Digital Philology – ELTE-DH Winter School 2020

Zsófia Fellegi Research Institute for Literary Studies

XML - memo

• Basic rules

<name>William Shakespare</name>

- close the tags
- consistency
- no overlaps
- Attributes
 - additional information (eg. xml:id)

• Root element

The markup in the document following the root element must be well-formed.

Text Encoding Initiative

- 1990 TEI P1: Guidelines for the Encoding and Interchange of Machine-Readable Texts
- 2019. 07. 16 TEI P5 3.6.0 🗌 1934 p.
- TEI XML structure: header + text
- •<teiHeader> : structured metadata
 - <fileDesc>,<encodingDesc>, <profileDesc>, <revisionDesc>
- <text> : structured text
 - <body>, <div>, , <lg>

Oxygen XML Editor

- <u>https://www.oxygenxml.com/</u>
- Paid software vs. 30 days free trial version
 - Academic license: 2 years version control; update annually
- Editing & Developing; Publishing; Collaboration & Review
- Oxygen XML Editor
 - Editing XML files: TEI, MARC21 etc.
 - Editing non-XML files: JSON, HTML, xHTML, CSS, Python, Perl etc.

SHTML Text Java Programming Language JavaScript JSON JSON Schema Properties Perl C Programming Language C++ Programming Language Batch Shell PHP SQL Python Programming Language

- Features
 - XML Editing
 - Check Well-Formedness
 - Validate with DTD, Relax NG, Schematron, different XML schemas (support for XML catalogues → web address or disk path)

	Validate	Ctrl+Shift+V
30	Validate (cached)	
	Validate with	
2	Check Well-Formedness	Ctrl+Shift+W
2	Configure Validation Scenario(s)	
	XSV	
	LIBXML	
	MSXML4.0	
	MSXML.NET	
	Saxon-EE	
	Configure Custom Validation Engines	

 For documents that do not have a schema, Oxygen can analyze the structure of the document and generate a schema

🔉 Validate with		X
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Schema type:	XML Schema	Bro
	Embedded schematron rules	
Public ID:		
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1		OK Cancel

Different views

- Grid view: shows the XML document in a spreadsheet-like fashion
- Author view: WYSIWYM (What You See Is What You Mean). This view is based on providing a CSS file for the document. (eg. DITA, DocBook, and TEI)
- Text view: is the default view for editing an XML document.

<TEI xmlns="http://www.tei-c.org/ns/1.0">

<teiHeader>

<fileDesc>

<titleStmt>

<title type="main">Májusi álmodás </title> <author> <persName>

<surname>Izsó</surname>

<forename>Sámuel</forename>

<idno type="PIM">PIM:235015 </idno>

</persName>

</author>

</titleStmt>

<editionStmt>

<edition>digital edition</edition>

<respStmt>

<resp>creator</resp>

</orgName>

</respStmt> <respStmt>



▶Májusi álmodás ∢

▷Izsó4 ▷Sámuel4 PIM:235015

digital edition

▷creator ◀▷Petőfi Irodalmi Múzeum ♣▷http://viaf.org/viaf/152132060/◀ ♣▷http://www.pim.hu◀ ◀ ▷TEI encoding ◀▷ ▷Salamon◀ ▷Teodóra◀ ◀

Petőfi Irodalmi Múzeum 4 ⊕ http://viaf.org/viaf/152132060/4 ⊕ http://www.pim.hu4

Budapest <u>{}</u>^bhttp://www.geonames.org/3054643 €

2014

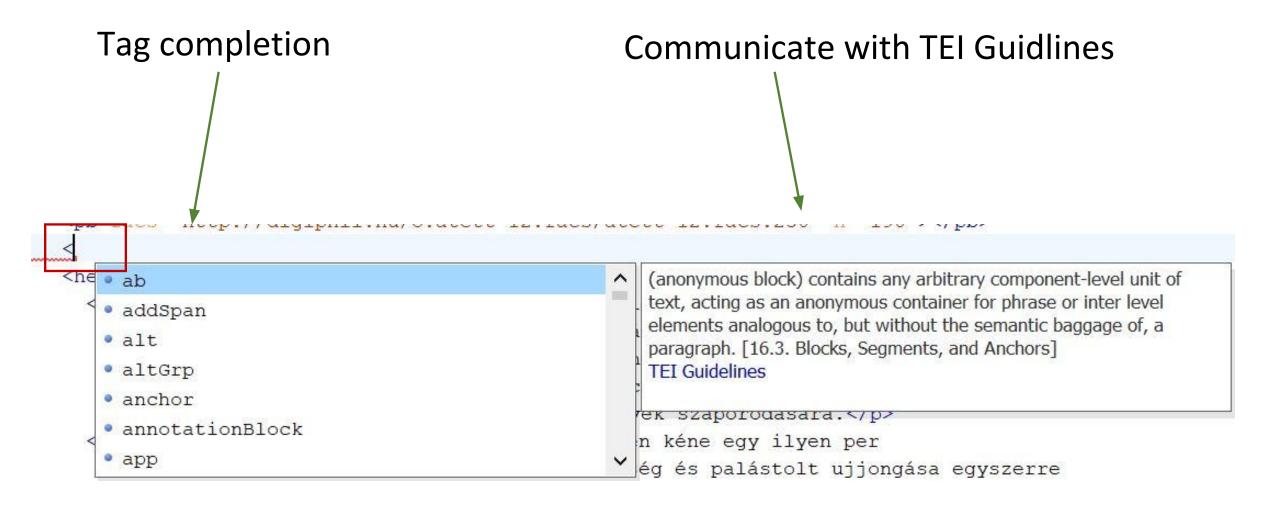
©Free Access - no-reuse <u>{}</u>^bhttp://www.europeana.eu/rights/rr-f/₫

o:atett-12.tei.104

http://digiphil.hu/o:atett-12.tei.104

▷▷ ▷o:atett-12.tei.1054 {} http://digiphil.hu/o:atett-12.tei.1054 44▷▷ ▷o:atett-12.tei.1034 {} http://digiphil.hu/o:atett-12.tei.1034 44

