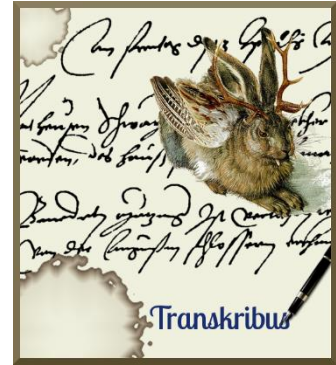


READ-COOP SCE

European Cooperative with limited liability



How To enrich transcribed documents with mark-up

Version v1.9.1

Last update of this guideline: 2/12/2019

This guide will show you how to add mark-up to documents which are already transcribed in Transkribus. This gives you the opportunity to define persons, places and abbreviations. You can add customized tagging categories and search for individual tags in your documents. Additionally the tags can be exported in different formats. More information about the export of tags can be found in the [How to Export Documents from Transkribus guide](#).

Download the Transkribus Expert Client, or make sure you are using the latest version:

- <https://transkribus.eu/>

Consult the Transkribus Wiki for further information and other How to Guides:

- <https://transkribus.eu/wiki/>

Transkribus and the technology behind it are made available via the following projects and sites:

- <https://read.transkribus.eu/>
- <https://transcriptorium.eu/>
- <https://github.com/transkribus/>

Contact:

- The Transkribus Team: email@transkribus.eu

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Introduction

The tagging interface in Transkribus enables you to

- Assign tags to important words or phrases in your document.
- Search for individual tags or tag categories.
- Export the tags you added in different file formats so that you can go on working with them outside of Transkribus.

Tagging interface

- The tagging interface can be found by clicking the “Metadata” tab, and then the “Textual” tab.

The screenshot shows the Transkribus interface with the 'Metadata' tab selected. The 'Textual' sub-tab is active, displaying a table of tags for the current transcript. The table has columns for Tag, Value, Text, and Properties. The text in the 'Text' column is highlighted with yellow, and the corresponding tag is shown in the 'Tag' column. Below the table is a 'Tags' panel with a list of predefined tags and their specifications.

Tag	Value	Text	Properties
organization	Kommit	erscheinenden Komittenscha	
abbrev	Kommit	erscheinenden Komittenscha	expansion: Kommittens
abbrev	ernsth	Komittenschaften zur ernsth	expansion: ernsthaften
abbrev	empfc	ernsthaft überlegung empfo	expansion: empfohlen
textStyle	n	überlegung empfohl werde	strikethrough: true
textStyle	möge	empfohl werden möge, da-	strikethrough: true
abbrev	lezthir	jene beÿ beeden lezthinig k	expansion: lezthinigen
organization	Kongr	beeden lezthinig Kongresse	
organization	Städt	Zusage, lokern, den Städt, G	
abbrev	Städt	Zusage, lokern, den Städt, G	
organization	Gerich	lokern, den Städt, Gerichter	
abbrev	u.	Städt, Gerichtern, u. Gemeir	expansion: und
organization	Geme	Gerichtern, u. Gemeinden be	
abbrev	erheÿ	ledig - oder verheyrath Stan	expansion: verheyrather
abbrev	un-	ein art einer un- gezwunger	

The 'Tags' panel at the bottom shows a list of predefined tags with their specifications:

Tag specification	Color	Shortcut
abbrev	Red	
add	Cyan	
Address	Green	
blackening	Black	
date	Blue	

Figure 1 The “Textual” tab

- If you put a tick at “Show all” at the bottom of the “Textual” tab, all the predefined tags will be shown. You can start working with these right away.



Figure 2 Show all predefined tags

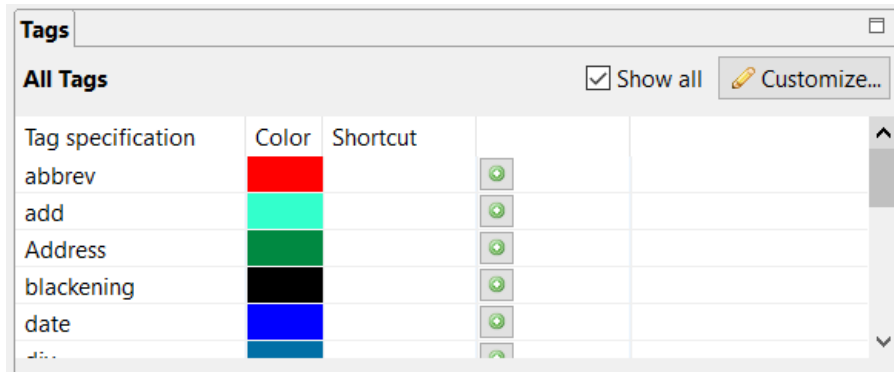


Figure 3 Predefined tags in Transkribus

Create your own tags

- To create your own tag categories, click the “Customize” button in the “Tags” tab. The “Tag configuration” window will open up.

