

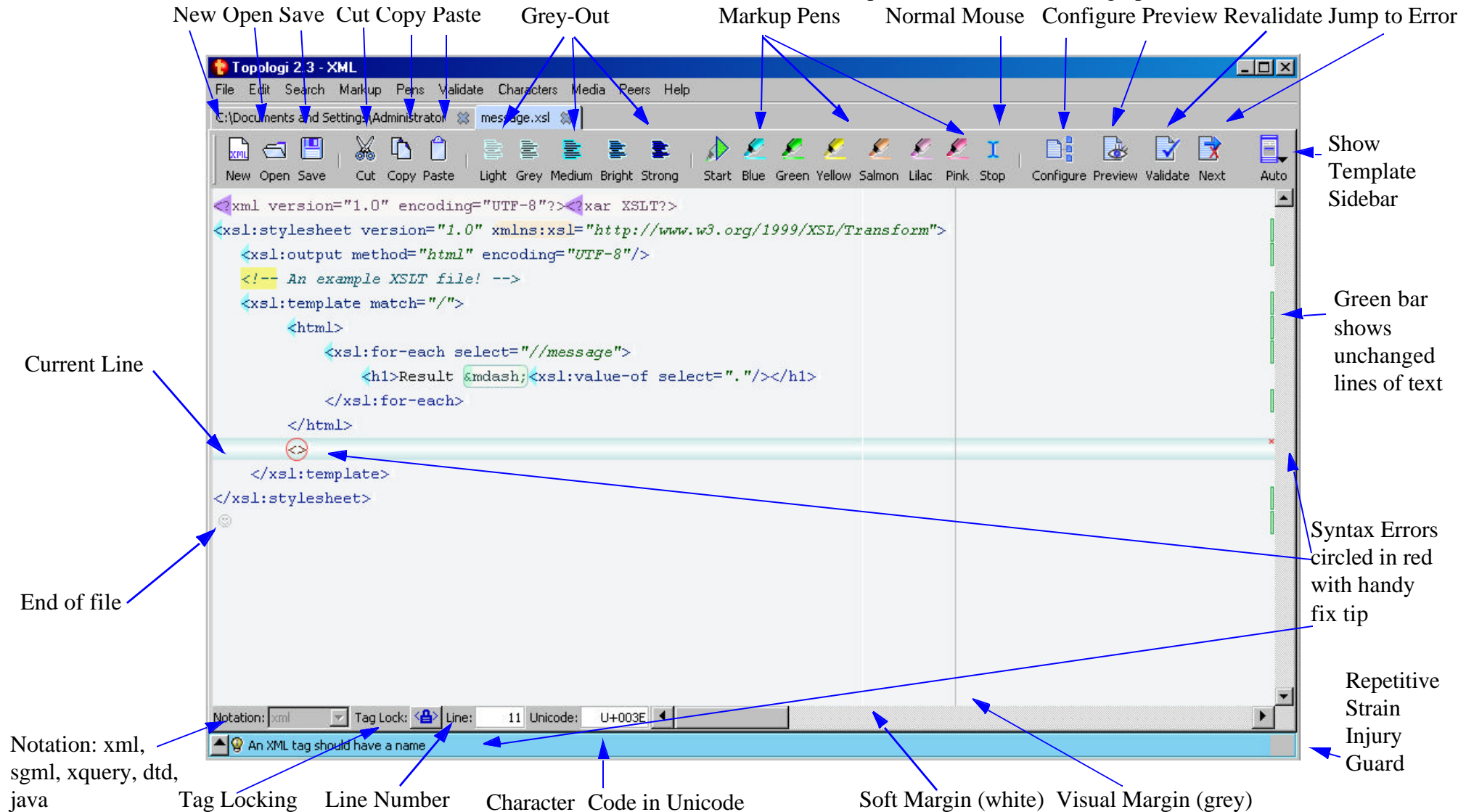
# Introduction to Topologi Markup Editor 2.3

