МИНИСТЕРСТВО НА ОБРАЗОВАНИЕТО И НАУКАТА НА РЕПУБЛИКА БЪЛГАРИЯ КИРИЛО-МЕТОДИЕВСКИ НАУЧЕН ЦЕНТЪР ПРИ БЪЛГАРСКА АКАДЕМИЯ НА НАУКИТЕ ИЖЕВСКИЙ ГОСУДАРСТВЕННЫЙ ТЕХНИЧЕСКИЙ УНИВЕРСИТЕТ ИМ. М. Т. КАЛАШНИКОВА НАУЧНОЕ СООБЩЕСТВО "ПИСЬМЕННОЕ НАСЛЕДИЕ" DIGITAL MEDIEVALIST SCHOLARLY COMMUNITY ФОНДАЦИЯ "УСТОЙЧИВО РАЗВИТИЕ НА БЪЛГАРИЯ"

Писменото наследство и информационните технологии

El'Manuscript-2014

Материали от V международна научна конференция Варна, 15–20 септември 2014 г.

София · Ижевск 2014

Сборникът е издаден с финансовата подкрепа на Министерството на образованието и науката на Република България по процедура за подкрепа на международни научни форуми.

Отговорни редактори: проф. дфн В. А. Баранов

доц. д-р В. Желязкова д-р А. М. Лаврентьев

Редактори: Нели Ганчева, Веселка Желязкова (български текст)

О. В. Зуга, В. А. Баранов (руски текст)

Кевин Хокинс (Kevin Hawkins) (английски текст)

Писменото наследство и информационните технологии [Текст] : материали от V международна науч. конф. (Варна, 15–20 септември 2014 г.) / отг. ред. В. А. Баранов, В. Желязкова, А. М. Лаврентьев. — София ; Ижевск, 2014. — 448 с.

Сборникът съдържа материали от конференция, посветена на разработването и създаването на съвременни средства за съхраняване, описване, обработка, анализ и публикуване на ръкописни и старопечатни книжовни паметници и исторически извори, а също и на въпросите за подготвянето на електронни ресурси в областта на хуманитаристиката и тяхното използване в научните изследвания и преподаването.

- © Кирило-Методиевски научен център БАН, 2014
- © Ижевский государственный технический университет им. М. Т. Калашникова, 2014
- © Авторски колектив, 2014
- © Лилия Тошкова графичен дизайн на корицата, 2014

ISBN 978-954-9787-25-2

Old Church Slavonic Concordances in Language Teaching and Learning

Svetlana Ahlborn

Old Church Slavonic, concordance-aided teaching of ancient languages, TITUS, AntConc

The present study examines how concordances can be applied in the teaching and learning of Old Church Slavonic. The essay gives a description of selected Old Church Slavonic resources, presents free concordance programs and demonstrates the teaching method used, including examples of concordance use in the classroom. Finally, recommendations are made that are necessary for the successful implementation of the corpus-aided teaching of ancient languages.

Introduction

Studying an ancient language requires learning skills in critical analysis and the reading of texts, as well as in becoming accustomed to aspects of palaeography, historical phonology, morphology and grammar. Consequently, a teaching approach using concordance tools can be regarded as an additional and effective step in helping a student become acquainted with the texts of a(n ancient) language.

Corpus data

The Old Church Slavonic (OCS) resources for the syllabus were taken from the TI-TUS database. TITUS (Thesaurus Indogermanischer Text- und Sprachmaterialien) began development in 1987 thanks to the effort of Jost Gippert and has existed in its online form (http://titus.uni-frankfurt.de) since 1994.

The OCS texts were originally written in Cyrillic and/or Glagolitic. The TITUS database comprises texts in Cyrillic (Codex Suprasliensis, Sava's book, Vita Constantini and Vita Methodii) and texts in Glagolitic (The Kiev Folia, Codex Assemanianus and Codex Marianus).

