
coviolations.io Documentation

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[coviolations.io](#) - tool for collecting and visualisation code violations works with travis-ci, drone.io and jenkins.
For using it with your projects you need to enable project on [coviolations.io](#) and create `.covio.yml` file.

.covio.yml file

In this file you need to specify project name and violations. Example for django project:

```
violations:
  pep8: pep8 . --exclude='*migrations*'
  sloccount: sloccount .
```

You can use full-length violation declaration:

```
violations:
  pep8: pep8 . --exclude='*migrations*'
  pip_review:
    command: pip-review
    nofail: true
```

nofail - set force success status to violation.

Using with travis ci

For covio add in section *after_success*:

```
after_success:
- pip install coviolations_app
- covio
```

For using pep8 add to section *before_install*:

```
before_install:
- pip install pep8
```

For using sloccount add to section *before_install*:

```
before_install:
- sudo apt-get update -qq
- sudo apt-get install -qq sloccount
```

Example travis-ci config:

```
language: python
python:
- "2.7"
before_install:
- sudo apt-get update -qq
- sudo apt-get install -qq sloccount
- pip install pep8
install:
- npm install -g bower
- pip install -U -r requirements.txt
script:
- ./manage.py test violations projects tasks services app
after_success:
- covio
```

Using with drone.io

At the end of project script add

```
pip install coviolations_app  
COVIO_TOKEN="token" covio
```

Replace *token* with project token from project page.

Example project script config:

```
sudo apt-get update -qq  
sudo apt-get install -qq sloccount  
pip install pep8  
pip install -U -r requirements.txt  
nosetests 2>test_out  
COVIO_TOKEN="token" covio
```

Using with jenkins

At the end of project script add

```
pip install coviolations_app  
COVIO_TOKEN="token" covio
```

Replace *token* with project token from project page.

With jenkins you need install dependencies manual.

Available violations

5.1 PEP8

Check your Python code against some of the style conventions in PEP 8.

.covio.yml:

```
violations:
  pep8: pep8 . --exclude='*migrations*'
```

For travis-ci in *.travis.yml*:

```
before_install:
  - pip install pep8
after_success:
  - covio
```

For drone.io and jenkins in project script:

```
pip install pep8
COVIO_TOKEN="token" covio
```

5.2 sloccount

Count source lines of code (SLOC).

.covio.yml:

```
violations:
  sloccount: sloccount .
```

For travis-ci in *.travis.yml*:

```
before_install:
  - sudo apt-get update -qq
  - sudo apt-get install -qq sloccount
after_success:
  - covio
```

For drone.io and jenkins in project script:

```
sudo apt-get update -qq
sudo apt-get install -qq sloccount
COVIO_TOKEN="token" covio
```

5.3 Python unittests

The Python unit testing framework, sometimes referred to as “PyUnit,” is a Python language version of JUnit, by Kent Beck and Erich Gamma. JUnit is, in turn, a Java version of Kent’s Smalltalk testing framework. Each is the de facto standard unit testing framework for its respective language.

.covio.yml:

```
violations:
  py_unittest: cat test_out
```

For travis-ci in *.travis.yml* with nose:

```
before_install:
  - pip install nose
script:
  - nosetests 2>test_out
after_success:
  - covio
```

For travis-ci in *.travis.yml* with django:

```
script:
  - ./manage.py test 2>test_out
after_success:
  - covio
```

For drone.io and jenkins in project script with nose:

```
pip install nose 2>test_out
COVIO_TOKEN="token" covio
```

For drone.io and jenkins in project script with django:

```
./manage.py test 2>test_out
COVIO_TOKEN="token" covio
```

5.4 pip-review

Keeps your Python package dependencies pinned, but fresh.

.covio.yml:

```
violations:
  pip_review: pip-review
```

For travis-ci in *.travis.yml*:

```
before_install:
  - pip install pip-tools
after_success:
  - covio
```


For drone.io and jenkins in project script:

```
pip install pep-tools
COVIO_TOKEN="token" covio
```

5.5 testem

Unit testing in Javascript can be tedious and painful, but Testem makes it so easy that you will actually want to write tests.