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# Markup Editor

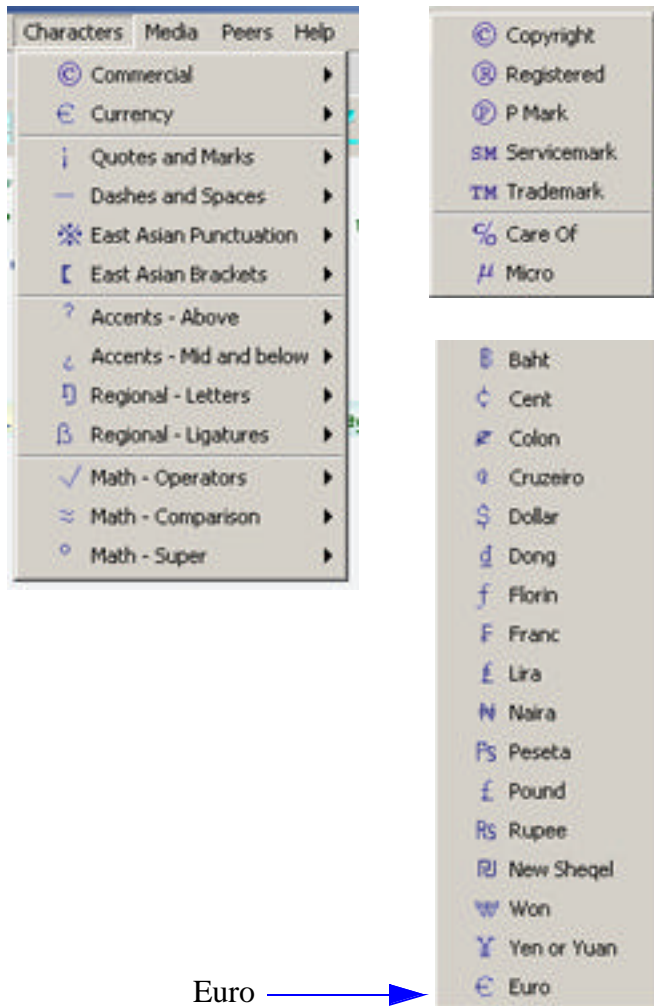
Edit publishing-oriented documents in the built-in Markup Editor: a tag-aware text editor for XML, HTML and SGML with special features for marking up new documents from raw text.



Select *File>New XML>XML* to create a new XML file, in a new tab. The Configuration Setup form will appear, if you wish to configure the tab for validation and preview at that time.



