

HTML

HTML

- Hypertext -Text that you click to jump from document to document
- Markup -- Tags that apply layout and formatting conventions to plain text
- Language --programming language
- HTML is derived from SGML
- Container tag
- -Standalone (empty tag/ one-sided)

HTML TAGS

Container tag

<u>-<I></u>

-Standalone(empty tag/ one-sided)

An attribute is text within the tag that contains information about how the tag should behave

-

WHY CODE IN HTML5?

- HTML5 is faster and cheaper
- Languages and technologies piggyback on HTML to deliver that content
- HTML5 adds some important new tags to make audio, video, and application integration smoother and more reliable
- -HTML5 removes support for some of the older tags.
 - •Old \square specifying a font was the < font> tag
 - New \square use cascading style sheets
- -HTML5 removes is the ability to create multi-framed Web sites with the <frame> and <frameset> commands

FORMATTING TEXT BY USING TAGS

Semantic tags

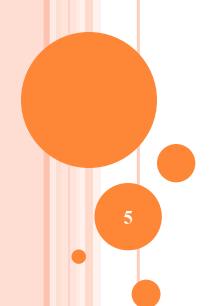
• Describe the *function* of the text, rather than provide directions for formatting •<h1>

•The formatting specifics for semantic tags can come from a variety of sources:

Styles

•The Web browser in use

Individual user customization



APPLYING BOLD AND ITALIC FORMATTING

I had a <i>great</i> time at the party.

The reception will be held at The Arbor Archin Plainfield.

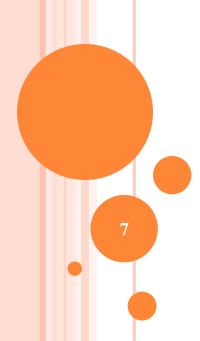
The next book we will read is <i>The Catcher in the Rye</i>

CREATING HEADINGS

<h1>My First Web Page</h1>

<h2>This is my first web page written in HTML.</h2>

<h3>HTML</h3>



FORMATTING SUPERSCRIPT AND SUBSCRIPT

<6thDec 2016

6th Dec 2016



TEXT

Proportional font means that individual characters take up varying amounts of space horizontally, depending on the size of the individual character

MMMMMMMMM

A monospaced font, also called a fixed-pitch, fixed-width, or non-proportional font, is a font whose letters and characters each occupy the same amount of horizontal space

IIIIIIIIII

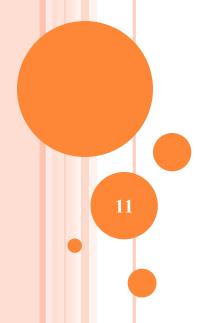
PREFORMATTED TEXT

Tag	Description		
<kbd></kbd>	(Keyboard) The tag used for monospaced text to indicate something a user should type on a keyboard		
<code></code>	(Code) The tag used for monospaced text applied to programming code		
<samp></samp>	(Sample) The tag used for sample text, which is largely the same thing as <code></code>		

```
<html>
<body
<br/>
<code>A piece of computer code</code><br>
<samp>Sample output from a computer
program</samp><br>
<kbd>Keyboard input</kbd><br>
</body>
</bd>
</br>
</body>
</br>
</body>
</body>
</br>
```

TEXT

The gardener does not love to talk,
He makes me keep the gravel walk;
And when he puts his tools away,
He locks the door and takes the key.



FORMATTING A BLOCK QUOTATION

- Here is a quote from WWF's website:<blockquote</p>cite="http://www.worldwildlife.org/who/index.html">For 50 years, WWF has been protecting the future of nature. The world's leading conservation organization, WWF works in 100 countries and is supported by 1.2 million members in the United States and close to 5 million
- </blockquote>

globally.

USING LISTS AND BACKGROUNDS

Creating Bulleted and Numbered Lists

```
<0l>
Coffee
Tea
Milk
ul>
Coffee
Tea
Milk
```

USING LISTS AND BACKGROUNDS

- 1. Coffee
 - Espresso
 - Café Latte
 - Cappuccino
- 2. Tea
- 3. Milk

- 1. Semester1
 - OS
 - IP
 - DE
- 2. Semester2
 - WP
 - HTML
 - PHP
 - JS
 - MP
 - OOP
- 3. Semester3
 - DBMS
 - AM

USING LISTS AND BACKGROUNDS

```
< 0 
Coffee
 ul>
 Espresso
 Café Latte
 Cappuccino
 Tea
Milk
```

