

The
TRANSLITERATOR

for ConTEXt

MANUAL

The *Transliterator* module and mini-manual,
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USAGE AND FUNCTIONALITY

OVERVIEW

The Transliterator provides two commands: `\setuptransliterator` preferably goes into the preamble and allows for global configuration. The Transliterator is invoked locally by `\transliterate` which does the actual transliteration of text passages.

```
\setuptransliterator [.,.*.,.]
* mode      = ru_old ru_ru_transcript_de ru_transcript_de_exp
               ru_transcript_en all sr_tolt sr_tocyt bg_de isog_ocs ocs
               ocs_gla ru_cz ocs_cz gr gr_n
* hyphenate = cs sk hr
* hinting   = yes no
* sr_exceptions = yes no
```

```
\transliterate [.,.*.,.]
* inherits from \setuptransliterator
```

LOADING AND CONFIGURING THE MODULE

In order to use the Transliterator in a document we put the following somewhere before `\starttext`.

```
\usemodule[transliterator]
```

Although it has some defaults already set at this point they will most likely not correspond to what is needed in the document. To override the presets we use the command `\setuptransliterator[#1]`. It takes a comma separated list of two key-value pairs: `mode` and `hyphenate`. Through `mode` we specify the transliteration method. By the time of this writing this can be one of the following set:

mode	description
<code>all</code>	ISO 9 complete
<code>bg_de</code>	Bulgarian, German „scientific“ transliteration
<code>gr</code>	transliteration for Greek
<code>gr_n</code>	transliteration for Greek obeying nasalizations
<code>isog_ocs</code>	== <code>all</code> plus non-ISO additions for Old (Church) Slavonic
<code>ocs</code>	“scientific” transliteration for Old (Church) Slavonic
<code>ocs_cz</code>	Czech transcription for Old (Church) Slavonic
<code>ocs_gla</code>	“scientific” transliteration for Old (Church) Slavonic / Glagolitic alphabet
<code>ru</code>	ISO 9 Russian
<code>ru_cz</code>	Czech transcription for Russian
<code>ru_old</code>	ISO 9 Russian plus pre-1918 chars (the default)
<code>ru_transcript_de</code>	German transcription for Russian
<code>ru_transcript_en</code>	English transcription for Russian
<code>sr_tocy</code>	Serbian, Latin to Cyrillic
<code>sr_tolt</code>	Serbian, Cyrillic to Latin
mode	description

Nota bene: The description at this point only serves as a placeholder as the transliteration modes are discussed in detail later in this document.

Through the `hyphenate` argument it is possible to adjust the language that is used for hyphenation. Specifying `\setuptransliterator[hyphenate=nl]` will let every transliterated part of the document be processed according to dutch rules, leaving the overall `\language[#1]` configuration unchanged for the rest of the content.

The actual transliteration is done using the macro `\transliterate[#1]{#2}`. The second argument takes the raw string in the original language that we want to process, while the first, optional argument accepts local adjustments for `mode` and `hyphenate`. Thus, we would typeset one of Epicuros' sayings like this:

```
\transliterate[mode=gr]{κακὸν ἀνάγκη, ἀλλ’ οὐδεμία ἀνάγκη ζῆν}
```

μετὰ ἀνάγκης}

which yields “kakon anagkē, all’ udemia anagkē zēn meta anagkēs” in the pdf output. Alternatively there is an environment, `\starttransliterate{#1}`, as well, that takes the same arguments.

There are two special switches for the *Serbian* patterns, `hinting` and `sr_exceptions`, allowing for a little more fine-tuning. If activated, hinting provides the special character “*” as a means to indicate positions, where the sequences “lj” and “nj” are to be treated as separate consonants. E. g. `\transliterate[mode=sr_tocyl]{in*jekcija}` is correctly transliterated as ињекција, and not ињекција. Likewise, further exceptions that are internally represented as a lookup table can be toggled off or on by the `sr_exceptions` switch. This pertains to words like “nadživeti” (result: надживети) but may lead to accidental false positives in cases that the module author didn’t foresee. By default both hinting and lexical exceptions are set to `yes`.

