

### **W10**

Al and Data Analytics Wednesday, October 17th, 2018 1:30 PM

# Use BDD and Product Analytics to Change Your Vision of Quality

Presented by:

# Laurent Py and Vincent Pretre Hiptest

Brought to you by:



### **Laurent Py**

With more than fifteen years of experience as a developer and product manager, Laurent Py is now product manager at Hiptest, a continuous testing platform dedicated to agile and DevOps teams. Hiptest helps product owners, developers, and testers collaborate to build the right product faster.

### **Vincent Pretre**

Vincent Pretre is a cofounder of Hiptest with more than ten years of software experience. He is specialized in web development and is also the creator and main contributor of the open source framework Hiptest-Publisher. He has been a speaker at several conferences around the world to share his experience about testing and behavior-driven development.



# Go beyond checking with BDD and product analytics

# Presented by



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# Webinar Agenda

Testing in DevOps

Step 1: Testing the idea

Step 2: Testing the code

Step 3 : Testing in production

Step 4 : Let's iterate

Conclusion

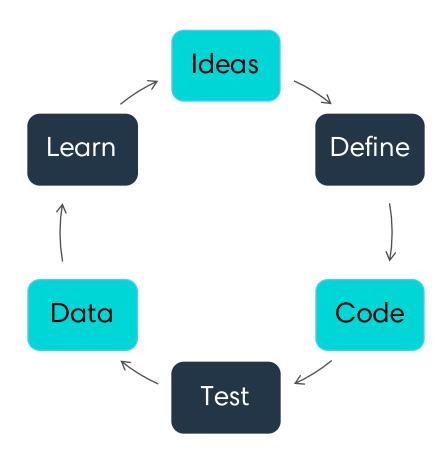
# **Testing in DevOps**

# **DevOps: Biggest opportunity?**



SPEED!

# **DevOps: Biggest opportunity?**



Minimize total time through the loop.

# **Testing in DevOps**

- 1. Which value do we want to deliver?
- 2. Is the feature's implementation aligned with that?
- 3. Does the feature have a real impact on the end user?
- 4. Is the UX great and what's the feature usage in time?

# Step 1: Testing the idea

# Why?



Challenge business assumptions

### Which value do we want to deliver?

- Use <u>personae</u> to create intimacy between users and the team
- Define business assumptions
- Behavior Driven Development (<u>BDD</u>) to capture the behavior