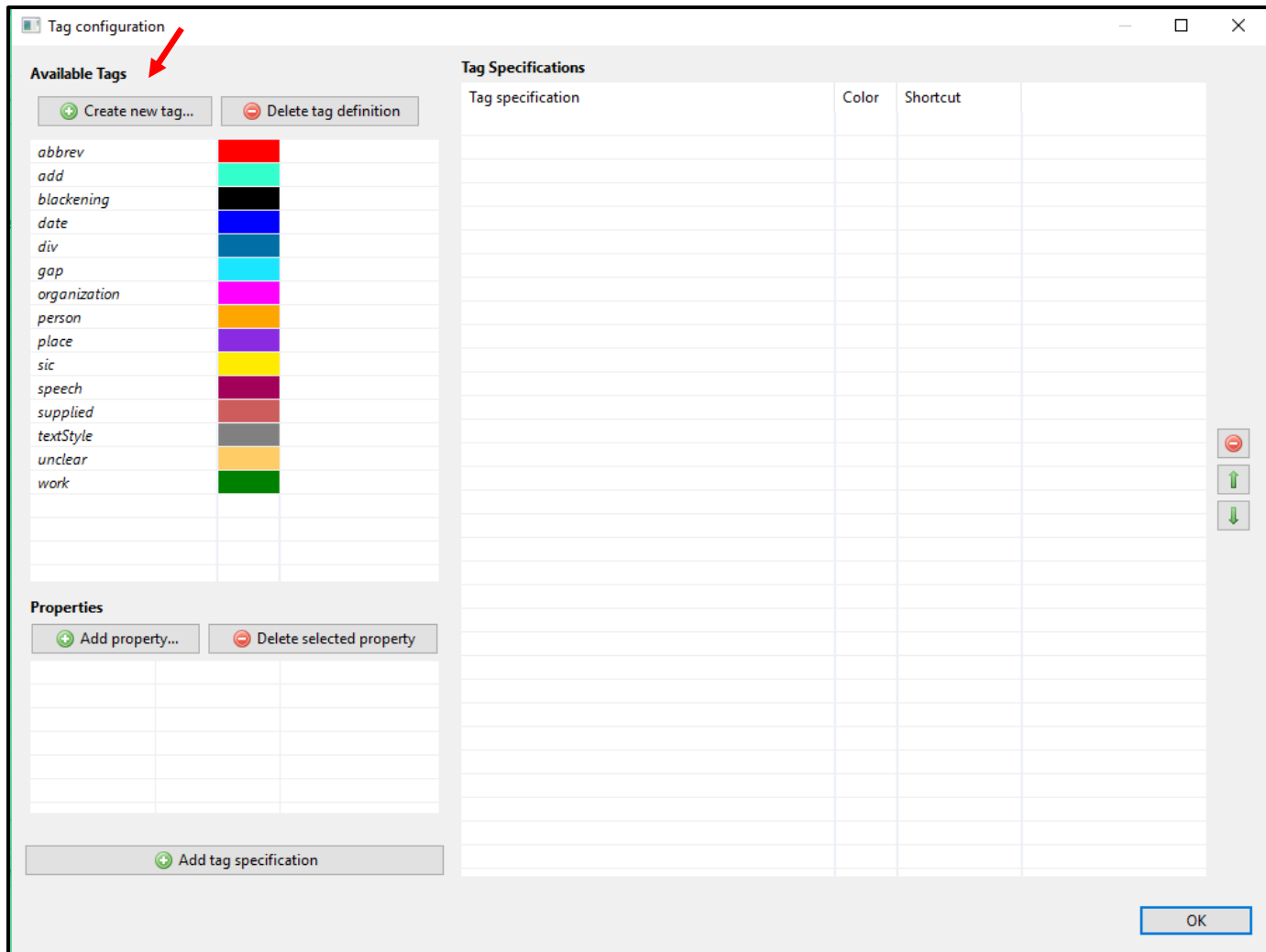


Figure 4 Create your own tags

- With the “Create new tag” button you can add your own tags.
- Once you have created a new tag, it will appear when you click the “Show all” button.
- In the “Tag configuration” window predefined tags are shown in italics, customized ones are shown without italicisation.

Adding tags

- If you want to tag a word or phrase there are three ways (at least) to do it:
 - o Highlight the text in the Text Editor field and afterwards click on the green + button of the tag you want to apply.

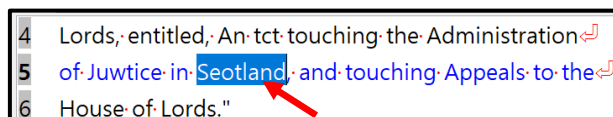


Figure 5 Highlight the word to be tagged

Tag specification	Color	Shortcut	
abbrev	Red		<input type="checkbox"/>
add	Cyan		<input type="checkbox"/>
blackening	Black		<input type="checkbox"/>
date	Blue		<input type="checkbox"/>
div	Dark Blue		<input type="checkbox"/>
gap	Light Blue		<input type="checkbox"/>
organization	Magenta		<input type="checkbox"/>
person	Orange		<input type="checkbox"/>
place	Purple		<input checked="" type="checkbox"/>
sic	Yellow		<input type="checkbox"/>
speech	Maroon		<input type="checkbox"/>
supplied	Brown		<input type="checkbox"/>
unclear	Light Orange		<input type="checkbox"/>
work	Green		<input type="checkbox"/>

Figure 6 Choosing the right tag

- Alternatively, you can highlight the word or phrase and then make a right click with your mouse. Under “All tags” the suitable one can then be chosen.



Figure 7 Tag a word or phrase with right mouse click

- Finally, if there are tag categories you use frequently, you can create a shortcut for them in order to speed up your work. To do so, within the “Textual” tab, click the “Customize” button in the “Tags” tab. In the “Tag Specifications” section, you can now add your preferred shortcut in the “Shortcut” column.

