Transcribing a manuscript with TEI



What does 'digitization' mean?

(Not the same as 'digitalization'!)

- production of digital images of the pages of a manuscript a facsimile
- production of a transcription of the content of a manuscript

For manuscripts, the two are often complementary



Facsimile and transcription together



http://www.akteon-elib.ru/LITsleVOI-LIeTOPISNYI-SVOD-Russkaya-letopisnaya-istoriya-Kniga-6/#24



Transcription is not an automatic process

инопоуградоу . неревтенноуюрать . инопоуградоу . неревтенноуюрать . инеоусты декапротипоуйстати .

и сына своего взя из Витепска, и поиде к Новуграду, и срете иную рать, и не устыдеся противу их стати, и

а сына своего взял из Витебска и пошел к Новгороду. И встретил иную рать, и встал против них,



Transcription: a special kind of reading



What is the goal of your transcription?

- to make a primary source accessible ...
- ... but also comprehensible
- which may imply adding (or suppressing) a lot of information

Because...

- all transcription is selective
- all transcription is imaginative

MS5045 Russian Musical Manuscript, from



Transcription

What does a transcription add to a simple facsimile?

Transcribers typically try to make explicit:

- (some) original layout information
- abbreviations and other strange symbols
- 'evident' errors which invite correction or conjecture
- scribal additions, deletions, substitutions, restorations
- non-standard orthography (etc.) which invites normalisation
- irrelevant or non-transcribable material
- passages which are damaged or illegible



What kind of transcription do you want?

- <teiHeader>: provides metadata for the whole thing, at various levels, typically including a <msDesc>
- <text>: contains a structured reading of a document's intellectual content ... its 'text'
- <facsimile>: organizes a set of page images representing a document
- <sourceDoc>: a non-interpretative transcription of a physical document, e.g. for a dossier génétique

Does your transcription represent a 'text' or a 'document'?



How is your transcription organised?

- Just pages or folios, composed of blocks or lines
- Sections, paragraphs, verse lines, lists, sentences ...
- Or both?



Layers of transcription

лота сновы свонего сын THE BYTODIH ABPARALA HZH ДЕ НАБРАНЬ САКЛОГОДІАВО 14, northathers. HEL **ЕВРАТИТИ ДЫЩЕРЕ БРАТА** споно пришелане абин MANTETO HELLELL BL гостипницю . гледаше CAMO HWHAMOO YOUTE BHIT TH. BACKAAFHBILECE KETOCTHMHHIKOV . APOVINE CASILLIAND HILAD HICOHANA MHZYL TRIHO TORLON. PP Charte LALL MAZON EE. W HILL BULLER OR POOT HEIR ванны него, поразоудав нако блоуда рады выпраша нть ни. потоды швеща

- Paleographic level: identification of characters and graphemes
- Documentary (or diplomatic) level: decide what has been written
- Editorial or semantic level: decide how it should be read



minimal encoding

лота сновы свонго сын THE BTOOPIH ABPAANIS, HZH ДЕ НАБРАНЬ САКЛОГОДІАВО 14, northathero. HEL **ЗБРАТИТИ** ДЬЩЕРЕ БРАТА споно пришелане абин MANATETO HELLICLE BE гостипницы . Гледаше CAMO HWHAMO YOUTE BHIT TH. BACKAAFHBIKECE PEYE KETOUTHHHHKOY . APOYTHE CALILLAND HIND HICOHANA MHSY4 TRHIO YORLON. EP charts dans margin EE. W ните видывы старостивий еванный него, порагоудав нако блоуда рады выпраша нть ни. потобы мвеща

```
<pb n="7r"/>
<1b/>лота сновы сво□го. сьи
<lb/><lb/>же вт<gi>oo</gi>рїи
авраамь, изи
<lb part="n"/>де на брань
самого дїаво
<lb part="n"/>ла, поб□дити
Пго. и вы
<lb part="n"/>звратити дьщере
брата
<lb/>cвo□r<gi>oo</gi>. пришед
же аби□
<lb/>lb/>на м□cт<gi>>oo</gi>. и
вьшедь вь
<1b/>гостинницю. гледаше
<lb/>caмо и Пнам<gi>oo</gi>
хоте вид□
<lb part="n"/>ти. вьсклабив
же се рече
<1b/>кь гостинникоу. дроуже
<1b/>слышаль 🛮 смь. 🗓 ко има
                            TEI
<lb part="n"/>ши зд□ Двцю
доброу. вь
<lb/>\/>сласть да се назою ее
```

Representation of the physical structure

- The physical organisation of a manuscript (its binding, folios, leaves, pages, columns) rarely, if ever, corresponds with its logical organisation (sections, chapters, paragraphs, lines)
- Whichever we choose to represent in our XML structure, we will have to represent the other using empty 'milestone' elements
- For example, in the logical view, we can use <gb>, <pb>, <cb>,
 or <lb> to indicate the start of gatherings, pages, column or
 lines
- Or in the physical view, we could use a <milestone> to indicate the starts of divisions, paragraphs, etc.



