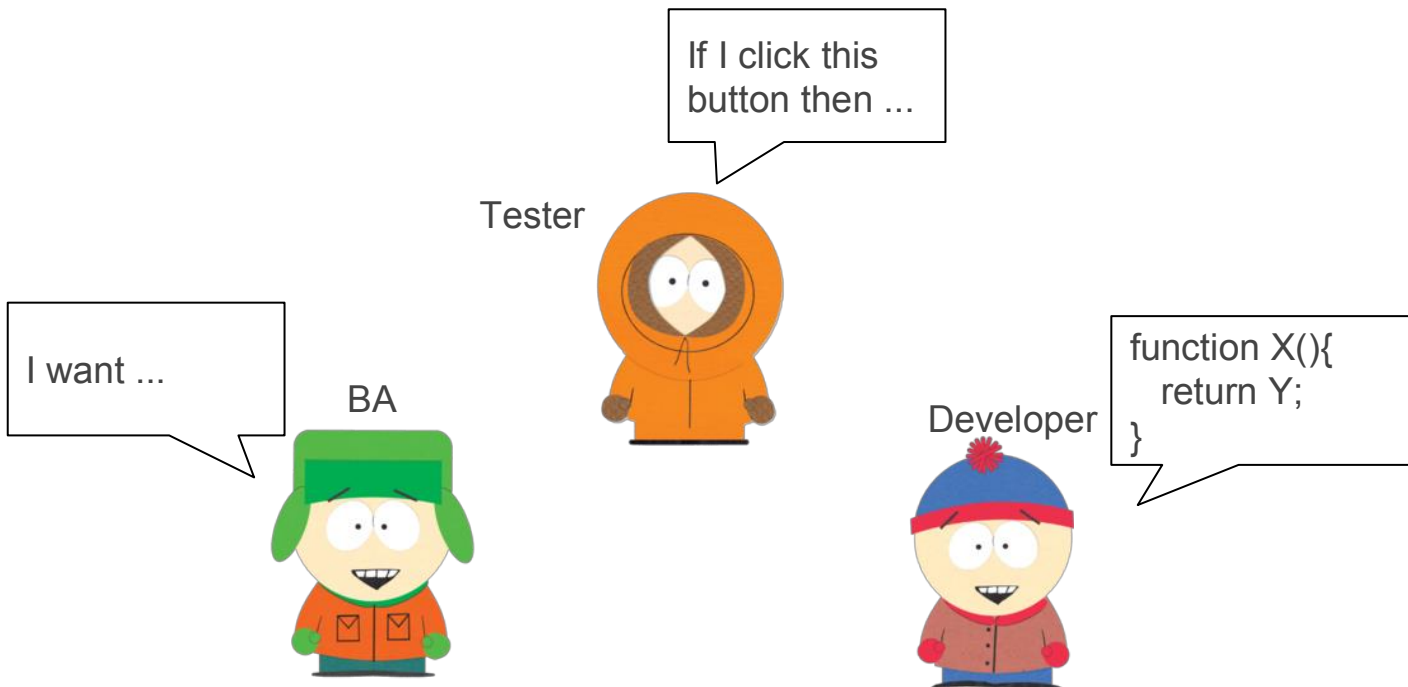


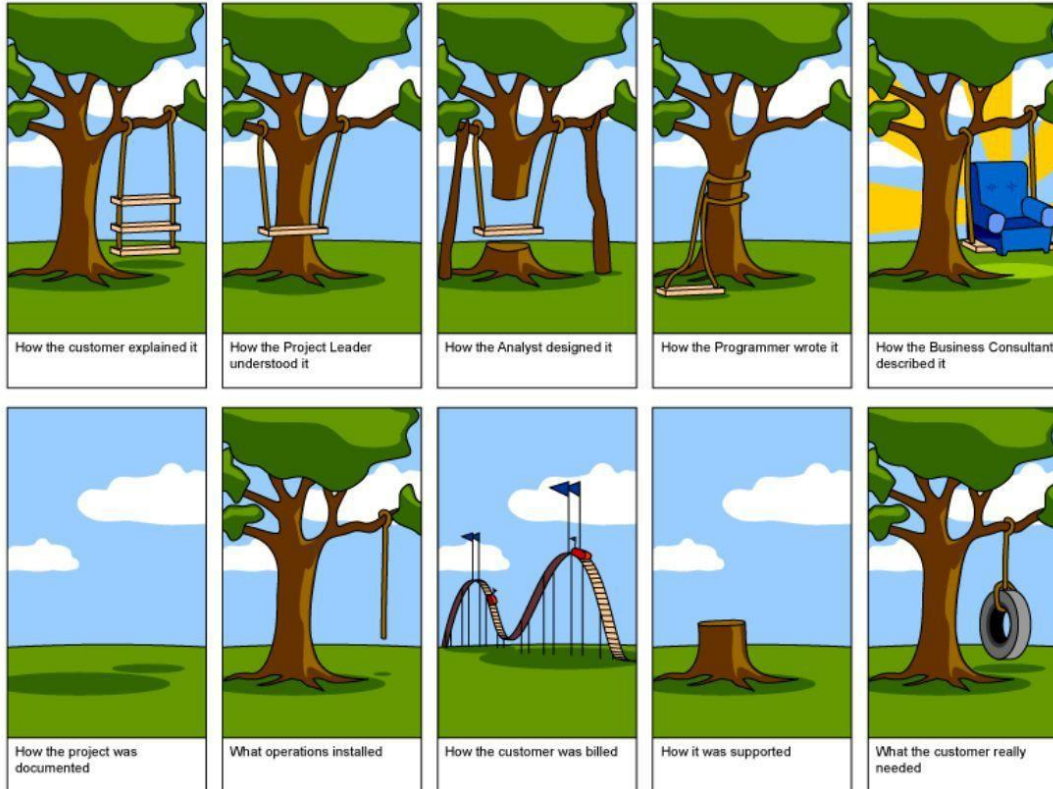
Agenda

- Introduction to BDD
- Cucumber BDD framework
- Pros/cons of BDD

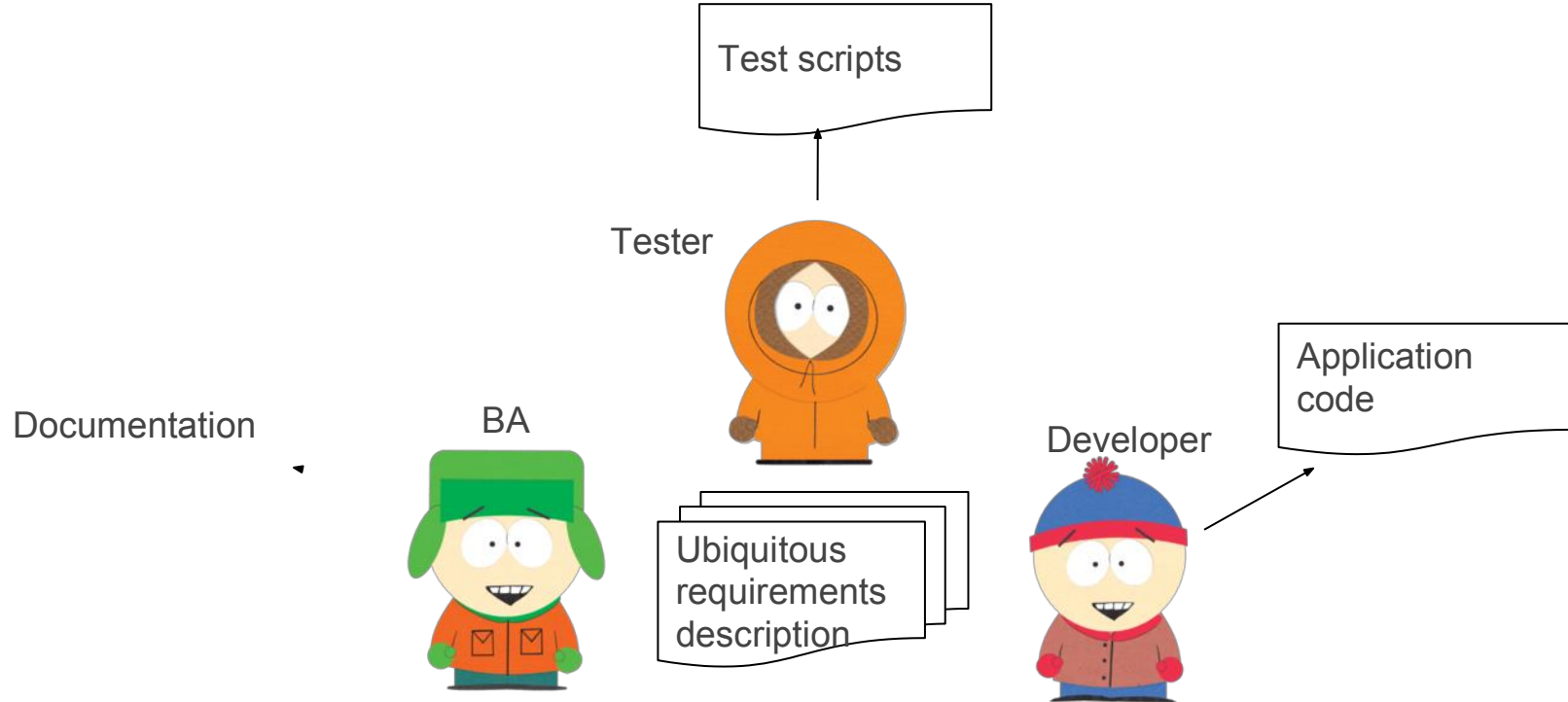
Introduction to BDD



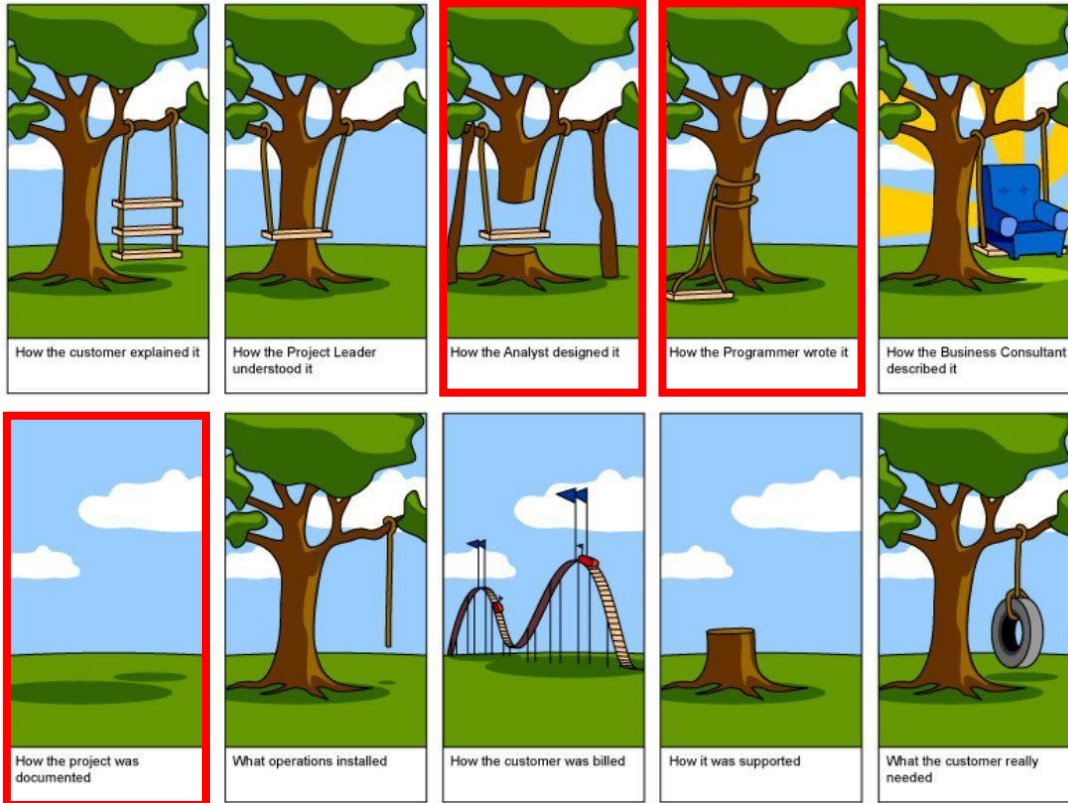
Introduction to BDD



Introduction to BDD



Introduction to BDD



Introduction to BDD

Story (feature):

As a [role] **I want** [feature] **so that** [benefit]