For orientation purposes the Transliterator comes with two macros that allow for closer inspection of the internal tables. `\showOneTranslitTab{#1}` outputs, obviously, a single table; their identifiers can be found in the `trans_tables_*.lua` files in the transliterator directory. The lazy alternative is `\showTranslitTabs` which prints all registered tables in a row nicely formatted as indexable sections. (Be warned, this may take some time.)

INTRODUCTION

What's all this, then?

GRAHAM CHAPMAN

At the first glance, *transliteration* – the accurate representation of letters from one alphabet in another – seems obsolete after the advent of Unicode which made its way even into TeX lately. Why not just go on and write down everything in the original script? But still there are lots of situations where transliteration is desirable, e. g. some scholarly habits might prescribe it in the main text with citations in footnotes left in the original alphabet; or transliteration might alleviate comparison within one language that happens to be written in different scripts; finally, including text in a foreign script might be impossible if there is no appropriate font which fits the main text. However, it is still most convenient for the writer to keep the untransliterated original in the document source as this allows for reusing it in another context where different transliterations rules might apply. The Transliterator module is meant to provide both: have the original in the source and a transliteration only in the final document.

Another way of handling foreign languages is *transcription*. It aims at producing some representation that does not rely on symbolisms alien to the language and thus to be at least “pronouncable” without further knowledge. As transcription methods are language specific and highly idiosyncratic they complicate the restoration of the original phrase because information may be lost. The Transliterator provides means of transcription as well but in most cases you should refrain from using them (`[mode=ru_transcript_en]`, `[mode=ru_transcript_de]`).

For Cyrillic scripts the best quality is achieved using the standardized transliteration according to ISO 9.¹ This method not only covers all contemporary languages that are written in a variety of Cyrillic but provides a bijective mapping on latin characters as well. Consequently, you can unambiguously revert the transliteration into its original form which was impossible with previous versions of ISO 9 because they contained several exceptions depending

¹ ISO (1995).

on the original language. Although fifteen years old it has not yet made its way into scholarly publications at large so it might not immediately look familiar.² The diacritics are not identical to the “scientific” transliteration used in Slavic studies but as long as your editor does not enforce its traditional method you should always prefer ISO 9 ([mode=ru], [mode=ru_old], [mode=all]).

But ISO 9, too, has its shortcomings. It has no definitions for historical forms of the cyrillic script like pre-XVIII-century Russian and Old (Church) Slavonic while those are covered by the scholarly transliterations. To amend the situation the Transliterator provides an extension to ISO 9 for Old Slavonic containing the glyphs `ѧ`, `ѧ`, `ѭ`, `ѹ`, `ѿ`, `Ѡ`, `ѿ`, `ѿ`, `ѿ` and `ѧ` taken from the scientific transliteration ([mode=isog_ocs]). If you prefer more coherency you might want to use pure “scientific” transliteration ([mode=ocs]). This method is complemented by [mode=ocs_gla], the only option the Transliterator offers for the Glagolitic alphabet; they can be used consistently along each other as they were taken from the same book.³

As far as I know there is no standardized transliteration for Greek so I had to resort to the one that is used in scholarly literature. Its main drawback is that it has no representation for diacritics apart from (rough) breathing, but it respects specific rules for diphthongs and vowels in initial positions ([mode=gr]). There is one alternative mode for those who prefer their γ phonetically resolved to /n/ before velars (γ , κ , χ and ξ ; [mode=gr_n]).

Concerning the hyphenation within transliterated passages the default is set to to [hyphenate=cs] (Czech) which produces reasonable results when using all, isog_ocs or ru_cz. For stuff like the English and German transcription use their respective native hyphenation.⁴ However, as there is no hyphenation pattern I know of that closely resembles the transliteration of Greek you might have to resort to putting \discretionary hyphens when line breaking does not satisfy.

