Information Management Resource Kit

Module on Management of Electronic Documents

UNIT 2. FORMATS FOR ELECTRONIC DOCUMENTS AND IMAGES

LESSON 1. TYPES OF MARK-UP: INTRODUCTION

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.



Objectives

At the end of this lesson, you will able to:

understand the purpose of mark-up, and
distinguish between different kinds of mark-up.







Why we need Mark-up	
	Mark-up originally referred to the hand- written notations that a designer would add to typewritten text. These notations contained instructions to a typesetter about how to lay out the copy and what typeface to use.

/hy we need Mark-up	
File Edit View Favorites Tools > Address Address Image: http://www.fao.org/ Image: Color Color	Today, almost every electronic document that we use contains two types of
FOOD AND AGRICULTURE	information:
من الله الله الله الله الله الله الله الل	 the text content of the document itself, and
What is FAO? From the Director-General Glob: area,	• a set of codes that provides information on how to display or interpret the text.
Economics & Nutrition warm Fisheries 17 cr Farmetru s www.fao[1] - Notepad	These additional codes that are contained in the electronic file are the mark-up .
<pre>swww.addlij=Notepadlix file Edit Format Help cathref="http://www.fao.org/ag/ cathref="http://www.fao.org/ag/ L">>Anref="http://www.fao.org/ag/ L">></pre>	Mark-up is everything in a document that is not content.

Types of Mark-u	-p
There are three	types of mark-up codes that can be used in an electronic document:
and the second	Procedural mark-up consists of codes that contain information on how a specific application should process the document.
www	Presentational mark-up consists of codes that describe how the document should be presented or laid out, either on a computer screen or on a printed page.
	Descriptive mark-up consists of codes that describe the logical structure and semantics of a document, usually in a way that can be interpreted by many different software applications.
Now, let's	have a look at the different characteristics of each kind of mark-up

Procedural Mark-up	
Most electronic publishing systems today, such as wo publishing software, use procedural mark-up .	rd processing software and desktop
Procedural mark-up refers to the spinto electronic text files prior to the interpretation by output devices.	pecial control characters that are inserted ir submission and subsequent
"Choose option one or two." " Choose option one \FB or \fR two."	Different codes are attached to section headings, paragraphs of body text, references and even individual characters and words so that each is set in an appropriate type style, size and line spacing.
Print the following characters in Times Bold	On the left you have two examples of commands used to determine font style.

Procedu	ıral Mark-up
rioccu	
	aral mark-up usually takes the form of formatting codes that are mixed in with the the document.
Can you	u identify, in the following example, which is the text content of the document?
	{\pgdsc0\pgdscuse195\pgwsxn11905\pghsxn16037\marg1sxn1800\margrsxn1800\margtsxn1440\m \paperh16837\paperw11905\marg11800\margt1800\margt1440\margb1440\sectd\shknone\pgwsxn \pard\plain \s1\f2{\b Issue 51}\tab \tab \tab \tab \tab \tab \tab \tab
	Type the text in the box.
	Then, click on View Answer.

rocedural Mark-up	
🖾 bandolier.doc - Microsoft Word	
Eile Edit View Insert Format Tools Table	
Window Help ×	Generally speaking, procedural mark-up
🗋 🖻 🚔 🔚 🎒 🋍 🗠 • ¶ 🕭 50% • 🐥	formats are designed (and owned) by
	vendors of specific software products,
Issue Sl January 1994	and the best application to process
	documents in that format is the one that th
BANDOLIER	mark-up was designed for.
Editorial	One of the most popular procedural formats
Bandolier this month has several interesting articles on the	is Microsoft Word
subject of pain.	
Oxford Pain Internet Site This month, on July 14th, Bandolier is opening the Oxford Pain	Procedural mark-up codes apply to a single
Internet Site. The context is different from the usual Bandoliar story which gives a view on a systematic neview ortrial. Instead	way of presenting the information, such as
the site provides formal summaries of systematic reviews 👘	printed page, and provide no capability to
looking at pain outcomes. Each pages has a clinical bottom line at the top, followed by a commentary taking about five minutes	define appearance for other media, such as
to nead if you want more information. There are MMTs and *	CD-ROM and Internet.
Page 1 Sec 1 1/8 At 14cm Ln 16 Col	

Presentational Mark-up	
Presentational mark-up codes apply to different way	ys of presenting the information.
either on a computer screen or on a	es graphics, layout and page control features, a printed page. of presentational mark-up is HTML (Hyper
<pre>Floed and Agriculture Organization of the United Not File Edit Address File Edit Format Help File Edit F</pre>	HTML is used to mark-up pages for presentation in a web browser . In this example, the HTML source describes the position of the FAO logo on the web page. Unlike many procedural mark-up languages, HTML is an open standard, (not a proprietary format owned by a single software vendor), published by the World Wide Web Consortium.