# What's BDD?

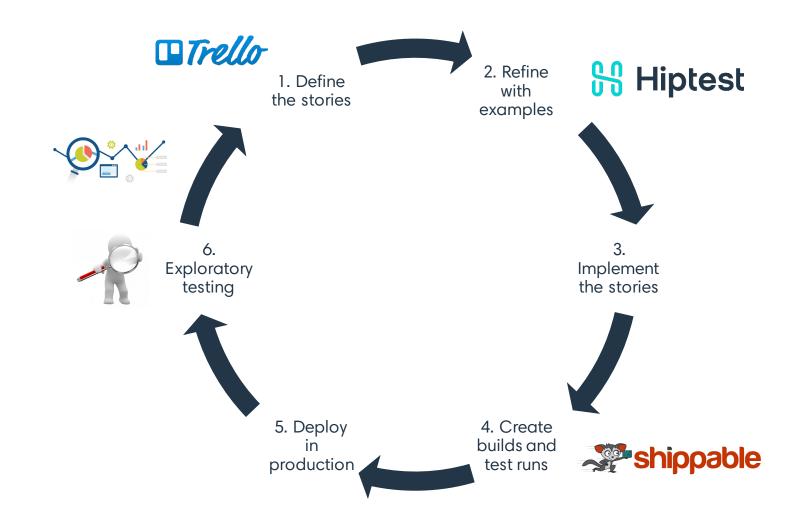
Collaborative requirements

Automated tests

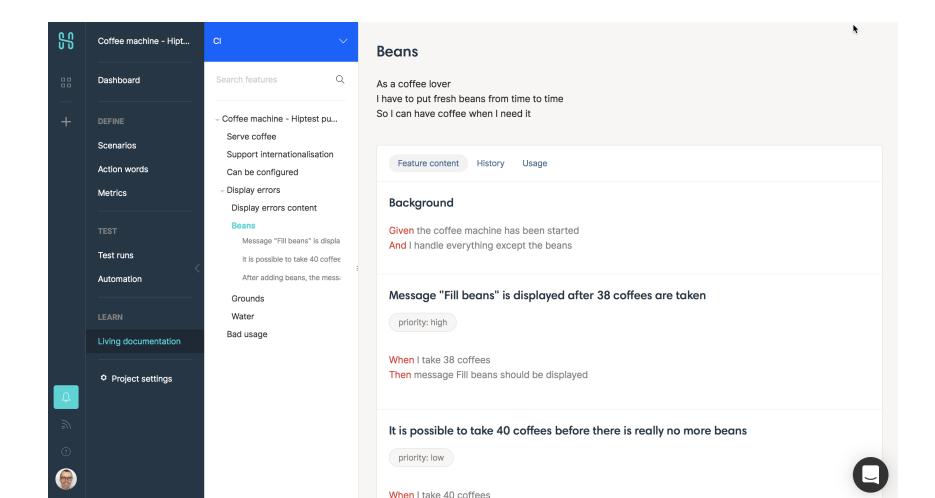
Living documentation

Automated tests

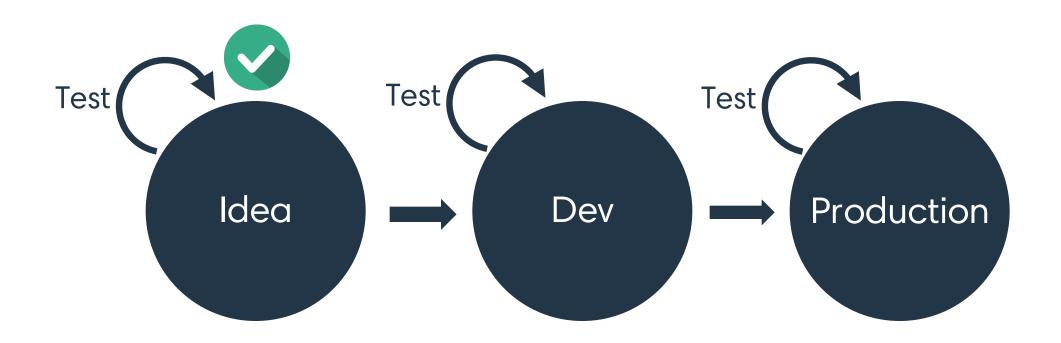
# Testing process at Hiptest



# **BDD – Capture the behavior**



# **Continuous testing**



# Step 2: Testing the code

# Development

- 1. In step 1 we have created a shared understanding of the feature
- 2. The dev' team can develop a first increment of the feature
- 3. Integration to CI/CD pipeline

