Sudokumizer Documentation

Release 0.0.5

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Jun 01, 2020

Contents

pypi package 0.0.6

build passing

Returns a Sudoku board sollution as a numpy 2d array. Use as a starting point for your own Sudoku creations.

```
[[9 2 3 7 4 5 6 1 8]
 [1 5 8 6 3 9 2 4 7]
 [4 6 7 8 1 2 3 5 9]
 [8 9 1 2 7 6 5 3 4]
 [7 3 5 1 9 4 8 6 2]
 [6 4 2 3 5 8 9 7 1]
 [3 7 9 5 2 1 4 8 6]
 [5 8 4 9 6 7 1 2 3]
 [2 1 6 4 8 3 7 9 5]]
```

This is my Hello World project when starting to learn Python.

Example: https://repl.it/@tomasforsman/sudokumizer

Full documentation: https://sudokumizer.readthedocs.io/en/latest/

TODO::

- **Return other formats than numpy 2d array.**

    - JSON

    - 2D Array

    - Object

    - Database

- Write tests (yes, this should have been done earlier)

- Ensure compability

- **Create a microservice using Django and Google App Engine**

    - REST

    - GraphQL

Contents:

1.1 Installation

At the command line either via easy_install or pip:

```
$ easy_install sudokumizer
$ pip install sudokumizer
```

Or, if you have virtualenvwrapper installed:

```
$ mkvirtualenv sudokumizer
$ pip install sudokumizer
```

1.2 Usage

To use Sudokumizer in a project:

```python
from sudokumizer import board
board = board.draw()
```

Example: Repl.

1.3 Contributing

Contributions are welcome, and they are greatly appreciated! Every little bit helps, and credit will always be given.

You can contribute in many ways:

1.3.1 Types of Contributions

Report Bugs

Report bugs at https://github.com/tomasforsman/sudokumizer/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.

Fix Bugs

Look through the GitHub issues for bugs. Anything tagged with "bug" is open to whoever wants to implement it.

Implement Features

Look through the GitHub issues for features. Anything tagged with "feature" is open to whoever wants to implement it.

Write Documentation

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

Submit Feedback

The best way to send feedback is to file an issue at https://github.com/tomasforsman/sudokumizer/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 :)

1.3.2 Get Started!

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

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

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

3. Create a branch for local development:

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

Now you can make your changes locally.

---

4. When you're done making changes, check that your changes pass style and unit tests, including testing other Python versions with tox:

```
$ tox
```

To get tox, just pip install it.

5. 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
```

6. Submit a pull request through the GitHub website.

1.3.3 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, and 3.3, and for PyPy. Check https://travis-ci.org/tomasforsman/sudokumizer under pull requests for active pull requests or run the `tox` command and make sure that the tests pass for all supported Python versions.

1.3.4 Tips

To run a subset of tests:

```
$ py.test test/test_sudokumizer.py
```

1.4 Credits

1.4.1 Development Lead

- Tomas Forsman <tomas@forsman.dev>

1.4.2 Contributors

None yet. Why not be the first?

1.5 History

1.5.1 0.0.5 (2019-08-20)

- Changed setup language to Python 3.7

1.5.2 0.0.3 and 0.0.4 (2019-08-20)

- Update to readme and documentation

1.5.3 0.0.2 (2019-08-19)

- Refactoring

1.5.4 0.0.1 (2019-08-19)

- First release on PyPI.

Feedback

If you have any suggestions or questions about **Sudokumizer** feel free to email me at tomas@forsman.dev.

If you encounter any errors or problems with **Sudokumizer**, please let me know! Open an Issue at the GitHub http://github.com/tomasforsman/sudokumizer main repository.