Information Management Resource Kit

Module on Digitization and Digital Libraries

UNIT 2. ELECTRONIC DOCUMENTS AND FORMAT

LESSON 4. PRESENTATIONAL MARK-UP: HTML

NOTE

Please note that this PDF version does not have the interactive features offered through the IMARK courseware such as exercises with feedback, pop-ups, animations etc.

We recommend that you take the lesson using the interactive courseware environment, and use the PDF version for printing the lesson and to use as a reference after you have completed the course.







Forest Products Trade - Microsoft Internet Explorer	
Here Eak Here Here <th< td=""><td></td></th<>	
Address 🗃 http://www.fao.org/forestry/fop/foph/trade/Publ-e 💌 🔗 Go	HTML contains information that defines:
Publications MARKETS FOR HIGH-VALUE TROPICAL HARDWOODS IN E FAO commissioned this present study on "Markets for High-Valu Europe". As the title indicates, it focuses on the important high- this report continues FAO's efforts to provide market information building an effective trade INTERNATIONAL TRADE IMPLICATIONS OF ASIA-PACIFIC GAINS AND WHO LOSES?	 basic presentation of a document (headers, paragraphs, lists and tables), hyperlinks, and multimedia information.
Paper presented to the Asia-Pacific Forestry Commission Policy Removing Natural Forests from Timber Production as a Strategy Nocsaville, Queensland, Australia 13 May 2000. EVALUATION DES ÉCHANGES DES PRODUTS FORESTIER L'AERLOUE SUBSAHARIENNE ET L'EUROPE. 2000. TRADE RESTRICTIONS AND INTERNATIONAL TRADE IN FC 2000. (UPDATED)	Using HTML, you have the basic mark- up to create the documents you want to publish on the Web.

hat do y	ou need?	
	File Edit Format Help	What do you need to create an HTML document?
		Simple HTML documents can be created easily using any text editor
File name:	Storyboard lesson 2.3.ppt	There are also many HTML authoring packages available for creating more complex pages or complete web sites.
Save as type:		Many applications and software packages can also generate HTML documents, either using a ' Save As HTML ' feature or by exporting information as HTML.

low to create	e an HTML document	
 <body></body>		Let's now consider a simple text editor, such as Notepad. It can be used to write the conter in HTML, which makes it very eas to visualize the content in a web page. You just have to: • select Save As from the File menu, and • select All files from the Save a type drop down list and name th file using the HTML format: e.g.
File name: Save as type:	my.html	"my.html".



How to do - Basics	
TAG Untitled - Notepad File Edit Format Help	Considering the same example, you can see that the mark-up in an HTML document consists of tags which are delimited by opening and closing angle brackets < >.
<pre></pre>	Tags represent elements in the documer that will be displayed in a web browser.
Simple HIML page <body> This is a very simple HTML page </body>	The name of the element appears in the start tag and in the matching end tag, where it has an additional forward slash '/' in front of it.
START TAG OF THE BODY ELEMENT	Attention should be given to the tag nesting : for example, the tag is before the tag , as the TITLE element is contained in the HEAD

VIntitled - Notepad is Edit Format Help HTML> HTML> HTML> HEAD> TITLE> Simple HTML page BODY> P> /BODY> HTML> HTML> HEAD> BODY> P> /BODY> HTML> P> /BoDY> P> /BoDY> HTML> HTML> HTML> P> /Bease click on the answer of your choice

How to do - Basics

As you can see in the example, another piece has been added at the very top: the **document type declaration (DTD)**. This displays nothing on screen, it tells the browser what version of HTML you are writing in. More specifically, **<!DOCTYPE ...>** declares that this document conforms to a specific

version of HTML, and specifies what version that is.

my.html.txt - Notepad

File Edit Format Help

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">

<HTML>
<HEAD> <TITLE>Simple HTML page</TITLE>
</HEAD>
<BODY>
<BODY>
</BODY>
</HTML>
<

DTD is not a requirement, but it should be included at the top of every web document to be consistent with standards published by W3C (the World Wide Web Consortium). On the W3C website you can find information on:

how to write the document type declaration

low to do - Basics		
		is not displayed in the main text of the porder of the browser window. The
<body> element con n the main web brow</body>		he HTML document, which is displayed
🌌 Untitled - Notepad		🖉 Simple HTML page - Microsoft Int 💶 🗵 🗙
File Edit Format Help		File Edit View Favorites Tools >>
<html> <head></head></html>	*	$ = Back \to \to \bullet \otimes \textcircled{a} \land \bigcirc \bigcirc Search \to \bullet \bullet $
<title> Simple HT</td><td>TML page </title>	Address 🖉 C:\Documents and Setting: 💌 🔗 Go	
 <body></body>		This is a very simple HTML page
<p> This is a ver</p>	ry simple HTML page	
		×
	v	🙆 Done 🛛 📃 My Computer 🏼 🎢