# Special Characters

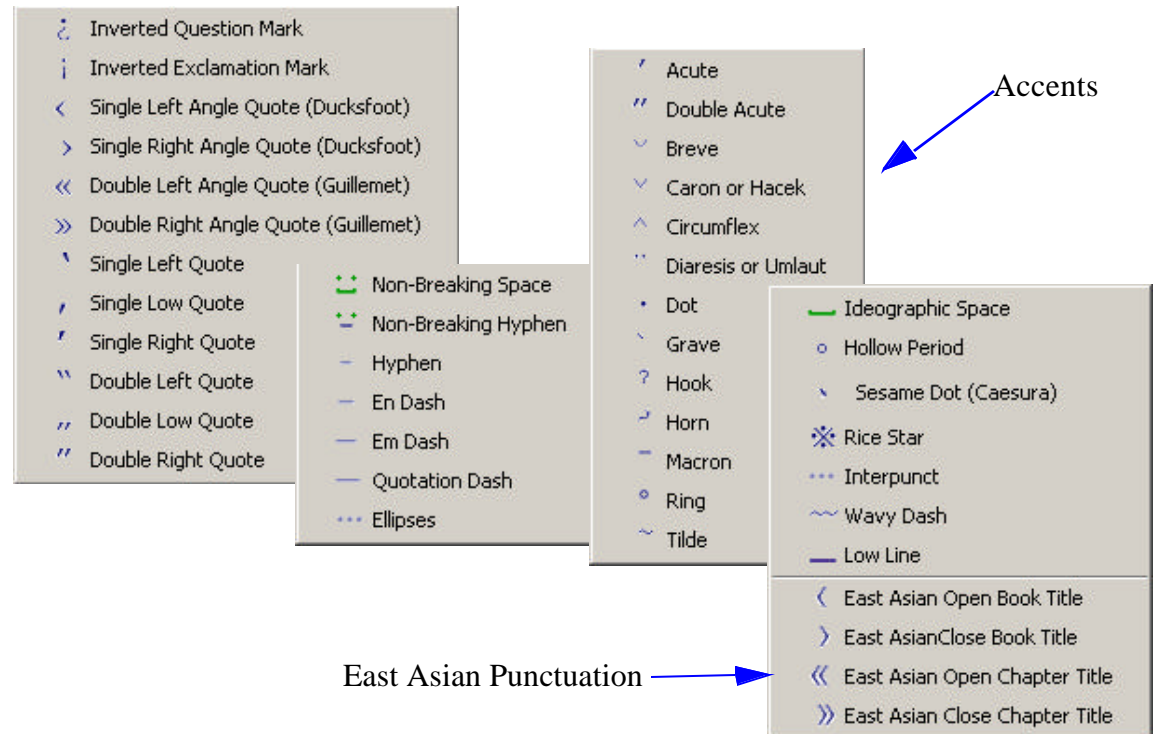


The Topologi Markup Editor uses the Unicode character standard and supports most Western and Eastern characters. Special characters can be entered by:

- the native input method (IME) of your computer to type the character
- special Java IMEs
- importing files in other encodings
- selecting a character from the *Characters* menu
- entering the Unicode number for the character in the Character Code box at the bottom left of the Markup Editor.
- cut and paste from other applications, such as the *Character Map* accessory found on most computers.

As well, special characters can be entered indirectly in XML and SGML using numeric character references or ISO entity references. The Template Sidebar provides support for entering entity references.

The *Characters* menu provides direct input of publishing, commercial and regional Latin characters. It has menu items for accents: first type the character you want to accent, then select the appropriate accent(s).





# Shortcut Keys

A full set of shortcut keys is available, following familiar Windows, CUA and other conventions

Key	Function	Shift-Function	Ctrl-Function	Ctrl-Shift-Function
Back-space	Delete previous character		Delete previous word	
DEL	Delete character		Delete word	
HOME	Move to start of line	Select to start of line	Move to start of file	Select to start of file
END	Move to end of line	Select to end of line	Move to end of file	Select to end of file
Left	Move to previous character	Select previous character	Move to previous word	Select previous word
Right	Move to next character	Select next character	Move to next word	Select next word
Up	Move up one line	Select line up		Scroll up
Down	Move down one line	Select next line		Scroll down

Key	Function	Key	Function
ESC	Close element	Ctrl-a	Select All
Ctrl-\	Split element	Ctrl-c	Copy
Ctrl-b	Break, wrap and indent line	Ctrl-f	Find
Ctrl-j	Paste, removing data content	Ctrl-g	Find again
Ctrl-k	Paste, removing data content and attribute values	Ctrl-n	New (XML)
Ctrl-l	Multiline paste	Ctrl-o	Open
Ctrl-w	Validate	Ctrl-p	Print
Ctrl-INSERT	Copy	Ctrl-q	Quit
Shift-INSERT	Paste	Ctrl-r	Redo
Shift-DELETE	Cut	Ctrl-s	Save
<, <!, <?, &	Select Template tab for element, comment, PI, entity	Ctrl-Shift-S	Save As
Ctrl-Space	Reveal the Template Sidebar	Ctrl-t	New (text)
Ctrl-Enter	Insert Template	Ctrl-v	Paste
Ctrl-Up-arrow	Move up template list	Ctrl-x	Cut
Ctrl-Down-arrow	Move down template list	Ctrl-z	Undo

Key	Function	Key	Function	Key	Function	Key	Function	Key	Function	Key	Function
F1	Help	F2	Find	F3	Save As	F4	Open	F5	Print	F6	Next
F7	Break	F8	Trim	Shift-F3	Save	Shift-F4	New	F11	Jump	F12	Save As
Ctrl-F4	Close	Alt-F4	Quit	Ctrl-F9	Light	Ctrl-F10	Normal	Ctrl-F11	Bright	Shift-F12	Save



# Pens

Markup of terms and paragraphs is most efficient using the mouse:

- Associate start and end text with Markup Pens
- Select a pen, swipe text, and that text is wrapped by the start and end text
- ID numbers can be automatically generated and incremented
- Switch better pens sets for different structures
- Sequence through a pen set automatically, for marking up complex structures
- Rectangular selections & multi-line markup available (hold control key down)

The screenshot shows the Topologi 2.0 - XML application window. The main editor displays XML code for a table. The 'Options' dialog box is open, showing the 'Markup-Pen Set "Tables"' configuration. The configuration includes a list of pens (Blue, Green, Yellow, Salmon, Lilac, Pink) and their associated XML tags. The 'AutoNum' checkbox is checked, indicating automatic numbering. The 'Salmon Pen' is selected in the main editor, and the text '44&ndash;45' is highlighted, demonstrating the markup process.