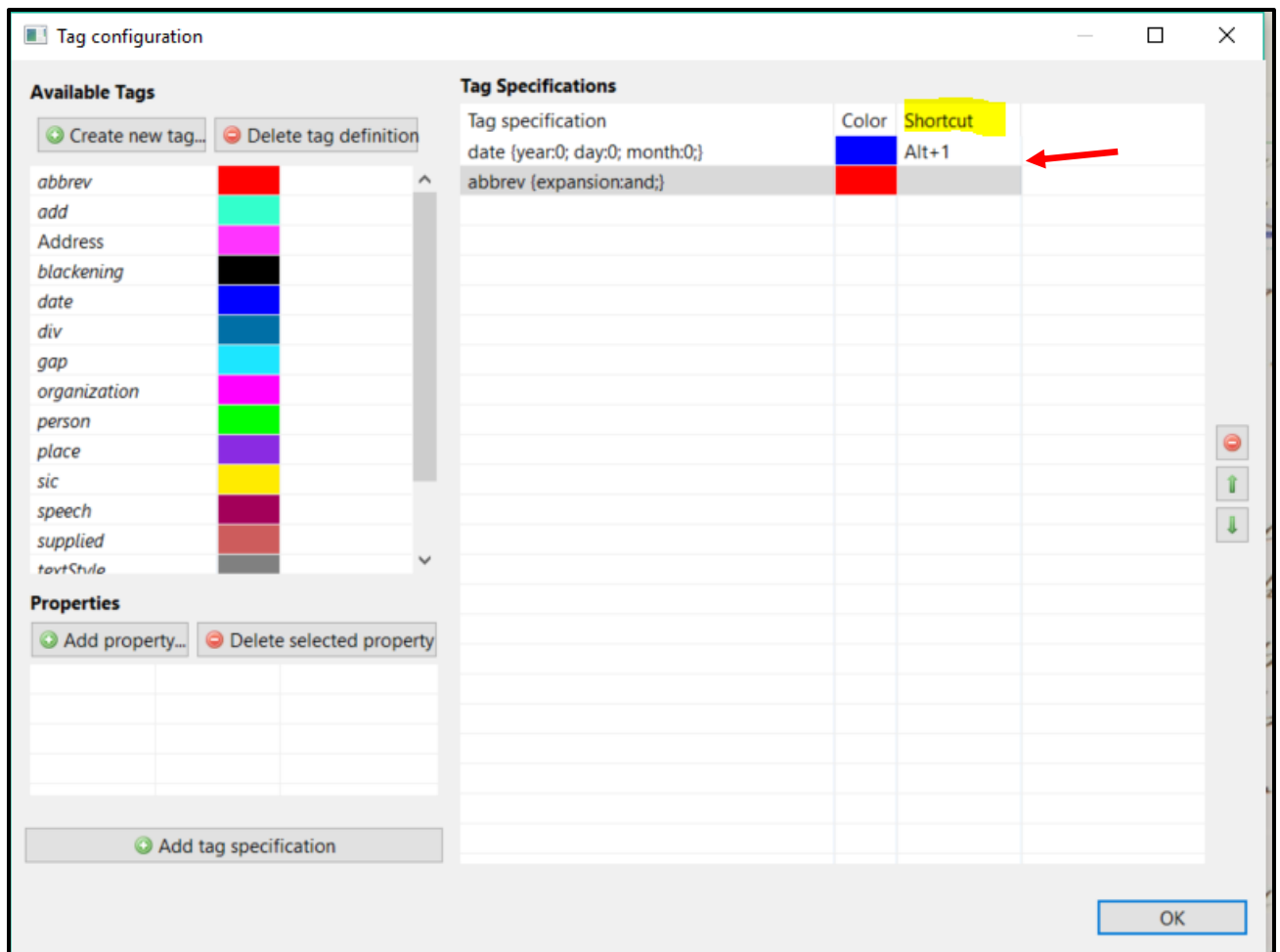


Figure 8 Add shortcuts for frequently used tags

- You can also add a shortcut relating to the properties of your tags, e.g. for expanding abbreviations or adding a standardised country name to a place tag.
 - o Click the "Customize" button in the "Tags" tab.
 - o In the "Tag configuration" window click the desired tag. The details relating to that tag will appear in the "Properties" section.
 - o Click "Add property" to add the property you would like.
 - o Then click "Add tag specification"
 - o Now your tag and its property (e.g. an expansion for an abbreviation) will appear in the "Tag Specification" section of the window.
 - o Add the shortcut you would like to use.
 - o Now you can add the tag and its property by simply highlighting the word or phrase in the Text Editor field and then pressing the short cut.