² A hasty glance at the latest issues of around 20 journals in a local library revealed that 2 of them actually are using ISO 9, these are *Przegląd wschodni* as of Nr. X, 3 (2008) and *Kwartalnik historyczny* as of CXVI, 3 (2009); the latter even contains a table on p. 218 showing a subset of the ISO 9 transliteration rules.

³ Birnbaum/Schaeken (1999) p. 77 [<http://www.schaeken.nl/lu/research/online/publications/akslstud/index.htm>].

⁴ You'll have to specify this through \setuptransliterator or locally because the default hyphenation is *not* the same as your documents'.

The Transliterator as a whole is nothing more than a bunch of dictionaries containing substitution rules for tokens that may occur in the text. These tokens may be single characters or strings of more than one character. As there is no simple way to impose order onto those dictionaries the rules for one transliteration method are, if needed, distributed over more than one table which will be applied successively to ensure that multi-character rules are processed first.

mode	time(1) in s	ConTeXt
<none>	8.98	8.82
all	8.37	8.25
ru_cz	8.61	8.48
ru_transcript_en	9.26	9.10
ru_transcript_de	14.83	14.71

Table 1 Processing time for corpus Evgenij Onegin according to GNU time(1) and the ConTeXt stats.

Following suggestions from the mailing list, the Transliterator uses *LPEG* when substituting. This means a huge speed improvement for most substitution modes when compared to the older mechanism that used `string.gsub` iteratively. In ordinary use when transliterating single words or short phrases the Transliterator should have little impact on document processing time at large, with the exception of the German transcription mode, perhaps.⁵ Transliterat-

ing (and typesetting in MKIV) Aleksandr Puškin's verse novel Evgenij Onegin, a corpus of about 27000 words, in `[mode=all]` shows little to no delay at all. In fact, typesetting cyrillic letters with russian hyphenation seems slow things down so much that transliteration may be faster and uses slightly less memory.⁶

⁵ The problem lies within the rule set for the German transcription which dictates different instructions depending on the environment of a character; these may conflict, i. e. it is impossible to substitute a character stream in a single run as some rules may apply only to the result of previous rule. Let me know if there's a way to tell LPEG to backtrack to the last character of a match and not to continue on the next.

⁶ On an IBM T43: 2.6.32-ARCH #1 SMP PREEMPT Tue Feb 9 14:46:08 UTC 2010 i686 Intel(R) Pentium(R) M processor 1.60GHz GenuineIntel GNU/Linux.

EXAMPLES

CYRILLIC SCRIPTS

ISO 9 AND DERIVATIVES

Several transliteration rules are either strictly ISO 9 compliant (`ru`, `ru_old`, `all`) or contain ISO 9 as a subset (`isog_ocs`).⁷

В ворота гостиницы губернского города NN въехала довольно красивая рессорная небольшая бричка, в какой ездят холостяки: отставные подполковники, прапорщики, помешники, имеющие около сотни душ крестьян, — словом, все те, которых называют господами средней руки. В бричке сидел господин, не красивец, но и не дурной наружности, ни слишком толст, ни слишком тонок; нельзя сказать, чтобы стар, однако ж и не так чтобы слишком молод.

V vorota gostinicy gubernskogo goroda NN v"ehala dovol'no krasivâa ressornâa nebol'shâa brička, v kakoj ezdât holostâki: otstavnye podpolkovniki, štabs-kapitany, pomešniki, imet'sie okolo sotni duš krest'âna, — slovom, vse te, kotoryh nazivaût gospodami srednej ruki. V bričke sidel gospodin, ne krasavec, no i ne durnoj naružnosti, ni sliškom tolst, ni sliškom tonok; nel'zâ skazat', čtoby star, odnako ž i ne tak čtoby sliškom molod.

Figure 1 [mode=ru,hyphenate=cs] Transliteration rules for the contemporary russian alphabet.

