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# **vcspull Documentation**

***Release 1.4.3***

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Manage your commonly used repos from YAML / JSON manifest(s). Compare to [myrepos](#).

Great if you use the same repos at the same locations across multiple machines or want to clone / update a pattern of repos without having to `cd` into each one.

- clone /update to the latest repos with `$ vcspull`
- use filters to specify a location, repo url or pattern in the manifest to clone / update
- supports svn, git, hg version control systems
- automatically checkout fresh repositories
- [Documentation](#) and [Examples](#).
- supports pip-style URL's ([RFC3986-based url scheme](#))



## 1.1 install

```
$ pip install --user vcspull
```

## 1.2 configure

add repos you want vcspull to manage to `~/.vcspull.yaml`.

*vcspull does not currently scan for repos on your system, but it may in the future*

```
~/code/:  
  flask: "git+https://github.com/mitsuhiko/flask.git"  
~/study/c:  
  awesome: 'git+git://git.naquadah.org/awesome.git'  
~/study/data-structures-algorithms/c:  
  libds: 'git+https://github.com/zhemao/libds.git'  
  algoxy:  
    repo: 'git+https://github.com/liuxinyu95/AlgoXY.git'  
    remotes:  
      tony: 'git+ssh://git@github.com/tony/AlgoXY.git'
```

(see the author's `.vcspull.yaml`, more examples.)

next, on other machines, copy your `$HOME/.vcspull.yaml` file or `$HOME/.vcspull/` directory them and you can clone your repos consistently. vcspull automatically handles building nested directories. Updating already cloned/checked out repos is done automatically if they already exist.

## 1.3 clone / update your repos

```
$ vcspull
```

keep nested VCS repositories updated too, lets say you have a mercurial or svn project with a git dependency:

`external_deps.yaml` in your project root, (can be anything):

```
./vendor/:  
  sdl2pp: 'git+https://github.com/libSDL2pp/libSDL2pp.git'
```

clone / update repos:

```
$ vcspull -c external_deps.yaml
```

See the [Quickstart](#) for more.

## 1.4 pulling specific repos

have a lot of repos?

you can choose to update only select repos through `fnmatch` patterns. remember to add the repos to your `~/vcspull.{json,yaml}` first.

The patterns can be filtered by by directory, repo name or vcs url.

```
# any repo starting with "fla"
$ vcspull "fla*"
# any repo with django in the name
$ vcspull "*django*"

# search by vcs + url
# since urls are in this format <vcs>+<protocol>://<url>
$ vcspull "git+*"

# any git repo with python in the vcspull
$ vcspull "git+*python*"

# any git repo with django in the vcs url
$ vcspull "git+*django*"

# all repositories in your ~/code directory
$ vcspull "$HOME/code/*"
```



## MORE INFORMATION

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Python support	Python 2.7, >= 3.5
VCS supported	git(1), svn(1), hg(1)
Config formats	YAML, JSON, python dict
Source	<a href="https://github.com/vcs-python/vcspull">https://github.com/vcs-python/vcspull</a>
Docs	<a href="https://vcspull.git-pull.com">https://vcspull.git-pull.com</a>
Changelog	<a href="https://vcspull.git-pull.com/en/latest/history.html">https://vcspull.git-pull.com/en/latest/history.html</a>
Issues	<a href="https://github.com/vcs-python/vcspull/issues">https://github.com/vcs-python/vcspull/issues</a>
Travis	<a href="https://travis-ci.org/vcs-python/vcspull">https://travis-ci.org/vcs-python/vcspull</a>
Test Coverage	<a href="https://codecov.io/gh/vcs-python/vcspull">https://codecov.io/gh/vcs-python/vcspull</a>
pypi	<a href="https://pypi.python.org/pypi/vcspull">https://pypi.python.org/pypi/vcspull</a>
Open Hub	<a href="https://www.openhub.net/p/vcspull">https://www.openhub.net/p/vcspull</a>
License	MIT.
git repo	<pre>\$ git clone https://github.com/vcs- →python/vcspull.git</pre>
install dev	<pre>\$ git clone https://github.com/vcs- →python/vcspull.git vcspull \$ cd ./vcspull \$ virtualenv .venv \$ source .venv/bin/activate \$ pip install -e .</pre>
tests	<pre>\$ py.test</pre>
run	<pre>\$ vcspull</pre>

## 2.1 Quickstart

### 2.1.1 Installation

First, install vcspull.

For latest official version:

```
$ pip install --user vcspull
```

Development version:

```
$ pip install --user -e git+https://github.com/vcs-python/vcspull.git#egg=vcspull
```

### 2.1.2 Configuration

**See also:**

*Examples.*

We will check out the source code of flask to ~/code/flask.

