

Behaviour-Driven Development

– *it's not the tools*

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What do I do?

Delivering software

Build automation

Test automation

Deployment automation

Implementing software

Test-Driven Development, TDD

Behaviour-Driven Development, BDD

Clean and maintainable code

Mentoring and teaching

DevOps

Developers

What ever is needed

Testers

*Too much Docker and
Kuberenetes lately...*

Behaviour-Driven Development

Test automation

Definition of done

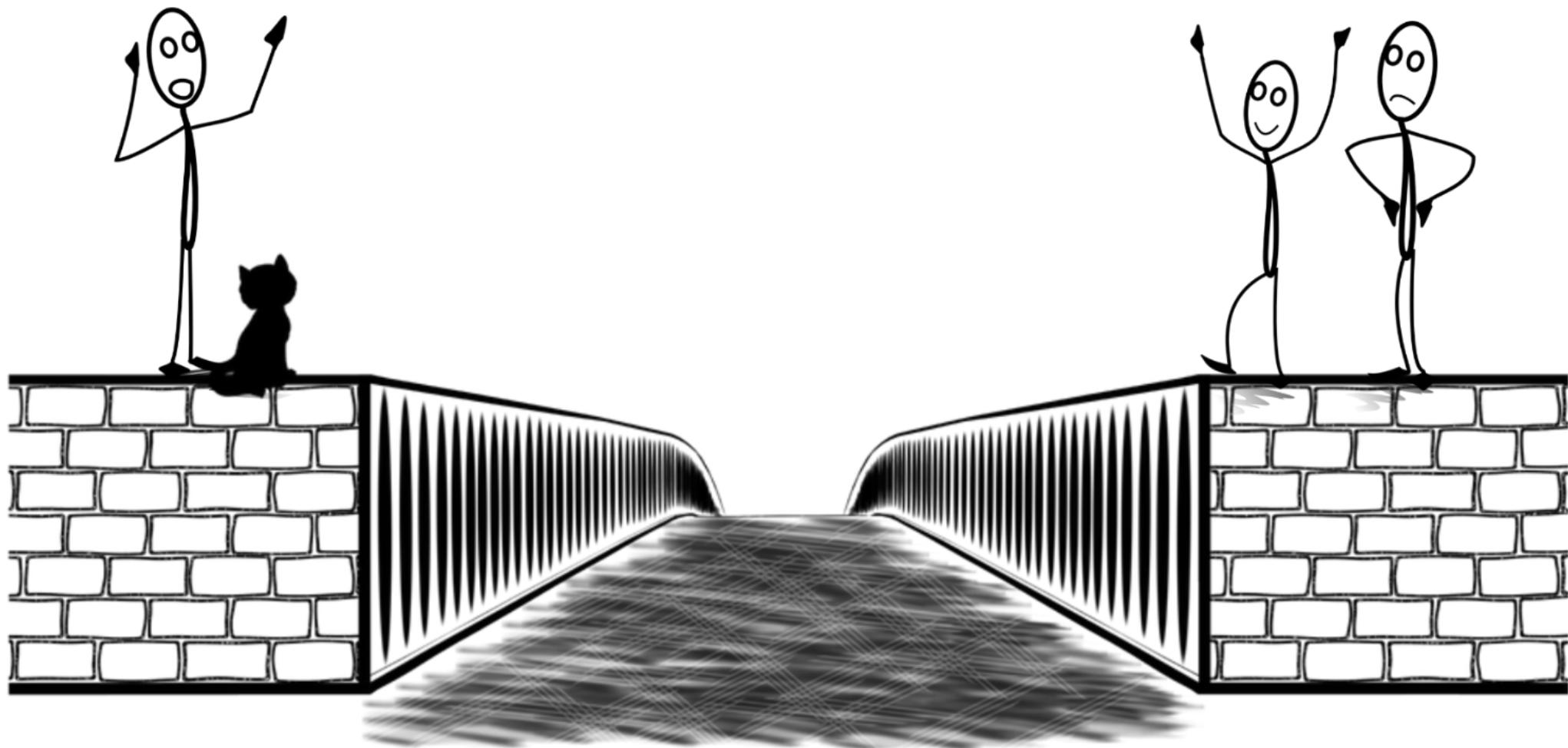
Working software, in production.

Used by real users.



As an industry

We have a problem!



We don't understand each other!

