



Special thanks to
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Example output



..... Output

Output

Tagset

..... Morphological transducers

- ##Transducers for Turkic languages.....

- Framework: HFST

- Development effort

- 100 5000



- | Type | Gloss | <adj>(<comp>) | <adj>(<comp>)<subst> | <adj>(<comp>)<advl> |
|------|-------|---------------|----------------------|---------------------|
|------|-------|---------------|----------------------|---------------------|

Orthography-phonology mapping issues

- solution: hairy twol rules cover majority of examples
- unaccounted-for words get a harmony-forcing character
- adjust rules for harmony-forcing characters

- [illegible]

- solution: separate continuation lexicon (messy rules)

- LEXICON N1-BUS

.....Acronyms and numerals.....

- solution: phonology-triggering characters

.....A resulting messy two rule.....

Evaluation

..... Test corpora

..... **Evaluation measures**

- ##Evaluation results.....

- selected & proofed unique random surface forms from news corpora

Ongoing and future work

- Disambiguation, more stems
- Machine translation between these languages
- Other Turkic lgs.: Nogay, Bashqort, Uzbek, Chuvash

Further information

- Part of Apertium Turkic project:
http://wiki.apertium.org/wiki/Apertium_Turkic
 - Transducers available live at turkic.apertium.org
 - Source code available from apertium's svn repo
 - Turkic RBMT mailing list (>25 subscribers):
apertium-turkic@lists.sourceforge.net
- Feel free to post in any language!
- See our paper in the LREC 2014 proceedings
 - And feel free to contact the authors any time!