For the most part, these resources are freely available. These texts, which constitute the oldest of OCS, are used in language teaching in order to explain orthographical, grammatical, and other aspects of OCS, and they form an integral part of the typical syllabus. Verses of TITUS texts are cross linked with each other and with parallel passages of texts of the same genre in other languages. Taking the OCS version of the Codex Marianus as an example, one can compare parallel text passages within Codex Zographensis, Codex Assemanianus, Sava's book and the Russian and Old Greek New Testaments.

All texts are encoded in HTML and in XML (the latter appearing online soon) using UTF-8 encoding. Hence, the TITUS database with its powerful online search opportunities is a perfect prerequisite in the course of preparing language lessons by using datadriven learning.

In order to show the types of exercises that can be created using this resource, the advantages of using concordances should be summarized first.

Concordances

Concordance tools allow one to search quickly for a specific word form in a digitalized text. The search result of a concordance is usually represented in the so-called KWIC view ("key word in context"), with search results located in the middle of the contextual line. The approach of using concordances in teaching and learning of a language is called "data-driven learning" (DDL) [Johns 1986, 151–162].

In order to work with concordances, language learners should learn the "strategy of observation" [Johns 1988, 24]. Based on the text samples prepared by a teacher, learners have to draw a conclusion by themselves: they have to find out the regularity and to formulate a grammatical rule. This approach should promote quick understanding and aid in memorizing of the aspects of the unfamiliar language.

Despite the apparent benefits of language corpora, very few teachers are currently using them in their classrooms, especially in the teaching of ancient languages.

AntConc in comparison to other programs

There exist at least three corpus linguistics programs that can be used for carrying out linguistic research as well as for tailor-made solutions and data-driven learning: AntConc 3.2.4, Compleat Lexical Tutor 6.2 and TextSTAT 2.9. AntConc seems to have advantages over the others: it can be downloaded and installed on a computer without any additional software packages (such as ActivePython or ActivePerl), and it allows the use of individual fonts. Due to these advantages AntConc has been chosen for the preparation of teaching materials.

The following examples present the concordance printouts, which can be used during lessons of Old Church Slavonic. Two main approaches in the creation of exercises can be distinguished: inductive and deductive.

Inductive teaching method

In the inductive approach, a task based on concordance printouts is initiated by the teacher. Students have to read the concordance lines (usually between 6 and at most 15 to achieve clear arrangement), classify the samples and, finally, generate a language rule, responding at the same time to the main question of the exercise. For example, students were asked to determine and explain the differences between the written variants 'ѣκο' (ĕko) and 'яко' (jako), comparing a concordance printout including samples taken from different resources (Fig. 1).

Students have to look through the lines of the concordance and notice that the writing with $[\mathfrak{g}]$ (ja) is characteristic of the texts that were originally written in Cyrillic. This exercise promotes further discussion of whether the Glagolitic alphabet included the iotated letters and, if not, what was used instead.

Hit	KWC	File
1	и зъванъіймъ · градъте ъко о́уже о́уготована сж тъ въсъ · В	Assemanianus.txt
2	: ቀ፡ዘሌተ-ት-ዘፌዿ፠ዣ . ንግ-€፡የምጠ፡ን જૄ፦១ ഉജ%ን ഉജ%ን በነውለ÷-ት ለን€ጠዣ ሉዛሪ⊽ .	Assemanianus.txt
3	шти зъванымъ градъте зъко оуже готова сжтъ вьсъ з гэз	Marianus.txt
4	ጠጠ8 የ·ዋሉተъዋፌಜ4 ፖየ€ን የመን · ማን (æ%) የንጨንተ ማን€ጠ4 ሴዛሪ⊽ · ፲	Marianus.txt
5	эщи зъваныимъ. придъте. яко оуже оуготована сжтъ вьса.	Ostromirovo.txt
6	ещи зъванымъ 'идъете · яко уже готово 'естъ все · Verse: 18	Savvina_kniga.txt
7	্বৰ ব্ৰচ্চন্ত্ৰমন্ত্ৰাপত চেম্বট্ৰন্ত কৰে তথ্য কৰি কৰে	Zographensis.txt
8	ᲮᲔ₦Ე ᲬᲧᲘᲫᲮᲧᲚᲚᲧ Გ₱€ᲤᲓᲗᲔ . Დ₺Მ ഉജᲓᲔ ४୭ᲗᲔଋ₦ ᲬᲔ€ᲗᲧ ଋᲬᲬ . A	Zographensis.txt

Figure 3: Example of inductive exercise: "Differences in letter writing".