Characters and glyphs

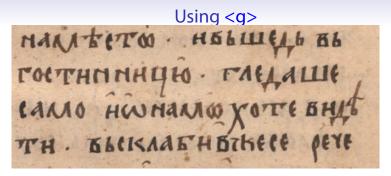
 the same character may be represented in many different forms

• e.g. **Q** Q Q **a** a a ... ==> U+0061
• e.g. **S** ==> U+0073
$$\int ==> U+017F$$

• the character or glyph we see may not yet exist in Unicode

The <g> element allows us to indicate the presence of a specific glyph, or a non-Unicode character





Bdinski, fol 7r, detail

There is no Unicode character for the ligatured oo here: we tag it as

Bdinski, fol 7r, detail

#ooGlyph points to a description of the glyph, provided in the header.



Abbreviations &c.

In Western MSS, we commonly distinguish:

Suspensions the first letter or letters of the word are written, generally followed by a point: for example 'e.g.' for 'exempla gratia'

Contractions both first and last letters are written, generally with some mark of abbreviation such as superscript strokes, or points: e.g. 'Mr.' for 'Mister'

Brevigraphs Special signs such as the Tironian *nota* used for 'et', the letter p with a barred tail used for 'per', the letter c with a circumflex used for 'cum' etc.

Superscripts Superscript letters (vowels or consonants) used to indicate various kinds of contraction: e.g. 'w' followed by superscript 'ch' for 'which'.

Most of the symbols needed are available in Unicode, though not necessarily in all fonts.

Abbreviation and Expansion

An abbreviation may be viewed in two different ways:

- as a breakicular sequence of letters or marks upon the page: thus, a 'p with a bar through the descender', a 'superscript hook', a 'macron'
- as an alternative way of representing a sequence of letters: thus, 'per', 're', 'n'

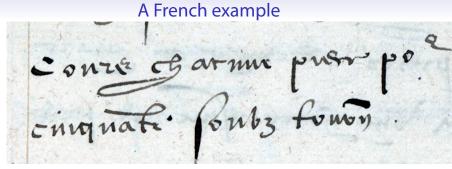


Two sets of tags

TEI proposes elements for two levels of encoding:

- the whole of an abbreviated word and the whole of its expansion may be marked using <abbr> and <expan> respectively
- abbreviatory signs or characters and the 'invisible' characters they imply may be marked using <am> and <ex> respectively





We might just note that we have expanded the abbreviations:

```
<1b/>Cours chacune piece <expan>pour</expan>
<1b/><expan>cinquante</expan> soubz <expan>tournois</expan>
<pc>.</pc>
```



... or we might just record the abbreviated forms

As you noticed, 'pour' was actually written 'po' followed by an 'r' subscript; 'cinquante' as 'cinquate' with a macron on the 'a' to indicate nasalisation.

```
<abbr>po&#xFFFD;</abbr> .... <abbr>cinqu&#x0101;te</abbr>
```



... or we might look a bit closer

.We can tag the abbreviation markers and the expansion directly

```
 po<am>&#xFFFD;</am> ... or po<ex>u</ex>r
```

... or within the <abbr> or <expan> as appropriate

```
<abbr>po<am>&#xFFFD;</am></abbr>
```

```
<expan>po<ex>u</ex>r</expan>
```



Or we might want to show there's a <choice> ...

The <choice> element wraps alternative mutually exclusive ways of encoding the same phenomenon:

- <choice> (groups alternative editorial encodings)
- Abbreviation:
 - <abbr> (abbreviated form)
 - <expan> (expanded form)
- Errors:
 - <sic> (apparent error)
 - <corr> (corrected error)
- Regularization:
 - <orig> (original form)
 - <reg> (regularized form)

Not intended for use with textual variants (for which, use <app>)



Types of abbreviation
The @type attribute on <abbr> is a useful way of categorising abbreviations, whether for statistical purposes, or to allow for different types to be rendered differently:

```
<choice>
 <abbr type="brevigraphe">po<am>&#xFFFD;</am>
 </ahhr>
 <expan resp="#LB">po<ex>u</ex>r</expan> en <choice>
  <abbr type="suspension">fin<am>.</am>
  </abbr>
  <expan>fin<ex>ir</ex>
  </expan>
 </choice>
</choice>
```

As elsewhere, the @resp and @cert attributes can be used to indicate who is responsible for an expansion, and the degree of certainty attached to it.

