coveralls-python

Release 2.0.0

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coveralls.io is a service for publishing your coverage stats online. This package provides seamless integration with coverage.py (and thus py.test, nosetests, etc...) in your Python projects.

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CHAPTER 1

Getting Started

1.1 Usage

This package works with any CI environment. Special handling has been included for some CI service providers, but coveralls-python can run anywhere.

To get started with coveralls-python, make sure to add your repo on the coveralls.io website. If you will be using coveralls-python on TravisCI, you're done here – otherwise, take note of the "repo token" in the coveralls.io dashboard.

After that, its as simple as installing coveralls-python, collecting coverage results, and sending them to coveralls.io.

For example:

```
pip install coveralls
coverage run --source=my_package setup.py test
COVERALLS_REPO_TOKEN=tGSdG5Qcd2dcQa2oQN9GlJkL50wFZPv1j coveralls
```

coveralls-python can be configured with several environment variables, as seen above. See *Configuration* for more details.

1.2 Configuration

coveralls-python often works without any outside configuration by examining the environment it is being run in. Special handling has been added for AppVeyor, BuildKite, CircleCI, Github Actions, Jenkins, and TravisCI to make coveralls-python as close to "plug and play" as possible.

Most often, you will simply need to run coveralls-python with no additional options after you have run your coverage suite:

```
coveralls
```

If you have placed your .coveragerc in a non-standard location, you can run:

```
coveralls --rcfile=/path/to/coveragerc
```

If you would like to override the service name (auto-discovered on most CI systems, set to coveralls-python otherwise):

```
coveralls --service=travis-pro
# or, via env var:
COVERALLS_SERVICE_NAME=travis-pro coveralls
```

If you are interested in merging the coverage results between multiple languages/projects, see our *multi-language* documentation.

If coveralls-python is being run on TravisCI, it will automatically set the token for communication with coveralls.io. Otherwise, you should set the environment variable COVERALLS_REPO_TOKEN, which can be found on the dash-board for your project in coveralls.io:

```
COVERALLS_REPO_TOKEN=mV2Jajb8y3c6AF1cVNagHO20fiZNkXPVy coveralls
```

If you are running multiple jobs in parallel and want coveralls.io to merge those results, you should set COVERALLS_PARALLEL to true in your environment:

```
COVERALLS_PARALLEL=true coveralls
```

If you are using a non-public coveralls.io instance (for example: self-hosted Coveralls Enterprise), you can set COVERALLS HOST to the base URL of that insance:

```
COVERALLS_HOST="https://coveralls.aperture.com" coveralls
```

In that case, you may also be interested in disabling SSL verification:

```
COVERALLS_SKIP_SSL_VERIFY='1' coveralls
```

If you are using named jobs, you can set:

```
COVERALLS_FLAG_NAME="insert-name-here"
```

You can also set any of these values in a .coveralls.yml file in the root of your project repository. If you are planning to use this method, please ensure you install coveralls [yaml] instead of just the base coveralls package.

Sample .coveralls.yml file:

```
service_name: travis-pro
repo_token: mV2Jajb8y3c6AFlcVNagH020fiZNkXPVy
parallel: true
coveralls_host: https://coveralls.aperture.com
```

1.3 VCS Configuration

coveralls-python supports git by default and will run the necessary git commands to collect the required information without any intervention.

As describe in the coveralls docs, you may also configure these values by setting environment variables. These will be used in the fallback case, eg. if git is not available or your project is not a git repository.

As described in the linked documentation, you can also use this method to support non-git projects:

```
GIT_ID=$(hg tip --template '{node}\n')
GIT_AUTHOR_NAME=$(hg tip --template '{author|person}\n')
GIT_AUTHOR_EMAIL=$(hg tip --template '{author|email}\n')
GIT_COMMITTER_NAME=$(hg tip --template '{author|person}\n')
GIT_COMMITTER_EMAIL=$(hg tip --template '{author|email}\n')
GIT_MESSAGE=$(hg tip --template '{desc}\n')
GIT_BRANCH=$(hg branch)
```

1.4 Usage Within Tox

Running coveralls-python from within a tox environment (v2.0 and above) requires an additional step; since coveralls-python relies on environment variables to function, you'll need to configure tox to capture those variables using the passenv configuration option in your tox.ini.

For example, on TravisCI:

```
[tox]
envlist = py34,py35,py36,py37,py38

[testenv]
passenv = TRAVIS TRAVIS_*
deps =
    coveralls
commands =
    coverage run --source=yourpackagename setup.py test
    coveralls
```

If you are configuring coveralls-python with environment variables, you should also pass those. See *Configuration* for more details.