А сведется віра, убъють сотцкого в сель, ино тебъ взяти полтіна, а не сотцкого, ино четырь гривны, а намъ віръ не таити в Но-въгородѣ; а о убіствѣ віръ нѣть. А что волости, честны король, новгородцкіе, ино тебъ не держати своими мужи, а держати мужми новогородцкими. А что пошлина в Торжку и на Волоцѣ, тівунъ свои держати на своеї чистї, а Новугороду на своеї чистї посадника держати. А се волости новогородцкіе: Волокъ со всѣми волостми, Торжокъ, Бѣжінъ, Городенъ Паленъ, Шіпинъ, Мелеця, Егна, Заволочье, Тиръ, Пермъ, Печера, Югра, Вологда с волостми.

A svedetsâ vîra, ub'ût" sotckogo v selë, ino teb'e vzati poltina, a ne sotckogo, ino četyr' grivny, a nam" vir" ne taiti v Nov'egorodě; a o ubistvѣ vir" n t". A čto volosti, čestny korol', novgorodckie, ino teb'e ne deržati svoimi muži, a deržati mužmi novgorodckimi. A čto pošlima v Toržku i na Volocě, tivun' svoi deržati na svoei časti, a Novugorodu na svoei časti posadnika deržati. A se volosti novogorodckie: Volok" so vs emi volostmi, Toržok", B žic , Gorodec' Palec', Šipin", Meleč , Egna, Zavoloč , Tir", Perm', Pečera, Úgra, Vologda s volostmi.

Figure 2 [mode=ru_old,hyphenate=cs] With aditional characters for pre-1981 Russian orthography (100 per cent ISO 9).

⁷ Unfortunately there are not yet any language files for some of them so please excuse the inadequate hyphenation in these cases.

Беларуская мова, мова беларусаў, увах-
одзіць у сім'ю індаеўрапейскіх моў, яе
славянскай групы і ўсходнеславянскіх мо-
ваў падгрупы, на якой размаўляюць у Бе-
ларусі і па ёсім свеце, галоўным чынам
у Расіі, Украіне, Польшчы. Б. м. падзяляе
шмат граматычных і лексічных уласцівас-
ціў з іншымі ўсходнеславянскімі мовамі
(гл. таксама: Іншыя назвы беларускай мо-
вы і Узаемныя ўплывы усходнеславянскіх
моваў).

Figure 3 [mode=all,hyphenate=cs] *The complete cyrillic mapping from ISO 9; transliterating Belarusian.*

Українська мова (застарілі назви – руська
мова, проста мова [...]]) – слов'янська
мова, державна в Україні та одна з трох
«офійних мов на рівніх зasadах» у не-
визнаній Придністровській Молдавській
Республіці. За різними оцінками загалом
у світі українською мовою говорить від
41 млн. до 45 млн. осіб, вона входить
до третього десятка найпоширеніших мов
світу.

Figure 4 [mode=all,hyphenate=cs] *The complete cyrillic mapping from ISO 9; transliterating Ukrainian.*

Српски језик је један од словенских је-
зика из породице индоевропских језика.
Први писани споменици у српској редак-
цији старословенског језика потичу из XI
и XII века. Српски језик је стандардни је-
зик у службеној употреби у Србији, Босни
и Херцеговини и Црној Гори, а у употре-
би је и у другим земљама где живе Срби,
међу осталима и у Хрватској.

Figure 5 [mode=all,hyphenate=cs] *The complete cyrillic mapping from ISO 9; transliterating Serbian.*

Belaruskaá mova, mova belarusaú, uvahod-
žič’ u sámú īndaeūrapejskikh moў, áe slaván-
skaj grupy i ūshodneslavánskikh movau pad-
grupy, na ákoj razmaūlăúc’ u Belarusi i pa
tísim svece, galouýnum čynam u Rasii, Ukrá-
ine, Poľščy. B. m. padzáláe šmat gramatyč-
nyh i leksičnyh ulascivascáu z inšym ūshod-
neslavánskim i movamí (gl. takساما: Inšyá
nazvy belaruskaj movy i Uzaemnyá úplavy
ushodneslavánskikh movau).

