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[Find file](#)[Copy path](#)**krotov / setup.py****goerz** Revise documentation according to preprint

0e8a4db Oct 11, 2019

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101 lines (89 sloc) | 2.7 KB

```
1  #!/usr/bin/env python
2  # -*- coding: utf-8 -*-
3  """The setup script."""
4  import sys
5
6  from setuptools import find_packages, setup
7
8
9  def get_version(filename):
10     """Extract the package version"""
11     with open(filename, encoding='utf8') as in_fh:
12         for line in in_fh:
13             if line.startswith('__version__'):
14                 return line.split('=')[1].strip()[1:-1]
15     raise ValueError("Cannot extract version from %s" % filename)
16
17
18  with open('README.rst', encoding='utf8') as readme_file:
19     readme = readme_file.read()
20
21  try:
22     with open('HISTORY.rst', encoding='utf8') as history_file:
23         history = history_file.read()
24  except OSError:
25     history = ''
26
27  # requirements for use
28  requirements = ['glom', 'numpy', 'scipy', 'qutip>=4.3.1', 'uniseg']
29
30  # requirements for development (testing, generating docs)
31  dev_requirements = [
32     'better-apidoc==0.3.1',
33     'click',
34     'coverage',
35     'flake8',
36     'gitpython',
37     'isort',
38     'jupyter',
39     'matplotlib',
40     'nbsphinx',
41     'nbval',
42     'pre-commit',
```

```

43     'pybtex',
44     'pylint',
45     'pytest',
46     'pytest-cov<=2.6.1',
47     'pytest-xdist',
48     'sphinx',
49     'sphinx-autobuild',
50     'sphinx_rtd_theme',
51     'sphinxcontrib-bibtex',
52     'twine',
53     'watermark',
54     'weylchamber>=0.3.2',
55     'wheel',
56 ]
57 if sys.version_info >= (3, 6):
58     dev_requirements.append('black')
59
60 # some recommended packages that make development nicer
61 dev_extras = ['jupyterlab', 'pdbpp']
62
63 version = get_version('./src/krotov/__init__.py')
64
65 setup(
66     author="Michael Goerz",
67     author_email='mail@michaelgoerz.net',
68     classifiers=[
69         'Development Status :: 4 - Beta',
70         'Intended Audience :: Education',
71         'Intended Audience :: Science/Research',
72         'License :: OSI Approved :: BSD License',
73         'Natural Language :: English',
74         'Programming Language :: Python :: 3.5',
75         'Programming Language :: Python :: 3.6',
76         'Programming Language :: Python :: 3.7',
77         'Framework :: Jupyter',
78         'Natural Language :: English',
79         'Operating System :: OS Independent',
80         'Topic :: Scientific/Engineering',
81         'Topic :: Scientific/Engineering :: Physics',
82     ],
83     description=(
84         "Python implementation of Krotov's method for quantum optimal control"
85     ),
86     python_requires='~=3.5',
87     install_requires=requirements,
88     extras_require={'dev': dev_requirements, 'extras': dev_extras},
89     license="BSD license",
90     long_description=readme + '\n\n' + history,
91     long_description_content_type='text/x-rst',
92     include_package_data=True,
93     keywords='krotov',
94     name='krotov',
95     packages=find_packages(where="src"),
96     package_dir={"": "src"},
97     url='https://github.com/qucontrol/krotov',
98     version=version,
99     zip_safe=False,
100 )

```