Or we can't hear each other

Goal

Understand what to build

Implement it with confidence

Make it available to our users

Behaviour-Driven Development, BDD

Conversations



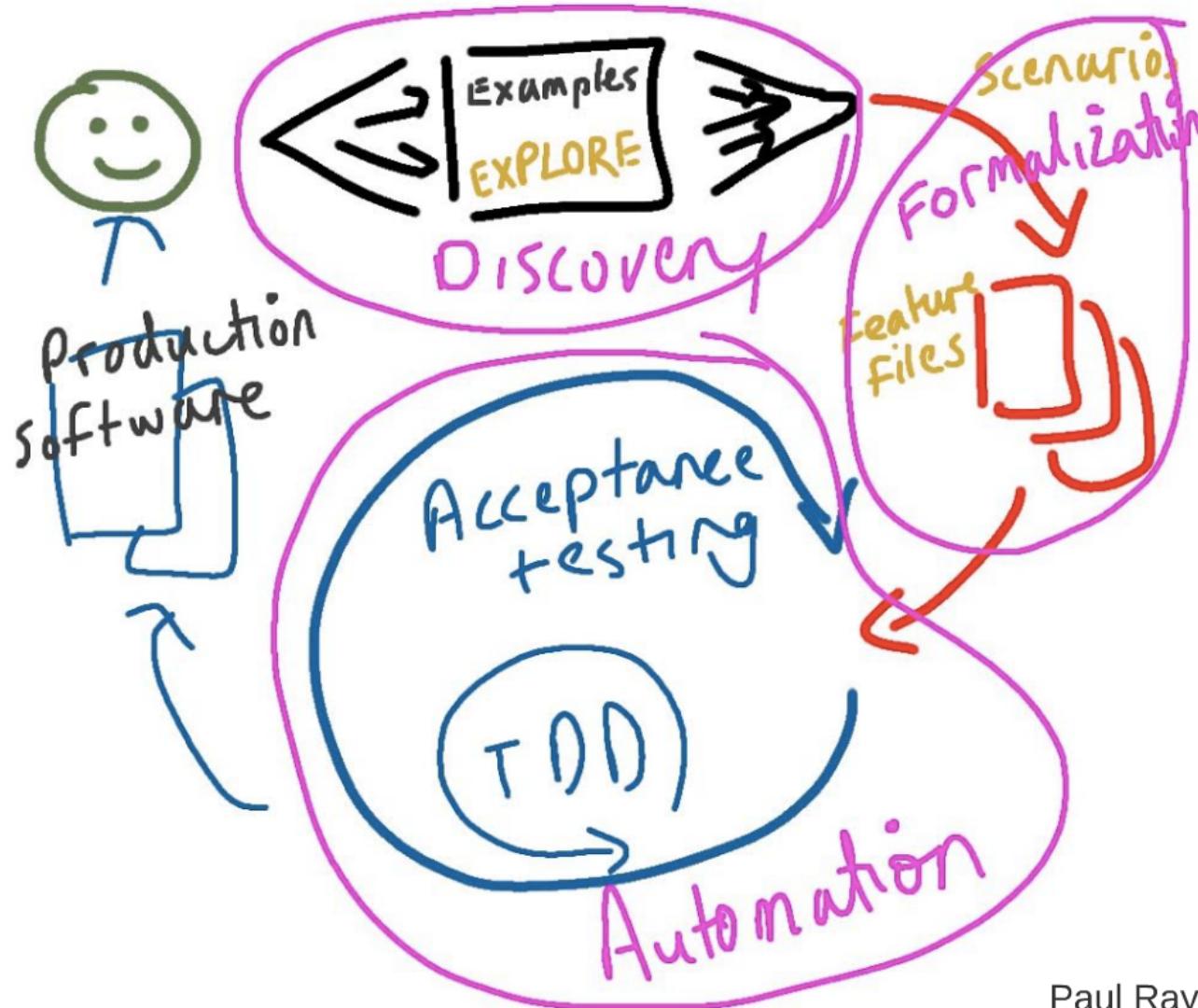
Concrete
examples



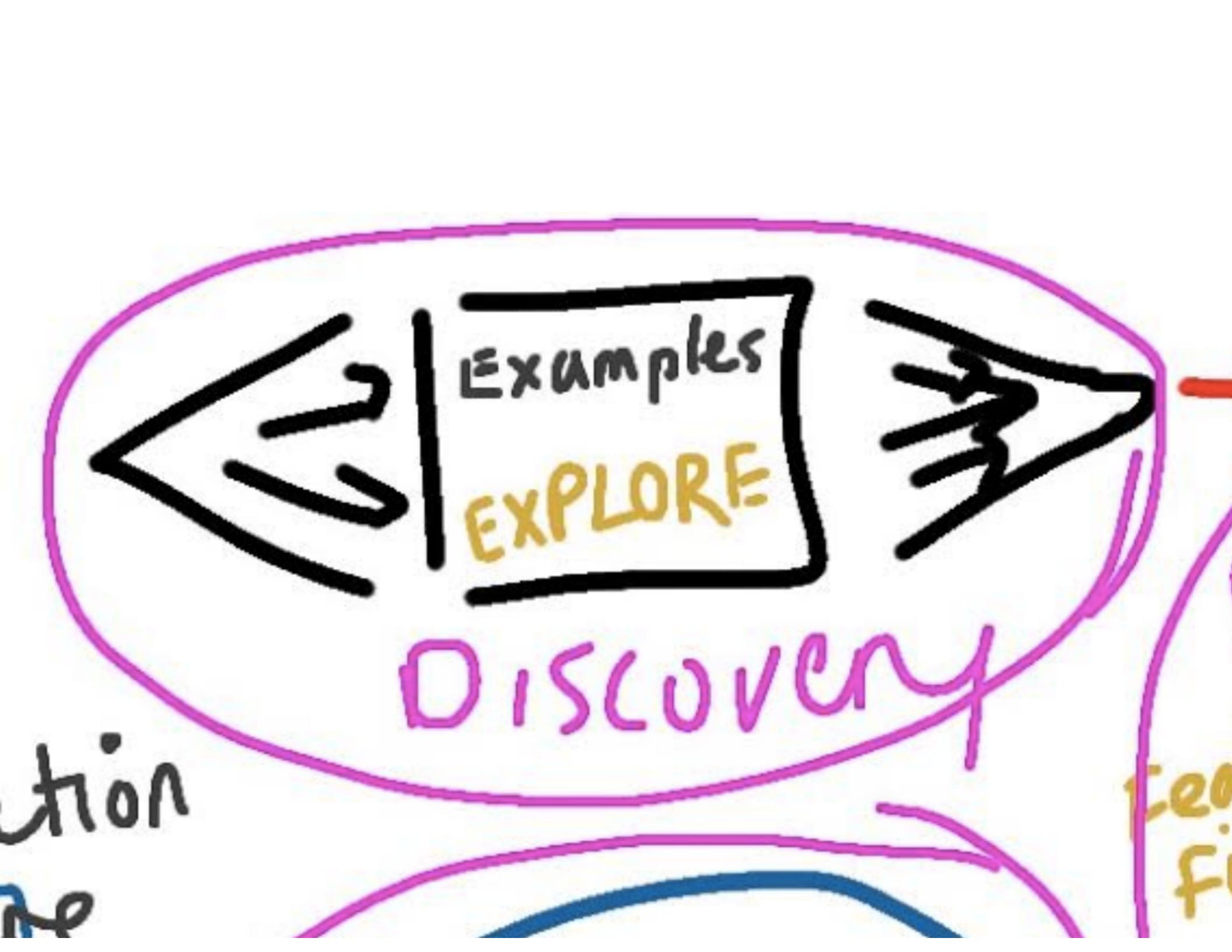
Automated
acceptance
tests



Code



Paul Rayner (@thepaulrayner)