Ukraíns’ka mova (zastarili nazvi – rus’ka
mova, prosta mova [...]) – slov’ans’ka mova, der-
žavna u Ukraïni ta odna z tr’oh «oficijnij
mov na rîvnih zasadah» u neviznanij Prid-
nistrov’skij Moldavs’kij Respubliči. Za rizni-
mi ocinkami zagalom u svití ukraíns’koú mo-
voú govorit’ vid 41 mln. do 45 mln. osib, vo-
na vhodit’ do tret’ogo desátka najpošireníšíh
mov svitu.

Srpski jezik je jedan od slovenskih jezika
iz porodice indeoевropskih jezika. Prvi pisa-
ni spomenici u srpskoj redakciji starosloven-
skog jezika poticju iz XI i XII veka. Srpski
jezik je standardni jezik u službenoj upotre-
bi u Srbiji, Bosni i Hercegovini i Crnoj Gori,
a u upotrebi je i u drugim zemljama gdje žive
Srb, medu ostalima i u Hrvatskoj.

Что са д'вєтъ по в'врьмънемъ : то ѿнде то еврьмънемъ : приказано буд'ете добрыми людьми : а любо грамотою оутв'ердать : како то буд'ете всемъ в'едомы : наи кто посы живыи штангите са : того лѣтъ коли алзбрахтъ : вадка ризки оумѣръ : оудумалъ кназъ смолынскыи : м'стиславъ : дѣдъвъ снѣ : прикалаль въ ригу свогого лоучушиго попа : іер'яменъ : и съ нимъ оумына можа пантелья : исковего горда смолынска : та два была посланыи отъ ризѣ : изъ ригы іехали на гоцкыи беръго : тамо твердити міръ :

Čto se dějetě po věrem' nem' : to otideto po věr'm' nem' : prikazano buděte dobrým" lǔ-děm" : a lùbo gramotoū utvěrdet' : kako to buděte vsem" vědom" : ili kto posl' živyi ôstanět' se: togo lět kolii al"braht" : vldka rizkii um'r" : uzdumal" knězě smolněskyi : m'stislav" : dvdfv" sně" : prislał" v" rigu svogego lučšego popa : jer'meá : i s" nim' um'na muža pantel'á : isvojego gorda smolněska : ta dva byla posl"m' u rizě : iz rigy jehali na gočkyi ber'go : tamo tverditi mir" :

Figure 6 [mode=isog_ocs,hyphenate=cs] Transliteration rules according to ISO 9 with additions for Old (Church) Slavonic.

“SCIENTIFIC” TRANSLITERATION

These transliterations are widely used among scholars, mainly linguists and, to a lesser extent, historians. They comprise large character sets in order to represent the original text adequately and facilitate comparison of texts of the same language written in different scripts; they are not, however, as easily reversible as ISO 9.

Се наученье повѣсть сио. По потопѣ . первие сиеве Ноеви . раздѣлниша землю . Симъ . Хамъ . Афетъ . и исаа в'стокъ . Симови Персида . Ватръ . тоже и до Индикиса в долготу и в ширину [и до Нироксуриса] такоже реци ѿ в'стока и до полуденъи . и Сурини . и Индия по Ефратъ рѣку . Бавилонъ . Кордуна . Асуреана . Мисопотамира . Аравиа . старавншша . Саманъ . Инди . Равниа . на всѧ Д.

Se načenje pověst' siju. Po potopě . pervie sive Noevi . razdělisa zemlju . Sim' . Ham' . Afet' . i jašę v'ystok' . Simovi Persida . Vatr' . tože i do Indikisa v dolgotu i v širinu [i do Nirokuri] jakože rešti ot v'ystoka i do poludene'ja . i Sirija . i India po Efrat' rěku . Avilon' . Korduna . Asurene . Misopotamira . Aravija . staréisaja . Elmais' . Indi . Ravija . na vsę D.