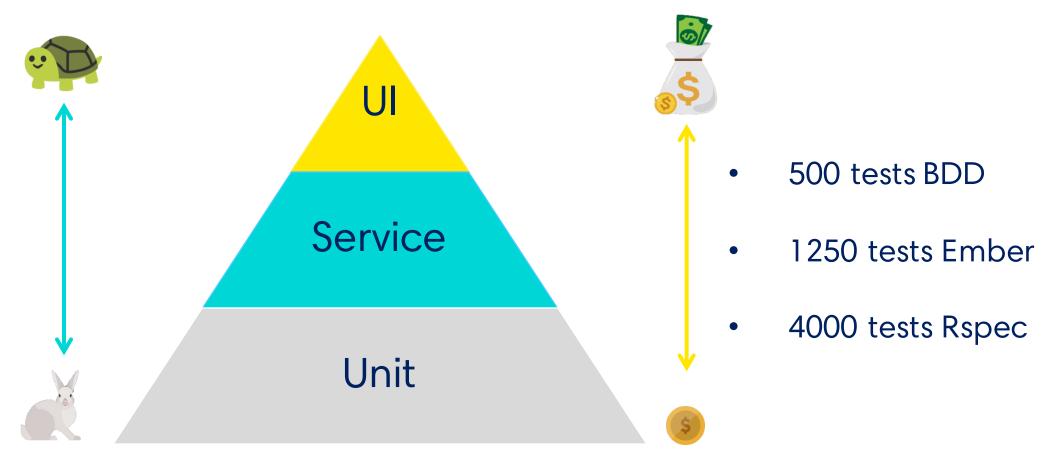
## **Automation**

100% of our checks (scenarios) are automated

And, it's expensive!

