printer
- CSS allows us to use different styles for different media

Session 4.3 Working with Different Media





Working with Different Media

Media Types

<style type="text/css" media="value">

</style>

or

<link href="url" type="text/css" media="value"</pre>

Value	Used for
all	All output devices (the default)
aural	Speech and sound synthesizers
braille	Braille tactile feedback devices
embossed	Paged Braille printers
handheld	Small or handheld devices with small screens, monochrome graphics, and limited bandwidth
print	Printers
projection	Projectors
screen	Computer screens
tty	Fixed-width devices like teletype machines and terminals
tv	Television-type devices with low resolution, color, and limited scrollability



Working with Different Media

• Style sheets cascade through the media types

```
<style type="text/css"> /* for all media */
 h1 {font-family: san-serif}
</style>
<style type="text/css" media="screen">
 h1 {color: red}
</style>
<style type="text/css" media="printer">
 h1 {color: black}
</style>
```



}

Working with Different Media

The @media rule

- It might be hard to maintain different style sheets
- You can use a single style sheet broken down into different sections for each media type

@media screen { body {font-size: 1em} h1 {font-size: 2em} }
@media print { body {font-size: 12pt} h1 {font-size: 16pt} }
@media tv { body {font-size: 16pt} h1 {font-size: 24pt} }
@media handheld { body {font-size: 8pt} h1 {font-size: 12pt} }

```
@media screen, print, tv, handheld {
    h1 {font-family: san-serif}
```

Single file with @media rules

```
vs.
Multiple style files for each media
```



Working with Different Media media groups

- CSS uses media groups to describe how different media devices render content
 - Continuous or paged
 - Visual, aural, or tactile
 - Grid (for character grid devices) or bitmap
 - Interactive (for devices that allow user interaction) or static (for devices that allow no interaction)

Media type	continuous/ paged	visual/aural/ tactile	grid/bitmap	interactive/ static
aural	continuous	aural	N/A	both
braille	continuous	tactile	grid	both
embossed	paged	tactile	grid	both
handheld	both	visual	both	both
print	paged	visual	bitmap	static
projection	paged	visual	bitmap	static
screen	continuous	visual	bitmap	both
tty	continuous	visual	grid	both
tv	both	visual, aural	bitmap	both

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Save printtxt.css as print.css Use print.css for paged visual media (print, projection) Use scraps.css for continuous visual media (screen, tv, tty)

Linking to external style sheets for different media

```
<title>Samples from Online Scrapbooks</title>
<link href="print.css" rel="stylesheet" type="text/css" media="print, projection" />
<link href="scraps.css" rel="stylesheet" type="text/css" media="screen, tv, tty" />
```

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Embedded style sheets for different media

```
<style type="text/css" media="print, projection">
    </style>
    <style type="text/css" media="screen, tv, tty">
        .notes {font-family: sans-serif; font-size: 8pt; color: brown;
            background-color: ivory; border: 3px inset rgb(212, 212, 212);
            width: 130px; height: 90px; overflow: auto}
        .notes p {margin: 5px}
        #note1 {position: absolute; left: 600px; top: 120px}
        #note2 {position: absolute; left: 170px; top: 400px}
        #note3 {position: absolute; left: 570px; top: 550px}
</style>
```

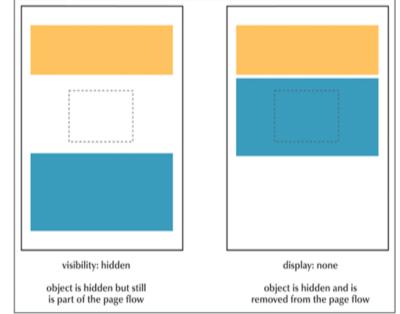


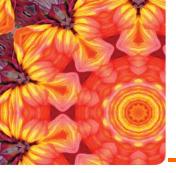
Hiding Elements

 CSS has two styles that you can use to keep an element from being displayed in the output: the display style (Tutorial 03) and the visibility style

visibility: type

- The *type* attribute can be set to
 - visible (makes an element visible)
 - hidden (hides the element)
 - vs. display: none
 - collapse (for tables Tutorial 05)
 - inherit (default)





Hide head, links, address in printed pages...

