Why do projects fail?

Let's talk about the story of Sinon.PY

Kir Chou @ pycon 2017

For any level audiences

slightly subjective experience sharing

Who am I?

Kir Chou

- Full-stack web application engineer
- Python with less than 3 years experience

Let’s think about another thing…

Why do projects fail?

What do the community need?

Let's talk about the story of

Sinon.PY

Since 2016 Oct.

Every projects must have a

Motivation

Python unittest.mock

DOC

```
>>> from unittest.mock import MagicMock
>>> thing = ProductionClass()
>>> thing.method = MagicMock(return_value=3)
>>> thing.method(3, 4, 5, key='value')
3
>>> thing.method.assert_called_with(3, 4, 5, key='value')
```

```
>>> mock = Mock(side_effect=KeyError('foo'))
>>> mock()
Traceback (most recent call last):
 ...
KeyError: 'foo'
```

```
>>> values = {'a': 1, 'b': 2, 'c': 3}
>>> def side_effect(arg):
...     return values[arg]
...
>>> mock.side_effect = side_effect
>>> mock('a'), mock('b'), mock('c')
(1, 2, 3)
>>> mock.side_effect = [5, 4, 3, 2, 1]
>>> mock(), mock(), mock()
(5, 4, 3)
```

Javascript Sinon.JS

DOC

- Spies
- Stubs
- Mocks
- Fake timers
- Fake `XHR` and server
- JSON-P
- Assertions
- Matchers
- Sandboxes
- Utils

`spy.callCount`

The number of recorded calls.

