

QA on Django and Python apps





@landus88 @agomezmoron #opensouthcode

First of all, let's take a selfie!







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QA Lecturer at Pablo de Olavide University

Proud Bruno's daddy!



Alejandro Laó Amores (@landus88)

QA at Emergya

Passionate about tech.

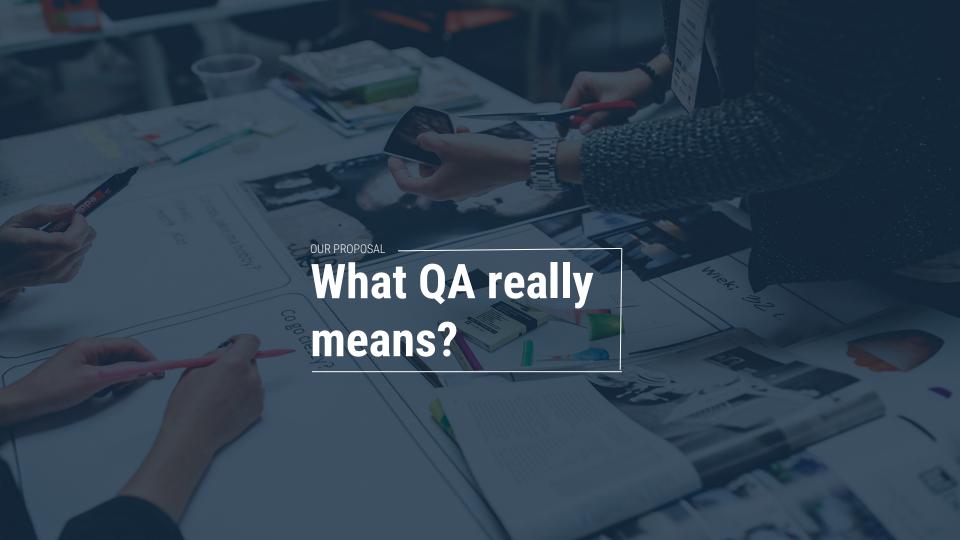




Working as a team

The workflow

Conclusions

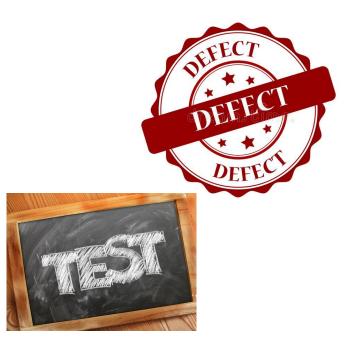


Some people think it's finding defects



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- Some people think it's finding defects
- Some people think it's testing



- Some people think it's finding defects
- Some people think it's testing
- A lot of people think it's f*ck*ng the team







The meaning of QA really depends on your point of view.



TEST?

CONTINUOUS INTEGRATION?

CONTINUOUS DELIVERY?

- Commitment

QA RULES

- Continuous process
- Definition (DOR, DOD, workflow)
- Standards (code style, documentation, etc)
- Testing (to avoid defects)
- Delivering
- validation (Have we done what we had to?)

"You never really understand a person until you consider things from his point of view."

Harper Lee



It's nothing new: it's one of the seven LEAN principles

- **Teamwork**
- **Responsibility-based**
- **Respect & empower people**



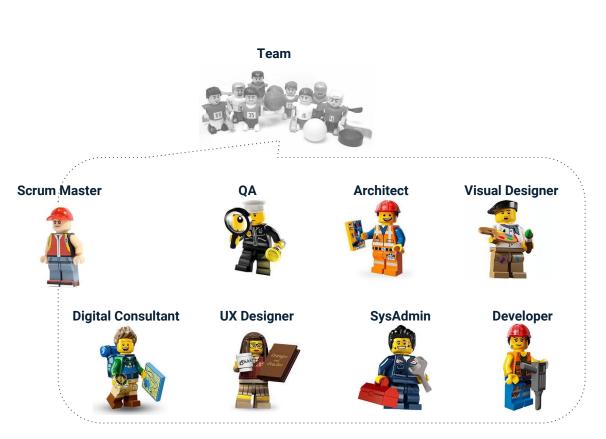


It's nothing new: it's **one of the seven LEAN principles**



A real project team





One team to rule them all!



