
pyrpo Documentation

Release 0.2.1

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May 24, 2015

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[GitHub](#) | [PyPi](#) | [Warehouse](#) | [Documentation](#) | [Travis-CI](#) pyrpo: a shell command wrapper for hg, git, bzt, svn

1.1 Features

- Wrap and parse shell commands (largely as a reference)
- Walk for repository directories
- Generate reports for one or more repositories
- Call `hg status`, `git status`, etc.
- Generate mercurial `.hgsubs`
- Generate git `.git submodule`
- Generate `pip requirements.txt`
- Generate shell script (to rebuild environment)
 - TODO: replicate branches/tags/revisions
- Functional `namedtuples`, `iterators` `yield-ing` generators
- `optparse` argument parsing (`-h`, `--help`)
- `cookiecutter-pypackage` project templating

1.2 Installing

Install from [PyPi](#):

```
pip install pyrpo
```

Install from [GitHub](#) as editable (add a `pyrpo.pth` in `site-packages`):

```
pip install -e git+https://github.com/westurner/pyrpo#egg=pyrpo
```

1.3 Usage

Print help:

```
pyrpo --help
```

Scan for files:

```
# Scan and print a shell report
pyrpo -s . -r sh
pyrpo
```

Generate a TortoiseHG `thg-reporegistry.xml` file:

```
pyrpo -s . --thg
```

Generate a pip report:

```
pyrpo -r pip
```

Generate a status report:

```
pyrpo -r status
```

Generate an `.hgsubs` file:

```
pyrpo -r hgsub
```

Generate a `.gitmodules` file:

```
pyrpo -r gitmodule
```

Generate an origin report:

```
pyrpo -r origin
```

Generate a string report:

```
pyrpo -r str
```

1.4 License

BSD Software License

Installation

At the command line:

```
$ easy_install pyrpo
```

Or, if you have virtualenvwrapper installed:

```
$ mkvirtualenv pyrpo  
$ pip install pyrpo
```

Usage

To use pyrpo in a project:

```
import pyrpo
```

To use pyrpo as a shell command:

```
Usage: pyrpo [-h] [-v] [-q] [-s .] [-r <pip||full|status|hgsub|thg>] [--thg]
```

Options:

```
-h, --help            show this help message and exit
-s SCAN, --scan=SCAN  Path(s) to scan for repositories
-r REPORTS, --report=REPORTS
                        pip || full || status || hgsub || thg
--thg                Write a thg-reporegistry.xml file to stdout
--template=REPORT_TEMPLATE
                        Report template
-v, --verbose
-q, --quiet
```


4.1 pyrpo package

4.1.1 Submodules

4.1.2 pyrpo.pyrpo module

```
class pyrpo.pyrpo.BzrRepository (fpath)  
    Bases: pyrpo.pyrpo.Repository  
    Bzr Repository subclass  
  
    label  
        str  
        vcs name (e.g. "hg")  
  
    prefix  
        str  
        vcs folder name (e.g. ".hg")  
  
    preparse  
        callable  
        pre-processing function for vcs log output  
  
    fsep  
        str  
        field separator / record delimiter  
  
    lsep  
        str  
        log output record separator / delimiter  
  
    fields  
        list of tuples  
        (colname, vcs formatter, postprocess_callable)  
  
    clone_cmd  
        str  
        name of commandline clone command (e.g. "clone")
```

field_trans

dict

mapping between bzd field outputs and tuple fields

logrgx

rgx

compiled regex for parsing log message fields

branch

Determine the branch name of the working directory of this Repository

Returns branch nick (bzd nick)

Return type str

clone_cmd = 'branch'

current_id

Determine the current revision identifier for the working directory of this Repository

Returns bazaar revision identifier (bzd version-info --custom
--template='{revision_id}')

Return type str

diff()

Run the repository diff command to compare working directory with 'tip'

Returns stdout output of bzd diff

Return type str

field_trans = {'timestamp': 'datestr', 'message': 'desc', 'revno': 'noderev', 'branch nick': 'branchnick', 'committer':

fields = (('datestr', None, <function parse at 0x7ff29e8eb230>), ('noderev', None, None), ('author', None, None), ('tags'

fsep = '\n'

label = 'bzd'

log (n=None, template=None)

Run the repository log command

Returns output of log command (bzd log -l <n>)

Return type str

logrgx = <_sre.SRE_Pattern object at 0x140b4e0>

lsep = '_____'

prefix = '.bzd'

remote_url

Determine the primary remote url for this Repository

Returns primary remote url for this Repository (bzd info | egrep '^ parent
branch:' | awk '{ print \$3 }')

