
pkgwat Documentation

Release 0.3

Red Hat, Inc. Ralph Bean <rbean@redhat.com>

January 16, 2013

CONTENTS

Python Module Index

7

This is a python API for <https://apps.fedoraproject.org/packages>

That webapp is a replacement for the [old fedora-community](#). It indexes a ton of information from Fedora Infrastructure and presents it in a package-centric way. It was developed by J5, [Luke Macken](#), and [Máirín Duffy](#).

In this module, almost all of the methods have a similar signature for limiting the number of rows, paging data results, specifying releases to query against, etc. If the results are problematic (or awesome), you can drop a note in [#fedora-apps](#) on freenode.

You can find the source for this project at <http://github.com/ralphbean/pkgwat.api>

Author Ralph Bean <rbean@redhat.com>

`pkgwat.api.bugs` (*package*, *release*='all', *rows_per_page*=10, *start_row*=0, *strip_tags*=True)

Return a list of bugs for a given package and release.

View <https://apps.fedoraproject.org/packages/python-prettytable/bugs>

```
>>> import pkgwat.api
>>> pkgwat.api.bugs("python-prettytable")
```

The above will yield a list of bugs on the given package:

```
{u'rows': [{u'bug_class': '',
            u'description': u'Python3 support',
            u'id': 837087,
            u'last_modified': u'4 decades, 2 years, 7 months, 14 days and 22 hours',
            u'release': u'Fedora 17',
            u'status': u'Assigned'}],
 u'rows_per_page': 10,
 u'start_row': 0,
 u'total_rows': 1,
 u'visible_rows': 1}
```

`pkgwat.api.builds` (*package*, *state*='all', *rows_per_page*=10, *start_row*=0, *strip_tags*=True)

Retrieve a list of the latest koji builds for a package.

View <https://apps.fedoraproject.org/packages/ccze/builds>

```
>>> import pkgwat.api
>>> pkgwat.api.builds("ccze", rows_per_page=2)
```

The above will return a list of koji builds that looks like:

```
{u'rows': [{u'build_id': 332286,
            u'completion_time': u'2012-07-19 04:01:20.495063',
            u'completion_time_display': {u'elapsed': u'4 minutes',
                                         u'time': u'04:01 AM UTC',
                                         u'when': u'27 days ago'},
            u'completion_ts': 1342670480.49506,
            u'creation_event_id': 4896507,
            u'creation_time': u'2012-07-19 03:57:20.152193',
            u'creation_ts': 1342670240.15219,
            u'epoch': None,
            u'name': u'ccze',
            u'nvr': u'ccze-0.2.1-10.fc18',
            u'owner_id': 131,
            u'owner_name': u'ausil',
            u'package_id': 8962,
            u'package_name': u'ccze',
            u'release': u'10.fc18',
            u'state': 1,
```

```
u'state_str': u'complete',
u'task_id': 4250727,
u'version': u'0.2.1',
u'volume_id': 0,
u'volume_name': u'DEFAULT'},
{u'build_id': 298617,
u'completion_time': u'2012-02-10 13:15:51.600556',
u'completion_time_display': {u'elapsed': u'3 minutes',
                             u'time': u'01:15 PM UTC',
                             u'when': u'6 months ago'},
u'completion_ts': 1328879751.60056,
u'creation_event_id': 4407860,
u'creation_time': u'2012-02-10 13:12:44.186579',
u'creation_ts': 1328879564.18658,
u'epoch': None,
u'name': u'ccze',
u'nvr': u'ccze-0.2.1-9.fc18',
u'owner_id': 1374,
u'owner_name': u'ppisar',
u'package_id': 8962,
u'package_name': u'ccze',
u'release': u'9.fc18',
u'state': 1,
u'state_str': u'complete',
u'task_id': 3778561,
u'version': u'0.2.1',
u'volume_id': 0,
u'volume_name': u'DEFAULT'}]],
u'rows_per_page': 2,
u'start_row': 0,
u'total_rows': 15,
u'visible_rows': 2}
```

`pkgwat.api.changelog` (*package*, *rows_per_page=10*, *start_row=0*, *strip_tags=True*)
Returns the changelog of a package.