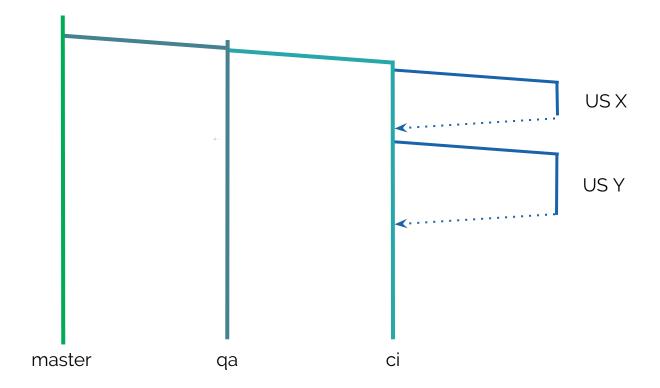
"Excellence is not a skill. It is an attitude".

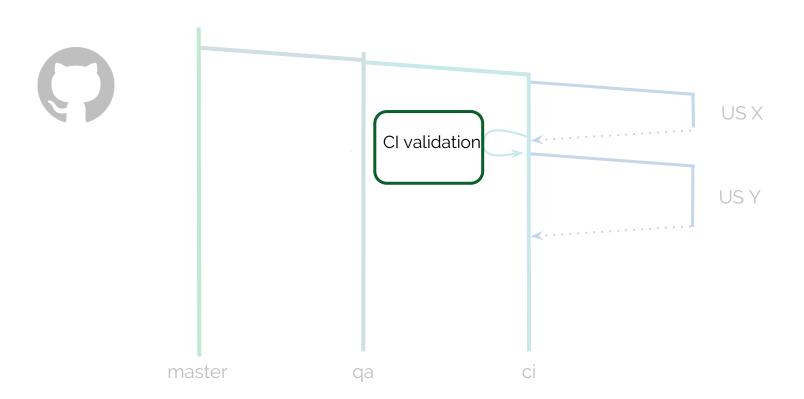
Ralph Marston

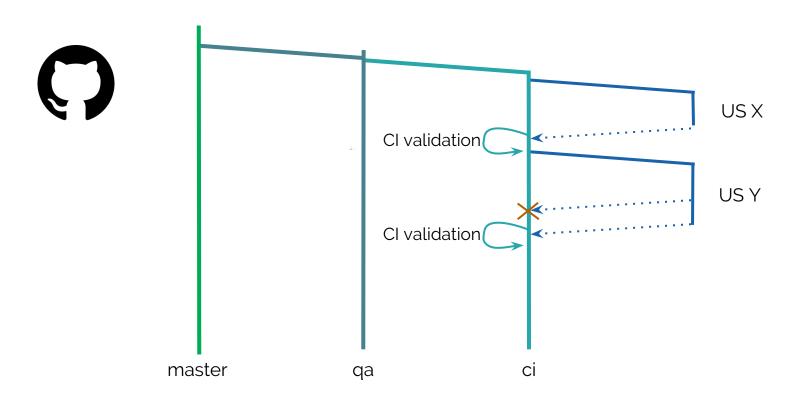




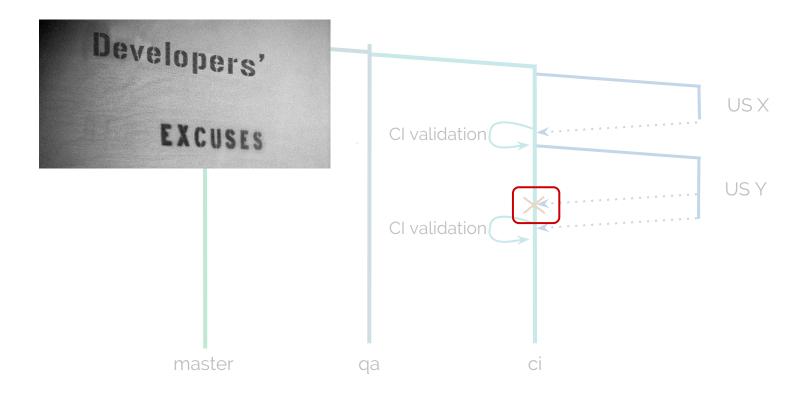


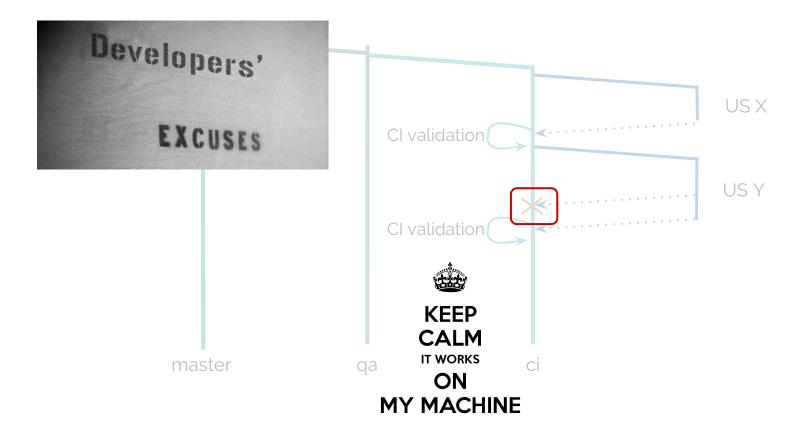


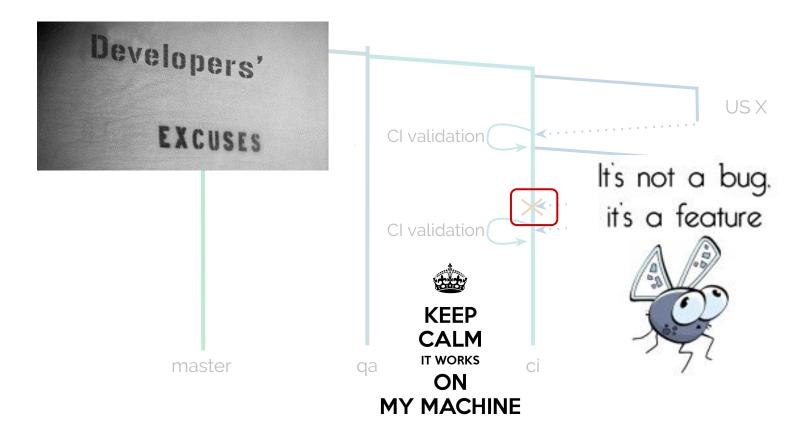


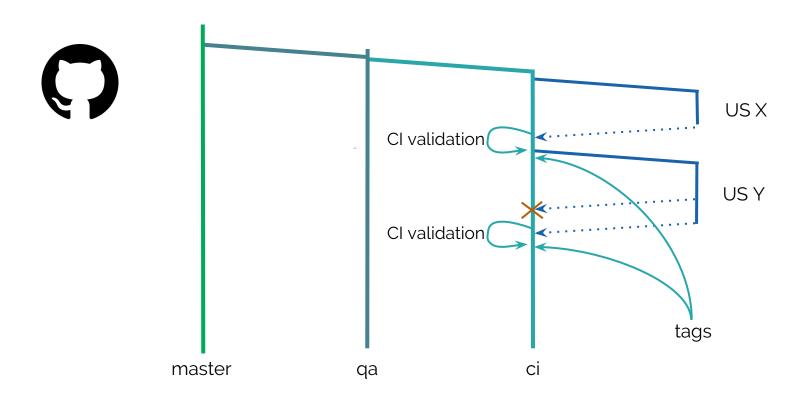


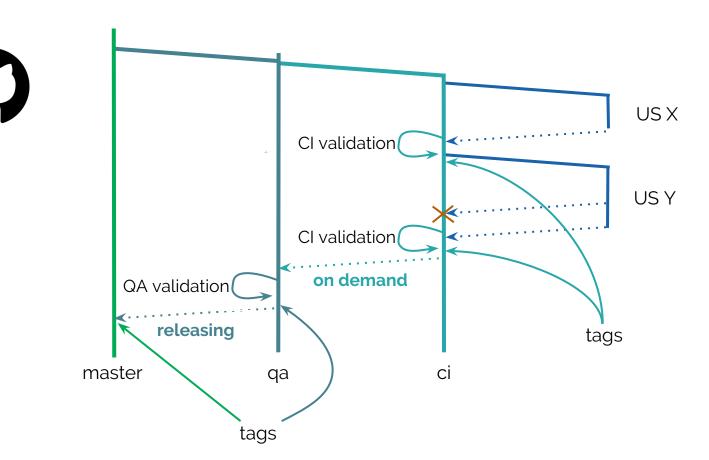


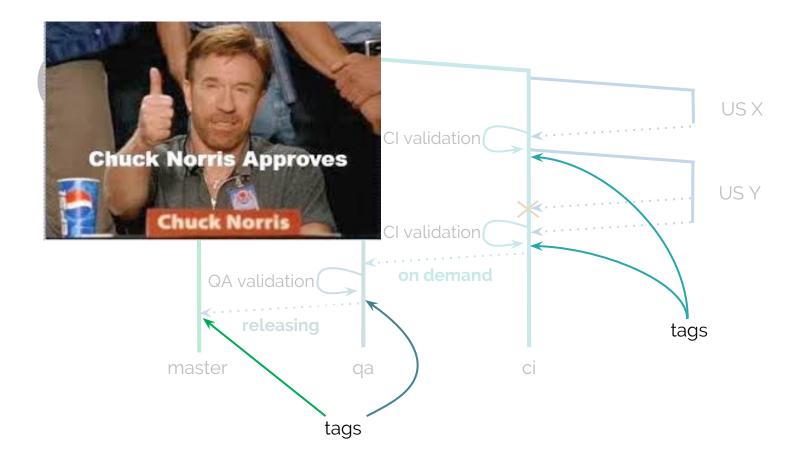


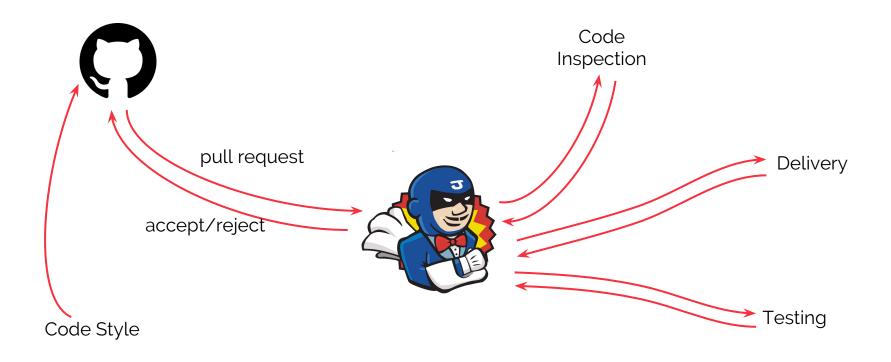


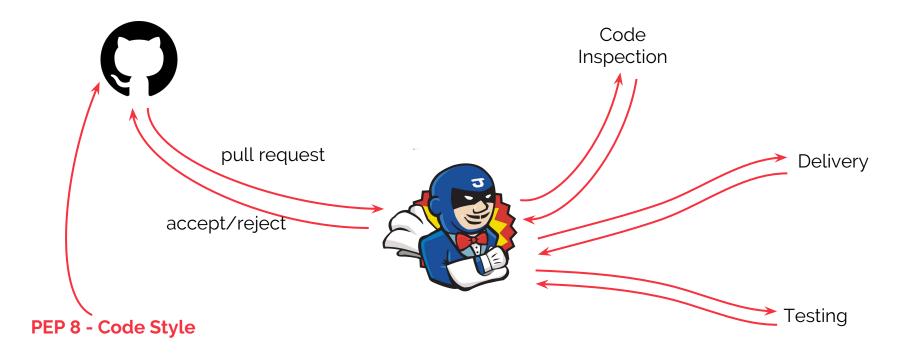


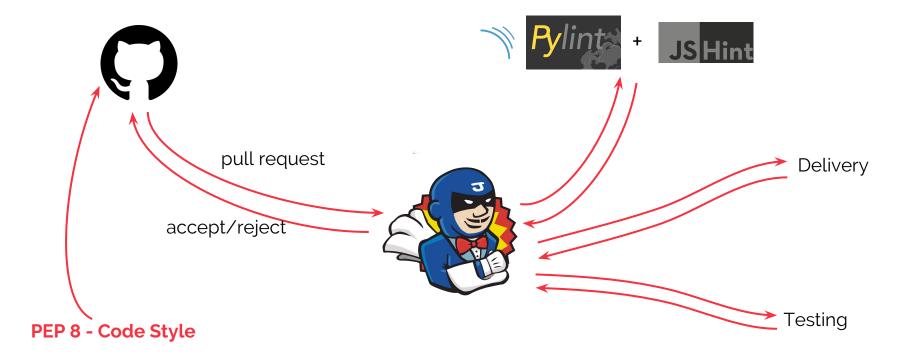


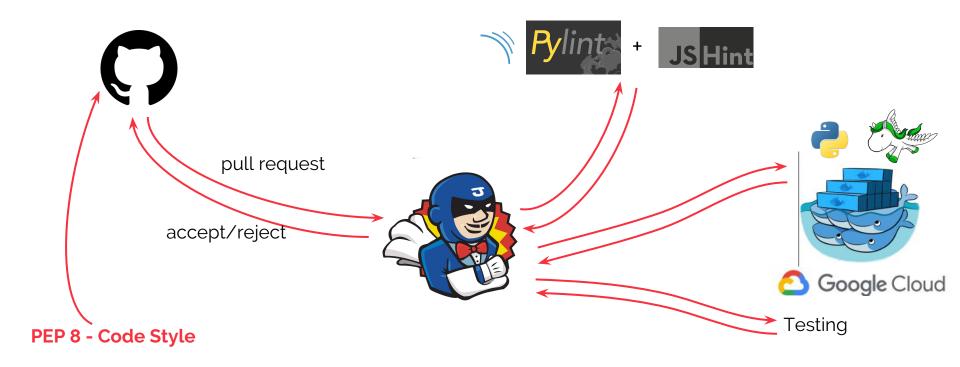