This encoding might be displayed as: 'po(u)r en finir [LB]'



Corrections and emendations

The <sic> element can be used to indicate that the reading of the manuscript is erroneous or nonsensical, while <corr> (correction) can be used to provide what in the editor's opinion is the correct reading:

```
<sic>relea</sic>
<corr>relicta</corr>
```

The two may be combined within a <choice> element:

```
<choice>
  <sic>relea</sic>
  <corr cert="high">relicta</corr>
  <corr cert="low">relatio</corr>
</choice>
```



Different regularization strategies (1)

```
Какъ вътеръ мокрый, ты бъещься въ ставни,
Какъ вътеръ черний, поещь: ти: мой!
```

Since orthographic regularization (for example for retrieval purposes) is not always predictable:

A transcriber may elect to regularize silently...

```
<l>Как ветер мокрый, ты бьешься ставни,</l>
```

... or to indicate which words have been regularized:

```
<reg>Как</reg> <reg>ветер</reg>
мокрый, ты бьешься <reg>в</reg> ставни,</l>
```



Different regularization strategies (2)

... or to indicate both regularized and original forms:

The same techniques may be used for corrected (<corr>) and erroneous (<sic>) forms



Additions, deletions, substitutions

Alterations made to the text, whether by the scribe or in some later hand, can be encoded using <add> (addition) or (deletion).

Where the addition and deletion are regarded as a single act of *substitution*, they can be grouped together using the <subst> (substitution) element

```
half blind;
```

```
<subst>
  <del>half-</del>
  <add>all</add>
</subst> blind
```



```
And towards our distant rest began to trudge,

And towards our distant rest began to trudge,

Helping the worst amongst us, who'd no boots all

But limped on, blood-shod. All went lame; hatf. blind;

Drunk with fatigue; deaf even to the hoots

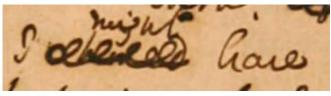
Of tires, outstripped ful five-nines that dropped behind.
```

```
<l>And towards our distant rest began to trudge,</l>
<1>
 <suhst>
   <del>Helping the worst amongst us</del>
   <add>Dragging the worst
       amongt us</add>
 </subst>, who'd no boots
</1>
<1>But limped on, blood-shod. All went lame: <subst>
   <del status="shortEnd">half-</del>
   <add>all</add>
 </subst> blind:</l>
<1>Drunk with fatigue ; deaf even to the hoots</l>
<1>Of tired, outstripped <del>fif</del> five-nines that dropped behind.</l>
```



Semi-legible text

Use <unclear> if the text is breakly illegible i.e. it can be read but without perfect confidence.



```
I <subst>
  <add place="above">might</add>
  <del>
    <unclear reason="overinking"
        cert="medium" resp="#LDB"> should</unclear>
    </del>
</subst>have
```



Damage to the carrier

In the bosom of one of the spacious cover when tent the cartern's shore of the that broad expansion over denominated by the ancient Dutch navigators of those waters the Tappaan Lee, and

Use the <damage> element to record the existence of physical damage to the document, whether or not the damaged text is readable:

IN the bosom <damage group="1">o</damage>f one of those spa lb n="2"/>cious coves wh<damage group="1">ich inde</damage>nt the eastern <lb n="3"/>shore of the <damage group="1">Hudson, at </damage>that broad <lb n="4"/>expansion <damage group="1">of the r</damage>iver denominated <lb n="5"/>by the ancie<damage>nt</damage> Dutch navigato

Supplied text (1)

Use the <supplied> element if the transcriber has provided a reading not actually visible in the text, perhaps because of scribal error, or for some other reason:

```
...Dragging the worst among<supplied reason="authorialError"
  cert="high">s</supplied>t us...
```

Attributes can be used to qualify the information further:

- @reasonwhy the text has had to be supplied (any word)
- @sourcesource (if any) from which the text was taken (a pointer)
- @resp who is responsible for supplying this markup (a pointer)
- @certthe degree of certainty associated with the markup (high, medium, or low)



Supplied text (2)

Here, "#DJB" has decided to fill a lacuna in the source being transcribed using material from edition "ed23":

Alternatively, a <gap> element could be used to show that text is missing:

30/32

Editorial phrase-level elements

A summary list of some of the more important phrase-level transcription elements might include:

- Core module: <abbr>, <add>, <choice>, <corr>, ,<expan>, <gap>, <orig>, <reg>, <sic>, <unclear>
- 'transcr' module: <am>, <damage>, <ex>, <metamark>,<mod>, <redo>, <restore>, <retrace>, <space>, <subst>,<supplied>, <surplus>, <transpose>, <undo>



Some difficulties

These methods are adequate for simple cases but rapidly encounter problems when:

- overlap happens (as it always does)
- the sequence of scribal interventions is important
- the layout and the meaning of the writing are not easily separable

The TEI offers additional features for transcription of modern manuscripts, in which these problems are breakicularly common.