Figure 7 [mode=ocs,hyphenate=cs] Transliteration for Old Slavonic used in Slavic studies, taken from the excellent book of Birnbaum/Schaeken (1999).⁸

⁸ This one and both of the following Czech transliterations, although elegantly dealing with hard and weak signs by taking characters from the Cyrillic alphabet, are not unquestioned from a typographical point of view: “If contrasting faces are used for phonetic transcriptions and main text, each entire phonetic word or passage, not just the individual phonetic characters, should be set in the chosen phonetic face. Patchwork typography, in which the letters of a single word come from different faces and fonts, is a sign of typographic failure. [...] Such mixtures are almost sure to fail unless all the fonts involved have been designed as a single family.” (Bringhurst (2008)) From this follows that it is advisable to reconsider your font whether it indeed provides the needed glyphs from Russian as well.

Прошло семь лет после 12-го года. Взволнованное историческое море Европы улеглось в свои берега. Оно казалось затихшим; но таинственные силы, двигающие человечество (таинственные потому, что законы, определяющие их движение, неизвестны нам), продолжали свое действие. Несмотря на то, что поверхность исторического моря казалась неподвижною, так же непрерывно, как движение времени, двигалось человечество. Слагались, разлагались различные группы людских сцеплений; подготавливались причины образования и разложения государств, перемещений народов.

Прошло семь лет после 12-го года. Взволнованное историческое море Европы улеглось в свои берега. Оно казалось затихшим; но таинственные силы, двигающие человечество (таинственные потому, что законы, определяющие их движение, неизвестны нам), продолжали свое действие. Несмотря на то, что поверхность исторического моря казалась неподвижною, так же непрерывно, как движение времени, двигалось человечество. Slagalis, razlagalis razlichnye gruppy ljudskich sceplenij; podgotovljalis pričiny obrazovanija i razloženija gosudarstv, peremešenij narodov.

Figure 8 [mode=ru_cz,hyphenate=cs] Czech phonetic transcription for contemporary Russian.

Убъеть мужъ мужа, то мъстить брату брата, или сынови отца, либо отцю сына, или брату́раду, либо сестрину сынови; аще не будеть кто мъстя, то 40 гравенъ за голову; аще будеть русинъ, либо гридинъ, либо купчина, либо ієбетникъ, либо мечникъ, аще изъгро будеть, либо словенинъ, то 40 гравенъ положити за нъ.

Убъеть мужъ мужа, то мъстить брату brata, ili synovi otca, ljubo otcju syna, ili bratučadu, ljubo sestrinu synovi; ašče ne budet kto mъstie, to 40 griven' za golovu; ašče budet rusin', ljubo gridin', ljubo kupčina, ljubo iěbetnik, ljubo mečniki, ašče izъgoi budet, ljubo slovenin', to 40 griven' položiti za nъ.

Figure 9 [mode=ocs_cz,hyphenate=cs] Czech phonetic transcription for Old Slavonic (super-set of the corresponding Russian transcription).

SERBIAN

The tables for converting Serbian text between Cyrillic and Latin alphabets are `sr_tolt` and `sr_tocy`.

Српски језик је један од словенских језика из породице индоевропских језика. Први писани споменици у српској редакцији старословенског језика потичу из XI и XII века.

Српски језик је стандардни језик у службеној употреби у Србији, Босни и Херцеговини и Црној Гори, а у употреби је и у другим земљама где живе Срби, међу осталима и у Хрватској.

Srpski jezik je jedan od slovenskih jezika iz porodice indeoevropskih jezika. Prvi pisani spomenici u srpskoj redakciji staroslovenskog jezika poticju iz XI i XII veka.

Srpski jezik je standardni jezik u službenoj upotrebi u Srbiji, Bosni i Hercegovini i Crnoj Gori, a u upotrebi je i u drugim zemljama gde žive Srbi, medju ostalima i u Hrvatskoj.

Figure 10 [mode=sr_tolt,hyphenate=hr] Transliteration ћирилица → латиница.

Srpski jezik je jedan od slovenskih jezika iz porodice indeoevropskih jezika. Prvi pisani spomenici u srpskoj redakciji staroslovenskog jezika potiču iz XI i XII veka.