Prefer JSON? Create a ~/.vcspull.json file:

```
{
  "~/code/": {
    "flask": "git+https://github.com/mitsuhiko/flask.git"
  }
}
```

YAML? Create a ~/.vcspull.yaml file:

```
~/code/:
  "flask": "git+https://github.com/mitsuhiko/flask.git"
```

The `git+` in front of the repository URL. Mercurial repositories use `hg+` and Subversion will use `svn+`. Repo type and address is specified in `pip vcs url` format.

Now run the command, to pull all the repositories in your `.vcspull.yaml` / `.vcspull.json`.

```
$ vcspull
```

Also, you can sync arbitrary projects, lets assume you have a mercurial repo but need a git dependency, in your project add `.deps.yaml` (can be any name):

```
./vendor/:
  sdl2pp: 'git+https://github.com/libSDL2pp/libSDL2pp.git'
```

Use `-c` to specify a config.

```
$ vcspull -c .deps.yaml
```

You can also use `fnmatch` to pull repositories from your config in various fashions, e.g.:

```
$ vcspull django
$ vcspull django\*
# or
$ vcspull "django*"
```

Filter by vcs URL

Any repo beginning with http, https or git will be look up repos by the vcs url.

```
# pull / update repositories I have with github in the repo url
$ vcspull "git+https://github.com/yourusername/*"

# pull / update repositories I have with bitbucket in the repo url
$ vcspull "git+https://*bitbucket*"
```

Filter by the path of the repo on your local machine:

Any repo beginning with /, ./, ~ or \$HOME will scan for patterns of where the project is on your system[

```
# pull all the repos I have inside of ~/study/python
$ vcspull "$HOME/study/python"

# pull all the repos I have in directories on my config with "python"
$ vcspull ~/*python*"
```

## 2.2 Examples

Repo type and address is specified in pip vcs url format.

### 2.2.1 Remote git repositories and SSH git

Note, git+ssh repos such as git+git@github.com:tony/kaptan.git. Must use the format git+ssh:/git@github.com/tony/kaptan.git

```
~/workspace/:
kaptan:
  url: git+https://github.com/emre/kaptan
  remotes:
    upstream: git+https://github.com/emre/kaptan
    marksteve: git+https://github.com/marksteve/kaptan.git
    tony: git+ssh://git@github.com/tony/kaptan.git
```

### 2.2.2 Christmas tree

config showing off every current feature and inline shortcut available.

```
~/study/:
  linux: git+git://git.kernel.org/pub/scm/linux/kernel/git/torvalds/linux.git
  freebsd: git+https://github.com/freebsd/freebsd.git
  sphinx: hg+https://bitbucket.org/irkenfeld/sphinx
  docutils: svn+http://svn.code.sf.net/p/docutils/code/trunk
~/github_projects/:
```

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```

kaptan:
  url: git+https://github.com/emre/kaptan
  remotes:
    upstream: git+https://github.com/emre/kaptan
    marksteve: git+https://github.com/marksteve/kaptan.git
    tony: git+git@github.com:tony/kaptan.git
~:
  .vim:
    url: git+git@github.com:tony/vim-config.git
  .tmux:
    url: git+git@github.com:tony/tmux-config.git

```

## 2.2.3 Code scholar

This `.vcspull.yaml` is used to checkout and sync multiple open source configs.

YAML:

```

~/study/c:
  awesome: 'git+git://git.naquadah.org/awesome.git'
  weechat: 'git+git://git.sv.gnu.org/weechat.git'
  retroarch: 'git+https://github.com/Themaister/RetroArch.git'
  linux: 'git+https://github.com/torvalds/linux.git'
  freebsd: 'git+https://github.com/freebsd/freebsd.git'
  ncmpc: 'git+git://git.musicpd.org/master/ncmpc.git'
  tmux: 'git+git://git.code.sf.net/p/tmux/tmux-code'
  git: 'git+https://github.com/git/git.git'
  postgres: 'git+https://github.com/postgres/postgres.git'
  pgadmin3: 'git+git://git.postgresql.org/git/pgadmin3.git'
  sandy: 'git+http://git.suckless.org/sandy'
  understate: 'git+https://github.com/L3V3L9/understate.git'
  util-cursor: 'git+git://anongit.freedesktop.org/xcb/util-cursor'
  zsh: 'git+git://git.code.sf.net/p/zsh/code'
  cpython: 'hg+http://hg.python.org/cpython/'
  vim: 'hg+https://vim.googlecode.com/hg/'
  nginx: 'hg+http://hg.nginx.org/nginx'
~/study/c++:
  vimpd: 'git+https://github.com/boysetsfrog/vimpd'
  mpd: 'git+git://git.musicpd.org/master/mpd.git'
  libmpd: 'git+git://git.musicpd.org/master/libmpd.git'
  ncmpcpp: 'git+git://git.musicpd.org/mirror/ncmpcpp.git'
  libmpdclient: 'git+git://git.musicpd.org/master/libmpdclient.git'
  node: 'git+https://github.com/joyent/node.git'
  libzmq: 'git+https://github.com/zeromq/libzmq.git'
  doubanfm-qt: 'git+https://github.com/zonyitoo/doubanfm-qt.git'
  retroarch-phoenix: 'git+https://github.com/Themaister/RetroArch-Phoenix.git'
  clementine: 'git+https://code.google.com/p/clementine-player/'
  amarok: 'git+git://anongit.kde.org/amarok.git'
~/study/node:
  async: 'git+http://github.com/caolan/async.git'
  request: 'git+git://github.com/mikeal/request.git'
  express: 'git+https://github.com/visionmedia/express.git'
  node-optimist: 'git+http://github.com/substack/node-optimist.git'
  commander.js: 'git+https://github.com/visionmedia/commander.js.git'
  colors.js: 'git+git://github.com/Marak/colors.js.git'