Examples

EXPLORE

Discovery

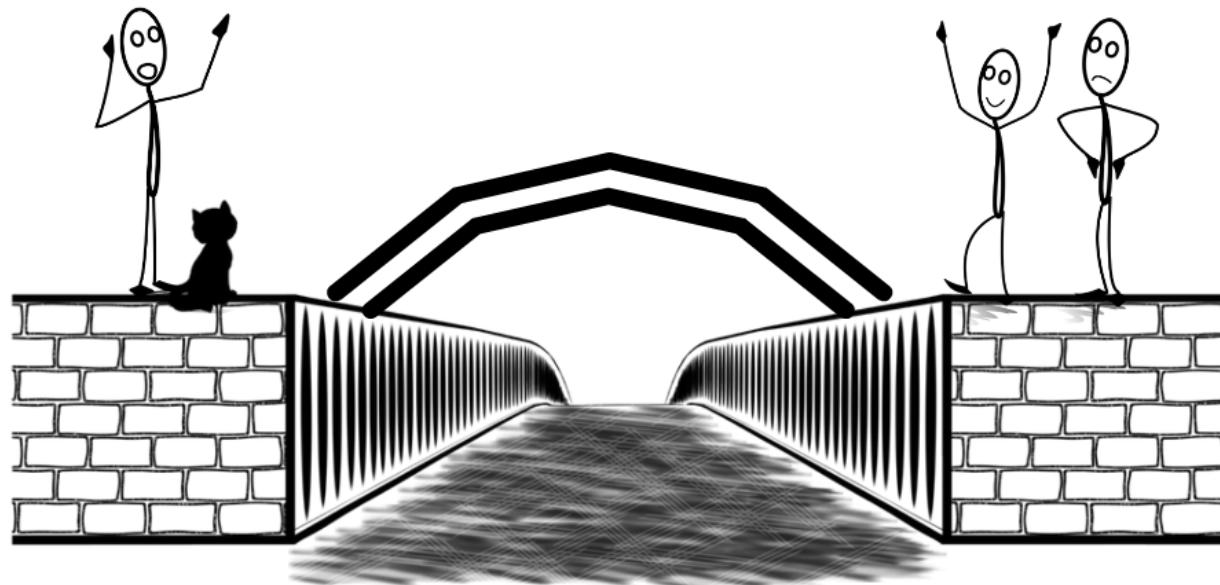
Discovery

Collaboration

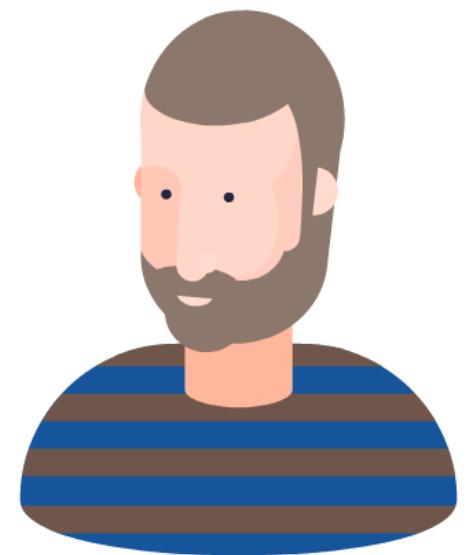
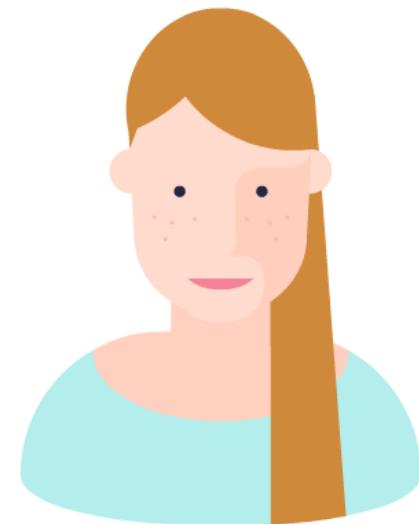
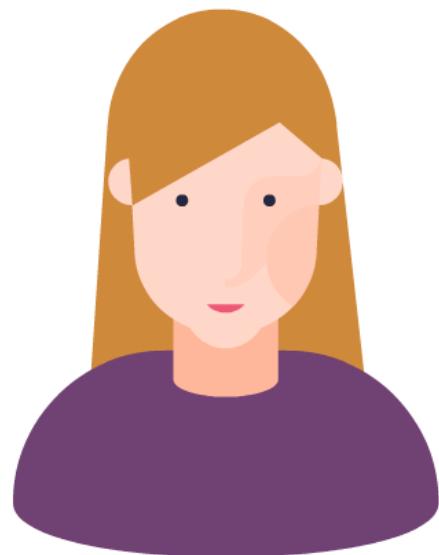
Structured conversations

Shared understanding

Shared understanding



Three amigos



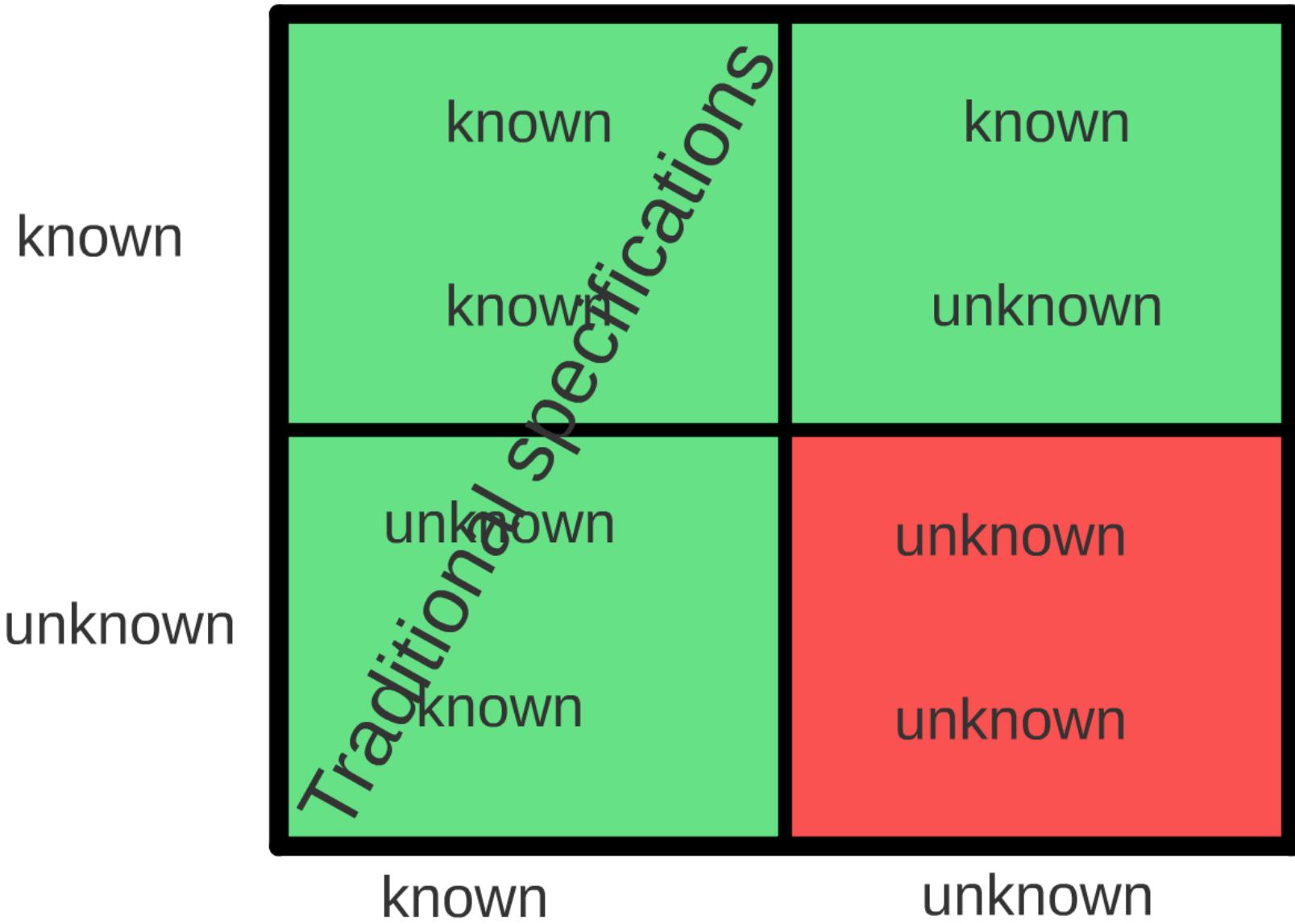
Term coined by George Dinwiddie



Can you give me
an example?

Can you give me
an example?

Developer or Tester



Business analyst

EXAMPLE
MAPPING



Story

Rule

Example

The one where...

Rule

Example

The one where...

Rule

Example

The one where...

Example

The one where...

