calh Documentation

Release 2.2.1

Ricky Lim

May 13, 2020

Contents:

1 calh **1**
- 1.1 Features . . . 1
- 1.2 Credits . . . 1

2 Installation **3**
- 2.1 Stable release . . . 3
- 2.2 From sources . . . 3

3 Usage **5**

4 calh **7**
- 4.1 calh package . . . 7

5 Contributing **9**
- 5.1 Types of Contributions . . . 9
- 5.2 Get Started! . . . 10
- 5.3 Pull Request Guidelines . . . 11
- 5.4 Tips . . . 11
- 5.5 Deploying . . . 11

6 Credits **13**
- 6.1 Development Lead . . . 13
- 6.2 Contributors . . . 13

7 History **15**
- 7.1 2.2.0 (2020-05-13) . . . 15
- 7.2 2.0.0 (2020-05-06) . . . 15
- 7.3 1.0.0 (2020-05-05) . . . 15
- 7.4 0.1.2 (2020-03-06) . . . 15
- 7.5 0.1.1 (2020-03-06) . . . 15
- 7.6 0.1.0 (2020-03-06) . . . 16

8 Indices and tables **17**

Python Module Index **19**

Index **21**

CHAPTER 1

calh

Calendar Heatmap

Inspired by voila_spotify, to create a heatmap for calendar data.

The app is available, at_heroku.

You could also check out the notebook example, here.

- Free software: Apache Software License 2.0
- Documentation: https://calh.readthedocs.io.

1.1 Features

- Filtering calendar
- Visualizing calendar

1.2 Credits

This package was created with Cookiecutter and the audreyr/cookiecutter-pypackage project template.

CHAPTER 2

Installation

2.1 Stable release

To install calh, run this command in your terminal:

```
$ pip install calh
```

This is the preferred method to install calh, as it will always install the most recent stable release.

If you don't have pip installed, this Python installation guide can guide you through the process.

2.2 From sources

The sources for calh can be downloaded from the Github repo.

You can either clone the public repository:

```
$ git clone git://github.com/ricky-lim/calh
```

Or download the tarball:

```
$ curl -OJL https://github.com/ricky-lim/calh/tarball/master
```

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

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

CHAPTER 3

Usage

To use calh in a project:

```
import calh
```

To use calh as CLI

```
$ calh --help

# Visualizing calendar as a heatmap
$ calh draw-calendar --full-year \
--input-file examples/data/raw/ics/liverpool.ics \
--title 'Liverpool Matches 2019/2020' \
--output-file examples/data/processed/png/liverpool.png
```

To use as a web-app

voila calh.ipynb –VoilaConfiguration.file_whitelist="['.*(pnglics)']"

CHAPTER 4

calh

4.1 calh package

4.1.1 Submodules

4.1.2 calh.app module

4.1.3 calh.cli module

4.1.4 calh.filter module

4.1.5 calh.visualization module

4.1.6 Module contents

Top-level package for calh.

CHAPTER 5

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:

5.1 Types of Contributions

5.1.1 Report Bugs

Report bugs at https://github.com/ricky-lim/calh/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.

5.1.2 Fix Bugs

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

5.1.3 Implement Features

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

5.1.4 Write Documentation

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

5.1.5 Submit Feedback

The best way to send feedback is to file an issue at https://github.com/ricky-lim/calh/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 :)

5.2 Get Started!

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

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

```
$ git clone git@github.com:your_name_here/calh.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 calh
$ cd calh/
$ 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 calh tests
$ python setup.py test or pytest
$ 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.

5.3 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 3.5, 3.6, 3.7 and 3.8, and for PyPy. Check https://travis-ci.com/ricky-lim/calh/pull_requests and make sure that the tests pass for all supported Python versions.

5.4 Tips

To run a subset of tests:

```
$ pytest tests.test_calh
```

5.5 Deploying

A reminder for the maintainers on how to deploy. Make sure all your changes are committed (including an entry in HISTORY.rst). Then run:

```
$ bump2version patch # possible: major / minor / patch
$ git push
$ git push --tags
```

Travis will then deploy to PyPI if tests pass.

CHAPTER 6

Credits

6.1 Development Lead

- Ricky Lim <rlim.email@gmail.com>

6.2 Contributors

None yet. Why not be the first?

CHAPTER 7

History

7.1 2.2.0 (2020-05-13)

- Add UI with voila dashboard

7.2 2.0.0 (2020-05-06)

- Input parameter refactored into input_data for *Heatmap* class API.

7.3 1.0.0 (2020-05-05)

- Support calendar filtering
- Support calendar visualization as a heatmap

7.4 0.1.2 (2020-03-06)

- Ensure tox passed

7.5 0.1.1 (2020-03-06)

- Stop support on python 3.5 due to f-string

7.6 0.1.0 (2020-03-06)

- First release on PyPI.

CHAPTER 8

Indices and tables

- genindex
- modindex
- search

Python Module Index

C

calh, 7

Index

C

calh (*module*), 7