Return type str

status

Run the repository status command and return stdout

Returns stdout output of bzd status command

Return type str

template = None

unique_id

Determine a “unique id” for this repository

Returns fpath of this repository

Return type str

class `pyrpo.pyrpo.GitRepository(fpath)`

Bases: `pyrpo.pyrpo.Repository`

Git Repository subclass

label

str

vcs name (e.g. “hg”)

prefix

str

vcs folder name (e.g. “.hg”)

preparse

callable

pre-processing function for vcs log output

fsep

str

field separator / record delimiter

lsep

str

log output record separator / delimiter

fields

list of tuples

(colname, vcs formatter, postprocess_callable)

clone_cmd

str

name of commandline clone command (e.g. “clone”)

template

str

concatenated log output template

branch

Determine the branch name of the working directory of this Repository

Returns branch name (git branch)

Return type str

cfg_file

checkout_branch_cmd = ‘checkout’

checkout_branch_hard_cmd = ‘checkout -C’

checkout_rev_cmd = 'checkout -r'

clone_cmd = 'clone'

current_id

diff()

Run the repository diff command to compare working directory with 'tip'

Returns stdout output of `git diff`

Return type str

fields = (('datestr', '%ai', None, <function parse at 0x7ff29e8eb230>), ('noderev', '%h', None), ('author', '%an', None,

incoming_cmd = 'incoming'

label = 'git'

last_commit

Get and parse the most recent Repository revision

Returns Repository log tuple

Return type tuple

log (*n=None, **kwargs*)

Run the repository log command

Returns output of log command (`git log -n <n> --kward=value>`)

Return type str

loggraph()

Show the log annotated an with ASCII revlog graph

Returns stdout output from `git log --graph`

Return type str

new_branch_cmd = 'checkout -b'

outgoing_cmd = 'outgoing'

prefix = '.git'

pull_cmd = 'pull'

push_cmd = 'push'

remote_url

Determine the primary remote url for this Repository

Returns primary remote url for this Repository (`git config remote.origin.url`)

Return type str

remote_urls

Get all configured remote urls for this Repository

Returns primary remote url for this Repository (`git config -l | grep "url"`)

Return type str

repo_abspath_cmd = '-C'

serve()

Run the `git serve` command

status

Run the repository status command and return stdout

Returns stdout output of `hg status` command

Return type `str`

template = `'%ai ||| %h ||| %an ||| %d ||| %s |..|'`

unique_id

Determine a “unique id” for this repository

Returns fpath of this repository

Return type `str`

unpushed()

Returns stdout output from `git log master --not --remotes='*/master'`.

Return type `str`

class `pyrpo.pyrepo.MercurialRepository(fpath)`

Bases: `pyrpo.pyrepo.Repository`

Mercurial Repository subclass

label

str

vcs name (e.g. “hg”)

prefix

str

vcs folder name (e.g. “.hg”)

preparse

callable

pre-processing function for vcs log output

fsep

str

field separator / record delimiter

lsep

str

log output record separator / delimiter

fields

list of tuples

(colname, vcs formatter, postprocess_callable)

clone_cmd

str

name of commandline clone command (e.g. “clone”)

template

str

concatenated log output template

branch

Determine the branch name of the working directory of this Repository

Returns branch name (hg branch)

Return type str

cfg_file

checkout_branch_cmd = 'checkout'

checkout_branch_hard_cmd = 'checkout -C'

checkout_rev_cmd = 'checkout -r'

clone_cmd = 'clone'

current_id

Determine the current revision identifier for the working directory of this Repository

Returns revision identifier (hg id -i)

Return type str

diff

Run the repository diff command to compare working directory with 'tip'

Returns stdout output of hg diff -g

Return type str

fields = (('datestr', '{date|isodatesec}', <function parse at 0x7ff29e8eb230>), ('noderev', '{node|short}', None), ('author', '{author|short}', None))

incoming_cmd = 'incoming'

label = 'hg'

log (n=None, **kwargs)

Run the repository log command

Returns output of log command (hg log -l <n> <--kwarg=value>)

Return type str

loggraph()

Show the log annotated an with ASCII revlog graph

Returns stdout output from hg log --graph

Return type str

new_branch_cmd = 'branch'

outgoing_cmd = 'outgoing'

overwrite_hg_paths (text)

prefix = '.hg'

pull_cmd = 'pull'

push_cmd = 'push'

remote_url

Determine the primary remote url for this Repository

Returns primary remote url for this Repository (hg showconfig paths.default)

