PyCodata Documentation

Release 0.4.0

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CHAPTER

ONE

INTRODUCTION

1.1 Description

Python wrapper around the (Modern) Fortran codata library. Follow the installation instructions. for compiling and installing the library.

For now, the wrapper must be compiled on Linux, windows and MacOS platforms after installing the codata library using the compiler that was used to compile your python interpreter.

On Windows Intel Fortran Redistributable and Visual C++ Redistributable for Visual Studio 2015 are necessary.

The list of the available constants: https://milanskocic.github.io/codata/md_introduction_raw_codata.html.

The version of the python wrapper follows the versions (major and minor) of the codata library. The patches will be independent.

A pdf version of the documentation can be found here pycodata. The source code can be viewed on GitHub.

1.2 How to install

pip install pycodata

1.3 Dependencies

1.4 License

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RELEASE NOTES

2.1 PyCodata 0.3.0 Release Note

2.1.1 Changes

- Update wrapper for matching codata 0.3
- API change which provides only the last codata constants.

2.1.2 Download

PyPI

2.1.3 Contributors

Milan Skocic

2.1.4 Commits

 $\textbf{Full Changelog:}\ https://github.com/MilanSkocic/pycodata/compare/0.2.6.\dots0.3.0$

2.2 PyCodata 0.2.6 Release Note

2.2.1 Changes

- Functional setup for compiling the wrapper with pip.
- Update documentation.

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2.2.4 Commits

Full Changelog: https://github.com/MilanSkocic/pycodata/compare/0.2.5...0.2.6

2.3 PyCodata 0.2.5 Release Note

2.3.1 Changes

• Fix errors for compiling and installing from sources with pip.

2.3.2 Download

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2.3.3 Contributors

Milan Skocic

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Full Changelog: https://github.com/MilanSkocic/pycodata/compare/0.2.4...0.2.5

2.4 PyCodata 0.2.4 Release Note

2.4.1 Changes

• Fix errors for compiling and installing from sources with pip.

2.4.2 Download

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Full Changelog: https://github.com/MilanSkocic/pycodata/compare/0.2.3...0.2.4

2.5 PyCodata 0.2.3 Release Note

2.5.1 Changes

• Fix errors for compiling and installing from sources with pip.

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Full Changelog: https://github.com/MilanSkocic/pycodata/compare/0.2.2...0.2.3

2.6 PyCodata 0.2.2 Release Note

2.6.1 Changes

• Handle missing site.cfg.

2.6.2 Download

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 $Full\ Changelog:\ https://github.com/MilanSkocic/pycodata/compare/0.2.1...0.2.2$

2.7 PyCodata 0.2.1 Release Note

2.7.1 Changes

• Fix error in sdist.

2.7.2 Download

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2.8 PyCodata 0.2.0 Release Note

2.8.1 Changes

• Implementation of the getter and setter around the codata constants.

2.8.2 Download

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2.8.3 Contributors

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2.8.4 Commits

Full Changelog: https://github.com/MilanSkocic/pycodata/compare/....0.2.0

AUTOGENERATED DOCUMENTATION

3.1 Documentation

Print all codata constants.

3.1.1 pycodata

Python wrapper of the (Modern Fortran) codata library.

All attributes of the C extension pycodata._codata are directly available in the python wrapper.

3.1.2 codata

```
C extension wrapping the (Modern Fortran) codata constants.
pycodata._codata.as_dict()
     as_dict() -> dict
     Return all constants available in a dictionnary
pycodata._codata.get_number_constants()
     get_bumber_constants() -> int
     Get the number of constants.
pycodata._codata.get_uncertainty()
     get_uncertainty(name) -> float
     Get the uncertainty of the constant defined by name. If not found returns NaN
pycodata._codata.get_unit()
     get_unit(name) -> float
     Get the unit of the constant defined by name. If not found returns "None"
pycodata._codata.get_value()
     get_value(name) -> float
     Get the value of the constant defined by name. If not found returns NaN
pycodata._codata.get_year()
     get_year() -> str
     Get the revision year for the codata constants.
pycodata._codata.print()
     print() -> None
```

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