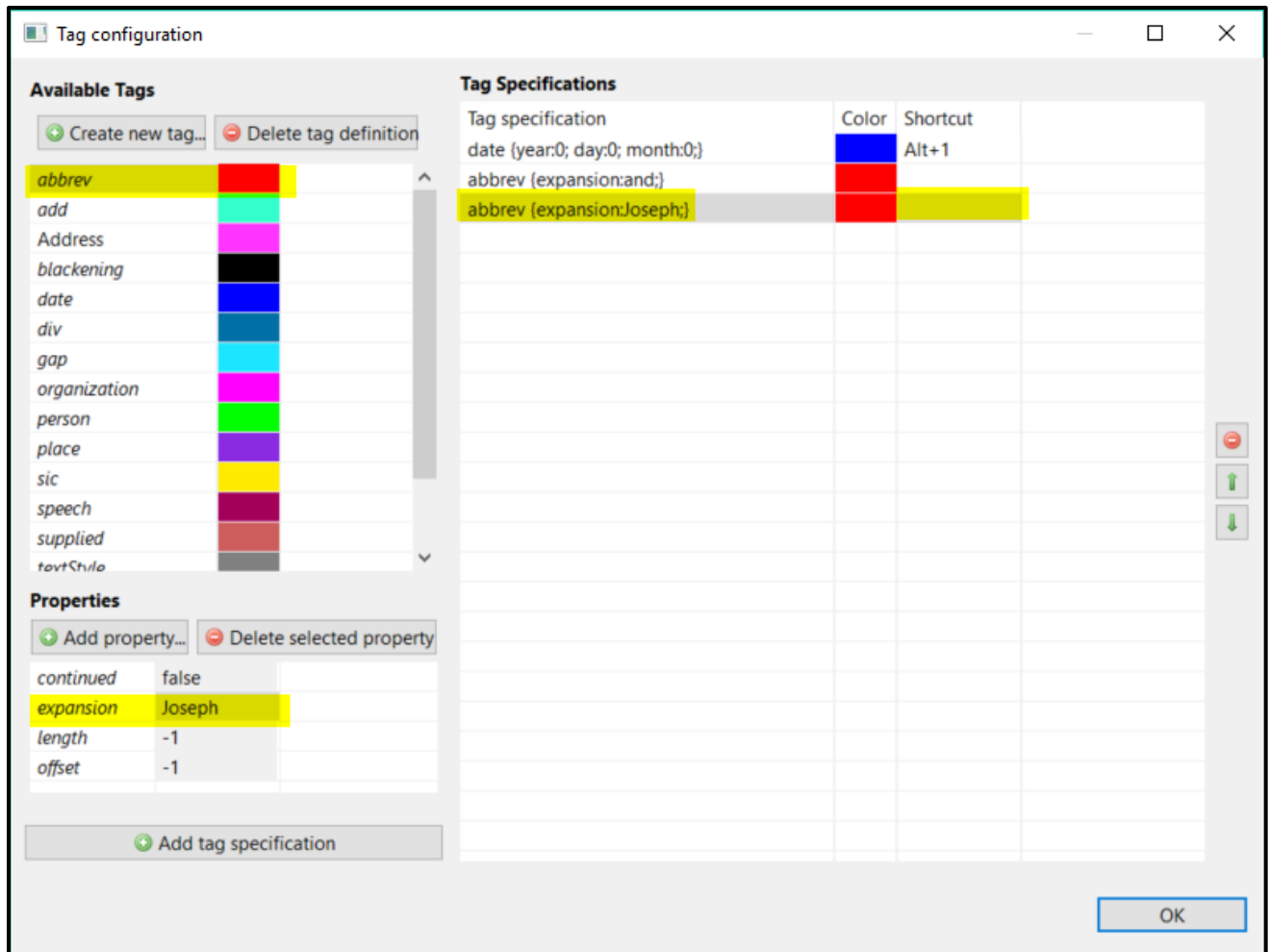


Figure 9 How to add a fixed abbreviation

- If you tagged something by mistake you can undo it by highlighting the word or phrase again, right clicking with your mouse and then pressing the “Delete” button. The program will give you two options:
 - o Delete only the highlighted tag
 - o Delete all the tags for the current collection
- Note: Tags can be applied to text on region, line, word, or even character level. To apply tags to a segmentation element, click on a text or line region in the Canvas image viewer and follow the above instructions.
- Users can apply as many tags as necessary to the text.
- In the “Textual” tab Transkribus will give you an overview of the tags you have put in your document.

Server Overview Layout Metadata Tools				
Document Structural Textual Comments				
Tags of current Transcript				
	Tag	Value	Text	Properties
11	abbrev	ds	Bertolini selbst für ds Pferd 2 f 30 Xr	
12	abbrev	f	für ds Pferd 2 f 30 Xr an- gebothen	
13	abbrev	Xr	ds Pferd 2 f 30 Xr an- gebothen hak	
14	abbrev	f:	habe, und daß um 20 f: zu wenig Ge	
15	organization	Magistr	satze, daß der Magistrat von von dei	
16	abbrev	löb.	hoffe, massen von löb. Kreisamt un	
17	organization	Kreisam	massen von löb. Kreisamt unterm 1	
18	date	14t 9br	Kreisamt unterm 14t 9br abhin und	
19	textStyle	t	Kreisamt unterm 14t 9br abhin und	superscript:
20	abbrev	t	Kreisamt unterm 14t 9br abhin und	
21	abbrev	9br	Kreisamt unterm 14t 9br abhin und	
22	organization	Militar	durchgehends von dem Militar Ver	
23	abbrev	u.	Vertheilungsmagazin besorget, u. vi	
24	abbrev	u	für den Staab u. für die Kompagnie	
25	abbrev	werd.	Kompagnien gefodert werd.	
26	abbrev	H'r	H'r v̇ Mayrl. No 1459.	
27	person	v̇ Mayrl	H'r v̇ Mayrl. No 1459.	
28	abbrev	v̇	H'r v̇ Mayrl. No 1459.	
29	abbrev	No	H'r v̇ Mayrl. No 1459.	
30	textStyle	o	H'r v̇ Mayrl. No 1459.	superscript:
31	organization	Gubern	Gubernial-Circulare d. d.	
32	abbrev	d. d	Gubernial-Circulare d. d. 4t, præ. 2i	
33	date	4t	Gubernial-Circulare d. d. 4t, præ. 2i	

Figure 10 Overview of tags

Historical letters and abbreviation signs

- In modern documents the handling of abbreviations is less important, but in historical documents it is a complex and challenging task.
- In earlier time periods words were often heavily abbreviated, in the hope of writing faster or saving paper. In some documents more than 20 or 30% of all words are abbreviated as shown in the figure below:

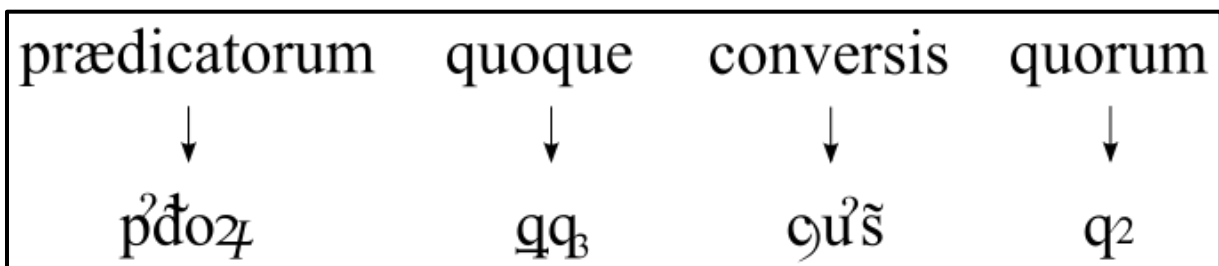


Figure 11 Examples of typical abbreviations in Latin text of the Middle Ages
(cf. Wikipedia: https://en.wikipedia.org/wiki/Scribal_abbreviation)

- Again there are two main options to transcribe abbreviated text:
 - o **Option 1:** Expand abbreviations in the usual way. Neural networks are often able to learn to recognise and reproduce expansions. E.g. Latin prefixes and suffices such as

- “cum”, “con” or “us” and “orum” are learned easily by the machine. This means that you just need to provide an expanded version of the text in your transcription.
- **Option 2:** Keep to the rule mentioned above– as long as you can recognize the base character – **transcribe the base character**. This rule is especially suited to historians and people interested in the “content” of a document and those who want to provide training data for the HTR engine.
 - Note: When it comes to HTR training, tags are not relevant yet. Developments in Named Entity Recognition technology should make the automated recognition of tags possible in the future.
 - Therefore the correct transcription for the examples above would be simple:
 - **pdor – qq – cus – qr**
 - Note: In the future HTR engines may also learn to automatically expand these abbreviations (or to supply the correct abbreviation for an expansion) so that computer assisted transcription may be supported.
 - **Option 3:** If you are also interested in using Unicode characters which are near to the **special graphemes** of the original document, then you can transcribe the text by utilizing the full power of Unicode.
 - In this case the transcription of above could look like the following:
 - p[?]: LATIN SMALL LETTER P COMBINING OGONEK ABOVE
 - đ: LATIN SMALL LETTER D WITH MIDDLE TILDE
 - o: LATIN SMALL LETTER O
 - Ț: LATIN SMALL LETTER RUM ROTUNDA. Also LATIN SMALL LETTER R ROTUNDA may be used to represent this letter.
 - **Note:** In real-world cases it is often hard to decide which diacritic, modifier letter or Unicode character may be the right one. You may consult the MUI website to get more information on this issue (cf. section “References”):
<http://folk.uib.no/hnooh/mufi/>
 - Unicode and other special characters can be found in the “Virtual keyboards” button in the Text Editor menu.

