



XML & RSS Really Quick by James Reynolds



Why XML and RSS?

- This presentation is really about RSS
- It is very hard to understand RSS without understanding XML
- RSS is probably the most visible use of XML
- Some sites use "XML" for "RSS" for feeds
- So you get 2 for I



What is XML?

- Very similar to HTML (well-written)
 Except
 - Errors are NOT TOLERATED
 - Page will not load if there is just ONE error
 - Tags must be lowercase
 - All tags must be opened/closed in order
 - <tagl><tab2></tag2></tabl>



What is XML?

More Exceptions

- All tags MUST be closed
 - <tag>bla</tag> <tag params=""/> <tag params="" />
- Entities must be used: & < > etc
- Attributes must be in double quotes
 - <img src="..." width="..." height="..."



What is XML?

More Exceptions

- XML can have any tags
 - In HTML, <hr> means something and <bla> is wrong
 - In XML, neither are right or wrong
 - The application reading it must know what the tags mean
 - XML files have "definitions" (DTD)

<!DOCTYPE plist PUBLIC "-//Apple Computer//DTD PLIST I.0// EN" "http://www.apple.com/DTDs/PropertyList-I.0.dtd">



Examples of XML

• XML files that have well established DTD's

- Mac OS X PLIST files
- XHTML
- RDF
- RSS
- MathML
- XSIL
- SVG



Valid XML

NO - how many errors can you find?
 <BODY>

 </i>
 & that
 </body>



Valid XML

• YES (there were 6 errors): <body> <j> </i> & that </body>

Cool things about XML

• CSS

• CSS files can tailor how XML files are viewed

XPath

- Accesses an XML "path"
 - /html/head/title = <html><head><title>this
 - /html/body/p/* = everything in all blocks
 - /html/body[length('p')<10] = paragraphs < 10 chars</p>



Cool things about XML

XQuery

• XML query language (like what SQL does)

● XSLT

- Uses XPath to convert an XML document to anything else, a text file, an html file, whatever
- Used by FileMaker Pro Advanced Server 7 Custom Web Publishing



Learning XML Stuff

www.w3schools.com/xml is excellent

- Just ignore all the ads, there is real content there
- XML tutorial
- XPath tutorial
- XSLT tutorial



What is RSS?

Really Simple Syndication (RSS 2.x)

- XML file on a web server
- RSS Readers
 - Act like mini web-browser that refreshes on its own
 - Let users know of new content



Why RSS?

• Well, it is fun

It is an EASY way to learn of news and site updates

Podcasting is cool

O Appcasting, is, er... interesting!



</item>
</channel>
</rss>



<item> <title>...</title> <link>...</link> <description>...</description> </item> <item> <title>...</title> <link>...</link> <description>...</description> </item>

..... more items



<item>

<title>Headless Macs Found in Dumpster</title> k>http://bogusmn.com/article56/</link> <description>At least a hundred bloodied headless Macs were found in a dumpster in Redmond, WA, confirming suspicions that anti-Mac frenzy from loyal users of non-Mac computers is now turning violent.</description> </item>



• Wait, but there is more

- Descriptions can be long, some people put the whole article there...
- Insert html into descriptions (including images)
- Use <enclosure/> tag to send...
 - Files, including
 - MP3 files ("Podcasting")
 - Applications ("Appcasting")
 - Video (not really named yet...)



How to create RSS

RSS is usually a feature of a CMS solution
A few good utilities exist

- Feeder
- FeedMe
- By hand
 - Unless you know XML real well, don't do this
 - Unless you validate it at feedvalidator.org
 - Even I messed up, and I took an XML class...



How to create RSS

- By Hand (cont)
 - Learn XML
 - http://www.w3schools.com/xml
 - The definition of RSS is very simple, go learn it
 - http://blogs.law.harvard.edu/tech/rss
 - Validate your files!
 - http://feedvalidator.org



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New Feed Remove	Reload Publish New Item Remove Item Search Info	Title: Bogus Macintosh News
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How to read RSS

Mac RSS readers (aka aggregators)

- Wait for Safari RSS (Mac OS 10.4 "Tiger")
- NetNewsWire (top rated)
- Firefox
- Opera
- AmphetaDesk
- NewsFire
- Many more, just search versiontracker.com

Windows: SharpReader; Linux: Straw)



	NetNewsWire (13 unread)	0		
Next Unread Mark All As Read Open in Brows	er Show Info Subscribe Unsubscribe Show Sites Drawer			
11 subscriptions, 13 headlines unread Next refresh: none scheduled				
Subscriptions	Bogus Macintosh News headlines	Date		
New Mac OS X Products	 If You Are Reading This, You Must Be Insane 	04:24 PM		
S VersionTracker: Mac OS X (6)	Headless Macs Found in Dumpster	04:06 PM		
MacCentral (3)				
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b MacMinute (1)				
Lockergnome's RSS Resource (2)				
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Wired News				
🕤 LegalTorrents				
Bogus Macintosh News (1)				
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	Headless Macs Found in Dumpster			
	At least a hundred bloodied headless Macs were found in a dumps confirming suspicions that anti-Mac frenzy from loyal users of no now turning violent.			
http://bogusmn.com/article56/				



Interesting Links

RSS feeds

- www.apple.com/rss/ (almost 50 feeds)
- www.rssfeeds.com/
- feedster.com
- blogs.law.harvard.edu/tech/directory/5/feeds
- www.ipodderx.com
- www.podcasters.net





Questions & Answers

Any questions or answers?