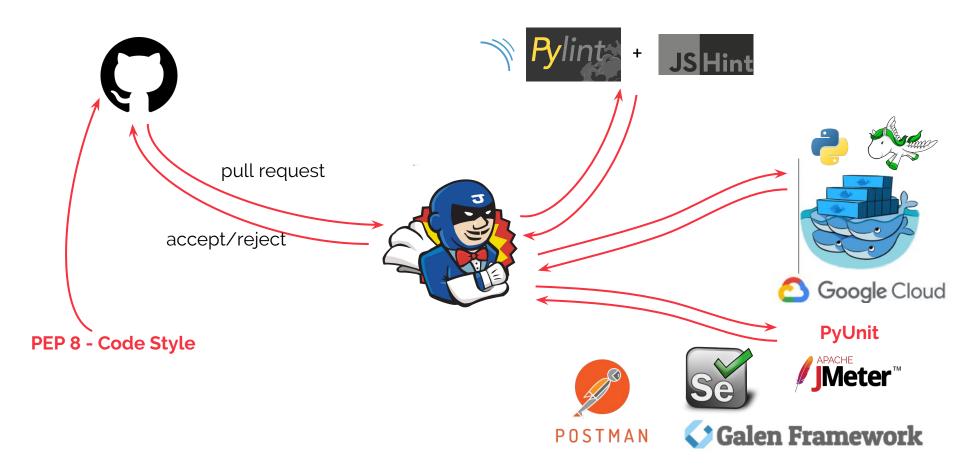












- **Unit Tests** guarantee the quality of some isolated pieces.
- **Functional tests** are split into different suites:
 - Acceptance/Smoke: Guarantees the quality of the core of the project.
 - **Regression:** Guarantees the quality of the entire app.
 - **Progression:** Guarantees the quality of the current development (release).
- Performance tests guarantee the system availability.
- Responsive tests guarantee the defined responsive rules.
- **UI testing** guarantee the UI looks as it should.





Case 1: I have a full Django app