`spy.called`

`true` if the spy was called at least once

`spy.notCalled`

`true` if the spy was not called

`spy.calledOnce`

`true` if spy was called exactly once

`spy.calledTwice`

`true` if the spy was called exactly twice

`spy.calledThrice`

`true` if the spy was called exactly thrice

`spy.firstCall`

The first call

`spy.secondCall`

The second call

Ugly interface and difficult to use

Hard to understand

Unfriendly document for beginner

Python unittest.mock

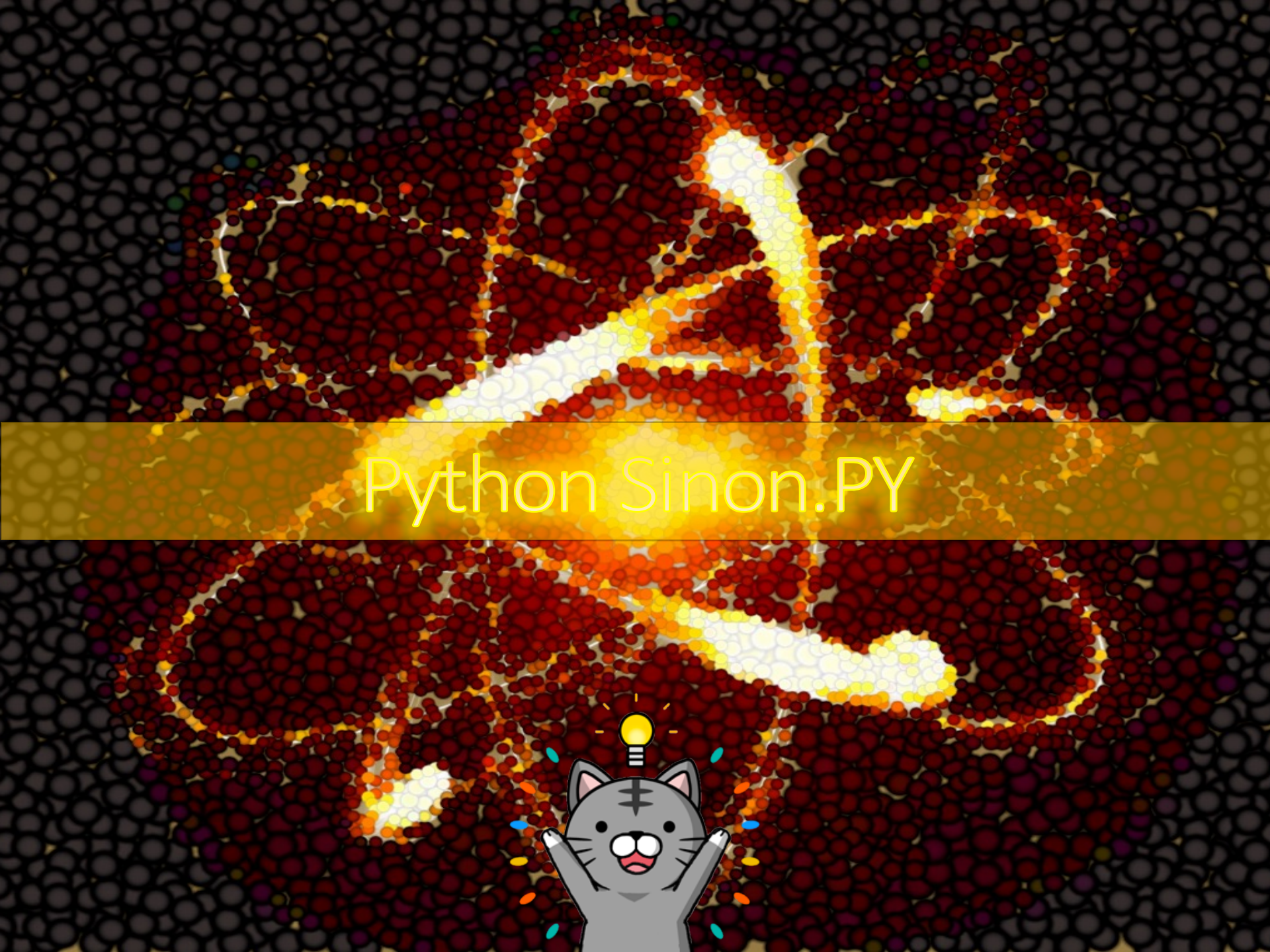
Javascript Sinon.JS

Nice interface and easy to use

Relatively clear to understand

Friendly document for beginner

Python Sinon.PY



Demo

Schedule

Oct – Researched

Nov – Prototyping

Dec – Developed Core

Jan – Refined Core with Testcase

Feb – Made API Documentation

Footprints in the sand show where one has been

Silly question on StackOverflow

forced-assign-value-to-function-call

```
>>> import os
>>> print(getattr(os, "system"))
<built-in function system>

>>> getattr(os, "system") = "a"
  File "<stdin>", line 1
SyntaxError: can't assign to function call
```

Is that possible to achieve this?

python python-3.x

Footprints in the sand show where one has been

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```
>>> import os
>>> print(getattr(os, "system"))
<built-in function system>

>>> getattr(os, "system") = "a"
  File "<stdin>", line 1
SyntaxError: can't assign to function call
```

```
>>> import os
>>> os_system = os.system
>>> setattr(os, 'system', 'a')
>>> getattr(os, 'system')
'a'
```

Researched and Prototyping

Python Core

- get/set/hasattr…
- reload
- weakref

Python OOD/P

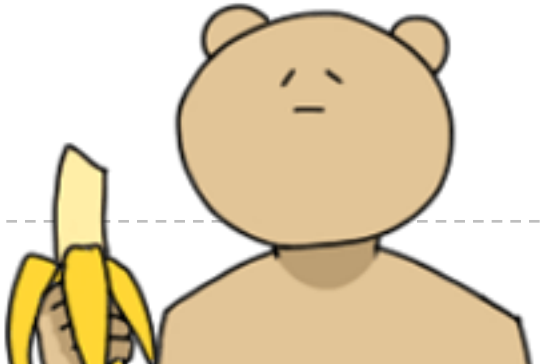
- descriptor, decorator

Open Source

- PyPI
- Travis CI
- Coverage
- Sphinx
- Pylint

Feedback form community?

- Click to add text




Sinon.PY
所有網站資料
總覽
工作階段
對比
選取指標
工作階段
5
2.5
...
3月1日
3月2日
3月3日
工作階段
10
使用者
7
瀏覽量
35
單次工作階段頁數
3.50
平均工作階段時間長度
00:02:50
跳出率
40.00%

Python

search

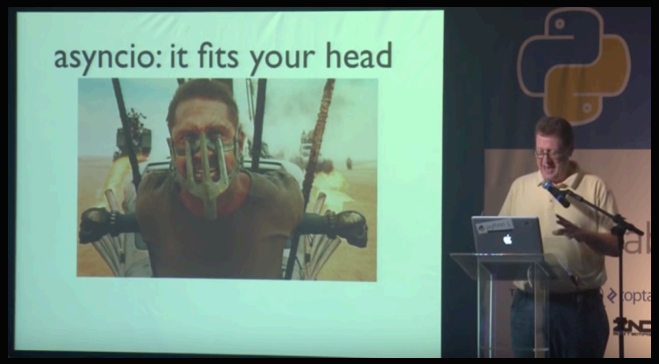
this post was submitted on 21 Feb 2017

4 points (74% upvoted)

shortlink: `https://redd.it/5v9rou`


Why do project fail?
Without
Discussing with others
Reading exist projects
With
A stupid motivation
Poor skills

https://www.youtube.com/watch?v=ZzfHjytDceU



What do the community need?

{ Python }

Before implementing your idea

1. Reading exist projects
2. Discussing with experienced pythonist

Principle

Don't reinvent the wheel

If there is a car, learning how to drive it

Provisos

Don't reinvent the wheel

If there is a car, learning how to drive it

You plan on learning more about the wheels

The project has a strong and experienced team

Don’t be afraid of joining the communities

Q&A