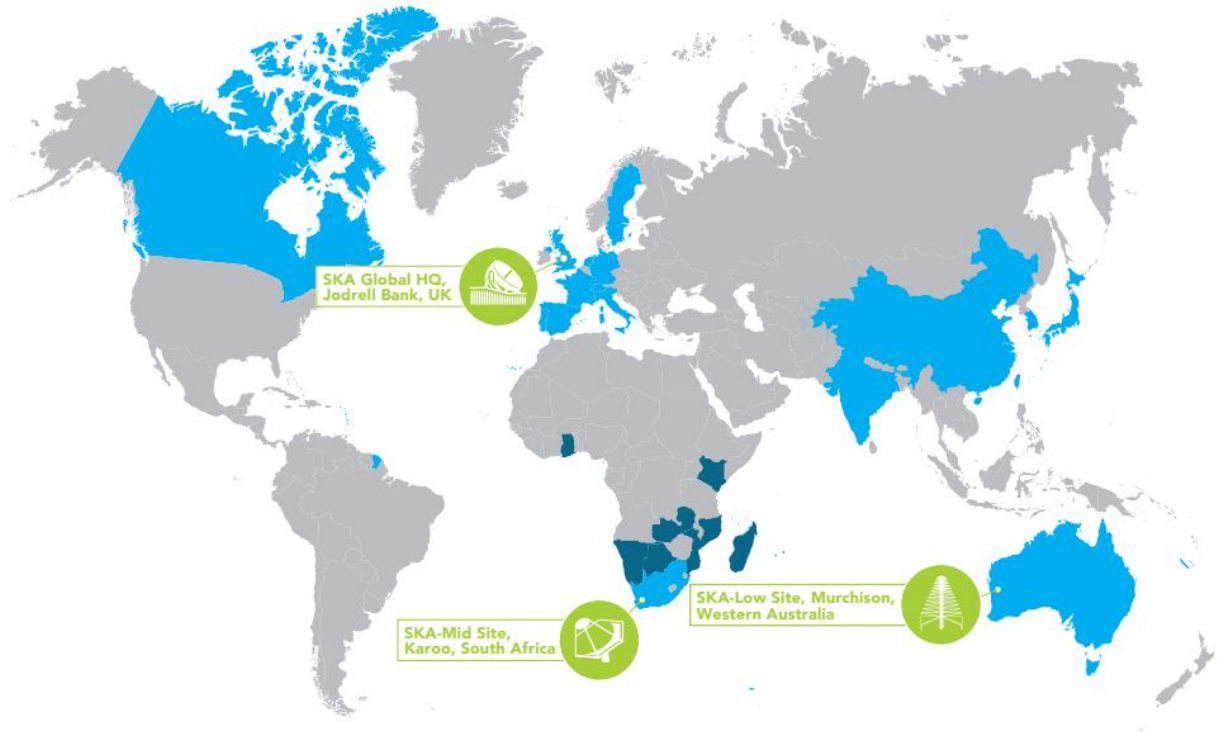


Writing BDD Tests in Python

Samuel Twum, Software Engineer (SARAO)

About the project



SKA Partners– includes current Members of the SKA Organisation and current SKAO Member States* and Observers (as of February 2021)



