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.

Food and Agriculture Organization	
File Edit View Favorites Tools Tools Address Address http://www.fao.org/ Co	Today, almost every electronic document
FOOD AND AGRICULTURE	information:
مراجع المعالي (中天 français español	 the text content of the document itself, and
What is FAO? Glob: From the Director-General Glob: Agriculture area,	 a set of codes that provides information on how to display or interpret the text.
Economics & Nutrition warn Fisheries 17 cr Forestru	These additional codes that are contained in the electronic file are the mark-up .
stwww.laolij=NotepadX File Edit Format Help <kahref="http: <br="" ag="" www.fao.org="">L">>Agriculture</kahref="http:>	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.

Proced	
FIOCEU	
Proced text of	ural mark-up usually takes the form of formatting codes that are mixed in with the ⁵ the document.
Can yo	u identify, in the following example, which is the text content of the document?
	<pre>{\pgdsc0\pgdscuse195\pgwsxn11905\pghsxn16837\marglsxn1800\margtrxn1800\margtsxn1440\m \paperh16837\paperw11905\marg11800\margt1800\margt1440\margb1440\sectd\shknone\ngwsxn \pard\plain \s1\f2{\b Issue 51}\tab \tab \tab \tab \tab \tab \tab \tab</pre>
	Tune the text in the box
	Then elick on View Answer
	Then, click on view Answer.

rocedural Mark-up	
🖾 bandolier.doc - Microsoft Word	
Eile Edit Yiew Insert Figmat Tools Table Window Help × × * * Image: Solution of the second seco	Generally speaking, procedural mark-up formats are designed (and owned) by
Issue 51 January 1994 BANDOLIER	vendors of specific software products , and the best application to process documents in that format is the one that th mark-up was designed for.
Editorial Bandolier this month has several interesting articles on the subject of pain.	One of the most popular procedural formats is Microsoft Word .
Oxford Pain Internet Site This month, on July 14th, Bandolier is opening the Oxford Pain Internet Site. The content is different from the usual Bandolier stopy which gives a view on a systematic reviews looking at pain outcomes. Each grapping has a clinical bottom line at the top, followed by a comment systematic at bottom line at the top, followed by a comment systematic at bottom line at the top, followed by a comment systematic at the top of the minutes to said from want more information. These are NMIS and The top of the systematic systematic at the systematic systematic systematic systematics at the systematic systematic systematics at the systematic systematics at the systematic systematic systematic systematics at the systematic systematic systematic systematics at the systematic systematic systematics at the systematic systematic systematic systematic systematics at the systemat	Procedural mark-up codes apply to a single way of presenting the information, such as printed page, and provide no capability to define appearance for other media, such as CD-ROM and Internet.

Presentational Mark-up	
Presentational mark-up codes apply to different wa	ys of presenting the information.
Presentational mark-up describe either on a computer screen or on One of the most widely-used forms Text Mark-up Language).	es graphics, layout and page control features, a printed page. s of presentational mark-up is HTML (Hyper
<pre> Food and Agriculture Organization of the United Nat File Edit Address File Edit Format Help Cd rowspan="3" width="1%">&mbsp What is FAO? Newsroor The State Stat</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.

D	
Presentational	Mark-up

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	
<pre></pre>	
border="0" alt="faologo"> FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS </td <td>Þ> 💽</td>	Þ> 💽

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.

HTML marks up how the document content is presented, not the type, structure or meaning of the content: if we want to capture that information we need to use descriptive mark-up. Rather than containing codes that describe the layout or presentation of the document, descriptive mark-up contains codes that define a logical, usually hierarchical structure. - <issue> - <issue> - <i< th=""><th>Descriptive Mark-up</th><th></th></i<></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue></issue>	Descriptive Mark-up	
Rather than containing codes that describe the layout or presentation of the document, descriptive mark-up contains codes that define a logical , usually hierarchical structure .	HTML marks up how the document content is pres the content: if we want to capture that information	ented, not the type, structure or meaning of n we need to use descriptive mark-up .
 - <issue> - <issue> - <issue> - <issue> - <issue> - <issue> - <issue> - <issue-sue> - <issue> - <issue-sue> - <issue< li<="" th=""><th>Rather than containing codes that the document, descriptive mark- usually hierarchical structure.</th><th>at describe the layout or presentation of up contains codes that define a logical,</th></issue<></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue-sue></issue></issue></issue></issue></issue></issue></issue>	Rather than containing codes that the document, descriptive mark- usually hierarchical structure.	at describe the layout or presentation of up contains codes that define a logical ,
	<pre>- <issue> - <header> </header></issue></pre> <header> 6 <issue-no>5</issue-no> <issue-year>99</issue-year> <month>July</month> <bandolier>65</bandolier> </header> <bandolier <br="" has="" month="" several="" this=""></bandolier> interesting articles on the subject of pain 	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 -





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.
though everyone could create vocabula	ries for their own applications, in practice we
sually prefer to share our documents nderstanding of the descriptive mark-up	with other people who have a common in them.
getty images™	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.
-	They have also created vocabularies for market-specific information types such as

ML	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).
	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.ebxmLorg) 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
igodoldoldoldoldoldoldoldoldoldoldoldoldol
igta the description of the logical structure of a document
Click on your answer

Which of the following is an example	e of de	scriptive mark-up?
<pre>IDOCTYPE issue SYSTEM 'bandolier.dtd' []> >>ml-stylesheat href="bandolier.xsl" ype="text/xsl"?> issue> <header> <toold s<="" style="" th="" the="" to=""><th></th><th><pre> dbody></pre> <hl>&hl>BANDOLIER</hl> <hl>BANDOLIER</hl> <hl> <hl> articles on the subject of pain.</hl></hl></th></toold></header></pre> <hl> <hl> <hl> <hl> <hl> <hl> <hl> <hl> <hl> <hl> <hl> <br <="" th=""/></hl></hl></hl></hl></hl></hl></hl></hl></hl></hl></hl>		<pre> dbody></pre> <hl>&hl>BANDOLIER</hl> <hl>BANDOLIER</hl> <hl> <hl> articles on the subject of pain.</hl></hl>
C	lick or	n 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.

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.	