## russiannames Documentation

Release 1.0.1

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Dec 02, 2021

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# Russian Names

*russiannames* is a Python 3 library dedicated to parse Russian names, surnames and midnames, identify person gender by fullname and how name is written. It uses MongoDB as backend to speed-up name parsing.

## Documentation

Documentation is built automatically and can be found on https://russiannames.readthedocs.org/en/latest/

## Installation

To install Python library use pip install russiannames via pip or python setup.py install

To use database you need MongoDB instance. Unpack db\_data\_bson.zip file from https://github.com/datacoon/ russiannames/blob/master/data/bson/db\_dump\_bson.zip

and use mongorestore command to restore names database with 3 collections: names, surnames and midnames

## Features

Database of names used for identification

- 375449 surnames collection: surnames
- 32134 first names collection: names
- 48274 midnames collection: midnames

Detailed database statistics by gender and collection

collection| total | males|females|universal or unidentified | — | — | — | — | — | names | 32134 | 19297 | 8278 | 1196 | midnames | 48274 | 30114 | 16143 | 0 | surnames | 375274 | 124662 | 111534 | 38827 |

Supports 12 formats of Russian full names writing style

Format | Example | Description |

\_\_\_\_ I \_\_\_\_\_ I \_\_\_\_\_ I

- f | | only first name |
- s | | only surname |
- Fs |. | first letter of first name and full surname |
- sF | . | full surname and first letter of surname |
- sf | | full surname and full first name |
- fs | | full first name and full surname |
- fm | | full first name and full middlename |
- SFM | ... | first letters of surname, first name, middlename |

FMs | .. | first letters of first and middle name and full furname |

sFM | ... | full surname and first letters of first and middle names |

 $sfM \mid \ . \mid full \ surname, first name and first letter of middle name \mid$ 

- sfm | | full name as surname, first name and middle name |
- fms | | full name as first name, middle name and surname |

Supports names with following ethnics identification

9 ethnic types in names, surnames and middle names supported

## Limitations

- · very rare names, surnames or middlenames could be not parsed
- · ethnic identification is still on early stage

## Speed optimization

· preconfigured and preindexed MongoDb collections used

## Usage and Examples

### Parse name and identify gender

Parses names and returns: format, surname, first name, middle name, parsed (True/False) and gender

Gender field could have one of following values:

- m: Male
- f: Female
- u: Unknown / unidentified
- -: Impossible to identify

### Ethnic identification (experimental) Parses surname, first name and middle name and tries to identify person ethic affiliation of the person

```
>>> from russiannames.parser import NamesParser
>>> parser = NamesParser()
>>> parser.classify('', '', '')
```

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```
{'ethnics': ['tur'], 'gender': 'm'}
>>> parser.classify('', '', '')
{'ethnics': ['slav'], 'gender': 'f'}
```

## Supported languages \* Russian

## Requirements \* pymongo \* click

## Related projects - Slavic names https://github.com/wb-08/SlavicNames - same data shipped as SQLite database

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