Turklang 2021 The Creation of the Kyrgyz Corpus

Kyrgyz-Turkish "Manas" University PhD Aida Kasieva Bishkek, Kyrgyzstan



Availability

The Kyrgyz Corpus is the joint project between the Universität des Saarlandes and the Kyrgyz-Turkish 'Manas' University. Archived at the CLARIN-D centre in Saarbrücken **CMDI** metadata for harvesting **Covered by the Virtual Language Observatory** (VLO) CQPweb interface at Universität des Saarlandes





Corpus Composition

novels (3 texts, 563000 tokens) epic (1 text, 330000 tokens) novelette (1 text, 20000 tokens) fairy tale (74 texts, 71000 tokens) minor epic (5 texts, 221000 tokens



Kyrgyz Corpus Design

The Universal Copyright Convention became effective in the Soviet Union on 27 May 1973. Before that date, only local copyright laws existed in the Soviet Union. This has the effect that literary works created and published before the year 1972 in the Soviet Union are in the public domain now. This made possible to use the literary works from the website Bizdin.kg, which hosts them.

Corpus Data

- The data used in the corpus are released under a license that acts in accordance with Kyrgyz laws on distribution. This work is licensed under a Creative Commons Attribution 4.0 International License. License details:
- http://creativecommons.org/licenses/by/4.0/
- 1. Source: https://www.ethnologue.com/18/language/kir/
- 2. http://corpora.uni-leipzig.de/en?corpusId=kir_community_2017
- 3. https://www.clarin.eu/
- 4. https://vlo.clarin.eu
- 5. https://www.clarin.eu/content/content-search
- 6. https://www.apertium.org/



Text documents description (Metadata: Title, Source, Author)

The corpus title is: The Kyrgyz Corpus (2019-04-18): powered by CQPweb. Every document contained in the corpus is stored in a plain text format in the UTF-8 encoding. In the Menu section there is a subsection Corpus Info that comprises Corpus Metadata.

The main page of the Kyrgyz corpus

Kyrgyz Corpus (2019-04-18): powered by CQPweb						
Metadata for Kyrgyz Corpus (2019-04-18)						
Corpus title	Kyrgyz Corpus (2019-04-18)					
CQPweb's short handles for this corpus	kyrgyz_20190418 / KYRGYZ_20190418					
Total number of corpus texts	84					
Total words in all corpus texts	1,243,161					
Word types in the corpus	92,263					
Standardised type:token ratio (1,000-token basis)	Cannot be displayed (STTR not cached)					
Non-standardised type:token ratio	0.0742 types per token					
Text metadata and v	vord-level annotation					
The database stores the following information for each text in the corpus:	There is no text-level metadata for this corpus.					
The primary classification of texts is based on:	A primary classification scheme for texts has not been set.					
Words in this cornus are appointed with	PoS					
Words in this corpus are annotated with:	stem					
The primary word-level annotation scheme is:	PoS					

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Type: token ratio

Kyrgyz Corpus Structure

- Corpus title the title of a document;
- CQP web's short handles for this corpus;
- Total number of corpus texts;
- Total words in all corpus texts;
- Word types in the corpus;

S-attributes in this corpus:						
<s></s>	Structure ``s''					
<text></text>	Structure ``text''					
<text_author></text_author>	Structure ``text_author''					
<text_genre></text_genre>	Structure ``text_genre''					
<text_id></text_id>	Structure ``text_id''					
<text_title></text_title>	Structure ``text_title''					
<text_title_english></text_title_english>	Structure ``text_title_english''					
<text_year></text_year>	Structure ``text_year''					

.11 _author'' _genre'' _id'' t_title" t_title_english'' t_year''

The text is tokenized by an in-house tool and lemmatized and POS-tagged using the Apertium toolkit (Washington et al. 2012). For convenient use, the corpus is post-processed to a vertical format as used by the Corpus Query Processor and CQPweb (Hardie, 2012).

Tokenization and annotation of the corpus data

724689	^берди/бер <vaux><ifi><p3><sg>\$</sg></p3></ifi></vaux>
724690	^,/, <cm>\$</cm>
724691	^тагыраак/так <adj><comp>\$</comp></adj>
724692	^айтканда/айт <v><iv><ger past=""><loc>\$</loc></ger></iv></v>
724693	^,/, <cm>\$</cm>
724694	^аны/ал <prn><pers><p3><sg><acc>\$</acc></sg></p3></pers></prn>
724695	^адаштырышты/адаш <v><iv><caus><ger_pres><acc>\$</acc></ger_pres></caus></iv></v>
724696	^,/, <cm>\$</cm>
724697	^ишкердик/ишкердик <n><nom>\$</nom></n>
724698	^туткунуна/туткун <n><px3sp><dat>\$</dat></px3sp></n>
724699	^алышты/ал <v><tv><coop><ifi><p3><p1>\$</p1></p3></ifi></coop></tv></v>
724700	^,/, <cm>\$</cm>
724701	^бирок/бирок<спјсоо>\$
724702	^aзыp/aзыp <adv>\$</adv>
724703	^кеп/кеп <n><nom>\$</nom></n>
724704	^ал/ал <prn><pers><p3><sg><nom>\$</nom></sg></p3></pers></prn>
724705	^жөнүндө/жөн <n><px3sp><loc>\$</loc></px3sp></n>
724706	^эмес/э <cop><neg><aor><p3><p1>\$^)/)<rpar>\$</rpar></p1></p3></aor></neg></cop>
724707	^./. <sent>\$</sent>
724708	<^/// <sent>\$^s/*s\$></sent>
724709	<^s/*s\$>
724710	^Бул/бул <det><dem>\$</dem></det>
724711	^элес/элес <n><nom>\$</nom></n>
724712	^анын/ал <prn><dem><gen>\$</gen></dem></prn>
724713	^жетимсиреген/*жетимсиреген\$
724714	^жүрөгүндө/жүрөк <n><px3sp><loc>\$</loc></px3sp></n>
724715	^чыныгы/чыныгы <adj>\$</adj>
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spice file

length: 39,822,661 lines: 1,370,537 Ln: 724,701 Col: 22 Sel: 0 | 0

Ur

Selection of Tagsets

- Apertium6, an open-source machine translation platform has been used for Kyrgyz corpus annotation (POS tagger). - Tokenisation, creation of a vertical format (vrt) - Part-of-speech tagging using Apertium
- Apertium is based on the Helsinki Final State Transducer
- Artefact removal

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Kyrgyz Corpus as a Poster



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AIDA KASIEVA, JÖR

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THE KYRGYZ LANGUAGE



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Thank You for your attention!