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```

uglify.js: 'git+git://github.com/mishoo/UglifyJS.git'
connect: 'git+git://github.com/senchalabs/connect.git'
socket.io: 'git+https://github.com/LearnBoost/socket.io.git'
node-mkdirp: 'git+https://github.com/substack/node-mkdirp.git'
jade: 'git+https://github.com/visionmedia/jade.git'
redis: 'git+https://github.com/antirez/redis.git'
node-uuid: 'git+https://github.com/broofa/node-uuid.git'
node-mime: 'git+https://github.com/broofa/node-mime.git'
mime-magic: 'git+https://github.com/SaltwaterC/mime-magic.git'
debug: 'git+https://github.com/visionmedia/debug.git'
winston: 'git+https://github.com/flatiron/winston.git'
less.js: 'git+https://github.com/cloudhead/less.js.git'
less: 'git+https://github.com/cloudhead/less.git'
todo: 'git+https://github.com/cloudhead/toto.git'
http-control: 'git+https://github.com/cloudhead/http-console.git'
cradle: 'git+https://github.com/cloudhead/cradle.git'
journey: 'git+https://github.com/cloudhead/journey.git'
pilgrim: 'git+https://github.com/cloudhead/pilgrim.git'
node-glob: 'git+https://github.com/isaacs/node-glob.git'
jsdom: 'git+https://github.com/tmpvar/jsdom.git'
node-mongodb-native: 'git+https://github.com/mongodb/node-mongodb-native.git'
node-pkginfo: 'git+https://github.com/indexzero/node-pkginfo.git'
nodejs-intro: 'git+https://github.com/indexzero/nodejs-intro.git'
wrench-js: 'git+https://github.com/ryanmcgrath/wrench-js.git'
grunt: 'git+https://github.com/gruntjs/grunt.git'
moment: 'git+https://github.com/timrwood/moment.git'
q: 'git+https://github.com/krisowal/q.git'
mocha: 'git+https://github.com/visionmedia/mocha.git'
node-semvar: 'git+https://github.com/isaacs/node-semver.git'
handlebars.js: 'git+https://github.com/wycats/handlebars.js.git'
underscore.string: 'git+https://github.com/epeli/underscore.string.git'
node-oauth: 'git+https://github.com/ciaranj/node-oauth.git'
vows: 'git+https://github.com/cloudhead/vows.git'
cheerio: 'git+https://github.com/MatthewMueller/cheerio.git'
node-mysql: 'git+https://github.com/felixge/node-mysql.git'
node-querystring: 'git+https://github.com/visionmedia/node-querystring.git'
node-browserify: 'git+https://github.com/substack/node-browserify.git'
node-http-proxy: 'git+https://github.com/nodejitsu/node-http-proxy.git'
through: 'git+https://github.com/dominictarr/through.git'
superagent: 'git+https://github.com/visionmedia/superagent.git'
supertest: 'git+https://github.com/visionmedia/supertest.git'
npm: 'git+https://github.com/isaacs/npm.git'
passport-oauth: 'git+https://github.com/jaredhanson/passport-oauth.git'
watch: 'git+https://github.com/mikeal/watch.git'
hogan.js: 'git+https://github.com/twitter/hogan.js.git'
mustache: 'git+https://github.com/defunkt/mustache.git'
node-temp: 'git+https://github.com/bruce/node-temp.git'
node-sprintf: 'git+https://github.com/maritz/node-sprintf.git'
nodeunit: 'git+https://github.com/caolan/nodeunit.git'
cli-color: 'git+git://github.com/medikoo/cli-color.git'
node-jshint: 'git+https://github.com/jshint/node-jshint.git'
node-static: 'git+https://github.com/cloudhead/node-static.git'
passport: 'git+https://github.com/jaredhanson/passport.git'
shelljs: 'git+https://github.com/arturadib/shelljs.git'
tutorial-nodejs-cli: 'git+https://github.com/oscmejia/tutorial-nodejs-cli.git'
cli-table: 'git+https://github.com/LearnBoost/cli-table.git'
mongoose: 'git+https://github.com/LearnBoost/mongoose.git'