.covio.yml:

```
violations:
  testem: cat testem_out
```

For travis-ci in *.travis.yml*:

```
script:
  - testem ci > testem_out
after_success:
  - covio
```

For drone.io and jenkins in project script:

```
testem ci > testem_out
COVIO_TOKEN="token" covio
```

5.6 coverage

Measure, collect, and report on code coverage in Python programs.

.covio.yml:

```
violations:
  coverage: coverage report
```

For travis-ci in *.travis.yml*:

```
before_install:
  - pip install coverage
after_success:
  - covio
```

For drone.io and jenkins in project script:

```
pip install coverage
COVIO_TOKEN="token" covio
```

5.7 jslint

The JavaScript Verifier takes a JavaScript source and scans it.

.covio.yml:

```
violations:
  jslint: jslint *.js
```

For travis-ci in *.travis.yml*:

```
before_install:
  - npm install jslint
after_success:
  - covio
```

For drone.io and jenkins in project script:

```
npm install jslint
COVIO_TOKEN="token" covio
```

5.8 xunit

Example configurations

Some example configurations.

6.1 Django project with travis-ci

We want use *pep8*, *sloccount*, *python unittests*, *coverage* and *pip-review* violations.

.travis.yml:

```
language: python
python:
  - "2.7"
before_install:
  - sudo apt-get update -qq
  - sudo apt-get install -qq sloccount
  - pip install pep8 pip-tools coviolations_app coverage
script:
  - coverage run manage.py test 2>test_result
after_script:
  - coverage report
  - covio
```

.covio.yml:

```
violations:
  pep8: pep8 . --exclude='*migrations*,*settings*,*components*,*docs*'
  sloccount: sloccount .
  py_unittest: cat test_result
  coverage: coverage report
  pip_review:
    command: pip-review
    nofail: true
```

We add *nofail* to *pip_review*, because we don't need to mark task failed if we have outdated packages.

6.2 Django project with jenkins or drone.io

Run script:

```
pip install pep8 pip-tools coviolations_app coverage
coverage run manage.py test 2>test_result
coverage report
COVIO_TOKEN='' covio
```

You can obtain token on project page.

.covio.yml:

```
violations:
  pep8: pep8 . --exclude='*migrations*,*settings*,*components*,*docs*'
  py_unittest: cat test_result
  coverage: coverage report
  pip_review:
    command: pip-review
    nofail: true
```

6.3 Python project with nose with travis-ci

.travis.yml:

```
language: python
python:
  - "2.7"
before_install:
  - sudo apt-get update -qq
  - sudo apt-get install -qq sloccount
  - pip install pep8 pip-tools coviolations_app coverage
script:
  - nosetests --with-coverage 2>test_result
after_script:
  - coverage report
  - covio
```

.covio.yml:

```
violations:
  pep8: pep8 . --exclude='*migrations*,*settings*,*components*,*docs*'
  sloccount: sloccount .
  py_unittest: cat test_result
  coverage: coverage report
  pip_review:
    command: pip-review
    nofail: true
```

6.4 Python project with nose with jenkins or drone.io

Run script:

```
pip install pep8 pip-tools coviolations_app coverage
nosetests --with-coverage 2> test_result
coverage report
COVIO_TOKEN='' covio
```

You can obtain token on project page.

.covio.yml:

```
violations:
  pep8: pep8 . --exclude='*migrations*,*settings*,*components*,*docs*'
  py_unittest: cat test_result
  coverage: coverage report
  pip_review:
    command: pip-review
    nofail: true
```

6.5 JavaScript project with testem with travis-ci

We want use *testem* and *jslint*.

.travis.yml:

```
language: node_js
python:
  - "2.7"
node_js:
  - "0.10"
before_install:
  - npm install testem jslint
  - pip install coviolations_app
script:
  - testem>test_result
after_script:
  - covio
```

.covio.yml:

```
violations:
  testem: cat test_result
  jslint: jslint *.js
```

6.6 JavaScript project with testem with jenkins or drone-io

Run script:

```
npm install testem jslint
pip install coviolations_app
testem>test_result
COVIO_TOKEN='' covio
```

.covio.yml:

```
violations:
  testem: cat test_result
  jslint: jslint *.js
```

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