

Extended tokenizer for Polish

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14 March 2014

Stage 1: token splitting



- Text is split on spaces.
- Additionally, leading and trailing punctuation marks are separated:
 - exception: dot preceded by non-punctuation,
 - exception from exception: three consecutive dots.

Stage 2: token tagging (and further splitting)



- Cascade of tag filters.
- Regular expression-based, e.g.:
 - rom, ara, e-mail, www
 - dates in formats 14.03.2014, 14.03.2014.
- More complicated, e.g.:
 - abbreviations,
 - *//i* conjunction,
 - hyphen-separated tokens.
- Helper tags:
 - int for arabic integers,
 - date for dates as above,
 - m-i, ..., m-xii for month names.

- A list of about 1300 abbreviations is used.
- Dot-ended abbreviations identical with some other word's inflected form:
 - e.g., *gieta.*, *gwar.*, *ul.*
 - heuristic: only tag as abbrev in the middle of a sentence.
- Other dot-ended abbreviations:
 - e.g., *dot.*, *egip.*, *popr.*
- Mutli-part abbreviations:
 - e.g., *m.in.*, *p.n.e.*
- Abbreviations without the dot:
 - e.g., *mjr*, *s-ka*, *EUR*, *MB*
 - can be inflected: *dra* (or *dr.!*), *OSiR-u.*

- Straightforward for date-tagged tokens.
- Look for specific token/tag sequences, e.g.:
 - tag=int - tag=rom - tag=int
 - tag=int - tag=m-* - tag=int - tok="r" - tok="."
- Check day and month range.
- Merge tokens into one and assign them appropriate tag.
- Replace remaining int and m-* tags with ara and word respectively.