CHARACTER

Common List Style Type Attribute Values

List Style	Value	Result
Bulleted	disc	Filled circle (the default)
	circle	Unfilled circle
	square	Filled square
Numbered	decimal	1, 2, 3, 4 (the default)
	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	(nothing)

```
        Coffee
        Tea
        value="3">Milk
```

CREATING DEFINITION LISTS

```
\langle dl \rangle
 <dt>Coffee</dt>
 <dd>Black hot drink</dd>
 <dt>Milk</dt>
 <dd>White cold drink</dd>
</dl>
          19
```

INSERTING SPECIAL CHARACTERS

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Symbol	Entity Name	Entity Number
& (ampersand)	&	&
< (less than)	<	<
> (greater than)	>	>
(nonbreaking space)		
¢ (cent)	¢	¢
£ (pound)	£	£
¥ (yen)	¥	¥
© (copyright)	©	©
® (registered trademark)	®	®
° (degree)	°	°
± (plus or minus)	±	±
† (dagger)	†	†
™ (trademark)	™:	£#8482·

INSERTING HORIZONTAL LINES

<hr style="background-color: green; height: 3; width:
50%">



21

RGB (red,green,blue)
#FFFF00
Extended names

APPLYING A BACKGROUND COLOR

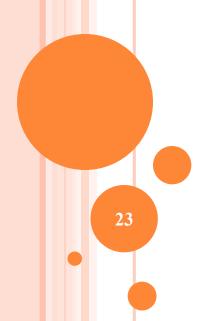
style="background-color:color"

- <body style="background-color: yellow">
- <body style="background-color: #FFFF00">
- <body style="background-color: rgb(255,255,0)">

APPLYING A FOREGROUND COLOR

style="color: color"

<body style="background-color: navy; color: yellow">



SPECIFYING A BACKGROUND IMAGE FILE

style="background-image: url(image)"

<body style="background-image: url(granite.gif); color:
green; background-color:beige">

background-repeat -- repeat-x (repeat horizontally only), repeat-y (repeat vertically only), or no-repeat.

<body style="background-image: url(granite.gif);
background-color: beige; background-attachment=fixed">

CREATING HYPERLINKS AND ANCHORS

Visit Microsoft.com for the latest information.

By default, links will appear as follows in all browsers:

An unvisited link is underlined and blue

A visited link is underlined and purple

An active link is underlined and red

<!---Setting up a hyperlink.. >

<A HREF="URL of linked document" TARGET="frame name"</p>

REL="forward_link_type" REV="reverse_link_type"

ACESSKE7 'key_letter" TABINDEX="tab_oredr_position">

---hyperlinked element goes here...

USING RELATIVE AND ABSOLUTE PATHS

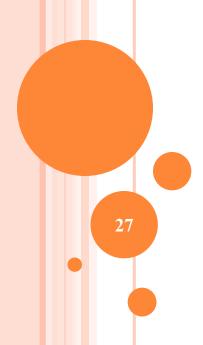
< a

href="http://www.contoso.com/gardener/images/foliage.htm">Diagnosing Foliage Problems

Diagnosing Foliage Problems

SETTING A TARGET WINDOW

Diagnosing
Foliage Problems



HYPERLINKING TO AN E-MAIL ADDRESS

- Contact Us
- Contact
 support@adatum.com>
- Contact Us

<a href="mailto:support@adatum.com" title="Please
contact us with questions or comments">
support@adatum.com>

ANCHORS

An anchor is a marker within an HTML document, roughly analogous to a bookmark in a Word document

Conclusion

View the Conclusion

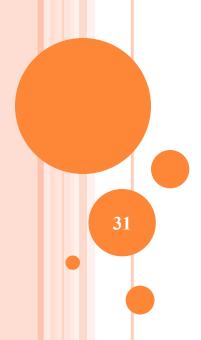
View the Conclusion

CREATING AND HYPERLINKING TO ANCHORS

```
<html><body>
<a name="equipment"><h2>Equipment</h2></a>
<a name="mixing"><h2>Mixing</h2></a>
  <a name="spraying"><h2>Spraying</h2></a>
<a name="cleanup"><h2>Cleanup</h2></a>
<a href="#equipment">Equipment</a>
<a href="#mixing">Mixing</a>
<a href="#sp&Qying">Spraying</a>
<a href='#cleanup">Cleanup</a>
</body></html>
```

