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# **ISLEX pronunciation dictionary accessors Documentation**

***Release 0.2.4***

**Jeremy G. Kahn**

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## ISLE pronunciation dictionary accessors

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Utility classes to support easy extraction and manipulation of dictionary-to-pronunciation from the ISLE dictionary.

- Free software: MIT license
- Documentation: <https://islex.readthedocs.io>.

### 1.1 Features

- Loading and navigating around the data structures of the ISLE lexicon.

### 1.2 Credits

Package author is [Jeremy G Kahn](#), repackaging the very useful [ISLE pronunciation lexicon](#) from the [Illinois Speech and Language Engineering](#) group.

This package was created with [Cookiecutter](#) and the [audreyr/cookiecutter-pypackage](#) project template.





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## Installation

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### 2.1 Stable release

To install ISLEX pronunciation dictionary accessors, run this command in your terminal:

```
$ pip install islex
```

This is the preferred method to install ISLEX pronunciation dictionary accessors, as it will always install the most recent stable release.

This package is tested for support on Python 2.7+, Python 3.4+, and current PyPy.

If you don't have `pip` installed, this [Python installation guide](#) can guide you through the process.

### 2.2 From sources

The sources for ISLEX pronunciation dictionary accessors can be downloaded from the [Github repo](#).

You can either clone the public repository:

```
$ git clone git://github.com/jkahn/islex
```

Or download the [tarball](#):

```
$ curl -OL https://github.com/jkahn/islex/tarball/master
```

Once you have a copy of the source, you can install it with:

```
$ python setup.py install
```

### 2.3 Release checklist

Update HISTORY.rst with release notes for *upcoming* release. Commit to master.

Check that everything still works:

```
$ make test-all
```

Update the version number:

```
$ bumpversion patch # or minor, or major?
```

Make sure everything still works:

```
$ make test-all
```

Push the version bump and its tag up to the repo:

```
$ git push; git push --tags
```

Expect (if you're Jeremy) that travis will push the wheel to pypi.

Edit the release on Github (e.g. <https://github.com/jkahn/islex/releases>). Paste release notes into the release's release page, and come up with a title for the release.

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## Usage

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To use ISLEX pronunciation dictionary accessors in a project:

```
import islex
```

The core classes are loaded from:

```
import islex.tokens
```

And the loading module is found in:

```
import islex.load
```

Data itself is generated from ISLE dictionary downloads found in supporting projects `islex-core`, `islex-periphery`, and `islex-entities`.



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## Contributing

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Contributions are welcome, and they are greatly appreciated! Every little bit helps, and credit will always be given. You can contribute in many ways:

### 4.1 Types of Contributions

#### 4.1.1 Report Bugs

Report bugs at <https://github.com/jkahn/islex/issues>.

If you are reporting a bug, please include:

- Your operating system name and version.
- Any details about your local setup that might be helpful in troubleshooting.
- Detailed steps to reproduce the bug.

#### 4.1.2 Fix Bugs

Look through the GitHub issues for bugs. Anything tagged with “bug” and “help wanted” is open to whoever wants to implement it.

#### 4.1.3 Implement Features

Look through the GitHub issues for features. Anything tagged with “enhancement” and “help wanted” is open to whoever wants to implement it.

#### 4.1.4 Write Documentation

ISLEX pronunciation dictionary accessors could always use more documentation, whether as part of the official ISLEX pronunciation dictionary accessors docs, in docstrings, or even on the web in blog posts, articles, and such.

### 4.1.5 Submit Feedback

The best way to send feedback is to file an issue at <https://github.com/jkahn/islex/issues>.

If you are proposing a feature:

- Explain in detail how it would work.
- Keep the scope as narrow as possible, to make it easier to implement.
- Remember that this is a volunteer-driven project, and that contributions are welcome :)

## 4.2 Get Started!

Ready to contribute? Here's how to set up *islex* for local development.

1. Fork the *islex* repo on GitHub.
2. Clone your fork locally:

```
$ git clone git@github.com:your_name_here/islex.git
```

3. Install your local copy into a virtualenv. Assuming you have virtualenvwrapper installed, this is how you set up your fork for local development:

```
$ mkvirtualenv islex
$ cd islex/
$ python setup.py develop
```

4. Create a branch for local development:

```
$ git checkout -b name-of-your-bugfix-or-feature
```

Now you can make your changes locally.

5. When you're done making changes, check that your changes pass flake8 and the tests, including testing other Python versions with tox:

```
$ flake8 islex tests
$ python setup.py test or py.test
$ tox
```

To get flake8 and tox, just pip install them into your virtualenv.

6. Commit your changes and push your branch to GitHub:

```
$ git add .
$ git commit -m "Your detailed description of your changes."
$ git push origin name-of-your-bugfix-or-feature
```

7. Submit a pull request through the GitHub website.

## 4.3 Pull Request Guidelines

Before you submit a pull request, check that it meets these guidelines:

1. The pull request should include tests.

2. If the pull request adds functionality, the docs should be updated. Put your new functionality into a function with a docstring, and add the feature to the list in README.rst.
3. The pull request should work for Python 2.6, 2.7, 3.3, 3.4 and 3.5, and for PyPy. Check [https://travis-ci.org/jkahn/islex/pull\\_requests](https://travis-ci.org/jkahn/islex/pull_requests) and make sure that the tests pass for all supported Python versions.

## 4.4 Tips

To run a subset of tests:

```
$ py.test tests.test_islex
```





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## Roadmap

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### 5.1 Next up

- Include clean, indexed dictionary in package.

### 5.2 Wishlist

- Depend on `attr` module instead of `namedtuple`.

### 5.3 Improvements to automation

- get coverage automation through travis.
- cherry-pick tweaks to template out to separate `package-automation` branch
- Port `package-automation` into a `cookiecutter-pypackage` fork.

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**Credits**

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## 6.1 Development Lead

- Jeremy G. Kahn <[jeremy@trochee.net](mailto:jeremy@trochee.net)>

## 6.2 Contributors

None yet. Why not be the first?



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## History

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### 7.1 0.2.2 (2016-08-28)

- Support read-only lazy loading of case-insensitive mappings from orthography.
- Docs fixes.

### 7.2 0.2.1 (2016-07-26)

- Mark as zip-safe.
- Correct some loading code to work better for subpackages.

### 7.3 0.2.0 (2016-07-26)

- Constructs `islex.data` namespace for other packages to land in.
- Improved handling of morphologically-analyzed words.
- Include behaviors to restore to strings.
- Include functions to write to external files for managing data as subpackages.
- codecov support

### 7.4 0.1.2 (2016-07-20)

- (intended difference with : release to PyPI done by Travis.)
- Refactor to use *attrs* classes for clean, fast types.

### 7.5 0.1.1 (2016-07-12)

- released on pypi (without this note).
- added several tweaks and tuning towards coverage with pytest

## 7.6 0.1.0 (2016-07-12)

- First release on PyPI.
- Supported Travis-CI, [islex.readthedocs.org](http://islex.readthedocs.org), and [pyup-ci.org](http://pyup-ci.org)

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## Indices and tables

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- `genindex`
- `modindex`
- `search`