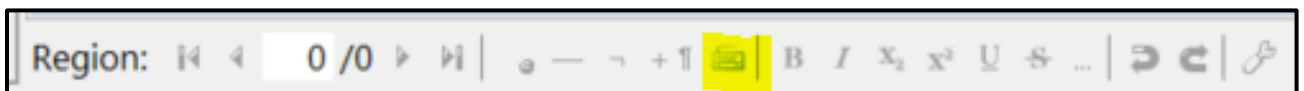


Figure 12 “Virtual” keyboards button

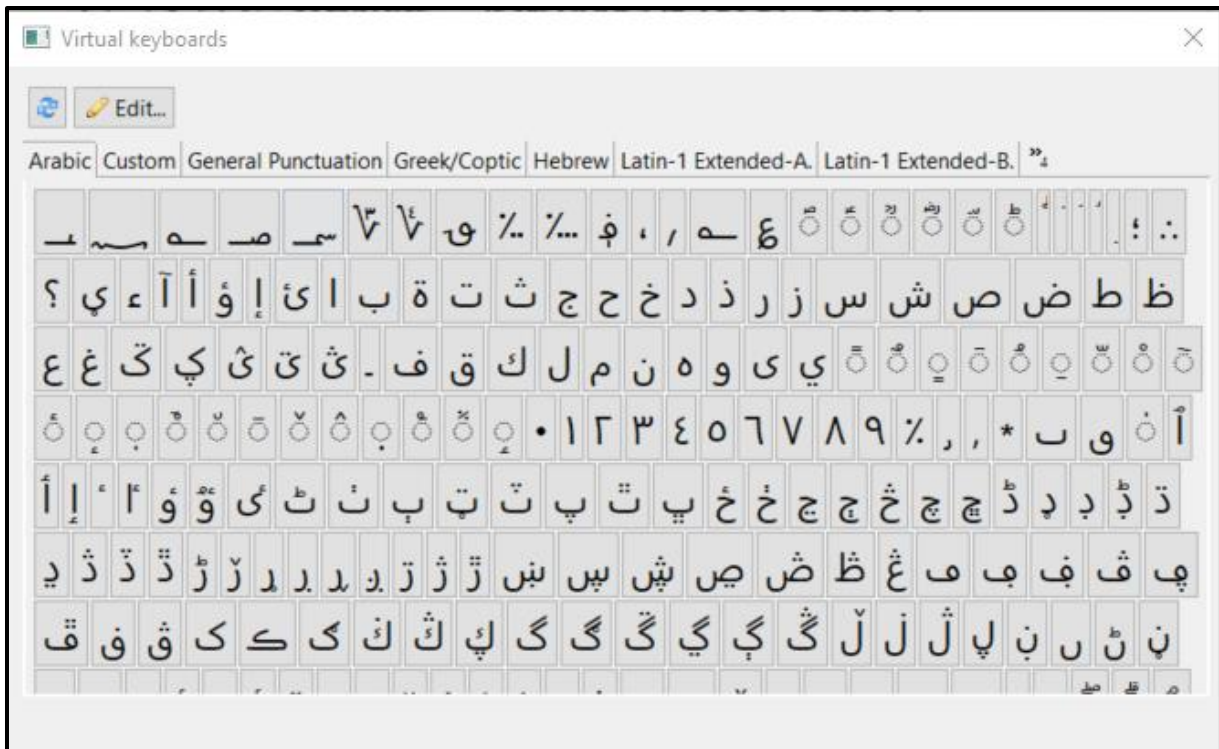


Figure 13 “Virtual keyboards” window

- Of course **mixed models will often be useful**. E.g. frequently occurring historical characters may be transcribed with their correct Unicode letter, whereas characters which were used just by a specific writer may be transcribed with their base character. You should note such editorial decisions in the “**Editorial Declaration**” in the “Document” tab, within the “Metadata” tab so that your transcription rules are transparent to other users.
 - o **Example:** LATIN SMALL LETTER RUM ROTUNDA **ꝛ** is regularly used in medieval and early modern texts. Therefore it might be useful to introduce this letter to an HTR model which deals exclusively with medieval documents and is dedicated to processing large amounts of such documents.

Illegible text

- Text which cannot be transcribed since it is illegible can be marked with the tags “unclear” or “gap”.
- If the text is unclear, highlight it in the text editor field and tag it as “unclear”.
- If text is impossible to read, click your cursor where the text appears in the text editor field and add the “gap” tag.
- You may also add alternatives or suggestions for the illegible word in the “Properties” section of the tag.

Deletions

- If you discover deleted text you have several options:
 - o **Option 1:** The text which is deleted is **still readable**, or at least large portions are readable. In this case transcribe the text as well as possible and mark it as strike through. You can find the “strike through” button in the Text Editor menu.