HYPERLINKING TO OTHER CONTENT

Microsoft Word version



STYLE SHEETS

A *style* is a formatting rule that can be applied to an individual tag, to all instances of a certain tag within a document, or to all instances of a certain tag across a group of documents

```
<style type="text/css">
ul {
    list-style-type: square
}
</style>

OR

<style type="text/css">
ul {
    list-style-type: square
}

ol {
    list-style-type: lower-alpha
}

<style type="text/css">ul {list-style-type: lower-alpha
}

</style>
```

CONSTRUCTING STYLE RULES

```
<style>
                      <style>
                      h1, h2, h3, h4, h5, h6 {
h1 {
                      color: red
color: red;
font-size: 14px;
                      </style>
</style>
```

```
<html><head>
<style>
hr {
background-color: yellow;
height: 10px;
width: 50%;
color: red;
text-align:right;
</style></head>
<body>
Creating Styles for Nested Tags
<hr>
If you simply created a rule for the entire tag, all text to which
this tag has been applied would be formatted the same way.
</body>
</html>
```

CREATING STYLES FOR NESTED TAGS

```
<html><head>
<style>
ol{list-style-type: upper-Roman}
ol ul {list-style-type: square }
ul b {color:blue}
</style></head>
<body>
B.Sc(Information Technology)
< hr >
<0l>
Semester I
 <ul>
<h>
  <li>PCS</li>
  DM</b>
  OS
 </body>
</html>
```

B.Sc(Information Technology)

- 1. Semester I
 - PCS
 - DM
 - OS

CREATING STYLES FOR NESTED TAGS

```
<html><body>
B.Sc(Information Technology)
<hr>
<ul>
Semester I
 <ul>
 <li>PCS</li>
 li>DM
 <li>OS</li>
 Semester II
<ul>
 <li>WP</li>
 <ul>
 <li>HTML</li>
 Javascript
 <li>PHP</li>
 <li>MP</li>
 li>00P
 </body></html>
```

B.Sc(Information Technology)

- Semester I
 - PCS
 - o DM
 - o OS
- Semester Ⅱ
 - o WP
 - HTML
 - Javascript
 - PHP
 - o MP
 - OOP

CREATING STYLES FOR NESTED TAGS

```
<html><head>
<style>
ul ul ul {
list-style-type: circle
<body>
B.Sc(Information Technology)
Semester I
 <li>PCS</li>
 <li>DM</li>
 0S
 Semester II
 <li>WP</li>
 <li>HTML</li>
 Javascript
 <li>PHP</li>
 <li>MP</li>
 00P
 </body></html>
```

B.Sc(Information Technology)

- Semester I
 - PCS
 - o DM
 - o OS
- Semester Ⅱ
 - o WP
 - HTML
 - Javascript
 - o PHP
 - o MP
 - o OOP

B.Sc(Information Technology)

- Semester I
 - PCS
 - DM
 - OS
- Semester II
 - WP
 - HTML
 - Javascript
 - o PHP
 - MP
 - OOF

CREATING STYLES FOR NESTED TAGS

```
<html><head>
<style>
color: green;
background-color: green;
height: 3px;
list-style-type: square
ul ul {
list-style-type: disc
ul ul ul {
list-style-type: circle
</style></head>
<body>
B.Sc(Information Technology)
<hr>
<ul>
Semester I
```

```
<ul>
 <li>PCS</li>
 <li>DM</li>
 <li>OS</li>
 Semester II
<ul>
 <li>WP</li>
 <ul>
 <li>HTML</li>
 Javascript
 <li>PHP</li>
 <li>MP</li>
 <li>OOP</li>
 </body>
</html>
```

CREATING CLASSES AND IDS FOR APPLIING

STYLES

- •Classes and IDs mark certain elements so that you can refer to them in your style sheet
- •A class can be applied to multiple selections, whereas an ID uniquely identifies a specific selection within a document
- Spraying Techniques for Fruit Trees

```
<style>
```

.new {

color: red

{\style>

id="special">Spraying Techniques for Fruit Trees

<style>

#special {

color: red

} </style>

```
<html><head><style>
hr {color: green; background-color: green; height: 3}
.appleton {color: green}
.sampson {color: blue}
</style></head><body>
<0l>
Sampson & Company All-Natural Pesticide
Vickers and Vickers Fertilizer Sticks
Appleton Acres Big Sack of Bulbs, Tulips
Jackson and Perkins Climbing Rosebushes
Easton Create-Your-Own Paving Stones Kit
Appleton Acres Big Sack of Bulbs, Daffodils
Appleton Acres Big Sack of Bulbs, Hyacinths
Appleton Acres Big Sack of Bulbs, Crocuses
Hawthorne Hills Hosta, 3-Pack
Sampson & Company All-Natural Herbicide

</body></html>
```