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```

browserbuild: 'git+https://github.com/LearnBoost/browserbuild.git'
engine.io: 'git+https://github.com/LearnBoost/engine.io.git'
engine.io-client: 'git+https://github.com/LearnBoost/engine.io-client.git'
socket.io: 'git+https://github.com/LearnBoost/socket.io.git'
socket.io-client: 'git+https://github.com/LearnBoost/socket.io-client.git'
knox: 'git+https://github.com/LearnBoost/knox.git'
jsonp: 'git+https://github.com/LearnBoost/jsonp.git'
node-tar: 'git+https://github.com/isaacs/node-tar.git'
node-bindings: 'git+https://github.com/TooTallNate/node-bindings.git'
node-fs-extra: 'git+https://github.com/jprichardson/node-fs-extra.git'
chai: 'git+https://github.com/chaijs/chai.git'
grunt-lib-contrib: 'git+https://github.com/gruntjs/gruntjs/grunt-lib-contrib.git'
node-irc: 'git+https://github.com/martynsmith/node-irc.git'
jasmine-node: 'git+https://github.com/mhevery/jasmine-node.git'
node-querystring: 'git+https://github.com/visionmedia/node-querystring.git'
highlight.js: 'git+https://github.com/isagalaev/highlight.js.git'
~/study/javascript:
backbone.deepmodel: 'git+https://github.com/powmedia/backbone-deep-model.git'
underscore: 'git+https://github.com/documentcloud/underscore.git'
lodash: 'git+https://github.com/bestiejs/lodash.git'
backbone: 'git+https://github.com/documentcloud/backbone.git'
requirejs: 'git+https://github.com/jrburke/requirejs.git'
r.js: 'git+https://github.com/jrburke/r.js.git'
volo: 'git+https://github.com/volojs/volo.git'
create-responsive-template: 'git+https://github.com/volojs/create-responsive-
↳template.git'
yeoman: 'git+https://github.com/yeoman/yeoman.git'
cajon: 'git+https://github.com/requirejs/cajon.git'
jquery: 'git+https://github.com/jrburke/jquery.git'
backbone.marionette: 'git+https://github.com/marionettejs/backbone.marionette.git'
backbone.wreqr: 'git+https://github.com/marionettejs/backbone.wreqr.git'
backbone.babysitter: 'git+https://github.com/marionettejs/backbone.babysitter.git'
flight: 'git+https://github.com/twitter/flight.git'
bower: 'git+https://github.com/twitter/bower.git'
codemirror: 'git+https://github.com/marijnh/CodeMirror.git'
doctorjs: 'git+https://github.com/mozilla/doctorjs.git'
~/study/python:
jmespath: 'git+https://github.com/boto/jmespath.git'
anyvcs: 'git+https://github.com/ScottDuckworth/python-anyvcs.git'
pip: 'git+git://github.com/pypa/pip.git'
ipdb: 'git+http://github.com/gotcha/ipdb.git'
virtualenv: 'git+https://github.com/pypa/virtualenv.git'
jinja2: 'git+https://github.com/mitsuhiko/jinja2.git'
flask: 'git+https://github.com/mitsuhiko/flask.git'
flask-script: 'git+https://github.com/techniq/flask-script.git'
frozen-flask: 'git+https://github.com/SimonSapin/Frozen-Flask.git'
werkzeug: 'git+https://github.com/mitsuhiko/werkzeug.git'
logbook: 'git+https://github.com/mitsuhiko/logbook.git'
cklib: 'git+https://github.com/cburgmer/cklib.git'
pubdb: 'git+http://git.tiker.net/trees/pubdb.git'
ipython: 'git+https://github.com/ipython/ipython.git'
bleeding: 'git+https://github.com/erikrose/bleedings.git'
salt: 'git+https://github.com/saltstack/salt.git'
salt-ui: 'git+https://github.com/saltstack/salt-ui.git'
salt-formulae: 'git+https://github.com/saltstack/formulae'
salt-api: 'git+https://github.com/saltstack/salt-api.git'
salt-cloud: 'git+https://github.com/saltstack/salt-cloud.git'