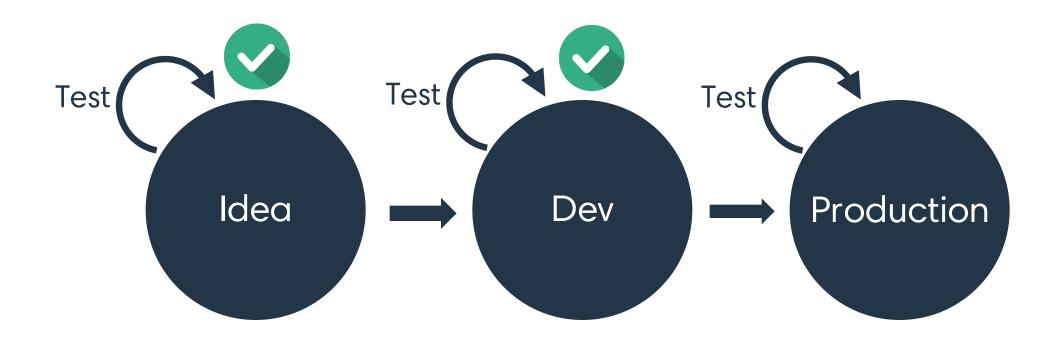


### Our automated tests



Credit to Martin Fowler

# **Continuous testing**



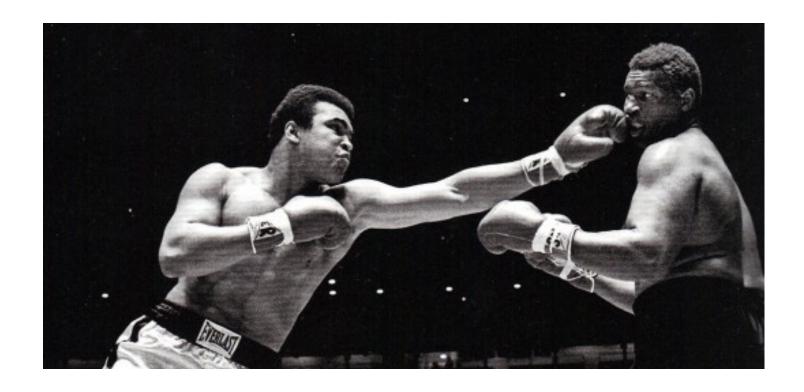
# Step 3: Testing in production

# Making the feature available

1. In Step 2 we have validated the implementation

2. The feature is rolled out using a switch (GA or progressive)

### The match



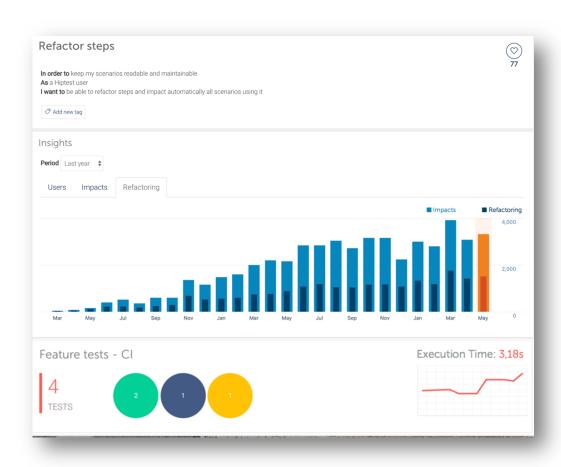
Correctness VS Availability

# Application performance management



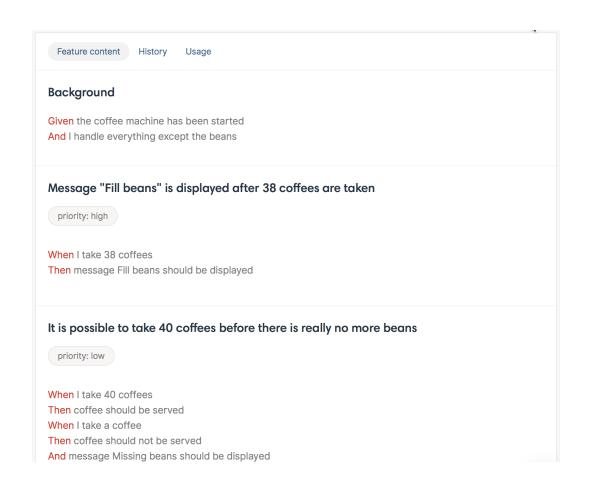
Appsignal, Pingdom, Scalingo & Logmatic/Datadog

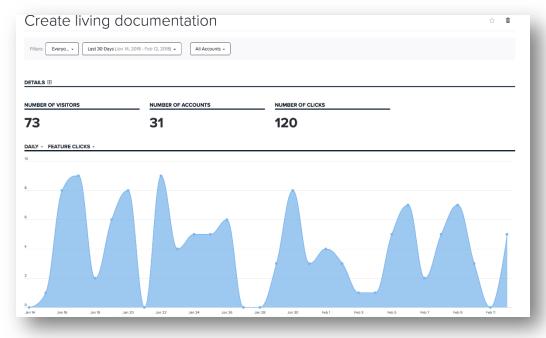
# Measure usage continuously



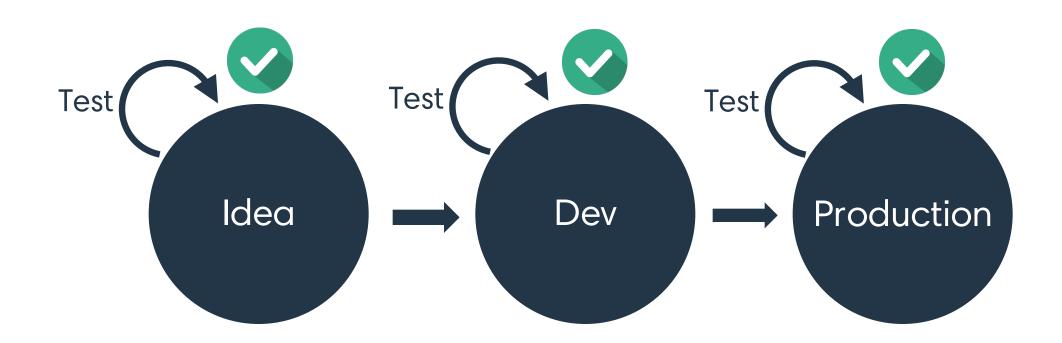
- Measure usage
- Measure impact

# Living Documentation & Product analytics





# **Continuous testing**



Step 4: Let's iterate

## Let's iterate

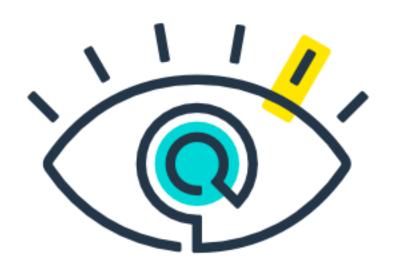
1. In step 3 we have measured the impact

2. The feature can be removed (with the tests), enhanced or validated

3. Go to step 1

# Conclusion

# **Benefits of testing in DevOps**



Test value first

2 Incremental investment in quality

3 Context suitable to experiments

# And remember...



The biggest risk is making something that nobody want

# Thank you!



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