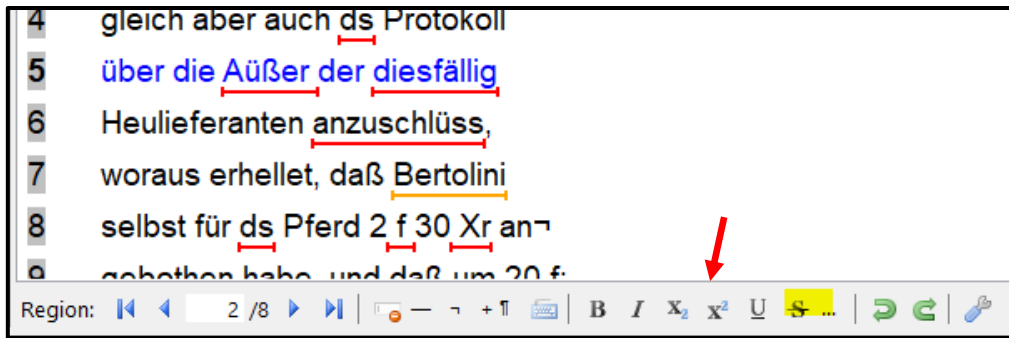


Figure 14 Strike through button

- Note: HTR engines are able to decipher strike through text and the more examples they have, the better.
- **Option 2:** The text which is deleted is **illegible**, or only small parts can be read. In this case use the “gap” tag to indicate that there is some text which is illegible.

Black out text

- The “blackening” tag can be used to redact sensitive information in the export formats. Typically this is used to hide personal data in a document which is made publicly available.
- The blackening tag is used in conjunction with the “blackening” region which must be added with the segmentation tools.
- To blacken part of your text:
 - Use the drop down menu on the “+...” segmentation element button on the Canvas menu and select “Blackening”. Use the “Blackening” region to mark the word or section that you want to hide.
 - Note: Click the “Item visibility” button on the Main menu and select “Render blackenings” to display the blackened sections on a page.
 - Highlight the corresponding word in the Text Editor field and select the “Blackening” tag. In the export of the document the text will be replaced by: [...].
 - When you export your document, make sure that “Do blackening” is selected.
 - Note: In METS and TEI files the word or phrase is blacked out but the information behind the blackened section is kept. In other file formats, the text behind the blacked out section is completely obscured.

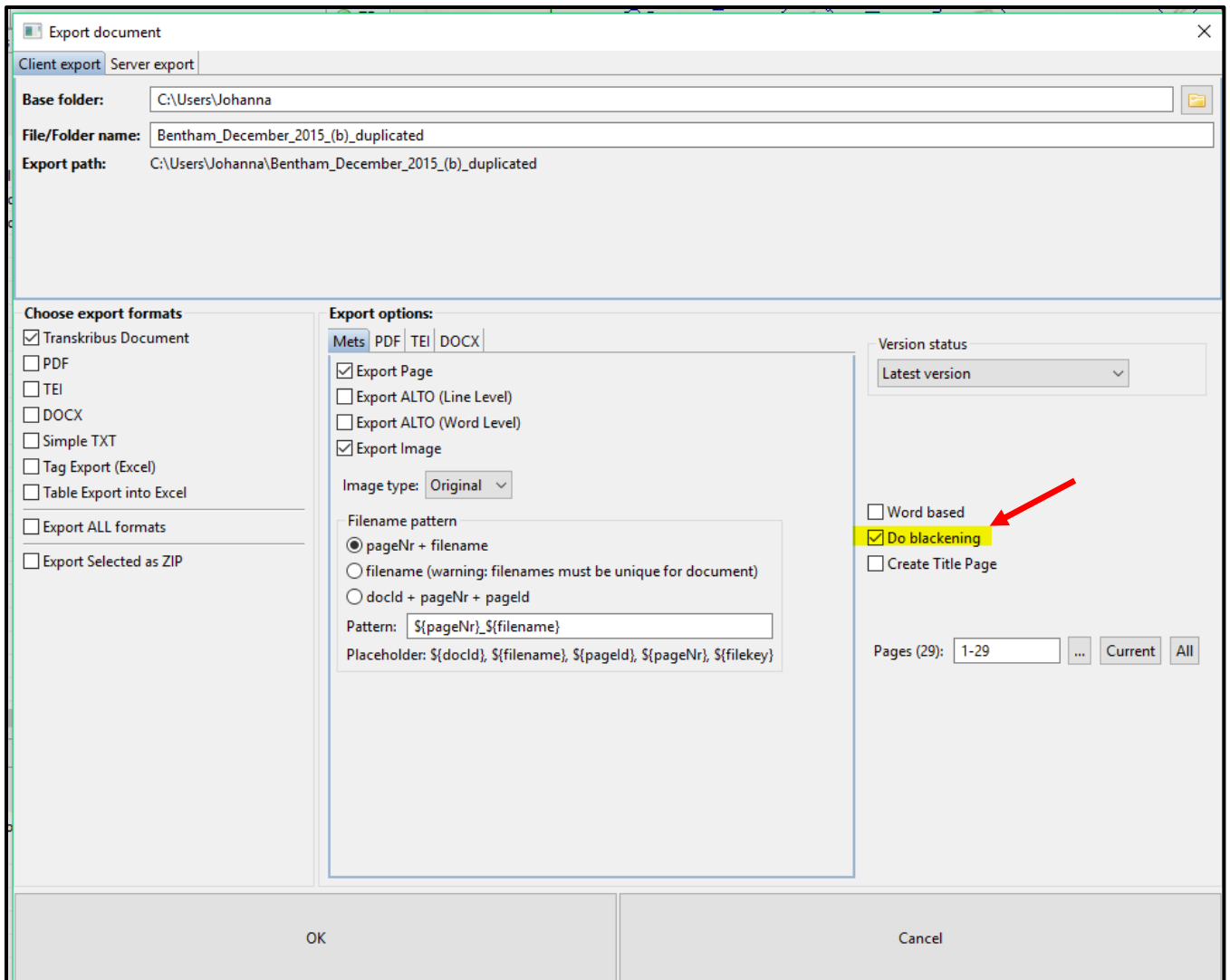


Figure 15 Select "Do blackening" to hide image regions and text in exported files

Searching for tags

- If you need to search for distinct tags click the binoculars button in the "Textual" tab.

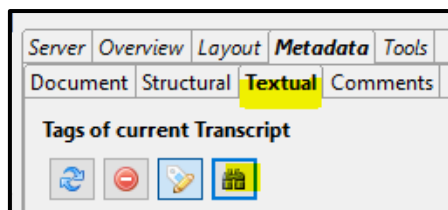


Figure 16 Binoculars button for tag search

- In the window which will open up you can define your search
 - o Choose where you would like to search (current collection, current page...)
 - o Line or word level
 - o In the "Name" field put the name of the tag
 - o In the "Text" field put the written text
 - o Press the "Search!" button
 - o The search results will appear at the bottom of the window.

