### HTML

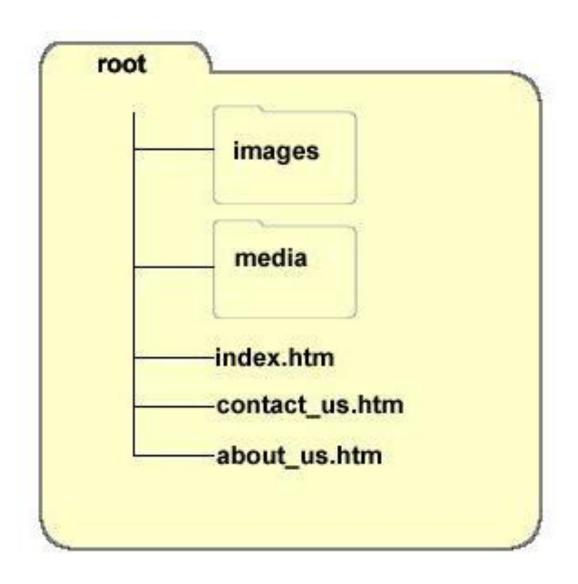
# Web Tabanlı Windows Programlama

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#### HTML

- HTML (Hyper-Text Markup Language) and XHTML (Extensible HTML) are composed of tags, i.e. commands in angle-brackets (< >).
- HTML tags are case-insensitive, that is, it doesn't matter whether you type them in upper or lower case.
- Static (html) vs. dynamic (ASP, JSP, etc...)
- However, in XHTML tags need to be lower case, so it is a good idea to get into the habit of always using lower case.

### **Directory Structure**



### Tags

#### <tag> ... </tag>

- The <tag> indicates the beginning of a tag-pair, and the </tag> indicates the end. (The three dots indicate an arbitrary amount of content between the tags.)
- These pairs define containers. Any content within a container has the rules of that container applied to it.
- For example, the text within a "boldface container" would be boldfaced.
- Similarly, paragraphs are defined using a "paragraph container."

### Tags

- Thinking of tag-sets as containers will help in another way: it will help you remember that tags should always be balanced.
- In other words, you should keep containers nested within each other, just as you would have to do in the real world.
- HTML does not enforce this, but XHTML does.
   <P><B><|>bold italic</|>></P></P>

### Tags

- Some commands do not consist of a begin and end tag, but just of a single tag.
- In XHTML, there is a special notation for single tags, with the "/" behind the command name: <tag/>

#### !DOCTYPE

 The first tag in an HTML document is the "!DOCTYPE" tag. It looks like this (or similar):

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"

"http://www.w3.org/TR/html4/strict.dtd">
```

 This says that the document is written in HTML, version 4.01, and that all requirements of HTML 4.01 are strictly adhered to.

#### HTML Document

- The "body" contains the actual content of your web page.
- The "head" contains all of the document's header information like the web document's title and information about the document itself.
- This is an important point for search engines.

```
<html>
  <head>
  </head>
  <body>
  </body>
</html>
```

### Paragraphs and line breaks

 To create an empty line between two blocks of text, you need to label those text blocks (or paragraphs) with the paragraph marker "p".

This Code	Would Display
IIIno nroakskihns	This is a para graph with line breaks

### Paragraphs and line breaks

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"</pre>
        "http://www.w3.org/TR/html4/strict.dtd">
<html>
  <head>
    <title>This is my very first HTML document</title>
    <meta http-equiv="content-type" content="text/html;</pre>
      charset=IS0-8859-1">
  </head>
  <body>
      Here is where the actual content of the page goes.
     Note that it does not matter where I start a new line...
     or wether I leave space between two lines. 
  </body>
</html>
```

#### HTML Elements

- Physical Markup (<b>, <i>, ...)
- Logical Markup (<strong>, <em>, ...)