African Partner Countries

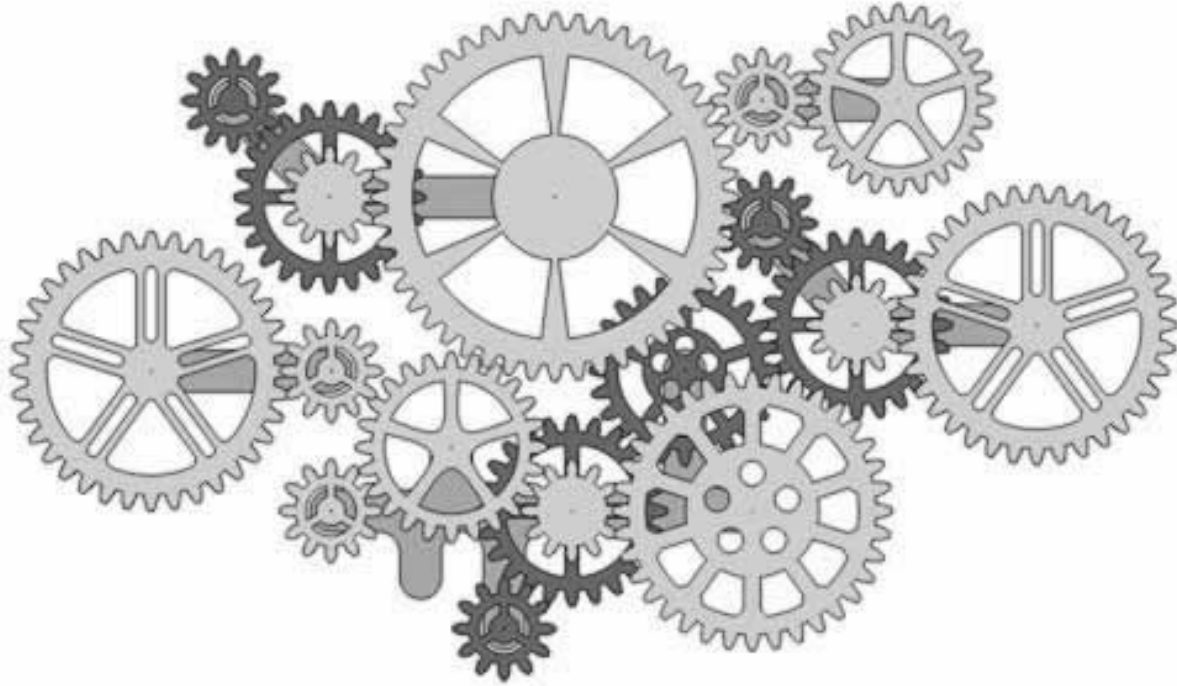


We're hiring: <https://bit.ly/3T4r28V>

- Junior Software Engineer
- Software Engineer
- Software Engineer (GUI)
- Software Engineer: Storage
- Senior Software Engineer

Why Test your Code?

Image credits in order of left to right:
<https://www.giftstogive.org/lightbulb-1/>
<https://www.gearsvaldecor.com/>
<https://www.pngwing.com/en/free-png-tattv>



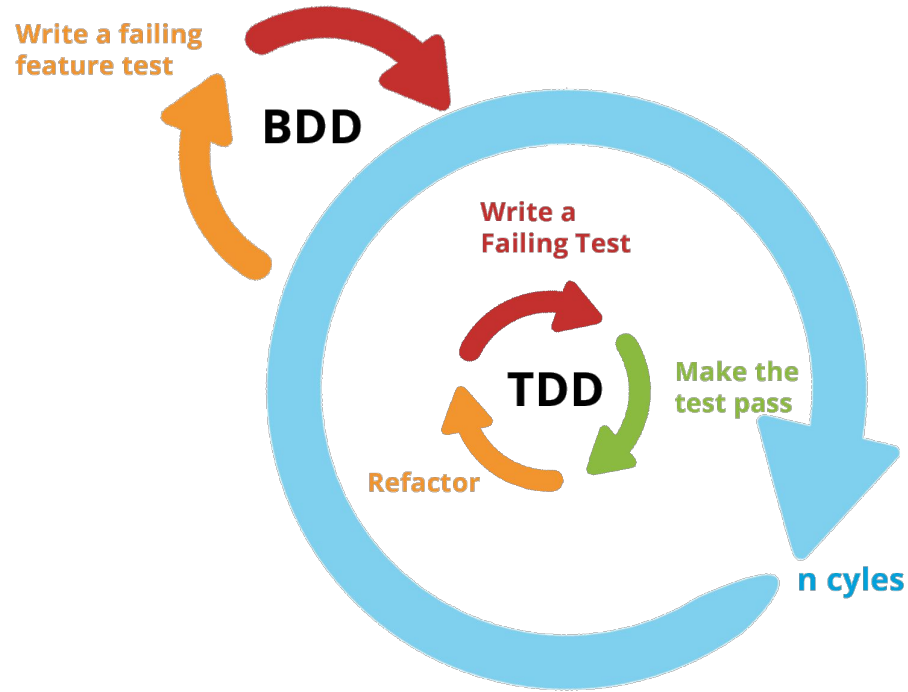
Crossing the line from being clueless to being confident about your system is a function of how well tested your code is



TEST YOUR CODE !