Return type str

remote_urls

Get all configured remote urls for this Repository

Returns primary remote url for this Repository (`hg showconfig paths.default`)

Return type str

repo_abspath_cmd = '-R'

serve()

Run the `hg serve` command

sh (*args, **kwargs)

status

Run the repository status command and return stdout

Returns stdout output of `hg status` command

Return type str

template = '{dateisodatesec} ||| {node|short} ||| {author|firstline} ||| {tags} ||| {desc} |..|'

classmethod to_hg_scheme_url (url)

Convert a URL to local mercurial URL schemes

Parameters url (str) – URL to map to local mercurial URL schemes

example

```
# schemes.gh = git://github.com/ >> remote_url = git://github.com/westurner/dotfiles' >>
to_hg_scheme_url(remote_url) << gh://westurner/dotfiles
```

classmethod to_normal_url (url)

convert a URL from local mercurial URL schemes to “normal” URLs

example

```
# schemes.gh = git://github.com/ # remote_url = “gh://westurner/dotfiles” >> to_normal_url(remote_url)
<< ‘git://github.com/westurner/dotfiles’
```

unique_id

Determine a “unique id” for this repository

Returns fpath of this repository

Return type str

unpushed()

Show outgoing changesets

Raises NotImplementedError – always

class pyrpo.pyrpo.Repository (fpath)

Bases: object

Abstract Repository class from which VCS-specific implementations derive

label

str

vcs name (e.g. “hg”)

prefix*str*

vcs folder name (e.g. ".hg")

preparse*callable*

pre-processing function for vcs log output

fsep*str*

field separator / record delimiter

lsep*str*

log output record separator / delimiter

fields*list of tuples*

(colname, vcs formatter, postprocess_callable)

clone_cmd*str*

name of commandline clone command (e.g. "clone")

__str__()**Returns** *//fpath***Return type** *str*: "label**__unicode__()****Returns** *//fpath***Return type** *str*: "label**branch()**

Determine the branch name of the working directory of this Repository

Returns branch name**Return type** *str***cfg_file****checkout_branch_cmd** = 'checkout'**checkout_rev_cmd** = 'checkout -r'**clone_cmd** = 'clone'**ctime****Returns** strftime-formatted ctime (creation time) of fpath**Return type** *str***current_id()**

Determine the current revision identifier for the working directory of this Repository

Returns revision identifier**Return type** *str*

diff()

Run the repository diff command to compare working directory with 'tip'

Returns stdout output of Repository diff command

Return type str

eggname

Returns basename of repository path (e.g. for pip_report)

Return type str

fields = []

find_symlinks

Find symlinks within fpath

Returns path -> link

Return type str

fsep = '|||'

full_report()

Show origin, last_commit, status, and parsed complete log history for this repository

Yields str – report lines

gitmodule_report()

Yields str – .gitmodules configuration lines for this repository

hgsub_report()

Yields str – .hgsubs line for this repository

incoming_cmd = 'incoming'

itersplit_to_fields(_str)

Split (or parse) repository log output into fields

Returns self._tuple(*values)

Return type tuple

json_report()

label = None

last_commit

Get and parse the most recent Repository revision

Returns Repository log tuple

Return type tuple

lately(count=15)

Show count most-recently modified files by mtime

Yields tuple – (strftime-formatted mtime, self.fpath-relative file path)

log(n=None, **kwargs)

Run the repository log command

Returns output of log command

Return type str

log_iter (*maxentries=None, template=None, **kwargs*)
Run the repository log command, parse, and yield log tuples
Yields *tuple* – self._tuple

lsep = ' |.|'

mtime
Returns strftime-formatted mtime (modification time) of fpath
Return type str

new_branch_cmd = 'branch'

origin_report ()
Yields str: label -- //fpath = remote_url

outgoing_cmd = 'outgoing'

pip_report ()
Show editable pip-requirements line necessary to clone this repository
Yields *str* – pip-requirements line necessary to clone this repository

prefix = None

preparse = None

pull_cmd = 'pull'

push_cmd = 'push'

read_cfg_file ()

recreate_remotes_shellcmd ()
Yields *str* – shell command blocks to recreate repo config

relpath
Determine the relative path to this repository
Returns relative path to this repository
Return type str

remote_url ()
Determine the primary remote url for this Repository
Returns primary remote url for this Repository
Return type str

repo_abspath_cmd = '-repo-path'

sh (*cmd, ignore_error=False, cwd=None, *args, **kwargs*)
Run a command with the current working directory set to self.fpath
Returns stdout output of wrapped call to sh (subprocess.Popen)
Return type str

sh_report (*full=True, latest=False*)
Show shell command necessary to clone this repository
If there is no primary remote url, prefix-comment the command
Keyword Arguments

