

# A comparative evaluation of statistical part-of-speech taggers for Russian

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## Abstract

© Springer International Publishing Switzerland 2015. Part-of-speech (POS) tagging is an essential step in many text processing applications. Quite a few works focus on solving this task for Russian; their results are not directly comparable due to the lack of shared datasets and tools. We propose a POS tagging evaluation framework for Russian that comprises existing third-party resources available for researchers. We applied the framework to compare several implementations of statistical classifiers: HunPos, Stanford POS tagger, OpenNLP implementation of MaxEnt Markov Model, and our own reimplementations of Tiered Conditional Random Fields. The best tagger that was trained on a corpus with less than one million words achieved an accuracy above 93%. We expect that the evaluation framework will facilitate future studies and improvements on POS tagging for Russian.

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