View <https://apps.fedoraproject.org/packages/vim/changelog>

```
>>> import pkgwat.api
>>> pkgwat.api.changelog("vim", rows_per_page=2)
```

The above will return the changelog of a package.. something like:

```
{u'rows': [{u'author': u'Karsten Hopp ',
u'date': u'2012-08-06 12:00:00',
u'date_ts': 1344254400,
u'display_date': u'06 Aug 2012',
u'email': u'karsten@redhat.com',
u'text': u'- drop vim-6.1-rh3.patch, (bz #754801)',
u'version': u'7.3.604-1'},
{u'author': u'Karsten Hopp ',
u'date': u'2012-08-06 12:00:00',
u'date_ts': 1344254400,
u'display_date': u'06 Aug 2012',
u'email': u'karsten@redhat.com',
u'text': u'- patchlevel 622',
u'version': u'7.3.622-1'}]],
u'rows_per_page': 2,
u'start_row': 0,
```

```
u'total_rows': 71,
u'visible_rows': 2}
```

`pkgwat.api.contents` (*package*, *arch*='x86_64', *release*='Rawhide', *strip_tags*=True)

Returns the contents of a package.

View <https://apps.fedoraproject.org/packages/mutt/contents>

Warning This one behaves a little differently.

`pkgwat.api.releases` (*package*, *rows_per_page*=10, *start_row*=0, *strip_tags*=True)

Search for a pattern in package names, descriptions, and tags

View <https://apps.fedoraproject.org/packages/nethack>

```
>>> import pkgwat.api
>>> pkgwat.api.releases("nethack")
```

The above will return a list of release information:

```
{u'rows': [{u'release': u'Rawhide',
            u'stable_version': u'3.4.3-27.fc18',
            u'testing_version': u'Not Applicable'},
          {u'release': u'Fedora 18',
            u'stable_version': u'3.4.3-27.fc18',
            u'testing_version': u'None'},
          {u'release': u'Fedora 17',
            u'stable_version': u'3.4.3-26.fc17',
            u'testing_version': u'None'},
          {u'release': u'Fedora 16',
            u'stable_version': u'3.4.3-25.fc15',
            u'testing_version': u'None'},
          {u'release': u'Fedora EPEL 6',
            u'stable_version': u'None',
            u'testing_version': u'None'},
          {u'release': u'Fedora EPEL 5',
            u'stable_version': u'3.4.3-12.el5.1',
            u'testing_version': u'None'}]},
u'rows_per_page': 10,
u'start_row': 0,
u'total_rows': 6,
u'visible_rows': 6}
```

`pkgwat.api.search` (*pattern*, *rows_per_page*=10, *start_row*=0, *strip_tags*=True)

Search for a pattern in package names, descriptions, and tags.

View <https://apps.fedoraproject.org/packages/s/python-pkgwat-api>

```
>>> import pkgwat.api
>>> pkgwat.api.search("python-pkgwat-api")
```

Should give something like:

```
{u'rows': [{u'description': u'Python API for pkgwat',
            u'devel_owner': u'ralph',
            u'icon': u'package_128x128',
            u'link': u'python-pkgwat-api',
            u'name': u'python-pkgwat-api',
            u'sub_pkgs': [{u'description': u'Python API for pkgwat',
                          u'icon': u'package_128x128',
                          u'link': u'python3-python-pkgwat-api',
```

```
    u'name': u'python3-python-pkgwat-api',
    u'summary': u'Python API for querying the packages webapp'}]],
    u'summary': u'Python API for querying the packages webapp',
    u'upstream_url': u'http://pypi.python.org/pypi/pkgwat.api'}]],
    u'rows_per_page': 10,
    u'start_row': 0,
    u'total_rows': 1,
    u'visible_rows': 1}
```

`pkgwat.api.updates` (*package*, *release*='all', *status*='all', *rows_per_page*=10, *start_row*=0, *strip_tags*=True)

Retrieve a list of bodhi updates for a package.