		1
🛃 my.html - Notepad File Edit Format Help	Simple HTML page - Microsoft Intern	
<html></html>		ITML mark-up is used to lay
<head></head>	Address and Chineselen Dealtheather hand	t in the <body> of the</body>
<title> Simple HTML page <
</HEAD></td><td></td><td>ith headers, paragraphs</td></tr><tr><td><BODY></td><td>What is THML?</td><td>t and some simple
Itting of text within</td></tr><tr><th><H1>what is THML?</H1>
<H2>Heading at level 2</H2
<H3>Heading at level 3</H3</th><th></th><th>aphs.</th></tr><tr><td><H4>Heading at level 4</H4</td><td></td><td>are six levels of heading</td></tr><tr><td><H5>Heading at level 5</H5
<H6>Heading at level 6</H6</td><td></td><td>d by the mark-up <H1> to
. The text (title) to appear ir</td></tr><tr><td><P> This is a very simple
</P></td><td>Heading at level 4</td><td>ader is placed between the</td></tr><tr><td></P>
<P> Each paragraph has spa
belowe it and can</td><td>Heading at level 5</td><td>g and closing tags of the</td></tr><tr><td>contain tags to add style
for example to make it</td><td>Heading at level 6</td><td></td></tr><tr><td>appear <l>italic</l> or <E
</BODY></td><td>This is a very simple HTML page</td><td>ample also shows the use of</td></tr><tr><td></HTML></td><td>Each paragraph has space above and belowe it</td><td>hd tags to make the</td></tr><tr><td></td><td>and can contain tags to add style to the text, for -</td><td>r render text in <i>italic</i> or</td></tr><tr><td></td><td>example to make it appear <i>italic</i> or bold</td><td>ypeface.</td></tr></tbody></table></title>		

	The two most common types of lists
🖾 list.html - Notepad 📃 🗾 🗙	🖉 HTML Lists - Microsoft Internet Exp 💶 🗖
File Edit Format Help	File Edit View Favorites Tools >>
<html> <head> <title> HTML Lists</title></head></html>	Address 🖉 C:\Documents and Settings\ 💌 🔗 G
 <bodv> <p>This is an unordered list</p></bodv>	This is an unordered list
<pre> First item of an unordered list Second item of an unordered list Third item of an unordered list</pre>	 First item of an unordered list Second item of an unordered list Third item of an unordered list
	Done 📃 🦳 My Computer
 	formatting and layout elements available in HTML, including other lists.

How to do – Li	sts	
State of the second sec		In this example the second item of the unordered list
<title> HTML L'
</HEAD>
<BODY></td><td></td><td>contains an ordered list.</td></tr><tr><td><pre><P>This is an
 First ite
list
 First ite
list
 Second it
list
 Second it
list
Item 1</LI
Item 3</LI
</DL>

</td><td> HTML Lists - Microsoft Internet Exp</td><td>ORDERED LISTS
They are denoted by the
 element.
The ordered list can contain
as many or as few items as
we like. When an ordered
list is displayed in the
browser, each item is laid
out prefixed with a number
that shows its position in
the list.
Roman numbers are used</td></tr><tr><td>ſ</td><td>Third item of an unordered list</td><td>by default, but we can alter
the style of the numbering.</td></tr></tbody></table></title>		

	o – Lists	
		My HTML - Microsoft Internet Explorer
Can you (complete the HTML code for this page?	File Edit View Favorites Tools Help ↓ ← Back × → × ③ ④ ▲ ▲ ⊗ Search
	HTML code by typing the correct chara	
ne empty	fields. Then click on the Confirm buttor	7. HTML contains information that define:
		1. basic presentation of a document,
<html></html>	<head><>My HTML</head>	2. hyperlinks, and 3. <i>multimedia</i> information
	<pre><head><>My HIME <body> <>What is HTML?</body></head></pre>	
	<body></body>	
	<body> <>What is HTML? <p>HTML contains <->informat <></p></body>	tion - that defines:
	<body> <>What is HTML? <p>HTML contains <->informat <> basic presentat hyperlinks, and <->multimedia</p></body>	tion - that defines:
	<body> <>What is HTML? <p>HTML contains <->informat <> basic presentat hyperlinks, and</p></body>	tion - that defines:
	<body> <>What is HTML? <p>HTML contains <->informat <> basic presentat hyperlinks, and <->multimedia</p></body>	tion - that defines:

o do – Tables				
			ows, and borders of spe	ecific width
we create this	table in HTML	?		
HTML Tables - N	dicrosoft Internet E	xplorer		
<u>Eile E</u> dit ⊻iew	F <u>a</u> vorites <u>I</u> ools j	Help		1
			Г	
Column One	Column Two	Column Three	Column Four	
Column One,	Column Two,	Column Three,	Culture Free Deer Ore	1
Row One	Row One	Row One	Column Four, Row One	
Column One,	Column Two, R	low Two.		1
Row Two	Spanning colum	ns two and three	Column Four, Row Two.	
Column One,	Column Two,	Column Three,	Spanning Rows Two and Three	
Row Three	Row Three	Row Three		
				197



How to do – Tables

The <TABLE> element can contain a header, a body and a footer. These are denoted by the elements <**THEAD**>, <**TBODY**> and <**TFOOT**>. Our example uses the <THEAD> and <TBODY> tags.

Column One	Column Two	Column Three	Column Four	HEADER
Column One, Row One	Column Two, Row One	Column Three, Row One	Column Four, Row One	BODY
Column One, Row Two	Column Two, Row Two. Spanning columns two and three		Column Four, Row Two.	
Column One, Row Three	Column Two, Row Three	Column Three, Row Three	Spanning Rows Two and Three	

If we wanted to include information at the foot of our table (information which was repeated even when the table broke across multiple pages when printed) we could use a <TFOOT> element as well.

Now, let's look at the HTML code of our table.		- Microsoft Internet E • Fgyostes <u>T</u> ools]	-	E	
	Column Or	e Column Two	Column Three	Column Four	
	Column One Row One	e, Column Two, Row One	Column Three, Row One	Column Four, Row One	
<pre><head><title>HTML Tables</title></head> <body> <table border="2" cellpadding="5" cellspacing="2" rules="ALL"></table></body></pre>	Column One Row Two		low Two. ns two and three	Column Four, Row Two. Spanning Rows Two and	
<thead> <tr>CTH>Column One</tr></thead>	Column Three	Column One Row Three		Column Three, Row Three	Three
<pre></pre> <pre><</pre>		attribute number the cell t two). The valu attribute	e tells the of colu to span (e of the on <td the nun</td 	COLSPAN browser the mns we war in our case, ROWSPAN >> tells the ber of row to span.	

How to do – Tables	🖉 HTML Tables -	Microsoft Intern	et Explor 🔳
Can you complete the HTML code for this table?	1	w Favorites To	
Complete the HTML code by typing the correct	Column One	Column Two	Column Three
characters in the empty fields. Then, click on the Confirm button.	Column One, Row One	Two, Row	Column Three, Row One
<html> <head><title>HTML Tables</title></head> <body> <table border="2" cellpadding="5" cellspacing="2" rules="ALL"></table></body></html>	Column One, Row Two	Column Two, Spanning colur three	
<pre></pre>			
<td>Column One, Row Two</td> <td>Column One, Row Two</td> TD COLSPAN="2">Column, Row Spanning Columns Th	Column One, Row Two	Column One, Row Two	

 | | |

How to do – Hyperlinks An important feature of HTML and web browsers	s is the ability to navigate information using
one or more target locations, either in document. In a typical hypertext syst	tem, the source of the hyperlink is n, where a user can click to move to the
Instants of waters features (features (fe	In this example, "World Wide Web Consortium" is the text displayed in the browser as a link that can be clicked on with your mouse.
World Wide Web Consortium	By clicking on this link, you will have access to the home page of the World Wide Web Consortium web site.

How to do – Hyperlinks	
To define hyperlinks with and between docun Actually, the <a> element is used in two diff hyperlink and as the anchor point in a docu Let's have a look at these examples:	erent roles: both as the starting point of a
<pre> text</pre>	When we click on the link the browser uses the value of the HREF attribute to find the target of the link.