1. Create Pen Set

2. Select Salmon Pen

3. Swipe text to mark up

Autonumber using "\$"

Options

Markup-Pen Set "Tables"

Pen	Start Tag	End Tag
Blue Pen	<table id="tab\$\$" cols="">	</table>
<input checked="" type="checkbox"/> AutoNum		
Green Pen	<tr>	</tr>
Yellow Pen	<th>	</th>
Salmon Pen	<td>	</td>
Lilac Pen		
Pink Pen		

```
<h1>Table of Years</h1>

<table id="tab1" cols="">
<tr><td> 2000</td> <td>39&ndash;40</td></tr>
<tr><td> 2001</td> <td>40&ndash;41</td></tr>
<tr><td> 2002</td> <td>41&ndash;42</td></tr>
<tr><td> 2003</td> <td>42&ndash;43</td></tr>
<tr><td> 2004</td> <td>43&ndash;44</td></tr>
<tr><td> 2005</td> 44&ndash;45</td></tr>
</table>
```



# Configuration

The Topologi Markup Editor does not require any configuration to open and edit files. When you need to, a single form lets you configure:

- schemas (DTDs, Schematron, RELAX NG, W3C XML Schema, Examplotron)
- preview stylesheets (XSLT, CSS)
- catalog files
- sidebar templates for the Markup Editor and context hints for the Tree Editor
- HTML documentation

The screenshot shows the 'Configure Support Files' dialog box. It has a title bar with a red icon and the text 'Configure Support Files'. Below the title bar is a subtitle: 'Select the XML Application (XAR) from the list. Or locate configuration files individually.' There are four buttons at the top: 'Get XAR Updates', 'Create New XAR', 'Select from existing configurations...', and 'Make default'. Below these buttons is a list of configuration categories with corresponding file paths and 'Locate' buttons. The categories are: Information File, Templates, External XML DTD, Examplotron, RELAX NG, RELAX NG Compact, XML Schema, Schematron, CSS, XSLT, SGML DOCTYPE, SGML Catalog, SGML Declaration, and Context hints. Annotations with blue arrows point to various parts of the dialog: 'Select XAR' points to the 'Schematron' dropdown; 'Documentation' points to the 'Information File' row; 'Templates' points to the 'Templates' row; 'Schemas for XML' points to the 'External XML DTD', 'RELAX NG', 'RELAX NG Compact', and 'XML Schema' rows; 'Stylesheets' points to the 'XSLT' row; 'SGML' points to the 'SGML DOCTYPE', 'SGML Catalog', and 'SGML Declaration' rows; 'Tree Editor contextual help' points to the 'Context hints' row; 'Create new XAR using current entries' points to the 'Create New XAR' button; 'Populate the form with entries from a default configuration, or from the configuration used by some other tab, or using a saved configuration. Recent files have their last configuration reloaded automatically.' points to the 'Make default' button; and 'Locate files for schemas, etc..' points to the 'Locate' button next to the 'XML Schema' row.

Select XAR

Documentation

Templates

Schemas for XML

Stylesheets

SGML

Tree Editor contextual help

Create new XAR using current entries

Populate the form with entries from a default configuration, or from the configuration used by some other tab, or using a saved configuration. Recent files have their last configuration reloaded automatically.

Locate files for schemas, etc..

Convenient XAR (XML Application Archives) bundle different configuration files together. Select an XAR or fill in forms data individually. A *Usage Schema* created by sampling documents can be selected in addition.

