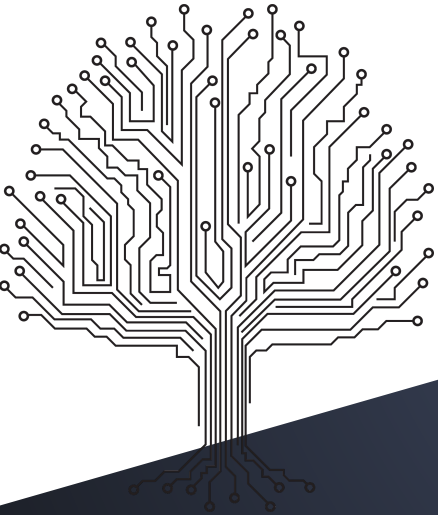
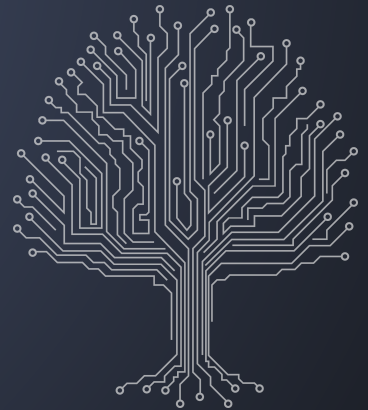
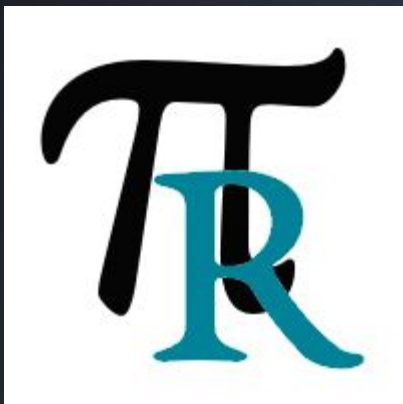


Odoo Behavior-Driven Development (aka BDD)



OCA DAYS
ONLINE 2021





Business application developer:

- Odoo
- AnyBlok

Deploy and manage cloud services.

Help DevOps team to improve QA process.

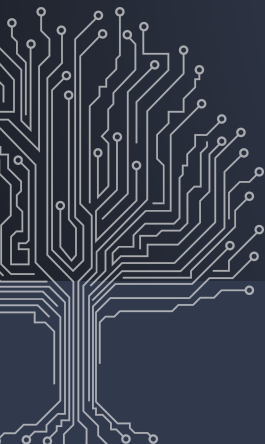
twitter: @petrusv84

gh: petrus-v

pierreverkest84@gmail.com

Logiciel Libre

Python



Pierre Verkest



Python: BDD Testing

Javascript: Tours

Javascript : Click EveryWhere
(Random testing, Monkey Testing, Fuzz Testing)

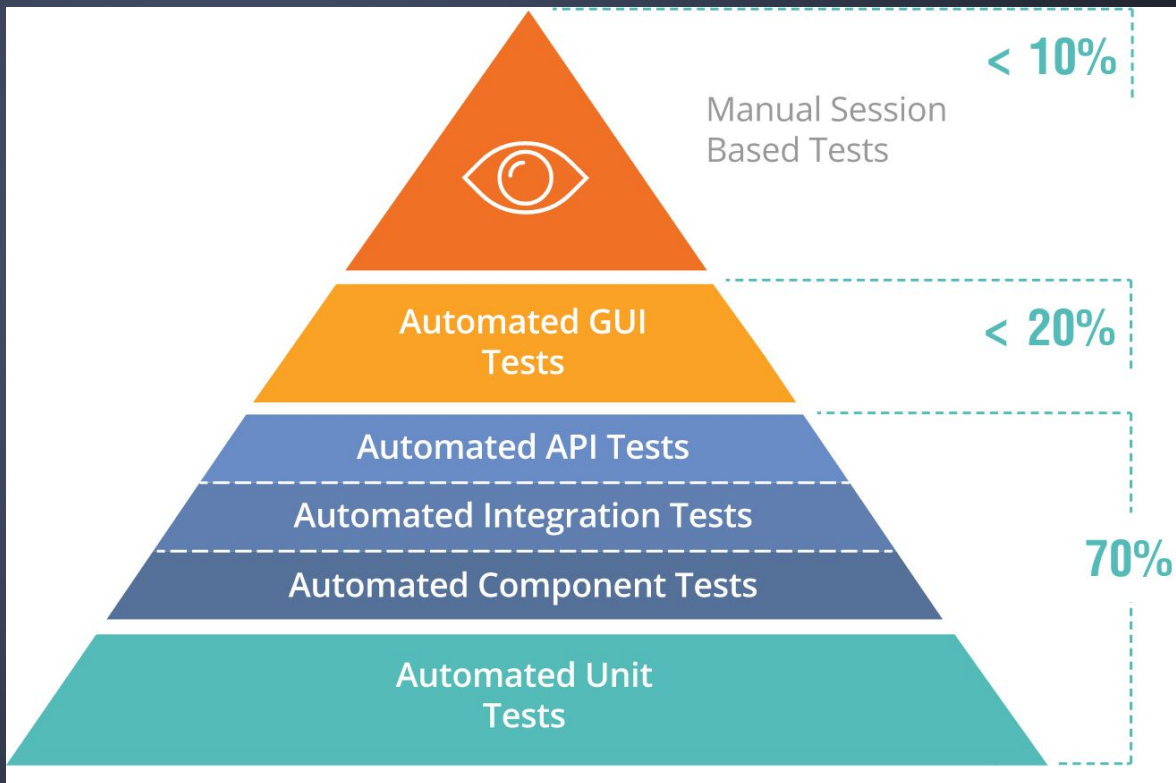
Python: Unittest

Javascript: Tours

Python: Unittest

odoo --test-enable
pytest-odoo

Javascript: QUnit



What's BDD ?