Question

Question

Question

The anatomy of an example map

Story

As VIP customer
I should get free shipping
when I order five books

Goal

Rules

Free shipping only
applies for books

Scope

Examples

VIP customer orders six
books
get free shipping

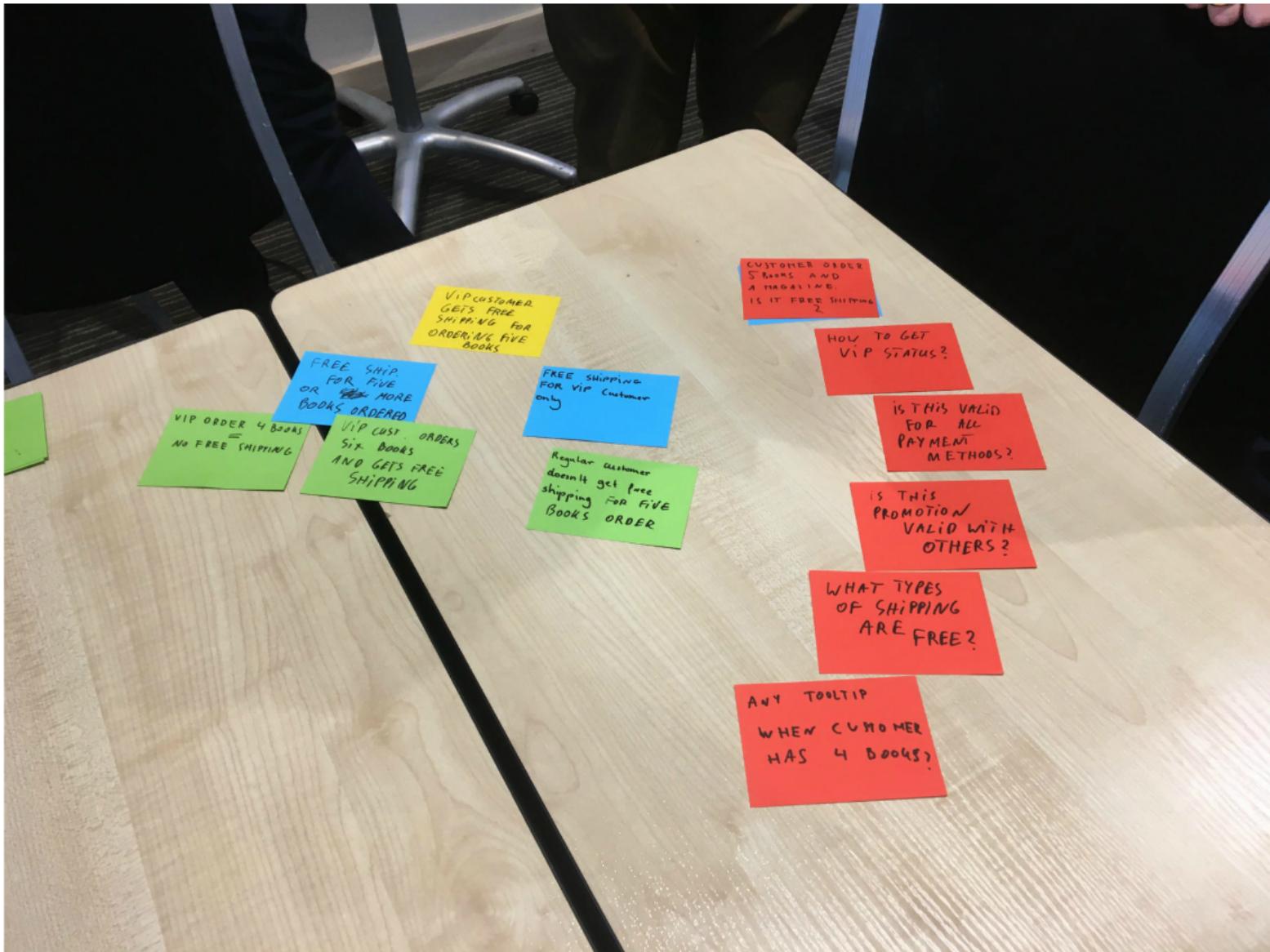
Understanding

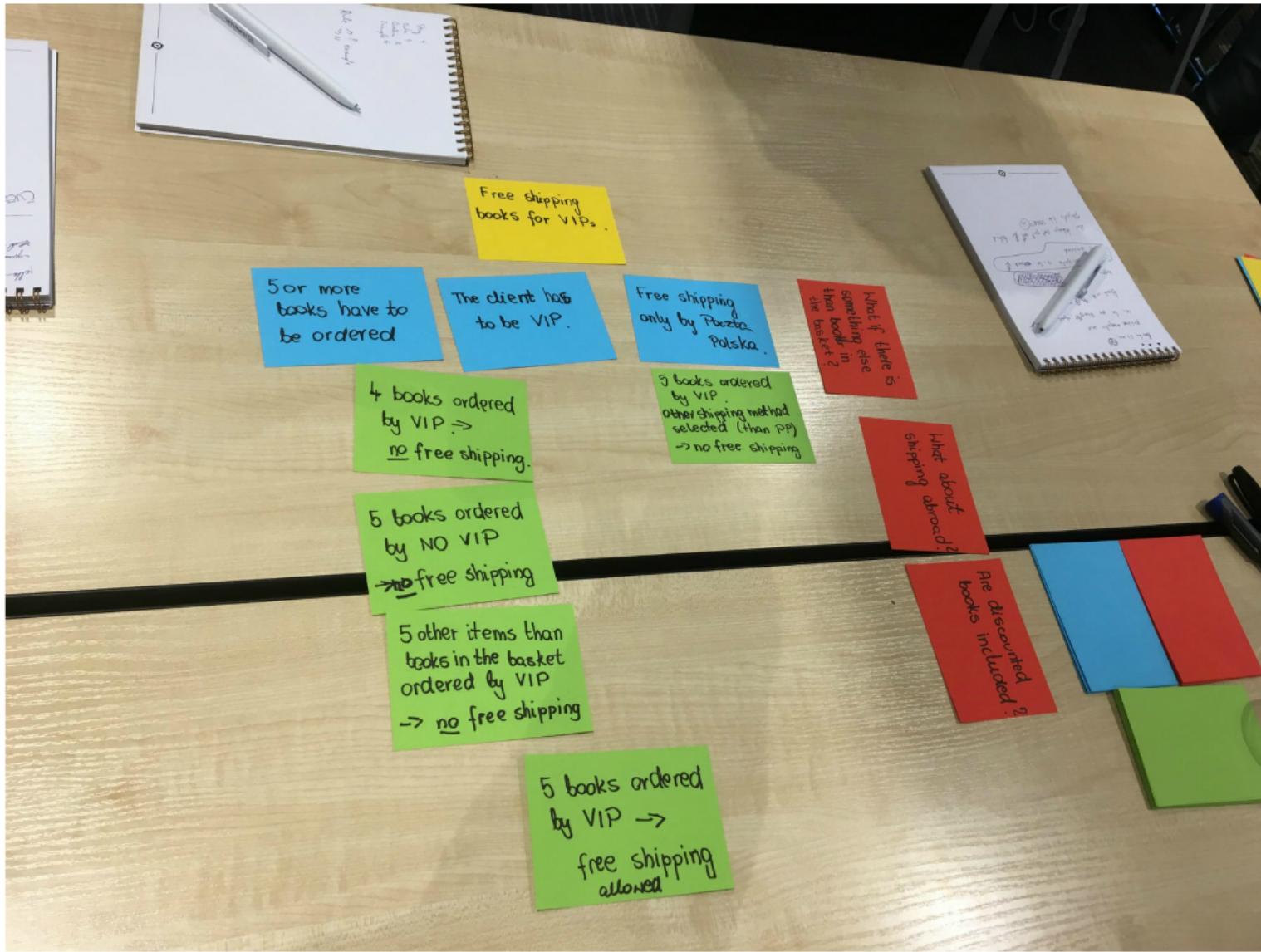
VIP order 4 books
==> no free shipping

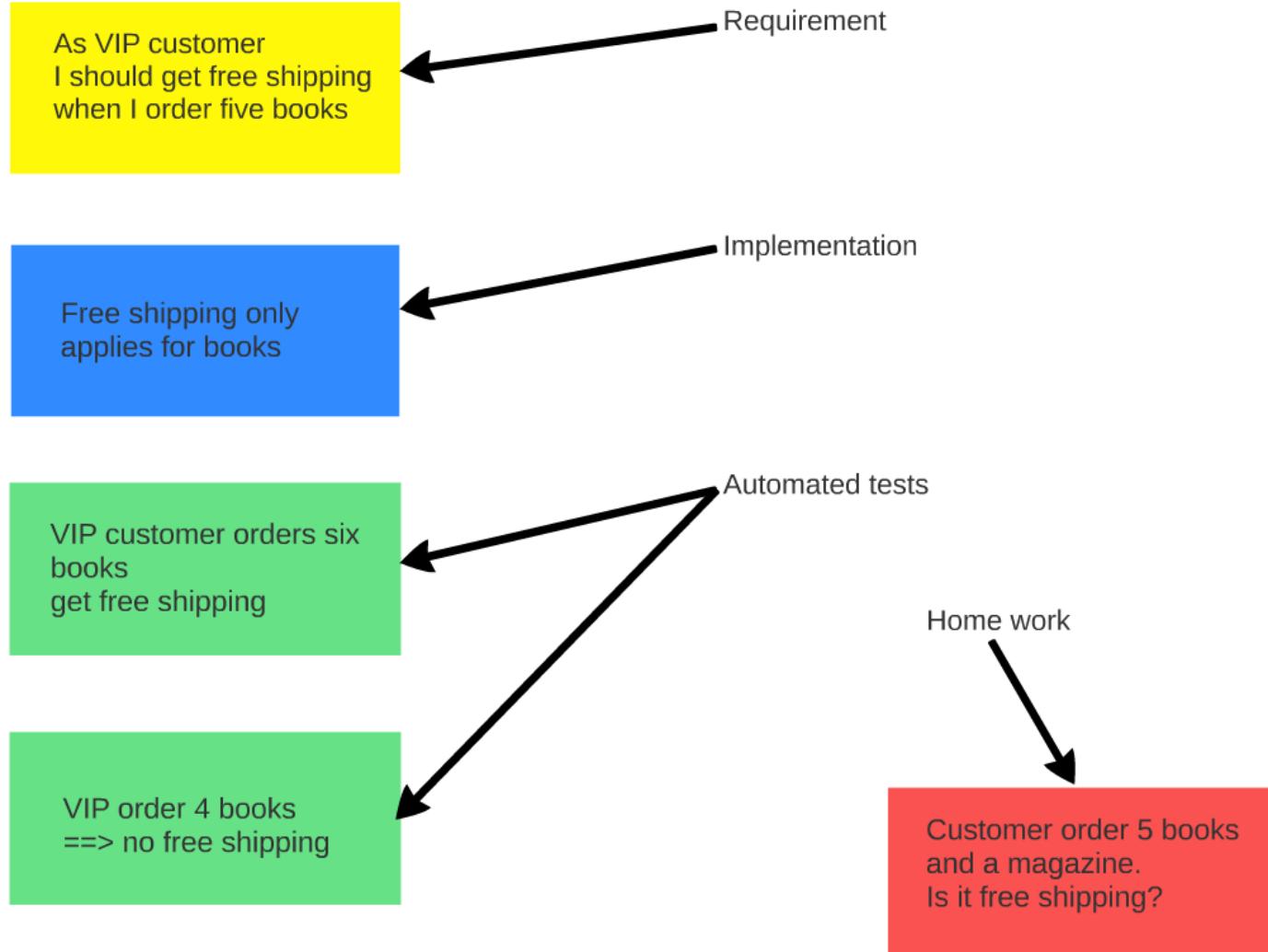
Questions

Customer order 5 books
and a magazine.
Is it free shipping?

