WE NEED A BETTER TESTING FRAMEWORK

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HACKING AROUND FOR THE PAST ~15 YEARS

VANMOOF Company

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DOYOU TDD?

DOYOU BDD?

SCENARIO: DESCRIPTION

GIVEN: A STATE

WHEN: AN ACTION IS PERFORMED

EXPECT: AN OUTCOME

Feature: This is behave

Scenario: Run something
Given we use behave
When we write specs
Then behave runs them

```
from behave import given, when, then, step
@given('we use behave')
def step impl(context):
    pass
@when('we write specs')
def step_impl(context):
    assert True != False
@then('behave runs them')
def step impl(context):
    assert context.failed is False
```

```
class ExampleSpec(Specification):
                                   Extend
                                    Specification
    def example_feature(self):
        with given:
            pass
        with expect:
    Contain steps
```

with setup:

pass

with expect:

pass

from nimoy.specification import Specification
class ExampleSpec(Specification):
 def example_feature(self):

```
from nimoy.specification import Specification
class ExampleSpec(Specification):
    def example feature(self):
        with setup:
            pass
        with when:
            pass
        with then:
            pass
```

```
from nimoy.specification import Specification
class ExampleSpec(Specification):
    def example feature(self):
        with setup:
            a = 5
        with when:
            a = a + 1
        with then:
            a == 6
                     Look, mom!
```

No asserts!

DOYOU DDT?

SCENARIO: DESCRIPTION

GIVEN: A STATE

WHEN: AN ACTION IS PERFORMED

EXPECT: AN OUTCOME

WHERE: VARIABLES EQUAL VALUES

```
class ExampleSpec(Specification):
    def example_feature(self, value_a, value_b):
        with given:
            a = value a
                                     Variables
            b = value b
        with expect:
                                     Provided
            (a * b % 2) == 0
        with where:
            value_a | value_b
```

Declare

```
class ExampleSpec(Specification):
    def example feature(self):
        with given:
            a = value_of_a
            b = value of b
        with expect:
            (a * b % 2) == 0
        with where:
            value_of_a | value_of_b
Declare
variables
```

```
class ExampleSpec(Specification):
    def example feature(self):
        with given:
            a = value_of_a
            b = value of b
        with expect:
            (a * b % 2) == 0
        with where:
            value\_of\_a = [2, 2]
            value of b = [5, 21]
```



```
from unittest import mock
from mock import Mock
def test_mocks():
    teh mock = Mock()
    teh_mock.do_it()
    assert teh_mock.do_it.call_count == 1
    teh mock.do another.return value = 5
    assert teh_mock.do_another() == 5
```

from nimoy.specification import Specification from unittest.mock import Mock

```
class ExampleSpec(Specification):
    def example_feature(self):
        with given:
        a = Mock()
        with when:
            a.method_call() >> 5
        with then:
            a.method_call() == 5
        a.method_call() == 5
```

```
from nimoy.specification import Specification
from unittest.mock import Mock

class ExampleSpec(Specification):
    def example feature(self):
```

```
def example_feature(self):
    with given:
        a = Mock()
    with when:
        a.method_call() << [5, 6, 7]
    with then:
        a.method_call() == 5
        a.method_call() == 6
        a.method_call() == 7</pre>
```

```
from nimoy specification import Specification
from unittest mock import Mock
class ExampleSpec(Specification):
    def example_feature(self):
        with given:
            a = Mock()
        with when:
            a.method_call('argument')
        with then:
            1 * a.method_call('argument')
invocations
```

```
from nimoy.specification import Specification
from unittest.mock import Mock
class ExampleSpec(Specification):
    def example feature(self):
        with given:
            a = Mock()
        with when:
            a.method_call('argument')
        with then:
              * a.method call('argument')
invocations
```

```
from nimoy.specification import Specification from unittest.mock import Mock
```



JUST SHOWING OFF

from nimoy.specification import Specification
class MySpec(Specification):
 def my_feature_method(self):
 vith given:

with given:
 # Setup
with when:
 raise Exception('Whaaaaat')
with then:
 err = thrown(Exception)
 str(err[1]) == 'Whaaaaat'

from nimoy.specification import Specification

class MySpec(Specification):
 def regex_assertion(self):
 with given:
 exp = 'The quick brown fox'



exp @ '.+brown.+'

with expect:

This is a valid regex evaluation

PYTHON 3

UNITTEST

AST



github.com/browncoat-ninjas/nimoy

Version: 0.0.1b7

Search Medium for "Building Nimoy"

QUESTIONS?

THANKS