“

Is an agile software development process that encourages collaboration among developers, quality assurance testers, and customer representatives in a software project.

Wikipedia

Gherkin

Title

An explicit title.

Narrative

A short introductory section with the following structure to explain what's the needs of the feature:

- As a: the person or role who will benefit from the feature;
- I want: the feature;
- so that: the benefit or value of the feature.

Acceptance criteria

A description of each specific scenario of the narrative with the following structure:

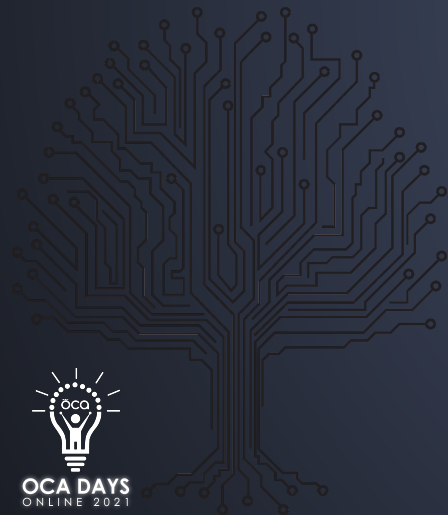
- Given: the initial context at the beginning of the scenario, in one or more clauses;
- When: the event that triggers the scenario;
- Then: the expected outcome, in one or more clauses.

source Wikipedia

How BDD helps collaboration between developers and customers ?
A common language: **Behavioral specifications**



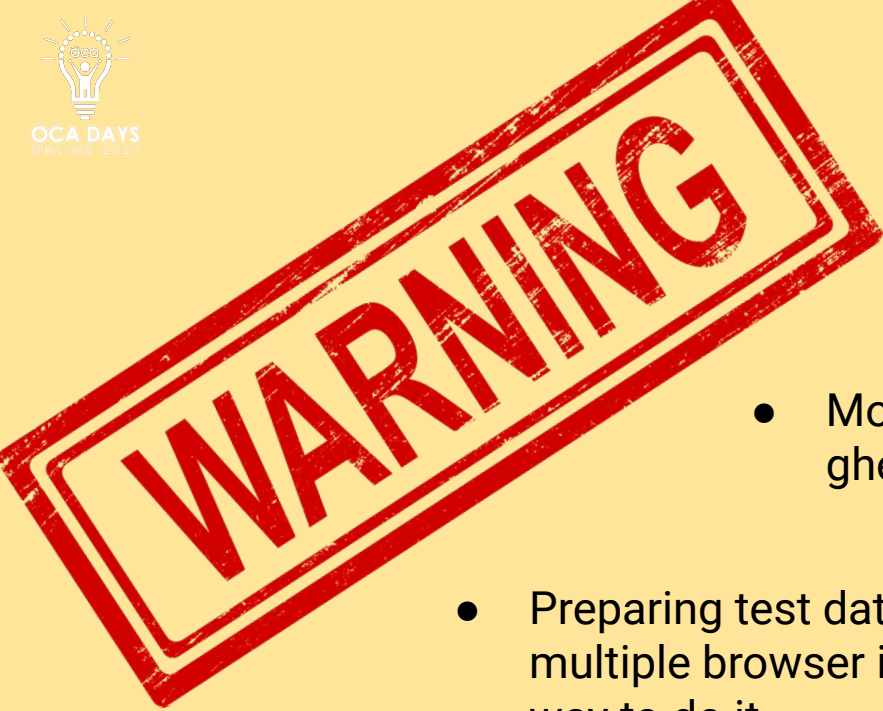
DEMO



What to tests ? Benefits ?

Running on anonymized database after update **all** modules (or in QA environnement):

- Ensure main business flows still works on configured production database
- Given user roles are able to manage those business flows
- Test integration with other software (mail / printer / other services)
- Testing *released* Docker Image OR expected deployed platform
- Multiple browsers



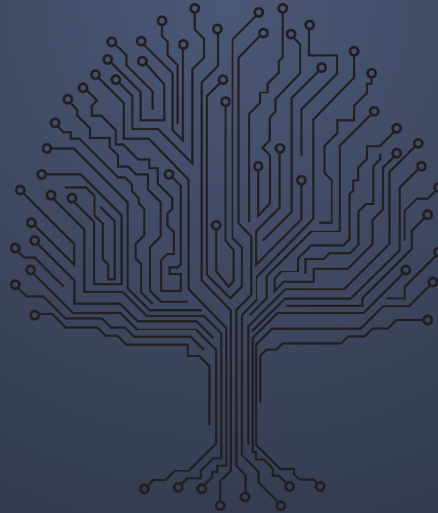
- Running selenium test are pretty slow
- Motivate customers / product owner to use gherkin language is not that easy.
- Preparing test data - in case running test in multiple browser in parallel - require efficient way to do it.
- waiting elements state changes after action / on change is not that easy.



- **Selenium:** to interact with browser
- **pytest:** Python testing launcher
- **pytest-bdd:** pytest plugin to interpret gherkin specifications to run tests
- **selenium-configurator (optional):** if you want to run tests in different browser at the same time or use different configuration between CI and dev environment
- **selenium-odoo-pages:** a set of pages and elements used to interact with odoo pages and widget using the [page objects pattern](#)

Thanks

Questions ?



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