

# Testing using Behave in Python

## Overview

In this tutorial, we will create some tests in Behave, which is a Cucumber variant for Python.

The test (specification) is initially created in Jira as a Cucumber Test and afterwards, it is exported using the UI or the REST API.

## Requirement

- Install Behave

## Code

### features/tutorial01\_basics.feature

```
Feature: Showing off behave (tutorial01)
@ABC-119
Scenario: Run a simple test
    Given we have behave installed
    When we implement a test
    Then behave will test it for us!
```

### features/steps/step\_tutorial01.py

```
# file:features/steps/step_tutorial01.py
# -----
# STEPS:
# -----
from behave import given, when, then
@given('we have behave installed')
def step_impl(context):
    pass
@when('we implement a test')
def step_impl(context):
    assert True is not False
@then('behave will test it for us!')
def step_impl(context):
    assert context.failed is False
```

After running the tests and generating the Behave JSON report (e.g., [data.json](#)), it can be imported to Xray via the REST API or the **Import Execution Results** action within the Test Execution.

```
behave --format=json -o data.json
```

The execution details displays the result of the Cucumber Scenario.

Test Details

Test Type:

Cucumber

Scenario Type:

Scenario

Scenario:

1

Given we have behave installed

2

When we implement a test

3

Then behave will test it for us!

4

Results

Context	Error Message	Duration	Status
-		0 millisec	PASS



#### Learn more

See the available endpoints for importing Behave's results in [Import Execution Results - REST](#).

[Testing with Cucumber](#) details the typical workflow for Cucumber-related tests.

## References

- <http://pythonhosted.org/behave/>
- <https://jenisys.github.io/behave.example/tutorials/tutorial01.html>