New knowledge



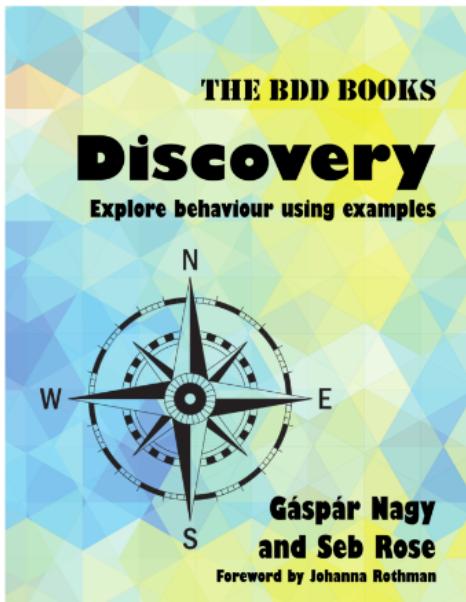




Concrete examples

The one where Thomas remembers
to buy food for the cats

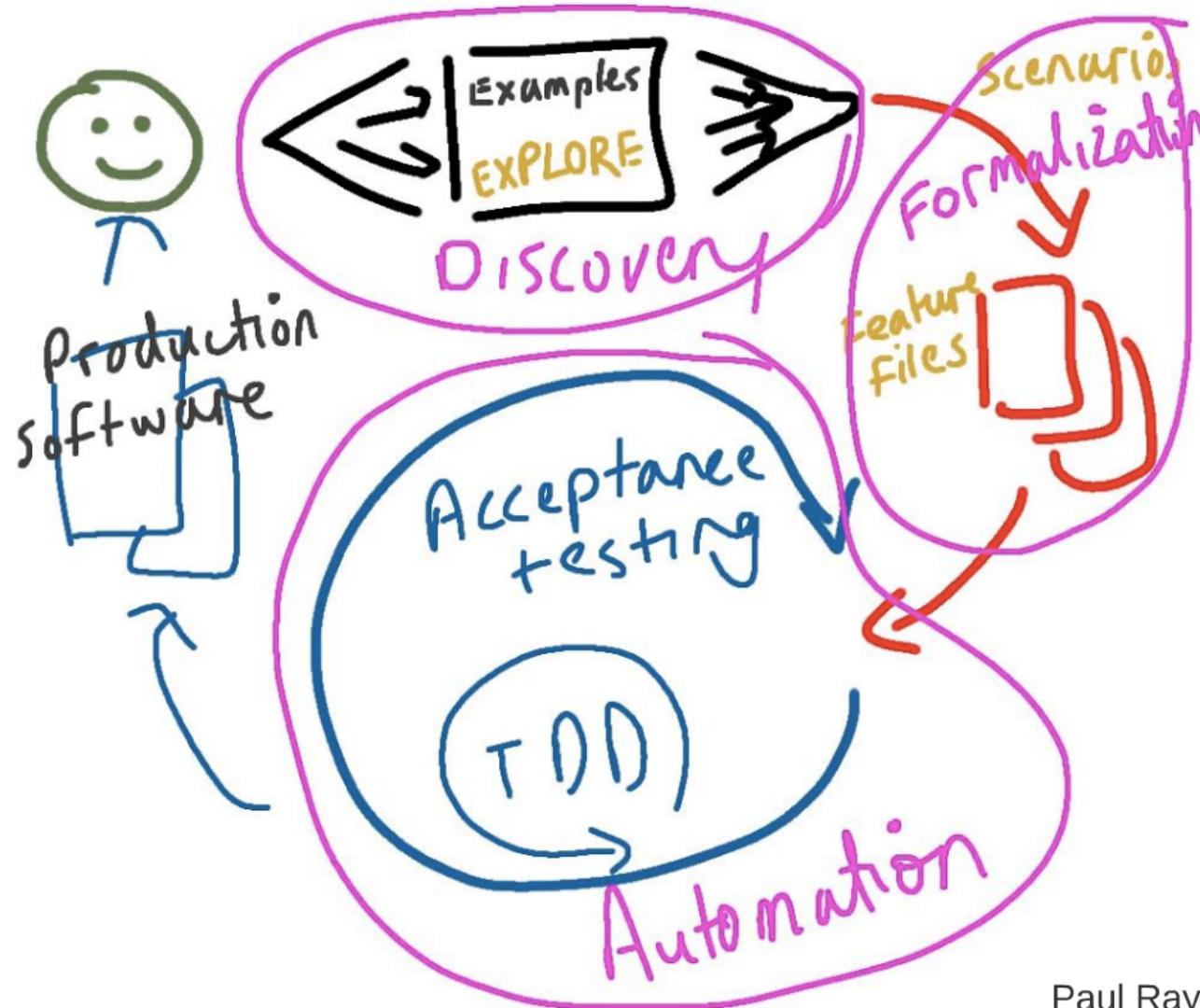
Resources



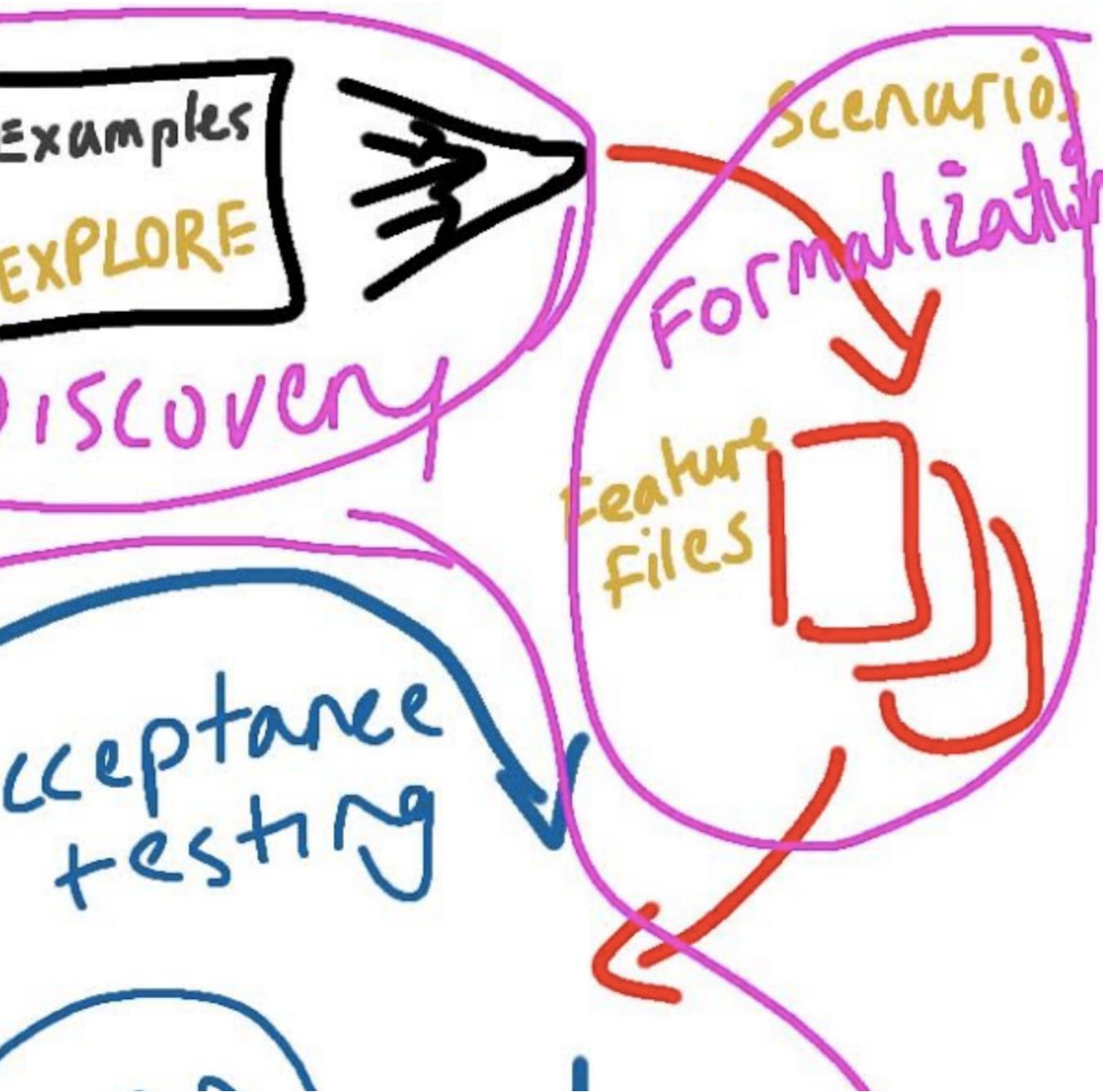
<https://leanpub.com/bddbooks-discovery>



<https://cucumber.io/blog/2015/12/08/example-mapping-introduction>



Paul Rayner (@thepaulrayner)



Formulation

Scenario: Kom ihåg att köpa kattmat

Givet att kattmaten är slut

När Thomas skriver upp köp kattmat på sin att göra-lista

Så ska det stå köp kattmat på hans att göra-lista

This can be implemented as:

```
@Test  
public void should_remember_to_buy_cat_food() {  
    TodoList todoList = new TodoList();  
    todoList.addTask("Thomas", "buy cat food");  
  
    List<String> actualTasks = todoList.getTasks("Thomas");  
  
    assertThat(actualTasks).contains("buy cat food");  
}
```

Can you have a meaningful discussion
about this in your **entire** team?

Including your product owner and tester...