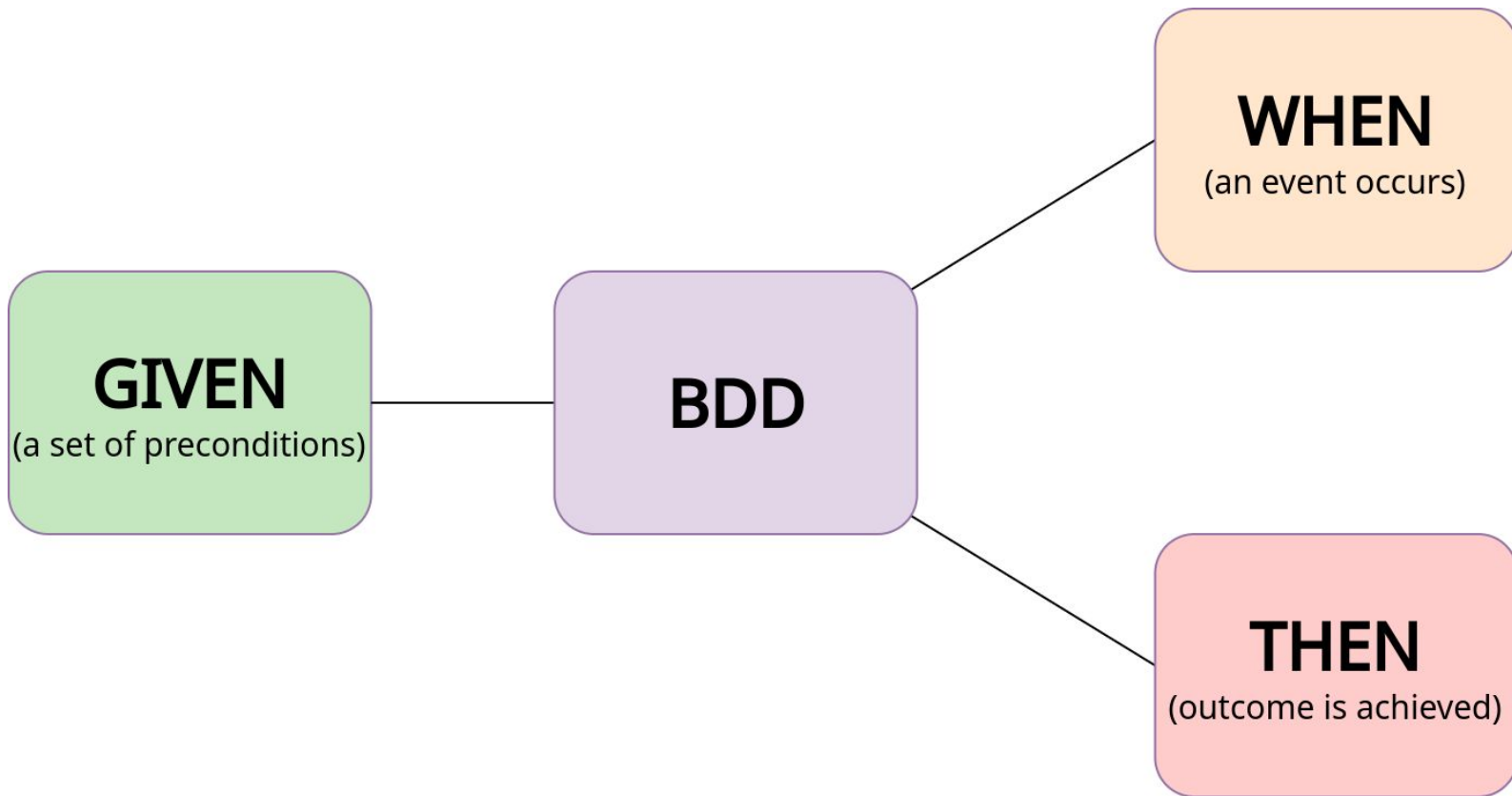


BDD/TDD



BDD tests focus more on the software usage from the customer's perspective (and system requirements) and while TDD is from the developer's perspective (and unit tests)

Cucumber Gherkin Language



Cucumber Gherkin Language

```
# content of learning_and_working.feature
```

```
Feature: Upskilling while working
```

```
    Scenario: Moving from ground zero
```

```
        Given I am a beginner
```

```
        And I want to be a software engineer
```

```
        When I identify my goal
```

```
        And I create a system
```

```
        Then I should share my learning on Twitter
```


content of learning_and_working.feature

Feature: Upskilling while working

Scenario Outline: Outlined levels

Given I am a <level>

And I want to be a <desired_career>

When I eat identify my goal

And I create a system

Then I should <activity>

Examples:

level	desired_career	activity	
beginner	software engineer	... twitter	
expert	data scientist	... writing	

Writing BDD Tests in Python



A word cloud in the background of the slide, featuring various terms related to Behavior-Driven Development (BDD) and testing. The words are arranged in a circular pattern and include: "passed", "outline", "driven", "gherkin", "given", "specify", "feature", "testing", "steps", "setup", "design", "failed", "wip", "examples", "behavior", "bdd", "tags", "scenario", "step", and "have". The words are in different colors (yellow, orange, red) and sizes, creating a textured background.

pytest-bdd

DEMO

<https://github.com/samueltwum1/league-table>

Usage in SKA Project

<https://gitlab.com/ska-telescope>

<https://gitlab.com/ska-telescope/ska-dish-lmc/-/tree/master/tests>

<https://gitlab.com/ska-telescope/ska-skampi>