Example: **As a** customer **I want** to withdraw money from an ATM **so that** I don't have to go to the bank

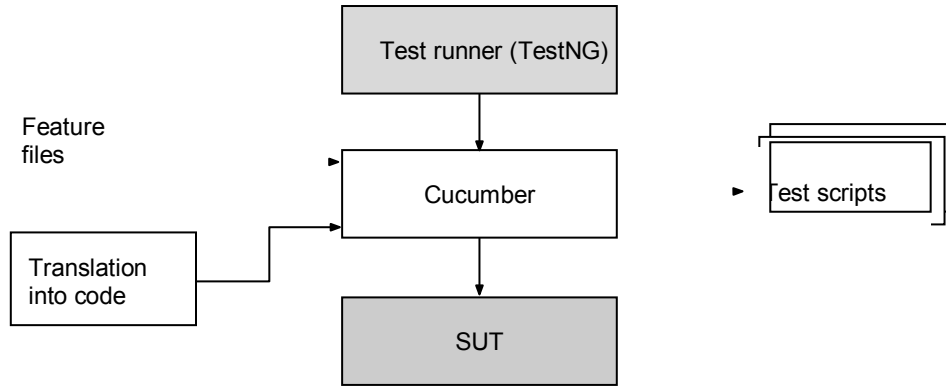
Introduction to BDD

Story acceptance criteria (scenario):

Given [initial context] **when** [event] **then** [outcomes]

Example: **Given** there is enough money on my account **when** I make a withdrawal **then** I get the expected amount of money from the ATM

Cucumber BDD framework



Cucumber: Gherkin logic

Gherkin logic

Feature: Withdraw money

In order to avoid going to the bank

As a customer

I want to withdraw money from an ATM

Scenario: Withdraw less money than the account has

Given there is enough money on my account

When I make a withdrawal

Then I get the expected amount of money from the ATM

And receipt is printed

Cucumber: parametrization

Gherkin logic

Scenario: Withdraw less money ...

Given I have 200 SEK on my account

When I withdraw 100 SEK

Then I get 100 SEK from the ATM

Scenario: Withdraw more money ...

Given I have 50 SEK on my account

When I withdraw 100 SEK

Then I get 0 SEK from the ATM

Scenario: Withdraw money from the account

Given I have <balance> SEK on my account

When I withdraw <withdraw> SEK

Then I get <received> SEK from the ATM

Examples:

	balance	withdraw	received
	200	100	100
	50	100	0

Cucumber: annotations

Gherkin logic

@prod

Scenario: Withdraw less money ...