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```
salt-vagrant: 'git+https://github.com/saltstack/salty-vagrant.git'  
salt-contrib: 'git+https://github.com/saltstack/salt-contrib.git'  
sqlalchemy: 'git+https://github.com/zzzeek/sqlalchemy.git'  
wtforms: 'git+https://github.com/Khan/wtforms.git'  
botocore: 'git+https://github.com/boto/botocore.git'  
libcloud: 'git+https://github.com/apache/libcloud.git'  
  
argcomplete: 'git+https://github.com/kislyuk/argcomplete.git'  
  
lxml: 'git+https://github.com/lxml/lxml.git'  
  
httpbin: 'git+https://github.com/kennethreitz/httpbin.git'  
envoy: 'git+https://github.com/kennethreitz/envoy.git'  
legit: 'git+https://github.com/kennethreitz/legit.git'  
tablib: 'git+https://github.com/kennethreitz/tablib.git'  
requests: 'git+https://github.com/kennethreitz/requests.git'  
grequests: 'git+https://github.com/kennethreitz/grequests.git'  
  
kr-sphinx-themes: 'git+https://github.com/kennethreitz/kr-sphinx-themes.git'  
  
gist-api: 'git+https://github.com/kennethreitz/gistapi.py.git'  
  
pystache: 'git+https://github.com/defunkt/pystache.git'  
pandas: 'git+https://github.com/pydata/pandas'  
ncmpy: 'git+https://github.com/cykerway/ncmpy.git'  
  
gevent: 'git+https://github.com/surfly/gevent.git'  
tornado: 'git+https://github.com/facebook/tornado.git'  
  
soundcloud-cli: 'git+https://github.com/0xPr0xy/soundcloud-cli.git'  
pyradio: 'git+https://github.com/coderholic/pyradio.git'  
  
sh: 'git+https://github.com/amoffat/sh.git'  
envoy: 'git+https://github.com/kennethreitz/envoy.git'  
  
glances: 'git+https://github.com/nicolargo/glances.git'  
powerline: 'git+https://github.com/Lokaltog/powerline.git'  
jieba: 'git+https://github.com/fxsjy/jieba.git'  
storm: 'git+https://github.com/emre/storm.git'  
fabric: 'git+https://github.com/fabric/fabric.git'  
ansible: 'git+https://github.com/ansible/ansible'  
fn.py: 'git+https://github.com/kachayev/fn.py.git'  
buildbot: 'git+https://github.com/buildbot/buildbot.git'  
beets: 'git+https://github.com/sampsyo/beets.git'  
magicmethods: 'git+https://github.com/RafeKettler/magicmethods.git'  
  
gateone: 'git+https://github.com/liftoff/GateOne.git'  
glue: 'git+https://github.com/jorgebastida/glue.git'  
objbrowser: 'git+https://github.com/titusjan/objbrowser'  
  
pythagora: 'git+https://github.com/tarmack/Pythagora.git'  
youtube-dl: 'git+https://github.com/rg3/youtube-dl.git'  
twisted: 'git+https://github.com/twisted/twisted.git'  
  
ckan: 'git+https://github.com/okfn/ckan.git'  
hackthebox: 'git+https://github.com/moloch--/RootTheBox.git'  
mediagoblin: 'git+git://gitorious.org/mediagoblin/mediagoblin.git'
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```

ckan: 'git+https://github.com/okfn/ckan.git'
reddit: 'git+https://github.com/reddit/reddit.git'

python_koans: 'git+https://github.com/gregmalcolm/python_koans.git'
python-guide: 'git+https://github.com/kennethreitz/python-guide.git'
#introduction_to_sqlalchemy: 'git+https://bitbucket.org/zzzeek/pycon2013_student_
↪package.git'
probablistic-programming-and-beyesian-methods: 'git+https://github.com/
↪CamDavidsonPilon/Probabilistic-Programming-and-Bayesian-Methods-for-Hackers.git'
python-patterns: 'git+https://github.com/faif/python-patterns.git'
learn-pandas: 'git+https://bitbucket.org/hrojas/learn-pandas.git'

w3lib: 'git+https://github.com/scrapy/w3lib'
scrapy: 'git+https://github.com/scrapy/scrapy.git'
scrapely: 'git+https://github.com/scrapy/scrapely.git'

calibre: 'git+git://github.com/kovidgoyal/calibre.git'

kaptan: 'git+https://github.com/emre/kaptan.git'
aws-cli: 'git+https://github.com/aws/aws-cli.git'

youcompleteme: 'git+https://github.com/Valloric/YouCompleteMe.git'

ranger: 'git+git://git.savannah.nongnu.org/ranger.git'