Srpski jezik je standardni jezik u službenoj upotrebi u Srbiji, Bosni i Hercegovini i Crnoj Gori, a u upotrebi je i u drugim zemljama gde žive Srbi, među ostalima i u Hrvatskoj.

Srpski jezik je jedan od slovenenskih jezika iz porodice indeoevropskih jezika. Prvi pisani spomenici u srpskoj redakciji staroslovenskog jezika potiču iz XI i XII veka.

Srpski jezik je standardni jezik u službenoј upotrebi u Srbiji, Bosni i Hercegovini и Црној Гори, а у употреби је и у другим земљама где живе Срби, међу осталима и у Хрватској.

Figure 11 [mode=sr_toc, hyphenate=sr] *Transliteration latinica → cirilica.*

BULGARIAN

Българският език е индоевропейски език от групата на южнославянските езици. Той е официалният език на Република България и един от 23-те официални езика на Европейския съюз.

Bulgarskijat ezik e indeoeuropejski ezik ot grupata na južnoslavjanskite ezici. Toj e oficjalnijat ezik na Republika Bălgarija i edin ot 23-te ofisialni ezika na Evropejskija sâuz.

Figure 12 [mode=bg_de, hyphenate=cs] *German scientific transliteration for Bulgarian (based on old ISO 9 standard).*

LEGACY NATIONAL TRANSCRIPTIONS

At the moment there are tables for “old school” transcription into three languages: English ([via ru_transcript_en](#)), German ([ru_transcript_de](#)) and Czech ([ocs_cz](#)). At least the German one is almost unreadable if used with strings longer than two words. As we have the bijective ISO 9 mapping at hand there should be no reason at all to use any of them.

Прошло семь лет после 12-го года. Взволнованное историческое море Европы улеглось в свои берега. Оно казалось затихшим; но таинственные силы, двигающие человечество (таинственные потому, что законы, определяющие их движение, неизвестны нам), продолжали свое действие. Несмотря на то, что поверхность исторического моря казалась неподвижною, так же непрерывно, как движение времени, двигалось человечество. Слагались, разлагались различные группы людских сплетений; подготовлялись причины образования и разложения государств, перемещений народов.

Proshlo sem let posle 12-go goda. Vzvolnovannnoe istoricheskoye more Yevropy uleglos v svoi berega. Ono kazalos zatikhshim; no tainstvennye sily, dvigayushshiye chelovechestvo (tainstvennye potomu, chto zakony, opredelyayushshiye ikh dvizheniye, neizvestny nam), prodolzhali svoye deystviye. Nesmotrya na to, chto poverkhnost istoricheskogo morya kazalas nepodvizhnouy, tak zhe nepreryvno, kak dvizheniye vremeni, dvigalos chelovechestvo. Slagalis, razlagalis razlichnye gruppy lyudskikh stsepleniy; podgotovlyalis prichiny obrazovaniya i razlozeniya gosudarstv, peremeshheniy narodov.

Figure 13 [mode=ru_transcript_en, hyphenate=en] *English transcription for contemporary Russian.*

Прошло семь лет после 12-го года. Взволнованное историческое море Европы углеглось в свои берега. Оно казалось затихшим; но таинственные силы, двигающие человечество (тайные потому, что законы, определяющие их движение, неизвестны нам), продолжали свое действие. Несмотря на то, что поверхность исторического моря казалась неподвижной, так же непрерывно, как движение времени, двигалось человечество. Слагались, разлагались различные группы людских сплотов; подготовлялись причины образования и разложения государств, перемещения народов.