- **full** (*bool*) – also include commands to recreate branches and remotes
- **latest** (*bool*) – checkout `repo.branch` instead of `repo.current_id`

Yields *str* – shell command necessary to clone this repository

status ()

Run the repository status command and return stdout

Returns stdout output of Repository status command

Return type *str*

status_report ()

Yields *str* – `sh_report`, `last_commit`, and repository status output

str_report ()

Yields *str* – pretty-formatted representation of `self.to_dict`

to_dict ()

Cast this Repository to a dict

Returns this Repository as a dict

Return type dict

to_json ()

to_json_dict ()

classmethod to_normal_url (*url*)

Parameters *url* (*str*) – repository URL (potentially with hg schemes)

Returns normal repository URL (un-hg-schemes-ed repository URL)

Return type *str*

unique_id ()

Determine a “unique id” for this repository

Returns a “unique id” for this repository

Return type *str*

class `pyrpo.pyrpo.SvnRepository` (*fpath*)

Bases: `pyrpo.pyrpo.Repository`

SVN Repository subclass

label

str

vcs name (e.g. “hg”)

prefix

str

vcs folder name (e.g. “.hg”)

preparse

callable

pre-processing function for vcs log output

fsep*str*

field separator / record delimiter

lsep*str*

log output record separator / delimiter

fields*list of tuples*

(colname, vcs formatter, postprocess_callable)

clone_cmd*str*

name of commandline clone command (e.g. "clone")

current_id()

Determine the current revision identifier for the working directory of this Repository

Returns revision identifier (`svn info | grep "^Revision: "`)**Return type** *str***diff()**

Run the repository diff command to compare working directory with 'tip'

Returns stdout output of `svn diff`**Return type** *str***fields** = (('noderev', None, None), ('author', None, None), ('datestr', None, None), ('changelogcount', None, None), ('desc',**fsep** = '|'**label** = 'svn'**last_commit**

Get and parse the most recent Repository revision

Returns Repository log tuple**Return type** *tuple***log** (*n=None, template=None, **kwargs*)

Run the repository log command

Returns output of log command (`svn log -l <n> --kwarg=value>`)**Return type** *str***lsep** = '_____\n'**prefix** = 'svn'**remote_url**

Determine the primary remote url for this Repository

Returns primary remote url for this Repository (`svn info | grep "^Repository Root: "`)**Return type** *str***search_upwards** (*fpath=None, repodirname='.svn', upwards={}*)

Traverse filesystem upwards, searching for .svn directories with matching UUIDs (Recursive)

Parameters

- **fpath** (*str*) – file path to search upwards from
- **reporirname** (*str*) – directory name to search for (`.svn`)
- **upwards** (*dict*) – dict of already-searched directories

example

```
repo/.svn repo/dir1/.svn repo/dir1/dir2/.svn
```

```
>> search_upwards('repo/') << 'repo/' >> search_upwards('repo/dir1') << 'repo/' >>
search_upwards('repo/dir1/dir2') << 'repo/'
```

```
repo/.svn repo/dirA/ repo/dirA/dirB/.svn
```

```
>> search_upwards('repo/dirA') << 'repo/' >> search_upwards('repo/dirA/dirB') >> 'repo/dirB')
```

status

Run the repository status command and return stdout

Returns stdout output of `svn status` command

Return type `str`

template = `None`

unique_id

Determine a “unique id” for this repository

Returns Repository UUID of this repository

Return type `str`

class `pyrpo.pyrepo.cached_property` (*func*, *name=None*, *doc=None*)

Bases: `object`

Decorator that converts a function into a lazy property. The function wrapped is called the first time to retrieve the result and then that calculated result is used the next time you access the value:

```
class Foo(object):

    @cached_property
    def foo(self):
        # calculate something important here
        return 42
```

The class must have a `__dict__` (e.g. be a subclass of `object`)

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see: <https://github.com/mitsuhiko/werkzeug/blob/master/werkzeug/utils.py>

pyrpo.pyrepo.do_repo_report (*repos*, *report='full'*, *output=<open file '<stdout>'*, *mode 'w'>*, **args*, ***kwargs*)

Do a repository report: call the report function for each Repository

Parameters

- **repos** (*iterable*) – iterable of Repository instances
- **report** (*string*) – report name
- **output** (*writeable*) – output stream to print to

