
SpectroscopyPyx Documentation

Release 0.1.0

SpectroscopyPyx Community

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SpectroscopyPyx is an open source community-developed core Python package for spectroscopy.

SPECTROSCOPYX DOCUMENTATION

This is the documentation for spectroscopyx.

1.1 Reference/API

1.1.1 spectroscopyx Package

Functions

<code>do_primes(n[, usecython])</code>	
<code>main([args])</code>	
<code>primes(imax)</code>	Returns prime numbers up to imax.
<code>test([package, test_path, args, plugins, ...])</code>	Run the tests using <code>py.test</code> .

do_primes

`spectroscopyx.do_primes(n, usecython=False)`

main

`spectroscopyx.main(args=None)`

primes

`spectroscopyx.primes(imax)`

Returns prime numbers up to imax.

Parameters `imax` (*int*) – The number of primes to return. This should be less or equal to 10000.

Returns `result` – The list of prime numbers.

Return type `list`

test

spectroscopyx.**test** (*package=None, test_path=None, args=None, plugins=None, verbose=False, pastebin=None, remote_data=False, pep8=False, pdb=False, coverage=False, open_files=False, **kwargs*)

Run the tests using `pytest`. A proper set of arguments is constructed and passed to `pytest.main`.

Parameters

- **package** (*str, optional*) – The name of a specific package to test, e.g. ‘io.fits’ or ‘utils’. If nothing is specified all default tests are run.
- **test_path** (*str, optional*) – Specify location to test by path. May be a single file or directory. Must be specified absolutely or relative to the calling directory.
- **args** (*str, optional*) – Additional arguments to be passed to `pytest.main` in the `args` keyword argument.
- **plugins** (*list, optional*) – Plugins to be passed to `pytest.main` in the `plugins` keyword argument.
- **verbose** (*bool, optional*) – Convenience option to turn on verbose output from `pytest`. Passing True is the same as specifying ‘-v’ in `args`.
- **pastebin** (*{‘failed’, ‘all’, None}, optional*) – Convenience option for turning on `pytest` pastebin output. Set to ‘failed’ to upload info for failed tests, or ‘all’ to upload info for all tests.
- **remote_data** (*bool, optional*) – Controls whether to run tests marked with `@remote_data`. These tests use online data and are not run by default. Set to True to run these tests.
- **pep8** (*bool, optional*) – Turn on PEP8 checking via the `pytest-pep8` plugin and disable normal tests. Same as specifying ‘--pep8 -k pep8’ in `args`.
- **pdb** (*bool, optional*) – Turn on PDB post-mortem analysis for failing tests. Same as specifying ‘--pdb’ in `args`.
- **coverage** (*bool, optional*) – Generate a test coverage report. The result will be placed in the directory `htmlcov`.
- **open_files** (*bool, optional*) – Fail when any tests leave files open. Off by default, because this adds extra run time to the test suite. Requires the `psutil` package.
- **parallel** (*int, optional*) – When provided, run the tests in parallel on the specified number of CPUs. If parallel is negative, it will use all the cores on the machine. Requires the `pytest-xdist` plugin installed. Only available when using Astropy 0.3 or later.
- **kwargs** – Any additional keywords passed into this function will be passed on to the astropy test runner. This allows use of test-related functionality implemented in later versions of astropy without explicitly updating the package template.

Classes

UnsupportedPythonError

UnsupportedPythonError

exception spectroscopyx.UnsupportedPythonError

Class Inheritance Diagram

```
graph TD; A[UnsupportedPythonError];
```

UnsupportedPythonError

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