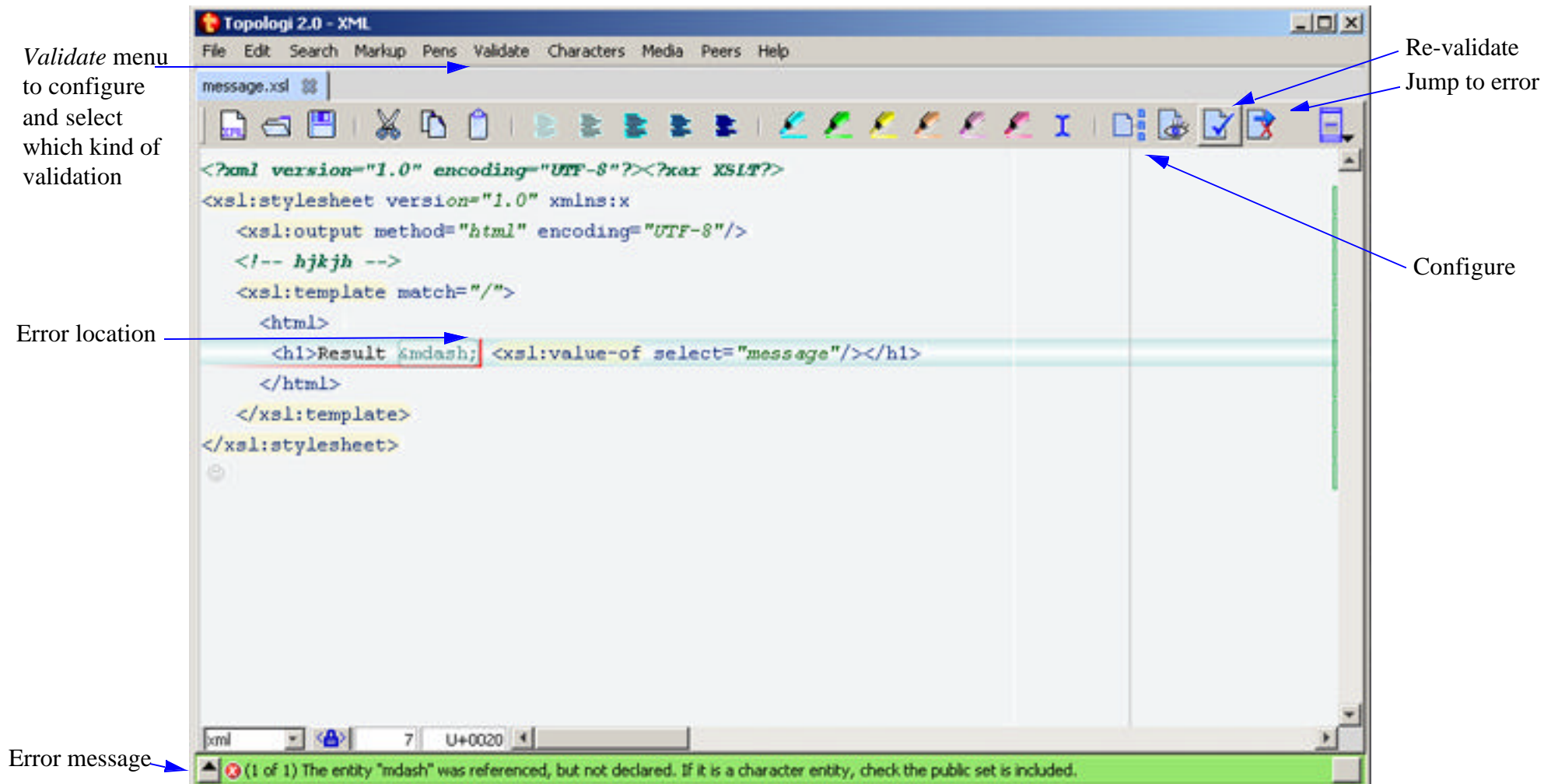


# Progressive Validation

Check the correctness of your XML document in stages, from raw text to fully marked-up:

- Delimiters correct
- Well-formed
- Feasible elements (incomplete contents)
- Valid (DTD, schema)
- Schematron valid

The Markup Editor provides instant feedback on delimiter errors with red circles and helpful hints. When a fragment is selected, the Markup Editor will attempt to validate just that rather than the whole file or document.