Behaviour-Driven Development, BDD

Conversations

Automated acceptance tests

Concrete examples

Code

Most valuable

Easier



It's the conversations that matters - not the tools
Lisa Crispin

Automated acceptance tests

Code



Easier

conversations that matters - not the tools

An example would be handy

```
# language: sv
```

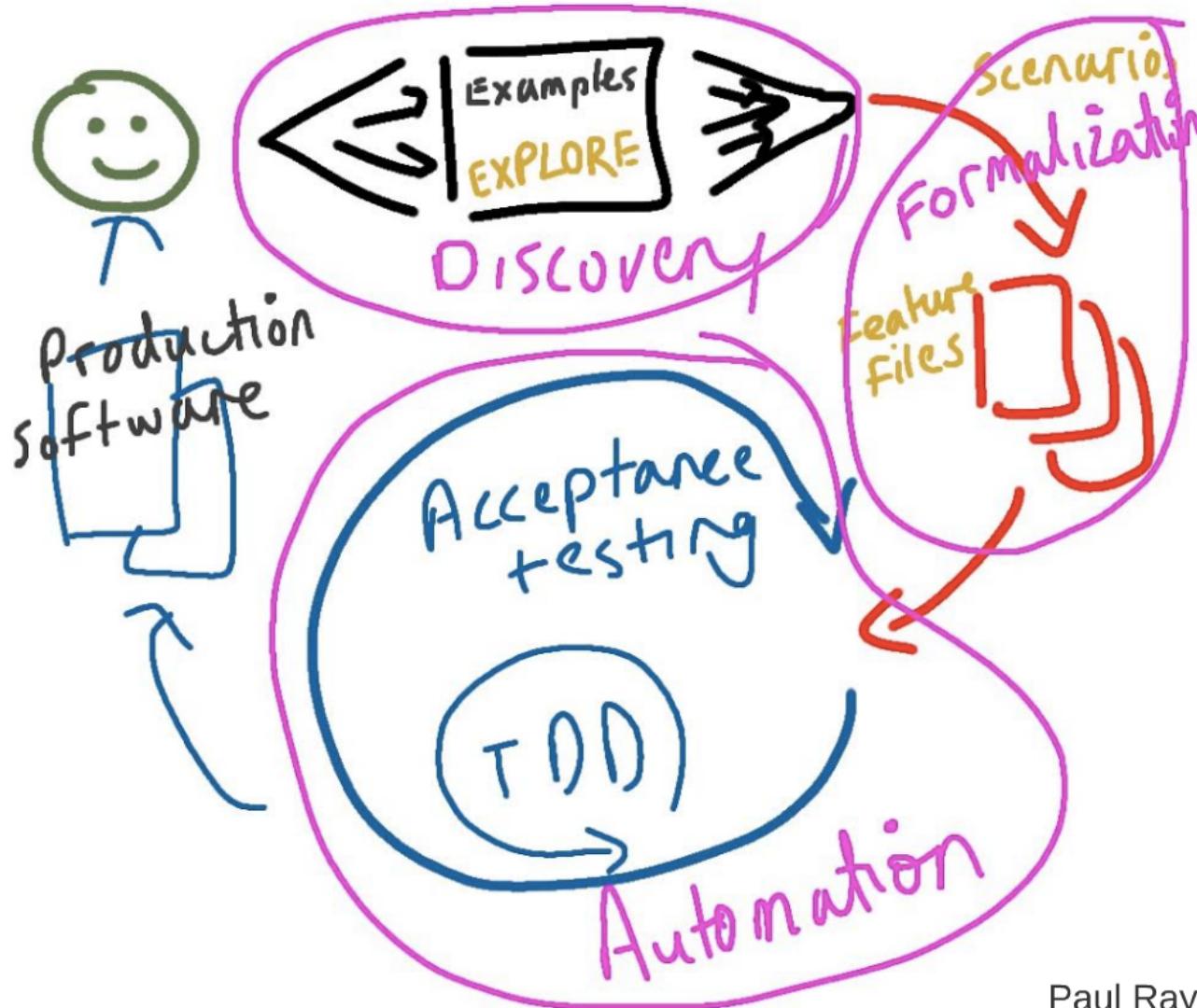
Egenskap: För att komma ihåg saker kan man behöva en lista.

Scenario: Kom ihåg att köpa kattmat

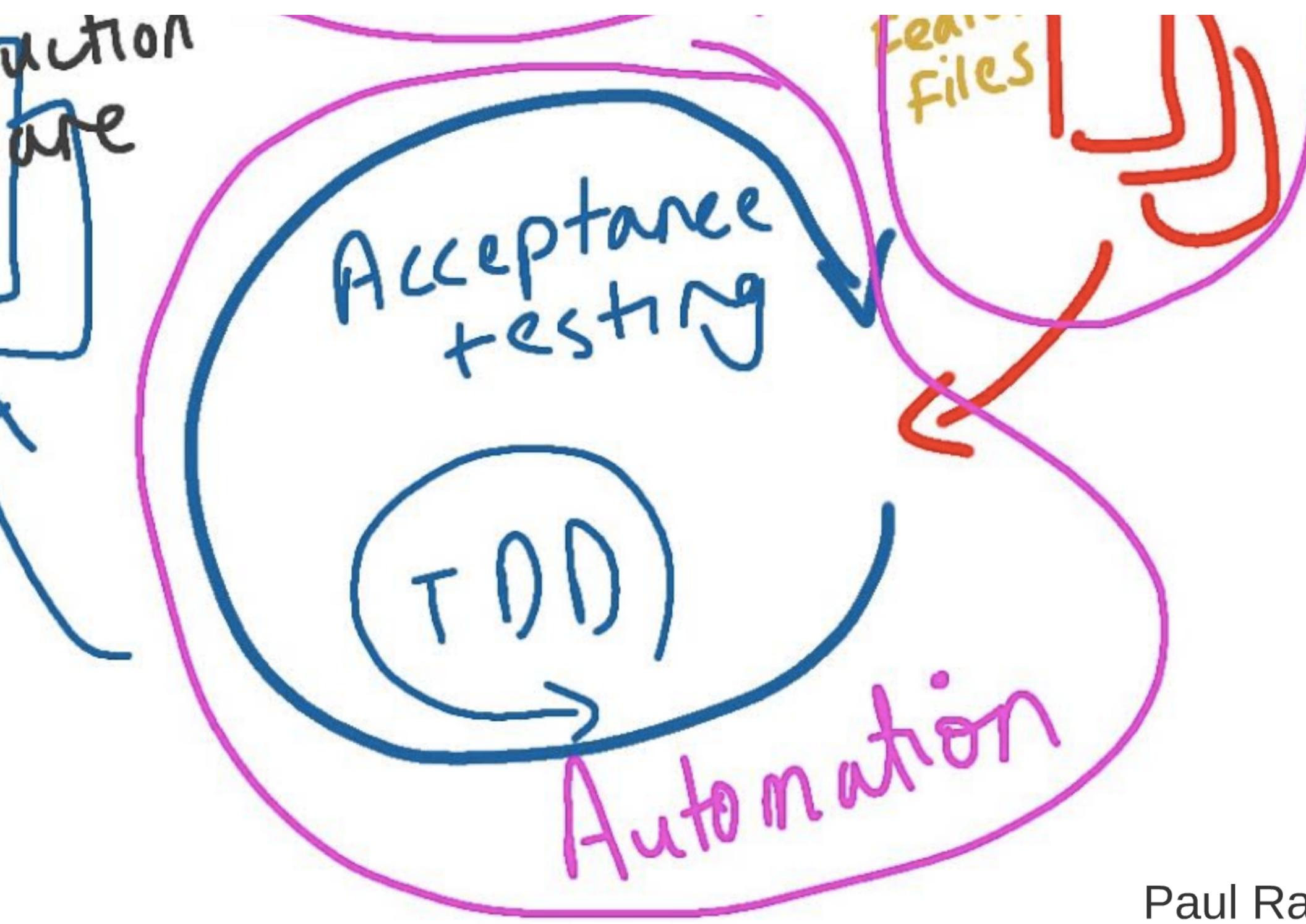
Givet att kattmaten är slut

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Så ska det stå köp kattmat på hans att göra-listan