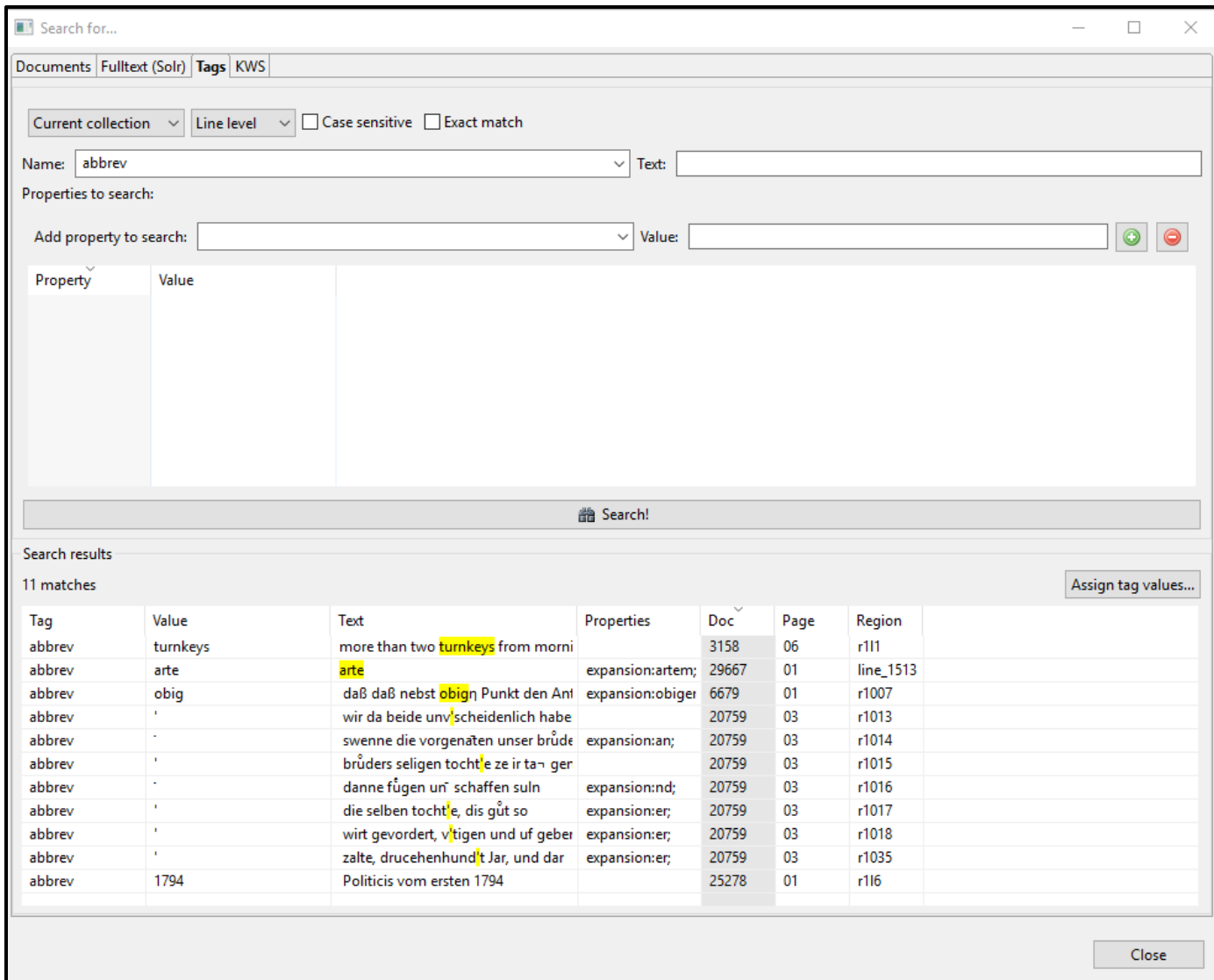


Figure 17 "Search for.." window for tag search

- To quickly add an expansion or another property to a word which appears several times in the text:
 - o Sort the searching results by "Value". This is done by simply clicking on "Value".
 - o Mark the similar words by clicking them while holding the "Control" button on your keyboard.
 - o Then click the "Assign tag values..." button and type in the property that should be added.