APPLYING STYLES TO HYPERLINKS

- Diagnosing Foliage Problems
- A pseudo-class is a class that uses a variable to determine membership
- HTML defines pseudo-classes called *link* and *visited* for unvisited and visited hyperlinks
- <style>
 a:link {color:
- a:link {color: black}
- a:visited {color: magenta}
- </style> 42

```
<html><head><style>
a:link {color:#FF0000;} /* unvisited link */
a:visited {color:#00FF00;} /* visited link */
a:hover {color:#FF00FF;} /* mouse over link */
a:active {color:#0000FF;} /* selected link */
</style></head><body>
<b><a href="float.html" target=" blank">This is a
link</a></b>
<b>Note:</b> a:hover MUST come after a:link and a:visited in the
CSS
definition in order to be effective.Note:</b>
MUST come after a:hover in the CSS definition in order
to be effective. 
</body>
</html>
```

CREATING AND LINKING TO EXTERNAL STYLE SHEETS

- **Embedded** style sheets
- External style sheet
- Inline style information



| Stylesheet.css | Style1.html |
|---|--|
| body {color:#ff0000;} h1 {color:#00ff00;} p.ex {color:rgb(0,0,255);} a:link {color:#FF0000;} /* unvisited link */ a:visited {color:#00FF00;} /* visited link */ a:hover {color:#FF00FF;} /* mouse over link */ a:active {color:#0000FF;} /* selected link */ | <html> <head> link rel="stylesheet" type="text/css" href="stylesheet.css"/> </head> <body> <h1>This is heading 1</h1> This is an ordinary paragraph. Notice that this text is red. The default text-color for a page is defined in the body selector. This is a paragraph with class="ex". This text is blue. This is a link </body> </html> |
| | |

FORMATTING TEXT BY USING STYLE SHEETS Specifying a Font Family

- A font family is a set of fonts listed in order of preference
 - p {font-family: "Arial", "Helvetica", sans-serif}
- .copyright {font-family: "Times New Roman", "Times", serif}
- · Copyright © 2012 The Garden Company™

SPECIFYING A FONT SIZE AND COLOR

- •Two strategies to set the font size: either specify an absolute size or specify a size in relation to the parent tag
- •To specify an absolute size, you use a number followed by a unit of measurement
- •The most common unit of measurement for Web pages is px
- •HTML also accepts inches (in), centimeters (cm), millimeters(mm), points (pt), and picas (pc)
- To specify a relative size, you use a relational description: xx-small, x-small, small, medium, large, x-large, or xx-large
- ·p {font-size: 12px}
- This text is extra-small.
- An *em* is a multiplier of the base font; for example, 2 em is two times the base size, or 200%.

SPECIFYING A FONT SIZE AND COLOR

h1 {font-size: 2em} | This text is twice the base size. To specify a font color, use the *color* attribute p {color: blue} style="color: blue">This is blue text. The *color* attribute refers only to the text within the tag in which it is applied. p {background-color: yellow} style="background-color: yellow">This text has a yellow background.

APPLYING BOLD AND ITALICS

- .boldface \{font-weight: bold\} p {font-weight: bold} This text is bold. One of the advantages of using a style for bold formatting instead of the $\langle b \rangle$ tag is that you can control the intensity of the effect Can specify bolder, lighter, or a numeric value from 100 (the lightest) to 900 (the darkest) to indicate the amount of bold formatting p {font-style: italic} This paragraph is not italicized. ol {list-style-type: decimal; font-weight: bold}
- ul ul {font<mark>-styl</mark>e: italic}

APPLYING STRIKETHROUGH AND UNDERLINING

- List price: \$24.00 <ins>Now only \$9.99</ins>
- Text-decoration attribute attribute accepts several keywords
 - underline
 - overline (line over the text)
 - !ine-through (strikethrough)
 - blink (flashing text)
 - none (removes all inherited decoration)
- style="text-decoration: underline">This looks clickable, but isn't.
- style="text-decoration: line-through">This is struck-through.
- style="text50lecoration: blink">Congratulations, you win!
- $\circ OR$
- .underlined {text-decoration: underline}

CREATING INLINE SPANS

- A span is a shell into which you can place any attributes you need
- I had a greattime.
- Deciduous
- •vocabulary {font-style: italic}

CREATING INLINE SPANS

```
Eg
<01>
<span class="company">Sampson & Company
</span>All-NaturalPesticide
<\li><span class="company">Vickers and Vickers
</span>FertilizerSticks
<span class="company">Appleton Acres </span>Big Sack of
Bulbs, Tulips 
<\li>\span class="company">Jackson and Perkins
</span>ClimbingRosebushes
```

.company {font-style: italic; font-weight: bold; color: red}

LETTERS

This text has increased letter
spacing.