readthedocs: 'git+https://github.com/rtfd/readthedocs.org.git'
django: 'git+https://github.com/django/django.git'
norman: 'hg+https://bitbucket.org/aquavitae/norman/src'
bpython: 'hg+https://bitbucket.org/bobf/bpython/'
urwid: 'hg+https://excess.org/hg/urwid/'
sphinx: 'hg+https://bitbucket.org/birkenfeld/sphinx'
sphinx-contrib: 'hg+https://bitbucket.org/birkenfeld/sphinx-contrib'
pexpect-u: 'hg+https://bitbucket.org/takluyver/pexpect'
pygments: 'hg+http://bitbucket.org/birkenfeld/pygments-main'
docutils: 'svn+http://svn.code.sf.net/p/docutils/code/trunk'

```

## 2.3 Command Line Interface

### 2.3.1 Load config

```

vcspull up <config>

vcspull up myproject myproject

# separate by spaces
vcspull up vim myproject

```



## 2.4 Development

### 2.4.1 Testing

Our tests are inside `tests/`. Tests are implemented using `pytest`.

### 2.4.2 Install the latest code from git

#### Using pip

To begin developing, check out the code from github:

```
$ git clone git@github.com:vcs-python/vcspull.git
$ cd vcspull
```

Now create a virtualenv, if you don't know how to, you can create a virtualenv with:

```
$ virtualenv .venv
```

Then activate it to current tty / terminal session with:

```
$ source .venv/bin/activate
```

Good! Now let's run this:

```
$ pip install -r requirements/test.txt -e .
```

This has `pip`, a python package manager install the python package in the current directory. `-e` means `--editable`, which means you can adjust the code and the installed software will reflect the changes.

#### Using poetry

To begin developing, check out the code from github:

```
$ git clone git@github.com:vcs-python/vcspull.git
$ cd vcspull
```

You can create a virtualenv, and install all of the locked packages as listed in `poetry.lock`:

```
$ poetry install
```

If you ever need to update packages during your development session, the following command can be used to update all packages as per poetry settings or individual package (second command):

```
$ poetry update
$ poetry update requests
```

Then activate it to your current tty / terminal session with:

```
$ poetry shell
```

That is it! You are now ready to code!

## 2.4.3 Test Runner

As you seen above, the `vcspull` command will now be available to you, since you are in the virtual environment, your `PATH` environment was updated to include a special version of `python` inside your `.venv` folder with its own packages.

```
$ make test
```

You probably didn't see anything but tests scroll by.

If you found a problem or are trying to write a test, you can file an [issue on github](#).

Test only a file:

```
$ py.test tests/test_config.py
```

will test the `tests/test_config.py` tests.

```
$ py.test tests/test_config.py::test_export_json
```

tests `test_export_json` inside of `tests/test_config.py`.

Multiple can be separated by spaces:

```
$ py.test tests/test_{window,pane}.py tests/test_config.py::test_export_json
```

## 2.5 History

### 2.5.1 vcspull-1.4.3 (2020-08-05)

- Bump `libvcs` to 0.4.4

### 2.5.2 vcspull 1.4.2 (2020-08-01)

- Bump `libvcs` to 0.4.3, fix issue with updating branches that have special characters (e.g. hyphens)

### 2.5.3 vcspull 1.4.1 (2020-08-01)

- Bump `libvcs` to 0.4.2, fixes issues with checking out branches where branch doesn't exist upstream

### 2.5.4 vcspull 1.4.0 (2020-08-01)

- [#300](#) Update `libvcs` to 0.4.0, also fixes [#298](#) issue on initial checkout
- [#301](#) Move from Travis to GitHub Actions

### 2.5.5 vcspull 1.3.1 (2020-07-26)

- #231 Add updating / merging of remote URLs (via PR #297)
- Fix colorama constraint
- poetry lockfile: Fix (accidentally pushed lockfile via prerelease version of poetry)

### 2.5.6 vcspull 1.3.0post2 (2020-07-26)

- Fix pyproject.toml libvcs pin

### 2.5.7 vcspull 1.3.0post1 (2020-07-26)

- Fix pyproject.toml release version
- Fixes to contribution docs

### 2.5.8 vcspull 1.3.0 (2020-07-25)

- #257 - Move from Pipfile to poetry
- Removed dependency on releases for CHANGES, use plain reStructuredText for now
- Loosen constraints for colorama
- Update click to 7/8
- Add `project_urls` to `setup.py`

### 2.5.9 vcspull 1.2.0 (2018-07-08)

- Sort imports
- Add isort package, isort configuration in `setup.cfg`, and `make isort` task to Makefile.
- Add `make sync_pipfile` for updating *Pipfile* dependencies against *requirements/\*.txt* files.
- Update Pipfile
- Package updates

Base / Core dependencies:

- kaptan: 0.5.9 to  $\geq 0.5.9, < 1$  (adds Python 3.7 compatibility)
- pyyaml:  $\geq 3.12, < 4$  (adds Python 3.7 compatibility)

Docs:

- sphinx: 1.7.1 to 1.7.5
- alagitpull: 0.0.19 to 0.0.21
- releases: 1.4.0 to 1.7.1

Testing:

- pytest: 3.4.2 to 3.6.3

### 2.5.10 vcspull 1.1.0 (2018-03-11)

- Move to new organization, vcs-python
- Fix a bug in libvcs that prevented syncing on Ubuntu 18.04 LTS beta.
- Update libvcs to 0.3.0
- Various package updates for support infrastructure, including pytest and sphinx

### 2.5.11 vcspull 1.0.3 (2016-12-19)

- Update more documentation domain at [vcspull.git-pull.com](http://vcspull.git-pull.com)

### 2.5.12 vcspull 1.0.2 (2016-12-19)

- Update to new documentation domain at [vcspull.git-pull.com](http://vcspull.git-pull.com)
- Fix travis tests via `pip install -u mock in .travis.yaml`.

### 2.5.13 vcspull 1.0.1 (2016-11-24)

- #43 - fix missing test dependency on anaconda by updating libvcs
- README tweaks

### 2.5.14 vcspull 1.0.0 (2016-09-13)

- #41 Transition uses `libvcs` backend
- #41 Transition tests from `unittest` to `pytest`
- #40 Major API refactorings and removal of unused code, see the api reference for more.
- #38 Improve SVN and git support, thanks *@jcfr!*
- #35 Don't run mercurial tests if `hg(1)` missing, by *@jcfr*
- #36 , #37 Documentation updates from *@jcfr*
- #34 Fix missing mock library, thanks *@jfer*

### 2.5.15 vcspull 0.9.0 (2016-05-26)

- [cli] [internal]: command line arg parsing now uses `click` library.
- [cli] `vcspull` will use the beginning part of the argument to determine if its searching by vcs URL, repository name or system path.
- [config] `repo` (the longform for the vcs url) is now `url`.
- [config] [internal] `repos` are now passed around in a list of `dict`. `vcspull.config.expand_config` has been simplified.
- [internal] `flake8` and `sort imports`
- [internal] [dev] Add `Makefile` for `watch_test` (re-running tests on file change), `watch_flake` (re-running `flake8` check on changes)

- [internal] [dev] Move `.tmuxp.yaml` commands to use Makefile
- [internal] [dev] split up requirements into `requirements/` folder.
- Drop Python 2.6 support
- [internal] `find_config` renamed to `find_config_files`.
- Rename `get_repos` to `filter_repos`, simplify argument signature.
- [cli] Experimental support for concurrently synchronizng repos via `multiprocessing`.
- [api][internal]: Refactor `vcspull.repo.Repo` factory class into `vcspull.repo.create_repo()`.
- [internal]: major internal cleanup of dead code, pep8 style updates.
- [git] [tests]: fix git+https remotes #14, add regression tests.

### 2.5.16 vcspull 0.2.2 (2015-07-10)

- [internal]: devendorize colorama

### 2.5.17 vcspull 0.2.1 (2015-06-12)

- [internal] [tests]: handle `ERROR` in git cloning, add tests. Fixes cases like `ERROR: Repository not found`.

### 2.5.18 vcspull 0.2.0 (2015-05-19)

- [api] Change the API of `vcspull.repo.base.BaseRepo` and `vcspull.repo.Repo` to accept arguments as `kwargs`
- [api]: Rename `parent_path` to `cwd`.
- [docs]: Pydoc documentation for `Repo` usage.
- [docs]: Python API example

### 2.5.19 vcspull 0.1.1 (2015-05-09)

- [testing] Fix sniffer on Python 3
