
pgraph Documentation

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Contents:

pgraph: drawing graph of Python packages dependencies

The pgraph provides the graph of Python dependencies, powered by [py-deps](#), [Linkdraw](#), [Celery](#), [pylibmc](#), and [Pyramid](#).

Status

Demo

[Demo site](#)

How to run things locally

1. Installing RabbitMQ.

```
$ sudo apt-get install rabbitmq-server
```

2. Setup RabbitMQ.

```
$ sudo rabbitmqctl add_vhost /pgraph
$ sudo rabbitmqctl add_user pgraph passwd0rd
$ sudo rabbitmqctl set_permissions -p /pgraph pgraph ".*" ".*" ".*"
$ sudo rabbitmqctl delete_user guest
```

3. Cloning repository.

```
$ git clone https://github.com/mkouhei/pgraph
$ cd pgraph
$ git submodule init
$ git submodule update
```

4. Createing virtual environment.

```
$ virtualenv /path/to/venv
$ . /path/to/venv/bin/activate
```

5. Installing pgraph.

```
(venv)$ cd /path/to/pgraph
(venv)$ python setup.py develop
```

or

```
(venv)$ pip install --no-use-wheel pgraph
```

Warning: Not use `pip install pgraph`. See also “Known issue with the packages that depends on `py-deps`”.

6. Running celery worker.

```
(venv)$ CONFIG_FILE=/path/to/pgraph/development.ini celery -A pgraph.tasks worker_
↳--loglevel=info
```

7. Running pserve from another venv session.

```
(venv)$ pserve /path/to/pgraph/development.ini
```

Deploying app to Heroku

1. Prepare Heroku.

See also [“Getting Started with Python on Heroku”](#).

2. Cloning repository, and add remote repository.

```
$ git clone https://github.com/mkouhei/pgraph
$ cd pgraph
$ git remote add heroku <Heroku URL>
```

3. Enabling plugins

(a) Heroku Postgres

```
$ heroku addons:create heroku-postgresql:hobby-dev
```

See also [Heroku Postgres](#)

Note: If you will use CloudAMQP instead of Heroku Postgres, execute this.

```
$ heroku addons:create cloudamqp:lemur
```

See also [CloudAMQP](#).

(b) Memcached Cloud

```
$ heroku addons:create memcachedcloud:30
```

See also [Memcached Cloud](#)

(c) New Relic APM

```
$ heroku addons:create newrelic:wayne
```

See also [New Relic APM](#)

3. git push to Heroku.

```
$ git push heroku master
```

4. Change the scale your app.

```
$ heroku ps:scale worker=1
```

Runnig test locally

Use PostgreSQL as Celery backend

1. Installing PostgreSQL, Memcached.

```
$ sudo apt-get install postgresql memcached
$ sudo su - postgres
$ psql
postgres=# CREATE USER pgraph WITH PASSWORD 'passwd';
postgres=# CREATE DATABASE pgraph OWNER pgraph;
postgres=# \q
```

Note: You can use `yrmcds` instead of `memcached`.

```
$ sudo apt-get install yrmcds
```

2. Cloning repository, and add remote repository.

```
$ git clone https://github.com/mkouhei/pgraph
$ cd pgraph
```

3. Generate requirements.txt.

```
$ python setup.py --version
$ pip install --no-use-wheel -r requirements.txt -r heroku_requirements.txt
```

4. Running celery worker.

```
$ DATABASE_URL=postgres://pgraph:passwd@localhost:5432/pgraph CONFIG_FILE=heroku.
↪ini newrelic-admin run-program celery worker -c 1 -A pgraph.tasks --
↪loglevel=info
```

5. Execute `run` script.

```
$ DATABASE_URL=postgres://pgraph:passwd@localhost:5432/pgraph MEMCACHEDCLOUD_
↪SERVERS=127.0.0.1:11211 newrelic-admin run-program sh run
```