Text View



Text View – TEI

Validation – Error message

136 🗸	<pre><div type="text"></div></pre>
137	<pb facs="http://digiphil.hu/o:atett-12.facs/atett-12.facs.250" n="190"></pb>
138	<head type="title">MÁJUSI ÁLMODÁS</head>
139	<filedesc× filedesc=""></filedesc×>
140 🗸	Az ügyvéd fáradás nélkül mérte kurta lábaival az irodát.
141	Hangosan. szavaló nvomatékkal diktált János felé. Gvürükkel megrakott ujjai
<	

element "fileDesc" not allowed here; expected the element end-tag or element "ab", "addSpan", "alt", "altGrp", "annotationBlock", "app", "argument", "bibl", "biblFull", "biblStruct", "byline", "camera", "caption", "castList", "cb", "certainty",

Text View – TEI

Easey to read layout

- Other option: Smart Paste function in Author View

https://www.lipsum.com/feed/html

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Features

- Find and Replace
 - Fulltext search ۲
 - **Regular expressions** ٠

A regular expression is a sequence of characters that define a search pattern.

- https://en.wikipedia.org/wiki/Regul ٠ ar expression
- Oxygen RegEx syntax: ٠ https://www.oxygenxml.com/doc/v r-expressions.html
- ersions/21.1/ug-editor/topics/regula
- Opened file (Ctrl + F) ٠
- Files in a folder (Ctrl + Shift + H) ٠

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99	<pre><date>1916-04-20</date></pre>				Replace All
100 🗸	<pre><biblscope unit="issue"></biblscope></pre>				Replace to End
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Features

• Files in a folder (Ctrl + Shift + H)

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<idno type="PID"></idno>		~
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Oxygen XML Editor - Projects

- helps you organize your XML-related files into projects
- batch operations over sets of files
 - Find and Replace
 - XPath in files
 - XQuery in files
 - XSLT transformation

XPath

- is a query language for selecting nodes from an XML document
- may be used to compute values (e.g., strings, numbers, or Boolean values) from the content
 of an XML document
- based on a tree representation of the XML document, and provides the ability to navigate around the tree
- https://www.w3schools.com/xml/xpath_syntax.asp

Operators:

- /, // and [...] operators, used in path expressions
- Union operator, |, which forms the union of two node-sets.
- Boolean operators "and" and "or", and a function "not()"
- Arithmetic operators +, -, *, "div" (divide), and "mod"
- Comparison operators =, !=, <, >, <=, >=

XPath

Functions

Functions to **manipulate strings**: concat(), substring(), contains(), substring-before(), substring-after(), translate(), normalize-space(), string-length()

Functions to **manipulate numbers**: sum(), round(), floor(), ceiling()

Functions to **get properties of nodes**: name(), local-name(), namespace-uri() Functions to **get information about the processing context**: position(), last() Type **conversion functions**: string(), number(), boolean()

- Boolean operators
 - not(), true(), false()
- Example:

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1 //*/titleStmt/title[@ 2	type="main"]
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• Example:

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1 //*/persName/text()		/TEI[1]/teiHeader[1]/fileDesc[1]/titleStmt[1]/a	atett-1.TEI.1.xml	
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	Kassák Lajos	/TEI[1]/teiHeader[1]/fileDesc[1]/sourceDesc[1	atett-1.TEI.1.xml	
Scope: Project -	Hindenburg	/TEI[1]/text[1]/body[1]/div[1]/p[3]/hi[1]/pers	atett-1.TEI.1.xml	
1 //*/titleStmt/*/persName/text()[1]				
2				

- Excercise: Please list every value of the <idno> element with the @type "PID".
- Excersice: Please list every value of the <idno> element with the @type "PID" AND the value of the @prev attribute.

Extensible Stylesheet Language Transformations

- language for transforming XML documents into other XML documents, or other formats such as HTML, plain text, PDF etc.
- new file is created, the original file is not changed
- XSLT uses XPath to identify subsets of the source document tree and perform calculations
- Example:
 - generate @xml:id automatically

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Result

- <l xml:id="1.2">Mint villanyfényes ív kristályosul ki. Halk nesz</l>
- <l xml:id="1.3">Bizserg. És a zsivaj, mely gyors iramba tör</l>
- <l xml:id="l.4">Vérezve fennakad nyüzsgő sejtek bozótján.</l>
- <l xml:id="1.5">Dübörgő reszketések borzolják az űrt.</l>
- <l xml:id="l.6">Járdákon a tömeg már érzi önbizalmát</l>
- <l xml:id="l.7">Szivekbe váj az árny s érzéki és ledér</l>
- <l xml:id="1.8">Dalok melódiáin sodorja táncba őket</l>
- <l xml:id="1.9">Magány és téveteg emlékek távolán.</l>
- <l xml:id="1.10">A fény most kört hasít, mint nagy manézst és benne</l>
- <l xml:id="1.11">Kering egy percre mind a béklyózott ütem.</l>
- <l xml:id="1.12">S a lelkek rejtekük mélyéből felkerülnek,</l>
- <l xml:id="1.13">Hogy megfürösszék únt, mezitlen lényüket</l>
- <l xml:id="l.14">A fényben.</l>

</lg>