# Templates

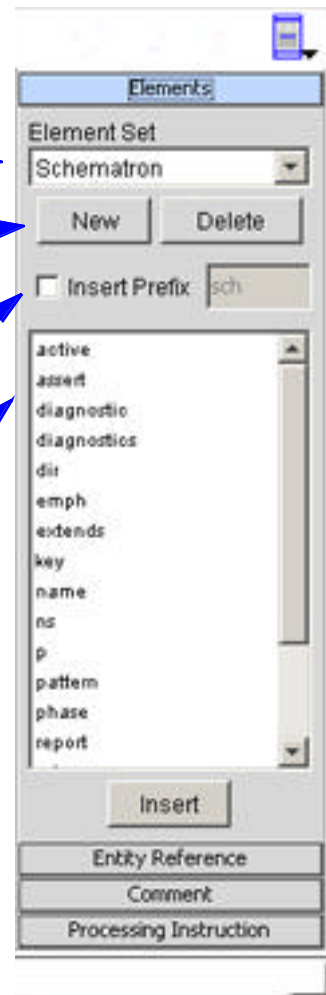
Tag completion and faster data entry: Topologi Markup Editor allows templates sets for

- elements
- entity references
- processing instructions
- comments

Templates are organized into sets  
Template sets come from XAR applications, or from DTD or usage samples, or you can make your own.

Choose if you wish to generate namespace prefix

Tag completion: the Template Sidebar follows your typing: when you type a < the Element templates become active.  
For example, type <as then **Ctrl-Enter** and the template for *assert* will be entered.  
Or use the mouse: click on **Elements** then double click on the template you want.



Show/Hide Template Sidebar (Ctrl-Enter)

For Element templates

For Entity Reference templates

For Comment templates

For Processing Instruction templates

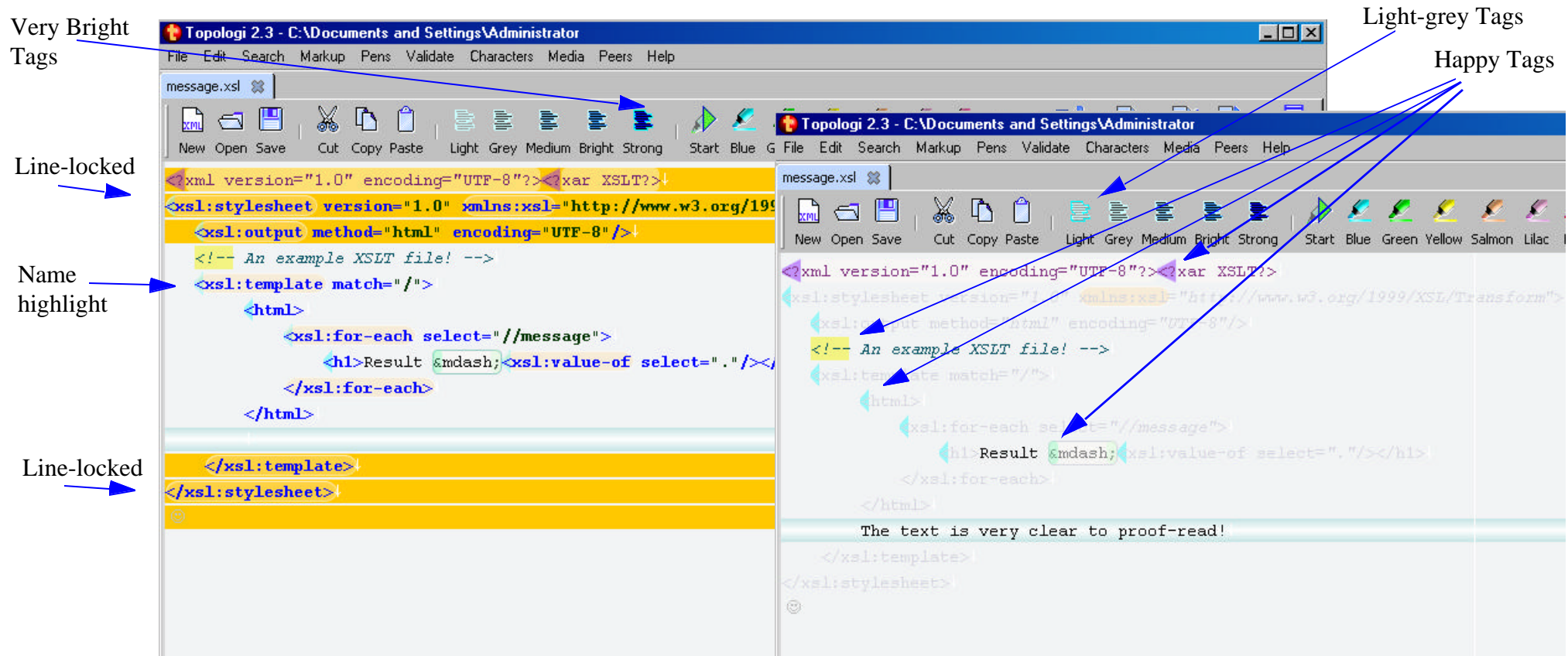
Templates can include any text, even text without tags. The Template sidebar tracks your key-boarding: if you type <, <?, <!--, or & the sidebar will attempt to match the next characters you type with names of element, PI, comment or entity reference templates, respectively. You can type an XML Namespace-style prefix to select a particular set.