<h1> text</h1> Here we have put <a> elements inside each of the <h1> tags so our text can be the target of a hyperlink. The NAME attribute is used to define an identifier for the anchor. It's important to make the value of each NAME attribute unique in your</h1>	Ном	to do – Hyperlinks	٦	
Here we have put <a> elements inside each of the <h1> tags so our text can be the target of a hyperlink. The NAME attribute is used to define an identifier for the anchor. It's important to make the value of each NAME attribute unique in your document, otherwise the browser won't know which anchor is being referenced.</h1>	11010			
Here the value '#S2' indicates that the link points to an anchor in the same document (that's what the # means) with the value 'S2' for its NAME attribute. When we click on the link in the browser, the window scrolls to the position of the target anchor (in our				
target of a hyperlink. The NAME attribute is used to define an identifier for the anchor. It's important to make the value of each NAME attribute unique in your document, otherwise the browser won't know which anchor is being referenced. A HREF = "#S2" > text < /A > Here the value '#S2' indicates that the link points to an anchor in the same document (that's what the # means) with the value 'S2' for its NAME attribute. When we click on the link in the browser, the window scrolls to the position of the target anchor (in our	<h1></h1>	 text		
Here the value '#S2' indicates that the link points to an anchor in the same document (that's what the # means) with the value 'S2' for its NAME attribute. When we click on the link in the browser, the window scrolls to the position of the target anchor (in our	targe ancho	t of a hyperlink. The NA or. It's important to make	AME attribute is e the value of e	used to define an identifier for the ach NAME attribute unique in your
(that's what the $\#$ means) with the value 'S2' for its NAME attribute. When we click on the link in the browser, the window scrolls to the position of the target anchor (in our		 te	xt	L
onampio, the header theat that ap /	(that link ii	s what the # means) wit in the browser, the windo	th the value 'S2 w scrolls to the	' for its NAME attribute. When we click on t

How to do – Hyperlinks

In this web page, for example, the <A> element is used both as the **starting point** of a hyperlink and as the **anchor point** :





File View Play Favorites Go Help	The <a> element, used for hyperlinks, can also be used to
Multimedia HTML - Microsoft Internet Exercise le Edt Yew Favorites Tools Help the United Nations Food and Agr Show. Class Cl	link to multimedia content . In our example, the HREF attribute contains the URL of the file containing the clip, and the TYPE attribute tells the browser the MIME type of the content.
Copyright: Playing 00 11 / 00.23 4: No hear a short musical piece to relax you prior to your tour of the FAO, <u>click here</u>	The figure shows what happens when the document is loaded in a web browser and we click on the hyperlink to the audio clip. The browser launches Windows Media
<pre>click here Music.wav</pre>	Player, an application which can play the audio clip for us.

 HTML is an acronym for Hypertext Markup Language. It is a language that can be transferred around the Internet and read by any Web Browser. Simple HTML documents can easily be created using any text editor. All content is defined by the markup "tags" of HTML which are containers for whatever you put in the document. Using HTML, you can define the basic presentation of a document (headers, paragraphs, lists and tables), hyperlinks and multimedia information. 	Summary	
	 language that can be transferred around the Internet and read by any Web Browser. Simple HTML documents can easily be created using any text editor. All content is defined by the markup "tags" of HTML which are containers for whatever you put in the document. Using HTML, you can define the basic presentation of a document (headers, paragraphs, lists and tables), hyperlinks and 	



cercise			
ow it's vour t	urn to create	this HTML page! Click on	the (!) icon for help, if needed.
Exercise - Microsoft Inl		×	•
File Edit View Favor		**	
HTML		-	
For more information			
standards, visit the site	of the World Wide		
	110100 11100		
Web Consortium			
Web Consortium			
Web Consortium	Column Two		
Web Consortium TABLE This is a <i>simple table</i> :	Column Two		
Web Consortium TABLE This is a <i>simple table</i> :			
Web Consortium TABLE This is a simple table: Column One	Column Two Column Two, Row One		
Web Consortium TABLE This is a <i>simple table</i> :	Column Two Column Two,	Write the F	

If you want to know more ...

Online Resources:

The full list of recognized content types defined by MIME, available from the IETF website: (http://www.ietf.org/rfc/rfc2046.txt)

W3Schools Online Web Tutorials: (http://www.w3schools.com)

World Wide Web Consortium Open information standards for the Web: (http://www.w3.org)

W3C 10 Minutes Introduction to HTML: (http://www.w3.org/MarkUp/Guide)

Additional Reading:

Raggett, D., Lam, J., Alexander, I & Kmiec, M. 1998. Raggett on HTML 4 (2nd edition). Published by Addison Wesley Professional. ISBN 0-201-17805-2.

Boumphrey, F., Raggett, D., Raggett, J., Wugofski, T., Greer, C. & Schnitzenbaumer, S. 2000. Beginning XHTML. Published by Wrox Press. ISBN 1-861003-43-9.