#### HTML Elements

```
<b>This text is bold</b> <br>
<strong> This text is strong </strong> <br>
<i>This text is italic</i> <br>
<em>This text is emphasized</em>

An example for subscript: H<sub>2</sub>0 <br>
An example for superscript: x<sup>2</sup>
```

This text is bold This text is strong This text is italic This text is emphasized

An example for subscript: H<sub>2</sub>O An example for superscript: x<sup>2</sup>

#### HTML Elements

• While "b" (for "bold") and "i" (for "italics") are physical markups (they prescribe the look of the text), the markups "strong" and "em" (for "emphasized") are logical markups, i.e. they rather describe the idea behind the look.

#### **Comments in HTML**

This Code	Would Display
is a comment> be displayed like	This HTML comment would be displayed like this.

### Headings

 HTML automatically adds an extra blank line before and after a heading.

```
<h1>This is a heading</h1>
```

<h2>This is a heading</h2>

<h3>This is a heading</h3>

<h4>This is a heading</h4>

<h5>This is a heading</h5>

<h6> This is a heading</h6>

### Special characters

- Certain characters, such as the anglebrackets (< >), the ampersand (&) and others are reserved by HTML to represent special things.
- Commands for special characters consist of three parts:
  - a leading ampersand character, (&),
  - the name of the entity (in ascii characters)
  - a terminating semicolon (;).

<	<b>&amp;It</b> (for "lower than")
>	<b>&gt;</b> (for "greater than")
&	& (for "ampersand")
ä	ä (for "a umlaut")
ö, ü	ö ü
	Ä Ö Ü
€	€
©	©

## Non-breaking Space

This Code	Would Display		
This code would appear as this.	This code would appear as this.		

This Code	Would Display		
This code       would	This code would appear with three extra		
appear with three extra spaces.	spaces.		

### Formatting text with Attributes

```
 a centered paragraph 
 a paragraph aligned right
```

 This particular attribute "style" is our first example of CSS (Cascading Style Sheets) technology. Style sheets allow you to specify the presentation (look) or your text.

### Changing fonts

```
Pretty large text
Pretty small text
```

```
 This text is in normal size. Now,
<span style="font-size:250%">this is large</span> and now we go
back to normal size.
```

```
<span style="font-family:Arial,Verdana,Helvetica">nice
font...</span>
```

#### Colors

<span style="color:red">red text</span>

```
W0W! This is pink
This is pink, too!
```

Color	Color HEX	Color RGB
	#000000	rgb(0,0,0)
	#FF0000	rgb(255,0,0)
	#00FF00	rgb(0,255,0)
	#0000FF	rgb(0,0,255)
	#FFFF00	rgb(255,255,0)
	#00FFFF	rgb(0,255,255)
	#FF00FF	rgb(255,0,255)
	#C0C0C0	rgb(192,192,192)
	#FFFFFF	rgb(255,255,255)

### **Images**

 Generally speaking, JPEG is best for photographs and other smoothly varying images, while GIF and PNG are good for graphics art involving flat areas of color, lines and text.

<img src="tux.gif" width="200" height="150">

### Hyperlinks

- HTML uses the <a> anchor tag to create a link to another document or web page.
- The Anchor Tag and the Href Attribute :

This Code	Would Display	
<a href="http://www.austincc.edu/">Visit ACC!</a>	Visit ACC!	

<a href=http://www.austincc.edu/ target="\_blank">Visit ACC!</a>

#### Lists

#### Ordered vs. Unordered Lists

This Code	Would Display
<ul><li>Coffee</li><li>Milk</li></ul>	<ul><li>Coffee</li><li>Milk</li></ul>

This Code	Would Display		
<pre><ol> <li>Coffee</li> <li>Milk</li> </ol></pre>	1. Coffee 2. Milk		

#### **Tables**

- Tables are defined with the tag. A
   table is divided into rows (with the 
   for "table rows"), and each row is divided
   into data cells (with the tag for "table
   data").
- A data cell can contain text, images, lists, paragraphs, forms, tables, etc.

#### **Tables**

```
row 1, cell 1
td>row 1, cell 2

row 2, cell 1

row 2, cell 2
```

How it looks in a browser:

row 1,	cell	1	row	1,	cell	2
row 2,	cell	1	row	2,	cell	2

#### Links

- http://www.w3schools.com/html/html\_basic.asp
- http://www.htmldog.com/guides/html/beginner/
- http://www.codecademy.com/tracks/web