# Visual Aids

Topologi Markup Editor has five special features to help you edit:

- *Grey-out* buttons provide five preset levels of contrast and colour: these range from *light-grey*, where tags are almost completely invisible to allow proofreading, to *very bright*, where tags are bold and in strong colours.
- *Line-locking* marks a region at the top and bottom with an orange highlight, and prevents editing operations in those areas. Useful to prevent overrun on large and repetitive files.
- *Name-highlighting* draws a mild yellow highlight behind element and attribute names that start with a string you provide: for example, “xsl:” would highlight XSLT elements but not HTML elements in an XSLT script.
- *Happy Tags* are undercolours for the open delimiters of tags: comments, start-tags, processing-instructions and references, and sections without them, have never been clearer.
- *User Preferences* supports various accessibility options, such as changing colors, fonts, font sizes, and anti-aliasing. You can change font size using your mouse wheel and the control key too.





# Import RTF

The RTF import tool lets you:

- Read an RTF file
- Make simple editing corrections
- Convert the RTF text to XML, with custom names, prefixes and indentation

The image shows the 'RTF Processor' dialog box and the resulting XML output. The dialog box has a title bar 'RTF Processor' and a menu bar 'File Edit'. The main text area contains the following text:

**XML and SGML Import from RTF**  
Topologi Professional Edition has an **RTF import tool** that

- ☐ Reads RTF
- ☐ Exports to XML
- ☐ Converts style names to element names
- ☐ Converts paragraph, bold and italic elements to names of your choice
- ☐ Supports namespace prefixes

After the data is imported into your document, you can clean it up and augment it to become valid.

At the bottom, there is a section 'Select the element tags to insert:' with three columns:

	Pre...		
<input type="checkbox"/> Pre...		<input checked="" type="checkbox"/> Bold	b
<input checked="" type="checkbox"/> Body	body	<input checked="" type="checkbox"/> Italic	i
<input checked="" type="checkbox"/> Font	font	<input checked="" type="checkbox"/> Underli...	u

On the right side of the dialog box, there are two checkboxes: ☐ Indent and ☐ Space.

The XML output is shown in a separate window titled 'Topologi 2.0 - XML'. It displays the following XML code:

```
<?xml version="1.0" encoding="UTF-8" ?>
<body>
  <default>
    <font size="12" > XML and SGML Import from RTF</font>
    <font size="12" > Topologi Professional Edition has an
      <b>RTF import tool</b> that </font>
    <font size="12" family="Symbol" > -</font>
    <font size="12" > Reads RTF</font>
    <font size="10" > </font>
    <font size="12" family="Symbol" > -</font>
    <font size="12" > Exports to XML</font>
    <font size="10" > </font>
    <font size="12" family="Symbol" > -</font>
    <font size="12" > Converts style names to element names</font>
    <font size="10" > </font>
    <font size="12" family="Symbol" > -</font>
    <font size="12" > Converts paragraph, bold and italic elements to names
      of your choice</font>
    <font size="10" > </font>
    <font size="12" family="Symbol" > -</font>
    <font size="12" > Supports namespace prefixes</font>
    <font size="10" > </font>
    <font size="12" > After the data is imported into your document, you can
      clean it up and augment it to become valid.</font>
    <font size="10" > </font>
  </default>
</body>
```