- [cli] remove redundant message when adding remotes
- [docs] add animated screencast preview for ReadTheDocs and `README.rst`

### 2.5.20 vcspull 0.1.0 (2015-04-30)

- [cli]: support for specifying for config file path with `-c`.
- [cli]: clarify error output when no repositories found

### 2.5.21 vcspull 0.0.10 (2015-04-08)

- [cli]: fix message when adding remotes
- [internals]: split config-related functions into `config` module.
- [tests]: consolidate tests from `testsuite.cli` into `testsuite.config`.
- [tests]: remove stub `TestSuites` insite of `cli` tests.
- [tests]: Refactor helpers. Tests should now run much faster.
- [cli]: `vcspull` now checks for configs in `~/.vcspull` (yaml and json files) as well as the standard `~/.vcspull.{yaml,json}` files.

### 2.5.22 vcspull 0.0.9-1 (2015-03-27)

- [internals]: move to `__about__.py` convention for pulling package data.
- [internals]: remove extraneous url from stdout in git repositories.

### 2.5.23 vcspull 0.0.9 (2015-03-25)

- [dev]: support for `tmuxp before_script` to set up local virtualenv + dependencies.
- [dev]: Clean up `__init__.py` imports
- [internals]: move `update()` to `update_dict()` in `utils`.
- [cli]: `-d / --dirmatch` for matching directories, accepts `fnmatch` 's.
- [cli]: `-r / --repomatch` for matching directories, accepts `fnmatch` 's.
- [cli]: `-c / --config` YAML / JSON file of repositories
- [config/vcs]: Exception for private / ssh GitHub repository URLs and message to change to correct format.
- [docs]: Update docs to reflect updates on new commands and how to clone private / priveleged GitHub repos.

### 2.5.24 vcspull 0.0.8-4 <2014-02-06)

- [cli] Update documentation when no config found to show `yaml` and `json`. Remove mentioning of `conf`.

### 2.5.25 vcspull 0.0.8-3 <2014-02-06)

- [logging] [Issue #6](#) - fix issue where log templates would not concatenate correctly.

### 2.5.26 vcspull 0.0.8-2 <2014-02-05)

- [packaging] Fix issue where `package_metadata.py` missing from `MANIFEST.in`.

### 2.5.27 vcspull 0.0.8-1 <2014-02-05)

- [setup.py] remove history from readme

### 2.5.28 vcspull 0.0.8 <2014-02-05)

- Use `werkzeug/flask` style unit test suites.
- [docs] Fix section headings.
- [internals] use conventions from `tony/cookiecutter-pypackage`.

#### vcspull 0.0.7 <2014-01-07)

- New logging system from `pypa/pip` with support showing current stderr (checkout, pull, cloning) progress.
- `unicode_literals`, `__future__` for python 3 support.

### 2.5.29 vcspull 0.0.6 <2013-12-03)

- Renamed to `vcspull`.

### 2.5.30 vcspull 0.0.5 <2013-11-28)

- [tests] tests for loading multiple configs, config conflict cases
- [internal] fix recursive imports, using explicit importing
- [git] handle cli case where git is on a different branch, just fetch repo.
- [py3] python 3 support

### 2.5.31 vcspull 0.0.4 <2013-11-25)

- [svn] [git] [hg] added functionality for pip's netloc and vcs functionality.
- [docs] update license docs for methods from salt (apache) and pip (mit).
- [cli] autocomplete
- [config] [tests] Support for expanding environment variables in syntax with `${envvar}` and `~`.
- [cli] Exit with `Ctrl-C` gracefully.

### 2.5.32 vcspull 0.0.3 <2013-11-23)

- [docs] [examples] more docs and examples
- [internal] remove developer logger message that would show when updating.
- [cli] - fixed bug where logger would output message twice
- [pep257] [pep8] [logger] update `vcspull.log` module to latest code (from `tmuxp` project).

### 2.5.33 vcspull 0.0.2 <2013-11-23)

- [tests] Move tests for making directory paths to `test_repo TestSuite`.
- [tests] [git] more work on remotes with `vcspull.repo.git.GitRepo`.

### 2.5.34 vcspull 0.0.2 <2013-11-16)

- [tests] refactor tests modules
- [git] add some functions with saltstack to `vcspull.repo.git.GitRepo`.
- [version] reset to 0.1.0 w/o dev tag to begin releases.

### 2.5.35 vcspull 0.0.1 <2013-11-15)

- [cli] [tests] fix issue #1 for making directories recursively.
- [tests] `tempfile`.
- [cli] [config] remove `.ini` support

### 2.5.36 vcspull 0.0.1 <2013-11-09)

- `pep257` to all modules.
- Add `argcomplete`.
- Move in code patterns from `tmuxp`. New logger, `setup.py`, `testsuite` structure, etc.

### 2.5.37 vcspull 0.0.1 <2013-10-23)

- add example

### 2.5.38 vcspull 0.0.1 <2013-10-17)

- fix packaging issue, add `MANIFEST.in`
- bump to 0.1.1



### 2.5.39 vcspull 0.0.1 <2013-10-08)

- move to semver

### 2.5.40 vcspull 0.0.1 <2013-10-06)

- <https://github.com/vcs-python/vcspull/compare/a96e723269...a5be723de5>
- remove virtualenv dep [Done]
- remove pip dep [Done]
- logging for repo obtain/update/makedir/rev [Done]
- logging.notify with alternative format [Done]
- removed salt-specific code used for Popen (<https://github.com/vcs-python/vcspull/commit/67dbb793e7>)