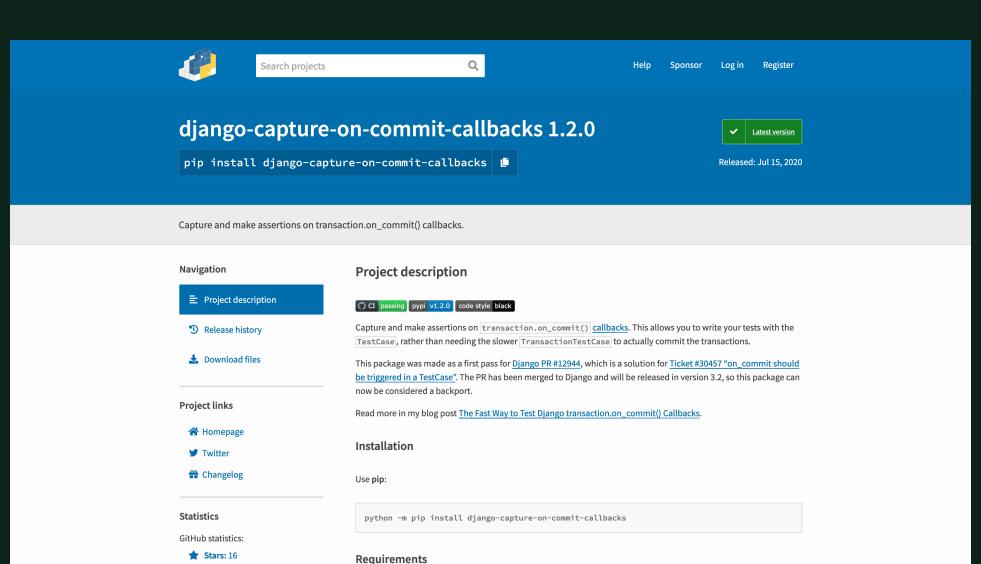
# Creating djangocapture-on-commitcallbacks

Adam Johnson





Forks: 2



## "Yak shave" for my book:



## Speed Up Your Django Tests **Adam Johnson**



### **Speed Up Your Diango Tests**

By Adam Johnson

This book is a practical guide to making your Django project's tests faster. It has many tips and tricks that apply to all projects, big and small. And it covers the two most popular test runners: Django's test framework and pytest.

It's based on my experience speeding up various Django projects' test suites, improving Django's own testing framework, and creating pytest plugins.

Team Size

\$49

Individual / Up to 3 developers

For solo developers and nimble teams.

\$149

Up to 10 developers





## Written up here:

### **Adam Johnson**

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### The Fast Way to Test Django transaction.on\_commit() Callbacks

2020-05-20



Django's transaction.on\_commit() hook is useful for running tasks that rely on changes in the current database transaction. The database connection enqueues callback functions passed to on commit, and executes the callbacks after the current transaction commits. If the transaction is rolled back, the callbacks are discarded. This means they act if-and-when the final version of the data is visible to other database connections.



### View:



### Tests without package:



### Tests with package:





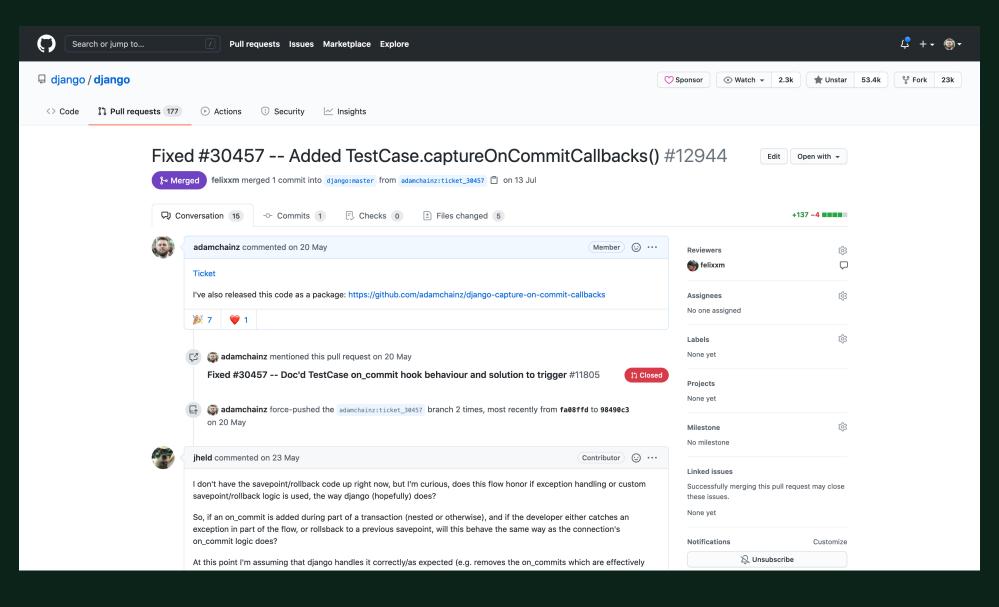
django The web framework for perfectionists with deadlines.