Given I have 200 SEK on my account

When I withdraw 100 SEK

Then I get 100 SEK from the ATM

@test

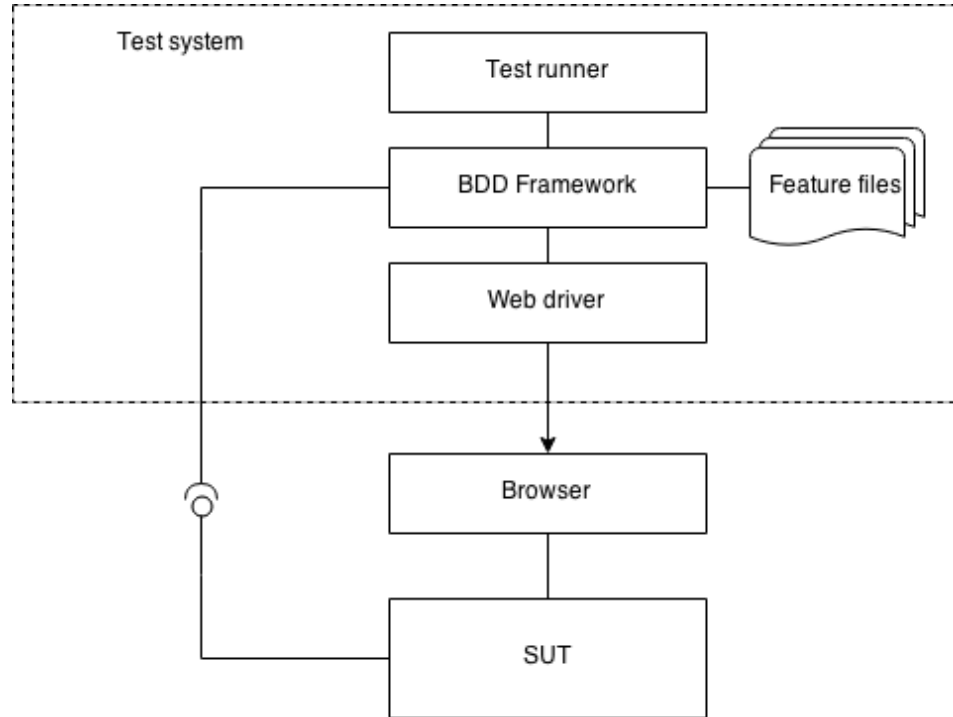
Scenario: Withdraw more money ...

Given I have 50 SEK on my account

When I withdraw 100 SEK

Then I get 0 SEK from the ATM

BDD for complex systems

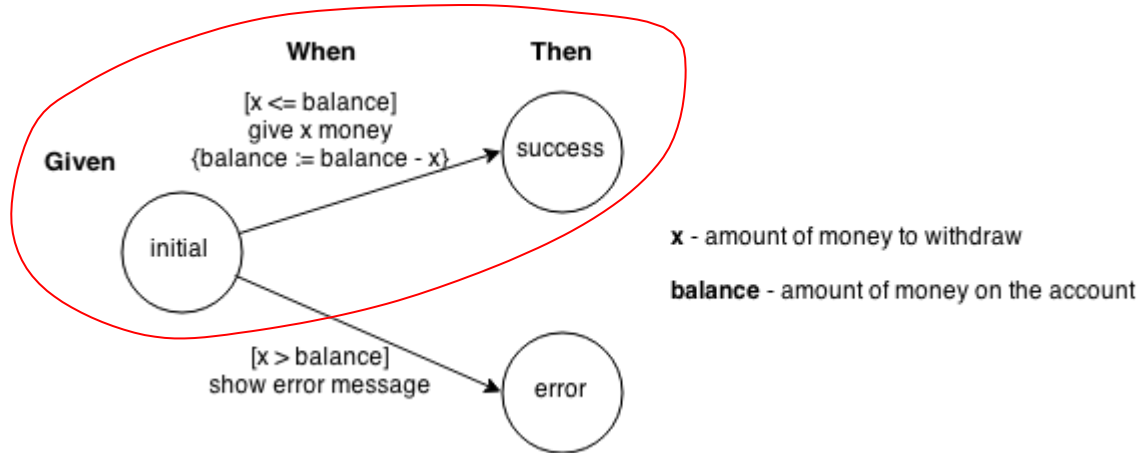


Pros/cons of BDD

- Level of abstraction for steps?
- Becomes complex for complex systems
- Lack of tool support

P.S. BDD in a context of FSM

Given I have 200 SEK on my account **when** I withdraw 100 SEK **then** I get 100 SEK from the ATM



References

Cucumber framework:

<https://cucumber.io/>

How BDD can be misused:

<https://cucumber.io/blog/2014/03/03/the-worlds-most-misunderstood-collaboration-tool>