Preview of the Samples page Samples from Online Scrapbooks Page 1 of 1 notes printed as a bulleted list Samples from Online Scrapbooks Paste cut-out letters and words in your scrapbook to create a 3D effect. Online Scrapbooks sells professionally designed cut-out letters, words, and phrases for all occasions. Can we Clippings, flyers, programs, and other memorabilia are valuable sources of information that can enhance your scrapbook pages. Make sure that any material is copied to acidfree paper. Newspaper clippings are especially susceptible to deterioration. print notes Photographic cut-outs and textured backgrounds can add visual interest to your pages. See the online store for our wide variety of textured and embossed papers. and image? Page breaks

Using the display:none style



Setting the print styles for the callout notes



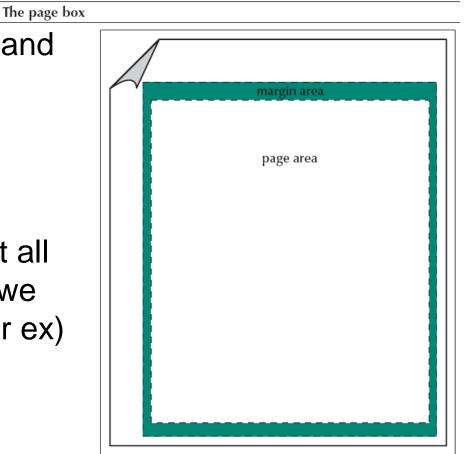
Using Print Styles

page box model

- CSS defines printed pages by extending the box model
- The general rule to create and define a page box is:
 @page {styles}

@page {margin:5in}

- Page box does not support all of the measurement units we used before (e.g., no em or ex)
- Usually use inches or cm



New Perspectives on Comprehensive, 3ra Eaition



Using Print Styles

page pseudo-classes and named classes

 Suppose we have several pages and we want to define different styles for different pages

- Can be done using pseudo-classes (first, left, right)
@page:pseudo-class {styles}

 To format specific pages other than the above pseudoclasses, you must create a page name with desired style
 @page name {styles}

@page larger_margin {margin: 10cm}

• Then you can apply it to any block-level element in the page selector {page: name}

blockquote {page: larger_margin}



Using Print Styles

Setting the page size

- Printed media can vary in size and orientation
- The size style allows the Web author to define the default dimensions and orientation of the printed page
 - size: width height orientation

@page {size: 8.5in 11in landscape; margin: 1in}

Setting the print style with the @print rule

@page {size: 8.5in 11in portrait; margin: 0.5in}
#head, #links, address {display: none}
h1, h2, h3, h4, h5, h6 {font-family: sans-serif}



Working with Page Breaks

• When a document is sent to the printer, the printer decides the location of the page breaks unless that information is included as part of the print style page-break-before: type

page-break-after: type

page-break-inside: type

- The *type* style attribute has the following values:
 - Always
 - Left
 - Auto
 - Inherit

-- Avoid -- Right

h1 {page-break-before: always}

blockquote { page-break-before: always;

page-break-after: always}



Working with Page Breaks

preventing page break

 If you want to keep the printer inserting a page brake inside of an element, use page-break-inside: type type is auto, inherit, avoid

blockquote {page-break-inside: avoid}

• If it is too big still there will be a page break...



Working with Page Breaks

- A **widow** occurs when only a few ending lines XXXX of an element appear at the top of a page XXXX
- An orphan is just the opposite: it occurs when only a few beginning lines of an element appear at the bottom of a page
- The styles to control the appearance of widows and orphans in the printout are:

widow: value

orphan: value

value is number of lines, default is 2



Final print.css style sheet



Summary

- Worked with CSS selectors
- Created styles for lists
- Created and applied class styles
- Created a rollover effect
- Created a drop cap using a pseudo-element
- Managed page layout with CSS
- Worked with overflow and clipping styles



Summary

- Created stacked objects
- Applied styles to various media
- Hid elements from printing
- Created and applied printer styles
- Created and prohibited page breaks for printing