OR

p {letter-spacing: 4px}

Eg: <style>

h1, h2, p {word-spacing: 1px; letter-spacing: 1px}

</style>

h1, h2, p {word-spacing: 0.5px; letter-spacing: 0.5px}

FORMATTING PARAGRAPHS BY USING STYLE SHEETS

Indenting Paragraphs

Indenting is the process of setting text from its usual position, either to the right or to the left

Three types of indentation

- **Padding**
- *Margin

SHEETS

First-line indent

- \Box
- $\square p \{ text-indent: 20px \}$

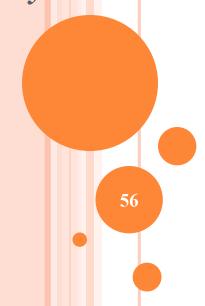
Padding

- This adds a specified amount of space between the border of an element and its contents (*inside* of the element).
- □ It applies equally to all lines of text in the paragraph
- \Box
- $\square p \{padding: 20px\}$

Margin

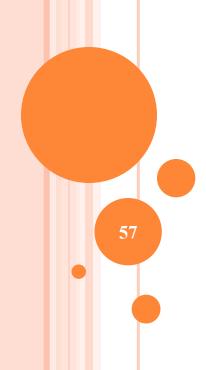
- This adds a specified amount of white space around an element, on the *outside* of the element
- ☐ It applies equally to all lines of text in the paragraph
- \Box
- $\square p \{ margin: 20px \}$

SHEETS



SPECIFYING A BORDER STYLE

p {border-style: solid}

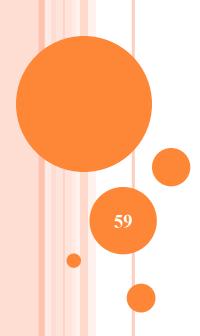


| Argument | Example |
|----------|---|
| solid | Clean the tank, sprayer, and all protective gear with clean water. Use soap on your protective gear and rinse with running water, and then allow them to air-dry. |
| dotted | clean the tank, sprayer, and all protective gear with clean water. Use soap on your protective gear and rinse with running water, and then allow them to air-dry. |
| dashed | Clean the tank, sprayer, and all protective gear with clean water. Use soap on your protective gear and rinse with running water, and then allow them to air-dry. |
| double | Clean the tank, sprayer, and all protective gear with clean water. Use soap on your protective gear and rinse with running water, and then allow them to air-dry. |
| groove | Clean the tank, sprayer, and all protective gear with clean water. Use soap on your protective gear and rinse with running water, and then allow them to air-dry. |
| ridge | Clean the tank, sprayer, and all protective gear with clean water. Use soap on your protective gear and rinse with running water, and then allow them to air-dry. |

| inset | Clean the tank, sprayer, and all protective gear with clean water. Use soap on your protective gear and rinse with running water, and then allow them to air-dry. |
|--------|---|
| outset | Clean the tank, sprayer, and all protective gear with clean water. Use soap on your protective gear and rinse with running water, and then allow them to air-dry. |
| none | Clean the tank, sprayer, and all protective gear with clean water. Use soap on your protective gear and rinse with running water, and then allow then to air-dry. |

SETTING BORDER PADDING

p {border-style: solid; padding: 15px}



COLOR

60

p {border-style: solid; border-width: 2px; border-color:
blue}

INDIVIDUALLY

p {border-style: solid; border-top-color: blue}

INDIVIDUALLY

top, right, bottom, left

Specifying two arguments sets the top and bottom border attributes, while specifying three arguments sets the top, bottom, and left/right (same settings for both) border attributes⁶²

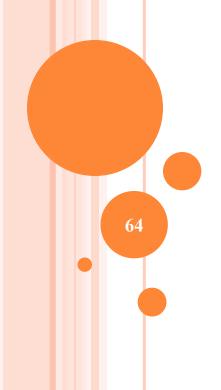
ONCE

not work

```
Eg:
```

PARAGRAPH

p {text-indent: 20px; padding-left: 20px; text-indent: 20px; text-align:justify}



SPECIFYING VERTICAL SPACE WITHIN A PARAGRAP

p {line-height: 150%}