Yields Repository subclass

`pyrpo.pyrepo.do_tortoisehg_report (repos, output)`

Generate a thg-reporegistry.xml file from a list of repos and print to output

Parameters

- **repos** (*iterable*) – iterable of Repository subclass instances
- **output** (*writable*) – output stream to which THG XML will be printed

`pyrpo.pyrepo.dtformat (time)`

`pyrpo.pyrepo.find_find_repos (where, ignore_error=True)`

Search for repositories with GNU find

Parameters

- **where** (*str*) – path to search from
- **ignore_error** (*bool*) – if False, raise Exception when the returncode is not zero.

Yields Repository subclass instance

`pyrpo.pyrepo.find_unique_repos (where)`

Search for repositories and deduplicate based on `repo.fpath`

Parameters **where** (*str*) – path to search from

Yields Repository subclass

`pyrpo.pyrepo.get_option_parser ()`

Build an `optparse.OptionParser` for pyrpo commandline use

`pyrpo.pyrepo.itorsplit (s, sep=None)`

Split a string by `sep` and yield chunks

Parameters

- **s** (*str-type*) – string to split
- **sep** (*str-type*) – delimiter to split by

Yields *generator of strings* – chunks of string `s`

`pyrpo.pyrepo.itorsplit_to_fields (str_, fsep='||| ', revtuple=None, fields=[], preparse=None)`

Itersplit a string into a (named, if specified) tuple.

Parameters

- **str** (*str*) – string to split
- **fsep** (*str*) – field separator (delimiter to split by)
- **revtuple** (*object*) – namedtuple (or class with a `._fields` attr) (optional)
- **fields** (*list of str*) – field names (if revtuple is not specified)
- **preparse** (*callable*) – function to parse `str` with before itersplitting

Returns fields as a tuple or revtuple, if specified

Return type tuple or revtuple

`pyrpo.pyrepo.listdir_find_repos (where)`

Search for repositories with a stack and `os.listdir`

Parameters **where** (*str*) – path to search from

Yields Repository subclass instance

`pyrpo.pyrpo.main()`

`pyrpo.main`: parse commandline options with optparse and run specified reports

`pyrpo.pyrpo.sh(cmd, ignore_error=False, cwd=None, *args, **kwargs)`

Execute a command with `subprocess.Popen` and block until output

Parameters

- **cmd** (*tuple or str*) – same as `subprocess.Popen` args
- **ignore_error** (*bool*) – if `False`, raise an `Exception` if `p.returncode` is not 0
- **cwd** (*str*) – path to current working directory

Returns command execution stdout

Return type `str`

Raises `Exception` – if `ignore_error` is `true` and `returncode` is not zero

Note: this executes commands with `shell=True`: careful with shell-escaping.

4.1.3 Module contents

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/westurner/pyrpo/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” is open to whoever wants to implement it.

5.1.3 Implement Features

Look through the GitHub issues for features. Anything tagged with “feature” is open to whoever wants to implement it.

5.1.4 Write Documentation

pyrpo could always use more documentation, whether as part of the official pyrpo 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/westurner/pyrpo/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 *pyrpo* for local development.

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

```
$ git clone git@github.com:your_name_here/pyrpo.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 pyrpo
$ cd pyrpo/
$ 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 pyrpo tests
$ python setup.py test
$ 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 2.6, 2.7, and 3.3, and for PyPy. Check https://travis-ci.org/westurner/pyrpo/pull_requests and make sure that the tests pass for all supported Python versions.

5.4 Tips

To run a subset of tests:

```
$ python -m unittest tests.test_pyrpo
```

Credits

- Wes Turner – <https://github.com/westurner>

History

```
git log --format='%s [%h]' master..develop
# [ ... ]
```

7.1 0.2.1 (2015-05-24)

- BUG: pyrpo.py: sh_full report: cat > %r << EOF [91d5fb7]
- BUG,CLN: pyrpo.py: logname='pyrpo' [e029abe]
- BLD: Makefile: pull, push, BROWSERCMD lookups [59cbc66]
- BLD: Makefile: twine [d636e15]

7.2 0.2.0 (2015-04-25)

- Development: <https://github.com/westurner/pyrpo/commits/develop>
- Master: <https://github.com/westurner/pyrpo/commits/master>

7.3 0.1.0 (2014-05-12)

- First release on PyPI.
- Re-packaged from <https://github.com/westurner/dotfiles/blob/2813e4ad/scripts/repos.py>

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