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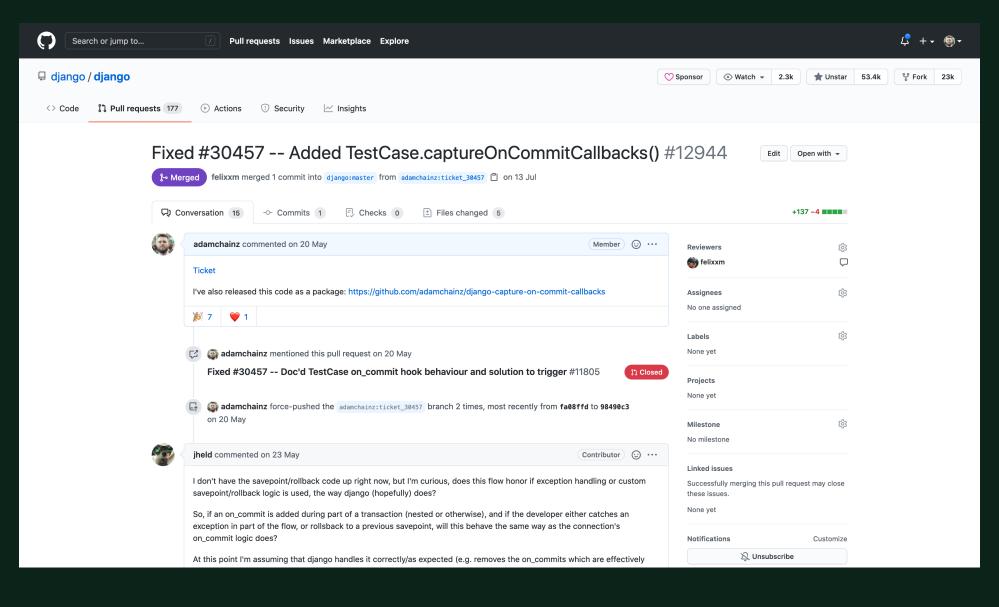
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**New Ticket** View Tickets Timeline Reports Search ← Previous Ticket | Next Ticket → Modify ↓ Opened 18 months ago #30457 closed New feature (fixed) Closed 4 months ago on\_commit should be triggered in a TestCase Reported by: Bernhard Mäder Owned by: Adam (Chainz) Johnson Component: Testing framework Version: master Severity: Normal Keywords: on\_commit TestCase Cc: Simon Charette, François Freitag, Adam (Chainz) Johnson, Triage Stage: Ready for checkin Florian Demmer Needs documentation: Has patch: yes Needs tests: no Patch needs improvement: no UI/UX: Easy pickings: no no 12944 merged, 12761 unmerged, 11805 unmerged Pull Requests: Description Testing code which uses transaction.on commit() currently is inconvenient and (for me) confusing, as on commit() is never called because of TestCase's outermost → Reply transaction. We use something like this, woven into all those test, to run queued commit hooks on demand: def run\_commit\_hooks(): for db\_name in settings.DATABASES.keys(): connection = transaction.get\_connection(using=db\_name)











## What is the package?

- TestCaseMixin containing captureOnCommitCallbacks()
- 23 lines of code, 86 lines of tests.
- Python 3.5 to 3.9 support.
- Django 2.2 to 3.1 support.



## Tools: setuptools

### setup.cfq

```
[metadata]
```

```
name = django-capture-on-commit-callbacks
version = 1.2.0
description = Capture and make assertions on transaction.on co
long description = file: README.rst
long description content type = text/x-rst
```



With pytest-django and pytest-cov (coverage).

pytest.ini



### tox.ini

```
[tox]
isolated_build = True
envlist =
    py35-django{22}
    py36-django{22,30,31}
    py37-django{22,30,31}
    py38-django{22,30,31}
    py39-codestyle
    py39-django{22,30,31}

[testenv]
commands = python -W error::DeprecationWarning -W error::Pendi
```

## Tools: pre-commit

### .pre-commit-config.yaml

```
repos:
- repo: local
  hooks:
  - id: black
    name: black
    entry: .tox/py39-codestyle/bin/black
    language: system
    types: [python]
  - id: check-manifest
    name: check-manifest
    entry: check-manifest
    language: system
    pass filenames: false
    files: ^MANIFEST\.in$
  - id: flake8
```



## Tools: GitHub Actions

.github/workflow/main.yml

```
jobs:
  tests:
    name: Python ${{ matrix.python-version }}
    runs-on: ubuntu-18.04
    strategy:
      matrix:
        python-version:
        - 3.5
        - 3.6
        - 3.7
        - 3.8
        - 3.9
```



django-capture-on-commit-callbacks

BUILD

**PASSING** 

PYPI

V1.2.0

CODE STYLE

**BLACK** 

PRE-COMMIT

**ENABLED** 

# Thank you!



- Adam Johnson
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- me@adamj.eu
- github.com/adamchainz/talk-django-capture-oncommit-callbacks