Use RabbigMQ as Celery backend

1. Installing RabbitMQ, Memcached.

```
$ sudo apt-get install rabbitmq-server memcached
```

Note: You can use `yrmcds` instead of `memcached`..

```
$ sudo apt-get install yrmcds
```

2. Cloning repository, and add remote repository.

```
$ git clone https://github.com/mkouhei/pgraph
$ cd pgraph
```

3. Generate requirements.txt.

```
$ python setup.py --version
$ pip install --no-use-wheel -r requirements.txt -r heroku_requirements.txt
```

4. Running celery worker.

```
$ CONFIG_FILE=heroku.ini newrelic-admin run-program celery worker -c 1 -A pgraph.
↳tasks --loglevel=info
```

5. Execute `run` script.

```
$ MEMCACHEDCLOUD_SERVERS=127.0.0.1:11211 newrelic-admin run-program sh run
```


0.5.1 (2016-04-09)

- Fixes view template layout.
- Removes backward compatibilities under IE 9.
- Updates JavaScript libraries.
- Updates locally instead of pyenv.
- Applies pytest-remove-stale-bytecode.
- Applies pytest-pylint.
- Ignores redefined-variable-type, wrong-import-order.
- Applies Python 3.5 on travis-ci.
- Fixes pep257 D211 violations.

0.5.0 (2015-10-09)

- Supports Python 3.5.
- Adds showing version of running environments.
- Adjust svg_width for PC web browser.
- Fixes unit test graph_not_found.

0.4.8 (2015-08-19)

- Changes custom 404 not found pages.

- Closes #4, #5 error handlings 503 errors.
- Fixes INTERNALERROR occurs when run the tox.
- Changes mackerel-agent-plugin script for proxy.

0.4.7 (2015-08-15)

- Changes setting SVG size from window InnerWidth, InnerHeight.
- Changes Sphinx theme to sphinx_rtd_theme.
- Adds mackerel metric plugin.

0.4.6 (2015-07-27)

- Uses static_path instead of static_url.
- Changes example pathname.

0.4.5 (2015-07-22)

- Adds latest_version method, display latest version package.
- Applies override node link with link_prefix.

0.4.4 (2015-07-19)

- Adds invalid metadata handler.

0.4.3 (2015-07-16)

- Change the color of the nodes to give gradation by the dependency depth (py-deps>=0.5.2)

0.4.2 (2015-07-12)

- Changes pgraph.tasks.search (py-deps>=0.5.1).
- Fixes *None* redundant second argument of *dict.get()*.
- Fixes old-style string formatting.

0.4.1 (2015-07-03)

- Adds unit tests for backend_config, config modules.
- Changes example to redirect to the graph of latest version of pgraph.
- Fixes responsive navbar, search form.
- Changes Demo site URL.

0.4.0 (2015-06-29)

- Revokes when tasks.gen_dependency failed.
- Fixes extras_requires for Heroku.
- Changes Celery backend for Heroku to PostgreSQL in default.
- Changes install requires pyramid_celery to celery.

0.3.1 (2015-06-24)

- Applies GPLv3 and adds LICENSE file.

0.3.0 (2015-06-24)

- Supports cache backend using memcached.
- Adds side bar into layout.
- Changes for Heroku.
 - Updates setup configuration.
 - Applies New Relic.
 - Fixes Procfile and run.

0.2.0 (2015-06-19)

- Integrates configurations locally and Heroku.
- Changes not use job queue if Package data exists in the cache.
- Enable to change Celery configuration using CELERY_CONFIG variable and .ini file.
- Specify package version.
- Adds linkdraw configuration link.
- Adds search form at navigation bar.
- Changes searched view.
- Coverage $\geq 90\%$.

- Supports running on Heroku.

0.1.0 (2015-06-08)

- Initial release.

CHAPTER 5

Indices and tables

- `genindex`
- `modindex`
- `search`