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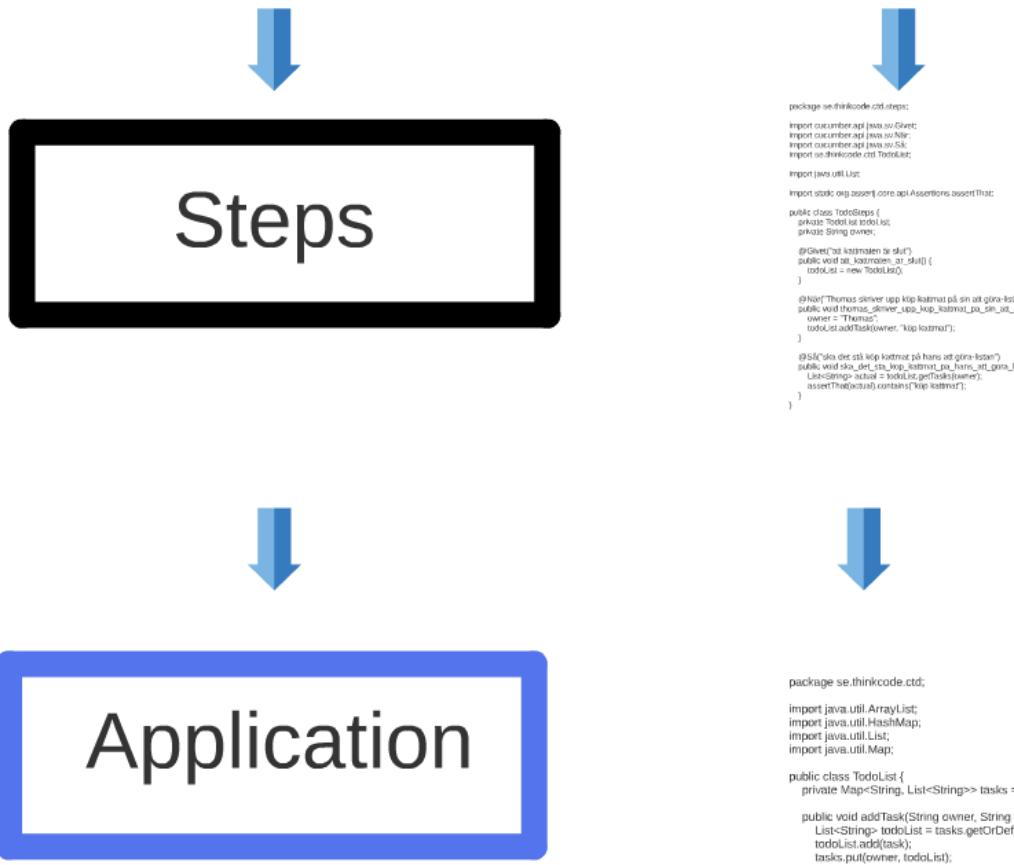


Paul Ra

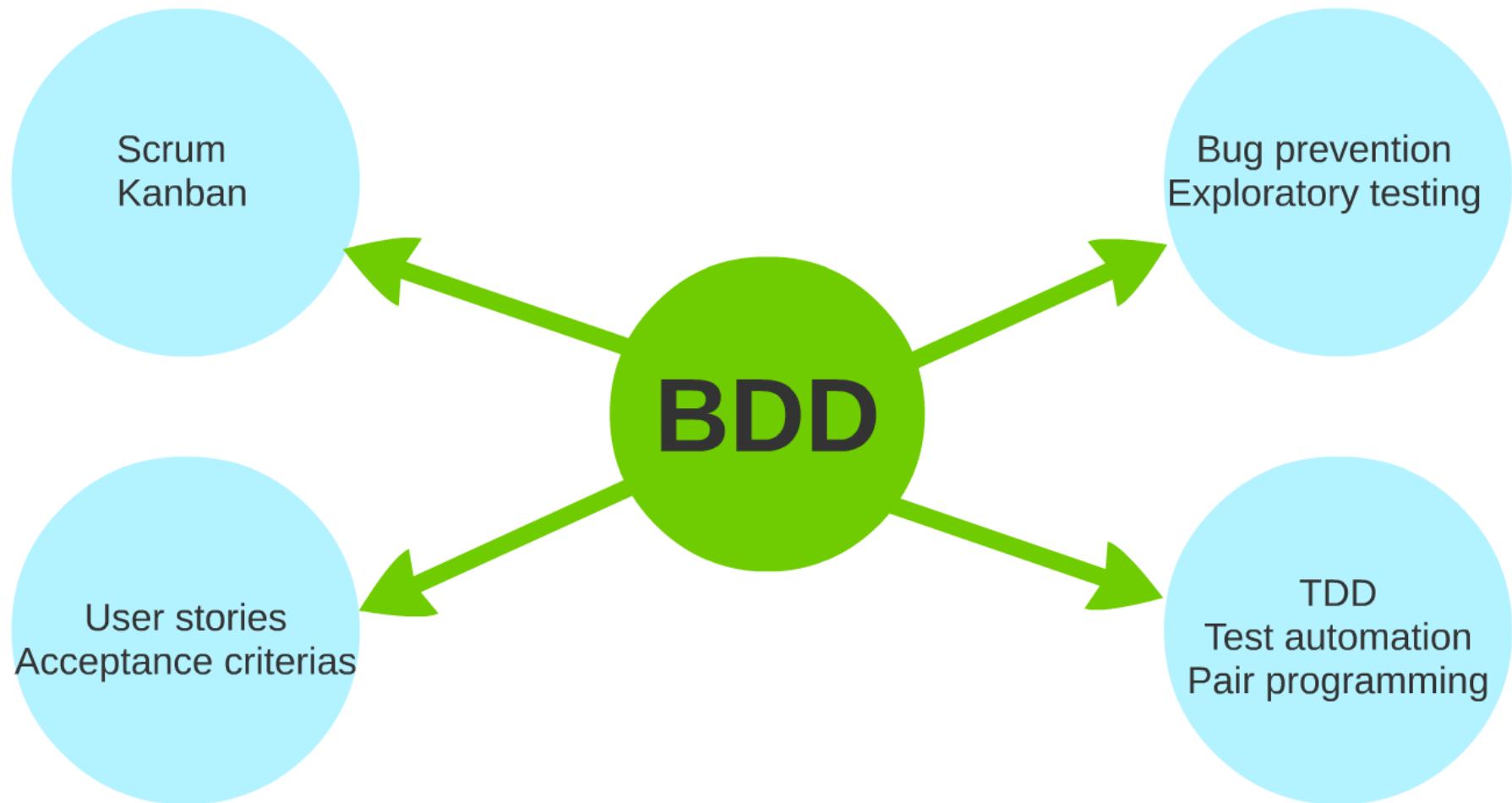
Demonstration

Gherkin

- # language: sv
- Egenskap: För att komma ihåg saker kan man behöva en lista.
- Scenario: Kom ihåg att köpa kattmat
Givet att kattmaten är slut
När Thomas skriver upp köp kattmat på sin att göra-lista
Så ska det etå känna kattmaten på hans att göra-listan



BDD supports software development with a hands on approach



Conclusion

Behaviour-Driven Development, BDD, is:

A tool for communication



Test automation



Living documentation

The example: <https://github.com/tsundberg/todo-at-ctd>

Behaviour-Driven Development

vill du lära dig mer?

BDD Kickstart 22 - 23 maj, Stockholm

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