View <https://apps.fedoraproject.org/packages/ccze/updates>

```
>>> import pkgwat.api
>>> pkgwat.api.updates("ccze")
```

The above will return a list of updates with comments and more:

```
{u'rows': [{u'actions': '',
    u'date_pushed': u'10 Aug 2010',
    u'date_pushed_display': u'2 years ago',
    u'date_submitted_display': u'2 years ago',
    u'details': u'10 Aug 2010',
    u'dist_updates': [{
        u'approved': None,
        u'bugs': [
            {u'bz_id': 578958,
              u'parent': False,
              u'security': False,
              u'title': u'[abrt] crash in ccze-0.2.1-5.fc12: Process /usr/bin/ccze was killed by s',
            {u'bz_id': 612866,
              u'parent': False,
              u'security': False,
              u'title': u'[abrt] crash in ccze-0.2.1-5.fc12: parse_opt: Process /usr/bin/ccze was
            u'builds': [{u'nvr': u'ccze-0.2.1-6.el5',
              u'package': {
                  u'committers': [u'hubbitus'],
                  u'name': u'ccze',
                  u'suggest_reboot': False}}],
            u'close_bugs': True,
            u'comments': [{u'anonymous': False,
              u'author': u'bodhi',
              u'group': None,
              u'karma': 0,
              u'text': u'This update has been submitted for testing by hubbitus. ',
              u'timestamp': u'2010-08-10 07:30:07',
              u'update_title': u'ccze-0.2.1-6.el5'},
            {u'anonymous': False,
              u'author': u'bodhi',
              u'group': None,
              u'karma': 0,
              u'text': u'This update has been pushed to testing',
              u'timestamp': u'2010-08-10 17:55:25',
              u'update_title': u'ccze-0.2.1-6.el5'},
            {u'anonymous': False,
              u'author': u'bodhi',
              u'group': None,
```

```
    u'karma': 0,
    u'text': u'This update has reached 14 days in testing and can be pushed to stable',
    u'timestamp': u'2010-08-24 23:06:30',
    u'update_title': u'ccze-0.2.1-6.el5'},
    {u'anonymous': False,
     u'author': u'bodhi',
     u'group': None,
     u'karma': 0,
     u'text': u'This update has been submitted for stable by hubbitus. ',
     u'timestamp': u'2010-08-25 08:00:11',
     u'update_title': u'ccze-0.2.1-6.el5'},
    {u'anonymous': False,
     u'author': u'bodhi',
     u'group': None,
     u'karma': 0,
     u'text': u'This update has been pushed to stable',
     u'timestamp': u'2010-08-25 18:54:46',
     u'update_title': u'ccze-0.2.1-6.el5'}}],
    u'critpath': False,
    u'critpath_approved': True,
    u'date_modified': None,
    u'date_pushed': u'2010-08-10 17:23:39',
    u'date_submitted': u'2010-08-10 07:29:56',
    u'karma': 0,
    u'nagged': None,
    u'notes': '',
    u'release': {
        u'dist_tag': u'dist-5E-epel',
        u'id_prefix': u'FEDORA-EPEL',
        u'locked': False,
        u'long_name': u'Fedora EPEL 5',
        u'name': u'EL-5'},
    u'release_name': u'Fedora EPEL 5',
    u'request': None,
    u'stable_karma': 3,
    u'status': u'stable',
    u'submitter': u'hubbitus',
    u'title': u'ccze-0.2.1-6.el5',
    u'type': u'bugfix',
    u'unstable_karma': -3,
    u'updateid': u'FEDORA-EPEL-2010-3205',
    u'version': u'0.2.1-6.el5'}],
    u'id': u'ccze-0.2.1-6.el5',
    u'karma_level': u'meh',
    u'karma_str': u' 0',
    u'name': u'ccze',
    u'nvr': u'ccze-0.2.1-6.el5',
    u'package_name': u'ccze',
    u'releases': [u'Fedora EPEL 5'],
    u'request_id': u'ccze021-6el5',
    u'status': u'stable',
    u'title': u'ccze-0.2.1-6.el5',
    u'versions': [u'0.2.1-6.el5']}],
    u'rows_per_page': 10,
    u'start_row': 0,
    u'total_rows': 2,
    u'visible_rows': 1}
```


PYTHON MODULE INDEX

p

pkgwat.api, ??