Annotations with arrows point to various parts of the dialog box and the XML output:

- RTF file**: Points to the 'RTF Processor' dialog box.
- XML Prefix**: Points to the 'Pre...' checkbox in the 'Select the element tags to insert:' section.
- Tagnames for RTF body and font**: Points to the 'Body' and 'Font' checkboxes in the 'Select the element tags to insert:' section.
- Imported RTF file (Re-indented using publishing markup option of Foreman tool)**: Points to the XML output window.
- Tagnames for bold, italic and underline**: Points to the 'Bold', 'Italic', and 'Underli...' checkboxes in the 'Select the element tags to insert:' section.
- Indent XML**: Points to the 'Indent' checkbox.
- Collapse spaces**: Points to the 'Space' checkbox.

Select *Import from RTF* from the *Import* menu in the *Markup* menu.

Note: RTF is not a structured format and different applications generate very different kinds of RTF: visual structures apparent to the eye such as tables may not translate to useful markup.



# Quick Indexes

Quick indexes are useful for navigation (even through non-well-formed documents), searches, and report or index generation. Validation results can even be displayed in the List Viewer.

Search field  
(regular expression)

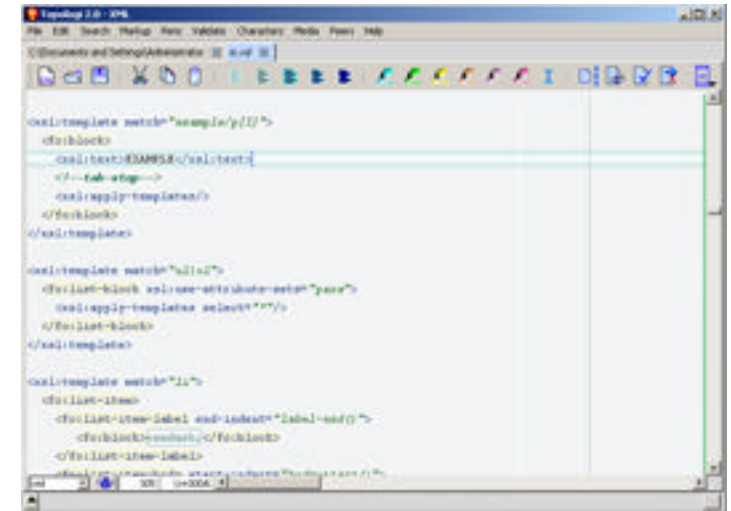
Perform search  
(result in bold)

Perform other search with merged results (other results in plain, to show context)

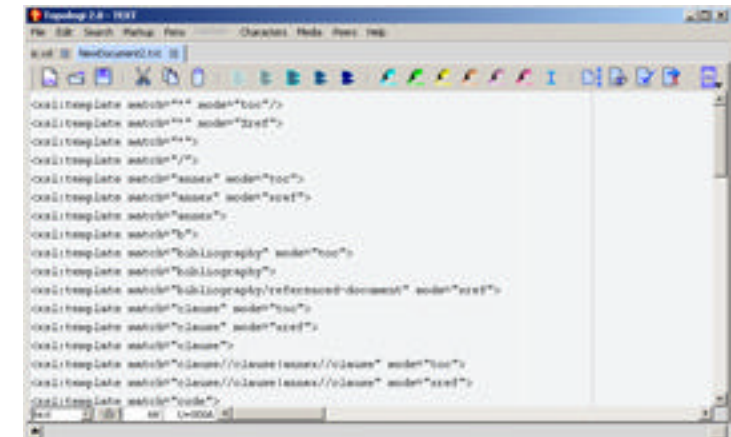
Search results  
(Double click to jump to location in Markup Editor)

Sort by text or by line number

Copy list to clipboard



- Example: What XSLT templates Do I Have?
1. Search XSLT document for all **xs:template**
  2. Sort by text
  3. Copy to clipboard
  4. Paste into editor



Select *List Occurrences* from the Search menu