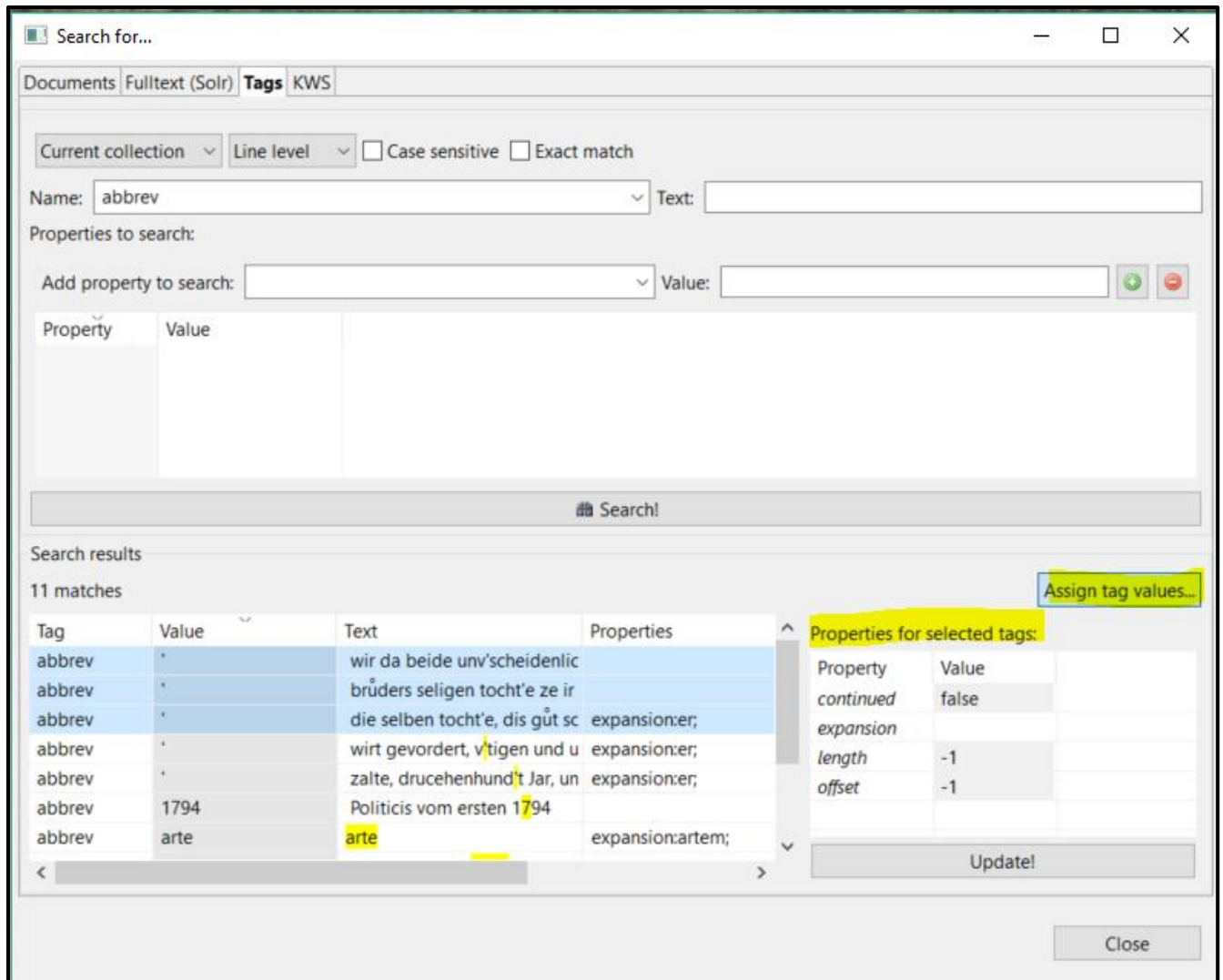


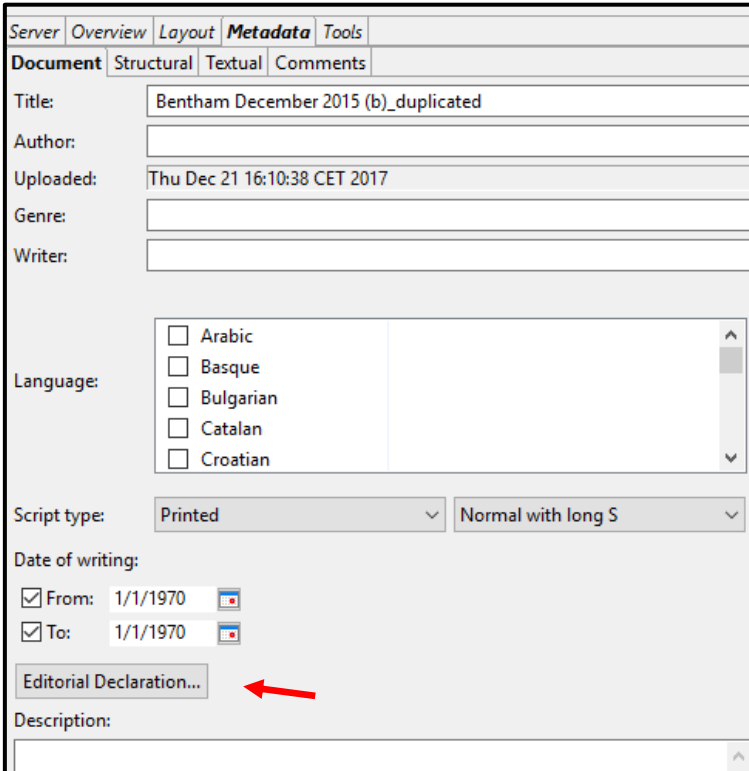
Figure 18 Speeding up your work by adding properties to more words or phrases at the same time

Metadata

- We are currently supporting only a very simple description of documents since we assume that in a Digital Edition most of the metadata would reside on an external server and be linked to the document. Every document has its unique ID and can be accessed also via the REST services provided by the Transkribus platform (<https://transkribus.eu/wiki/>).
- The following fields are currently available in the “Document” tab, within the “Metadata” tab:
 - o Title
 - o Author
 - o Uploaded
 - o Genre
 - o Writer
 - o Language
 - o Script type
 - o Date of writing
 - o Description

Editorial Declaration

- Since there are always several ways to produce a correct transcript of a text it is important to be transparent about the way in which the transcription was undertaken.
- For this purpose we have included a special feature in Transkribus, called “Editorial Declaration”. This is found in the “Document” tab, within the “Metadata” tab.
- As with the tagging system, the “Editorial Declaration” offers a set of predefined features and options. Moreover you are able to create your own descriptions and to store them together with your document.
- It is especially important to list special characters and their use in the Editorial Declaration using the form:
 - o Character Set Extension: LATIN SMALL LETTER LONG S (U+017F)



The screenshot shows the 'Metadata' tab in the Transkribus interface. The 'Document' sub-tab is active. The form contains the following fields and options:

- Title: Bentham December 2015 (b)_duplicated
- Author: (empty)
- Uploaded: Thu Dec 21 16:10:38 CET 2017
- Genre: (empty)
- Writer: (empty)
- Language: A list of languages with checkboxes: Arabic, Basque, Bulgarian, Catalan, Croatian.
- Script type: Printed (dropdown), Normal with long S (dropdown)
- Date of writing: From: 1/1/1970, To: 1/1/1970 (both with checkboxes and calendar icons)
- Editorial Declaration... (button, highlighted with a red arrow)
- Description: (text area)

Figure 19 Create your Editorial Declaration button

Credits

We would like to thank the many users who have contributed their feedback to help improve the Transkribus software.