1.4.1 AppVeyor

```
passenv = APPVEYOR APPVEYOR_*
```

All variables:

- APPVEYOR
- APPVEYOR_BUILD_ID
- APPVEYOR_REPO_BRANCH
- APPVEYOR_PULL_REQUEST_NUMBER

1.4.2 BuildKite

```
passenv = BUILDKITE_*
```

All variables:

- BUILDKITE
- BUILDKIT_JOB_ID
- BUILDKITE_BRANCH

1.4.3 CircleCI

passenv = CIRCLECI CIRCLE_* CI_PULL_REQUEST

All variables:

- CIRCLECI
- CIRCLE_BUILD_NUM
- CIRCLE_BRANCH
- CI_PULL_REQUEST

1.4.4 Github Actions

passenv = GITHUB_*

All variables:

- GITHUB_ACTIONS
- GITHUB_REF
- GITHUB_SHA
- GITHUB_HEAD_REF

1.4.5 Jenkins

passenv = JENKINS_HOME BUILD_NUMBER GIT_BRANCH CI_PULL_REQUEST

All variables:

- JENKINS_HOME
- BUILD_NUMBER
- GIT_BRANCH
- CI_PULL_REQUEST

1.4.6 TravisCI

passenv = TRAVIS TRAVIS_*

All variables:

- TRAVIS
- TRAVIS_JOB_ID
- TRAVIS_BRANCH
- TRAVIS_PULL_REQUEST

1.4.7 SemaphoreCl

```
passenv = SEMAPHORE SEMAPHORE_BUILD_NUMBER BRANCH_NAME PULL_REQUEST_NUMBER
```

All variables:

- SEMAPHORE
- SEMAPHORE_BUILD_NUMBER
- BRANCH NAME
- PULL REQUEST NUMBER

1.5 Multiple Language Support

Tracking multi-language repo coverage requires an extra setup of merging coverage data for submission.

To send coveralls.io merged data, you must use each of your coverage reporting tools in sequence, then merge the JSON data in the last step.

For example, to submit coverage for a project using both mocha and py.test, you could use the coveralls-lcov library and run:

```
# generate mocha coverage data
mocha --reporter mocha-lcov-reporter */tests/static/js/* > coverage.info

# convert data with coveralls-lcov
coveralls-lcov -v -n coverage.info > coverage.json

# merge mocha coverage with python coverage and send to coveralls
coveralls --merge=coverage.json
```

If you want to use this library to create a JSON blob for usage elsewhere, you can run:

```
coveralls --output=coverage.json
```

1.5.1 Technical Details

The JSON file to be merged must be of "coveralls-style" and contain thus a source_files key. The Coveralls API has more information.

1.6 Tips for .coveragerc

This section is a list of most common options for coverage.py, which collects all the coverage information. Coveralls is populated from this data, so it's good to know how to to configure coverage.py.

To limit the report to only your packages, specify their names (or directories):

```
[run]
source = pkgname, your_otherpackage
```

To exclude parts of your source from coverage, for example migrations folders:

```
[report]
omit = */migrations/*
```

Some lines are never executed in your tests, but that can be ok. To mark those lines use inline comments right in your source code:

```
if debug: # pragma: no cover
   msg = "blah blah"
   log_message(msg, a)
```

Sometimes it can be tedious to mark them in code, so you can specify whole lines in .coveragerc:

```
[report]
exclude_lines =
    pragma: no cover
    def __repr__
    raise AssertionError
    raise NotImplementedError
    if __name__ == .__main__.:
```

Finally, if you're using non-default configuration file, you can specify it in the coveralls command:

```
$ coveralls --rcfile=<file>
```

1.7 Nosetests

Nosetests provide a plugin for coverage measurement of your code:

```
$ nosetests --with-coverage --cover-package=<your_package_name>
```

However, nosetests gathers coverage for all executed code, ignoring the source config option in .coveragerc.

This well make coveralls report unnecessary files, which can be inconvenient. To workaround this issue, you can use the omit option in your .coveragerc to specify a list of filename patterns to leave out of reporting.

For example:

```
[report]
omit =
     */venv/*
     */my_project/ignorable_file.py
     */test_script.py
```

Note, that native coverage.py and py.test are not affected by this problem and do not require this workaround.

1.8 Troubleshooting

If you are having difficulties submitting your coverage to coveralls.io, debug mode may help you figure out the problem:

```
$ coveralls debug
```

Debug mode doesn't send anything, it just outputs prepared json and reported files list to stdout.

We also have an issue tracker on GitHub.

CHAPTER 2

About

2.1 Authors

Coveralls is written and maintained by various contributors, without whom none of this would be possible. For a full list, see GitHub.

Special thanks goes to the original maintainer, Ilya Baryshev.

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CHAPTER 3

Administration

3.1 Release

This project is released on PyPI as coveralls.

To cut a new release, ensure the latest master passes all tests. Then, create a release commit:

- 1. Update the CHANGELOG.md with the new version (clog -C CHANGELOG.md -F --setversion x. y.z).
- 2. Bump the version number in version.py.
- 3. Commit and push (git commit -am 'chore (release): bump version' && git push)
- 4. Tag that commit with the version number (git tag x.y.z).
- 5. Push the new tag to GitHub.
- 6. Create a new GitHub release.

To create a new PyPI release, do the following:

- 1. Build the sources (python setup.py sdist bdist_wheel).
- 2. Register & upload the sources. (twine upload dist/*).

To create a new Conda Forge release, do the following:

- 1. Fork coveralls-feedstock.
- 2. Update recipe/meta.yaml with the new version number and sha.
- 3. Create a PR.
- 4. Comment on your own PR with: "@conda-forge-admin, please rerender".
- 5. Merge along with the automated commit from Conda.