Deductive teaching method

In the deductive approach, an exercise starts with a previously learned rule. After that, students have to observe the prepared samples and explain the irregularities. For example, when studying pronoun declination, students learn that there exist two forms of pronouns for dative and accusative, one of which (the shorter one) is enclitic. Then the students are confronted with the concordance printout with the task of looking through the lines and establishing whether there are irregularities to the rule (Fig. 2).

```
Verse: 28 | Mt., 11, 28 придъете къ м'нъе вси троуждавжщеі са 'и 'обръеменея
паняще са 'емоу гла ти · аще хощещи можещи ма 'истръебити ·
же петръ рече 'емоу ти · аще ты еси повели ми прити къ себъе · Verse: 25 'она ж
ишъдъщи поклони са 'емоу глжщи · ги помози ми · Verse: 13 'и рече іс сътънико
, 4, 10 тогда рече 'емоу іс 'иди за ма сотоно · псан бо 'естъ гоу боу тво 'емоу покл
шеши статиръ · тъ възъми 'и даждъ 'имъ · за ма 'и за са · Verse: 2 | Mt., 8, 2 и се в
```

Figure 4: Example of deductive exercise: "Irregularities in syntactical usage of personal pronouns".

The aim of the exercise is to discover that pronouns like 'Mu' (mi) (dative) were enclitics and did not occur with prepositions, and that pronouns like 'Mu' (mę) (accusative) could occur with and without prepositions and also appeared in positions after proclitical prepositions. With this goal in mind, students should observe the left context (coloured red in Fig. 2).

Depending on the students' computer and corpus literacy, further exercises can be proposed. The students can install a concordance program and work by themselves with the texts proposed by the teacher.

Resources and concordance software recommendations

Finally, one of the goals of this paper was to offer hands-on recommendations that would help language teachers develop engaging lessons of ancient languages using concordancing software.

Resource citation

For the use of concordances in the classroom, it is of great importance for the user to be able to copy excerpts to use as quotations elsewhere. A question for resource developers is how large citation abstracts should be allowed to be.

Resource reproduction

Digitized resources should attempt to reproduce original texts as faithfully as possible, using adequate encoding. Exercises, formulated as concordances, can be effectively supplemented through work with (digital) facsimile versions.

Resource observation

It might be desirable to save the user's search history because it might contain word forms that would be useful in developing teaching material.

Concordance software recommendations

Having an integrated virtual keyboard—instead of using a separate character map application—would be preferable to enable the user to type the Unicode characters directly.

The KWIC display might be improved by employing different font styles (such as bold, italics and underline) in addition to highlighting via different colours. This feature can be valuable when teachers are preparing concordance lines to hand out to students.

Creating exercises using the material of corpus resources is a time-consuming task. It requires careful selection of data, additional editing of resources and the selection of settings in an external program. An ideal solution would be an interface that is integrated directly with the annotated resource, allowing one to download text passages as a virtual subcorpus according to the desired task and to give the results back as concordances.

References

- Breyer, Y. 2011. Corpora in language teaching and learning: potential, evaluation. Frankfurt am Main: Lang: 268.
- Aijmer, K. 2009. Corpora and language teaching. Amsterdam: Benjamins: 232.
- Johns, T. 1986. Micro-Concord: a language learner's research tool. System 14(2): 151–162.
- Johns, T. 1988. Whence and whither classroom concordancing? Computer applications in Language Learning, ed. T. Bongaerts, P. d. Haan, S. Lobbe & H. Wekker. Dordrecht: Foris: 9–27.
- Tribble, C. 1990. Concordancing and an EAP writing programme. CAELL Journal 1(2): 10–15.