			_
(-un	Mark	ional	Presentat
(-up	wark	ionai	Presentat

The HTML mark-up provides a standard way of specifying how the document will be presented in a web browser; when you select "**Source**" from the "View" menu in Internet Explorer, you can see the HTML description of the web page displayed.

HTML mark-up is in **angle brackets** < > and specifies headers, paragraphs, bold text, lists, tables, etc. Exactly how each of these elements is displayed depends on the browser used to view the document.

🗾 www.fao[1] - Notepad	
File Edit Format Help	
align="center"> <img <="" src="img/faologo.gif" td=""/> <td></td>	
<pre>"rowspan="3" width="1%"><img <="" src="img/faologo.gif" td=""/>border="0" alt="faologo"> FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS</pre>	′p> 💌

HTML mark-up codes are 'clear text' that can be read by almost any text processing software and are easily distinguished from the text content of the document.

Descriptive Mark-up	
HTML marks up how the document content is pre- the content: if we want to capture that informatic	
	at describe the layout or presentation of -up contains codes that define a logical ,
<pre>- <issue> - <header></header></issue></pre>	The illustration shows a document where elements are marked up as issue-number, volume, editorial, article, etc. These are all logical elements in the document structure, rather than instructions about how those elements should be presented or processed. Since no directions about formatting are included, the interpretation of the mark- up tags occurs entirely within the





KML	
ML allows people and organizations to c dapted to their needs and to the type of	reate their own mark-up languages specifically information produced.
	ries for their own applications, in practice we with other people who have a common o in them.
gettyimages *	The set of names used to tag the elements in an XML application is often referred to as an XML Vocabulary.
	Experts have already created specific vocabularies for applications , such as mathematics or vector graphics.
TAP	They have also created vocabularies for market-specific information types such as equities research or aircraft maintenance.

XML vocabularies have been created and agreed upon by organizations that want to share information in specific vertical industries (such as publishing, electronics, financial services, aerospace, etc). Examples include the Docbook standard for technical publishers, the Business Reporting Markup Language (BRML) and the AECMA series of XML standards for the aerospace industry (http://www.aecma.org). XML standards for business and e-commerce are being developed in the ebXML initiative (www.ebxml.org) and the Universal Business Language (UBL). XML vocabularies have also been agreed upon for specific types of
application. For example, the next generation of HTML has been defined using an XML vocabulary (xhtml). Other examples are the Mathematical Markup Language (MathML), the Scalable Vector Graphics language (SVG) and the Chemical Mark-up Language (CML).



Literally thousands of XML vocabularies have been defined.

Some of the most important application vocabularies come from the World Wide Web Consortium, and an increasing number of vertical market vocabularies are being agreed upon using the standards process of OASIS – the Organisation for the Advancement of Structured Information Standards (www.oasis-open.org).

The figure shows a page from Robin Cover, which lists many of the vocabularies that have been defined since 1998.

You can access this list at: <u>xml.coverpages.org</u>



Exercises
The following four exercises will allow you to test your understanding of the concepts covered in the lesson and provide you with feedback.
Good luck!



Exercise 1
In an electronic document, procedural mark-up is:
\bigcirc the text content of the document
$^{\bigcirc}$ a set of formatting codes
\bigcirc the description of the logical structure of a document
Click on your answer

Exercise 2		
Which of the following is an example	e of de	scriptive mark-up?
<pre>IDOCTYPE issue SYSTEM 'bandolier.dtd' []> >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>></pre>		<pre><body> <hi>SanDoLIER</hi> <hi>SanDoLIER</hi> <hi>SanDoLIER</hi> <br< th=""></br<></body></pre>
С	lick or	your answer

What are the main differences between XML	and HTML?
XML	focuses on how the data looks
	focuses on what the data is
HTML	was designed to describe data
	was designed to display data
Click each option, drag it and dro	op it in the corresponding box. k on the Confirm button.

Exercise 4	
What does it mean	that XML is a meta-language?
\bigcirc It provides standar	d ways of displaying a document in a web browser
\bigcirc It is information ab	out the text of a document, rather then the text itself.
\odot It allows the creation	on of personalized mark-up languages.
	Click on the answer of your choice

If you want to know more	
World Wide Web Consortium (<u>www.w3.org</u>). Open information standards for the Web, including HTML and XML	-
OASIS – the Organisation for the Advancement of Structured Information Standards (<u>www.oasis-open.org</u>). Applications of open standards, including Docbook and UBL, the Universal Business Language.	
ebXML (<u>www.ebxml.org</u>) - Electronic Business using eXtensible Markup Language	
The Cover Pages (<u>http://xml.coverpages.org</u>) information about XML standards and vocabularies.	