Proscho sem let posle 12-go goda. Wswolnowanne istoritscheskoje more Jewropy uleglos w swoi berega. Ono kasalos satichschim; no tainstwennyj sily, dwigajuschtschije tschelowetschestwo (tainstwennyje potomu, tschto sakony, opredeljajuschtschije ich dwischenije, neiswistnyj nam), prodolschali swoje deistwije. Nesmotrja na to, tschto powerchnost istoritscheskogo morja kasalas nepodwischnoju, tak sche neprerywno, kak dwischiene wremeni, dwigalos tschelowetshestwo. Slagalis, raslagalis raslitschmyje gruppy ljudskich szepleni; podgotowljalis pritschiny obrasowanija i rasloschenija gossudarstw, peremeschsceni narodow.

Figure 14 [mode=ru_transcript_de,hyphenate=deo] German transcription for contemporary Russian.⁹

GLAGOLITIC

Figure 15 [mode=ocs_gla,hyphenate=cs] “Scientific” transliteration for Old Slavonic written in the Glagolitic alphabet as used in Birnbaum/Schaeken (1999).

GREEK

The Transliterator offers two modes for handling Greek: `gr` and `gr_n`. They differ only on one aspect. `gr` transliterates the canonical Greek alphabet as well as the special glyphs Digamma, Quoppa and Sampi. `gr_n` behaves exactly the same way except that nasalization is observed such that $\gamma\text{-}[\gamma|\kappa]$ yields $\text{n+}[\text{g}|\text{k}]$.

⁹ Following Drosdowski/Müller/Scholze-Stubenrecht/Wermke (1952) p. 82; all the canonical rules are implemented save one: *-ezo* and *-ozo* should resolve to *-ewo* and *-owo* respectively iff genitive endings. As this is a grammatical rather than graphical criterion writing a substitution algorithm would amount to do natural language parsing. To make things worse this rule is phonetically confused as it would not take care of other contexts where *z* in those patterns is articulated as */v/* like for instance in *сегодня* (which is a historical genitive, though ...). So even if this could be implemented it would not be advisable to use such a rule.

οῖνφ δὲ κάρτα προσκέαται, καὶ σφι οὐκ ἐμέσαι τε ἔξεστι, οὐκὶ οὐρῆσαι ἀντίον ἄλλου. ταῦτα μὲν νῦν σῦτω φυλάσσεται, μεθύσκομενοι δὲ ἐώθισαι βουλεύεσθαι τὰ σπουδαέστατα τὸν πρηγμάτων: τὸ δ' ὃν δᾶῃ σφι βουλευομένοισι, τοῦτο τῇ ὑστεραῖῃ νήρουσι προτιθεῖ ὁ στέγαρχος, ἐν τοῦ ὃν ἐόντες βουλεύωνται, καὶ ἣν μὲν ἄδη καὶ νήρουσι, χρέωνται αὐτῷ, ἣν δὲ μὴ ἄδη, μετιεῖσι. τὸ δ' ὃν νήρφοντες προβούλεύσωνται, μεθύσκομενοι ἐπιδιαγνώσκουσι.

oinō de karta proskeatai, kai sphi uk eme-sai exesti, uki uresei antion allu. tauta men nyn hutō phylasetai, methyskomenoi de eōt-hasi buleuesthai ta spudaiestata ton pragmatōn: to d' an hadē sphi buleuomenosi, tuto tē hysteraiē nephusi protitheoi ho stegarchos, en tu an eontes buleuontai, kai en men hadē kai nephusi, chreontai autō, en demē hadē, metieisi. ta d' an nephorantes probuleusontai, methyskomenoi epidemiaginōskusi.

Figure 16 [mode=gr,hyphenate=de] Transliteration for Greek – standard.

ταῦτα καὶ νεωτέρῳ καὶ πρεσβυτέρῳ ὅτῳ ἀν ἐντυγχάνω ποιήσω, καὶ ξένῳ καὶ ἀστῷ, μᾶλλον δὲ τοῖς ἀστοῖς, ὅσῳ μου ἐγγυτέρῳ ἐστὲ γένει.

tauta kai neoterō kai presbyterō hotō an ent-yngchano poieso, kai xenō kai astō, mallon de tois astois, hosō mu engyterō este genei.

Figure 17 [mode=gr_n,hyphenate=de] Transliteration for Greek – alternative respecting nasalization.

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