- Unit Tests: PyUnit

- Code Inspection: Pylint



- Functional tests: Selenium / Nightwatch.js





- Performance tests: jMeter / Gatling





- Responsive tests: Galen Framework



- **UI testing:** CrossBrowserTesting



Case 2: I have a Diango / Python REST API + JS Front (Vue.js / Angular / React)

- Unit Tests: PyUnit

- Code Inspection: Pylint



- Functional tests: Selenium / Nightwatch.js





- Performance tests:

- Option 1: jMeter / Gatling





- Option 2: PostMan





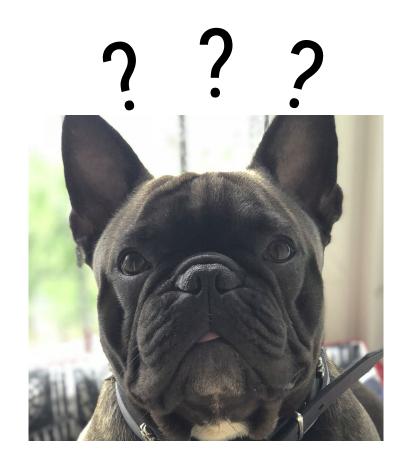
- **UI Testing:** CrossBrowserTesting





Wait, wait...

Can you please explain the difference about those performance test options?



Using jMeter / Gatling

- Pros: Really strong technology. A huge community behind.
- Cons: Learning curve...there are many details and options to take into

account!





Using PostMan

- **Pros:** Learning curve doesn't exist (almost) and developers should us it

(API contract)

- Cons: It's not a real technology for load testing but...







- Create a **QA culture** in the teams.
- QA is more than testing: Commitment, Code style, Continuous Integration, Unit Testing, Functional testing, Continuous Delivery...

My Culture. My Life.

- There is no one recipe, here we saw some ideas, thinking by yourself is the
 - best option to do it!
- Follow the force...



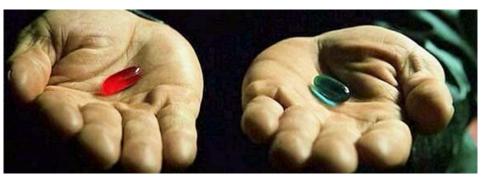
- All you have seen needs a big effort
- Are you ready to do it?

TEAMWORK MAKES THE DREAMWORK

IF YOU WANT SOMETHING YOU'VE NEVER HAD, THEN YOU'VE SOMETHING YOU'VE NEVER DONE.

"You take the blue pill, the story ends, you wake up in your bed and you believe whatever you want to believe. You take the red pill: you stay in wonderland and I will show you how deep the rabbit hole goes."

Morpheus, Matrix







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