



Are you trustworthy?

The essence of an effective agile-team

We will use live poll.

Please go to

www.tinyurl.com/goto2017





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and ask questions.**



About us



Alexander Hafstad Larsen

Frontend engineer aka ng-neer
Angular community
Nordic Angular conference



Philip Juhl

Technical coach for agile-teams
Test-first development style

3RF *kredit*

Trustworthy developer

A software developer who is trusted by team-members who are not software developers.

Ex. Between software developer and software testers

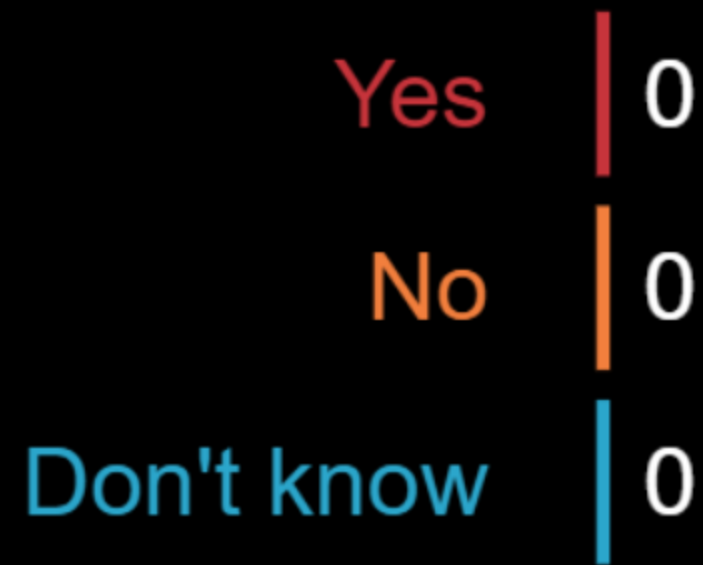
Question for you

Are you trustworthy?

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Question for you

Are you a trustworthy software developer?



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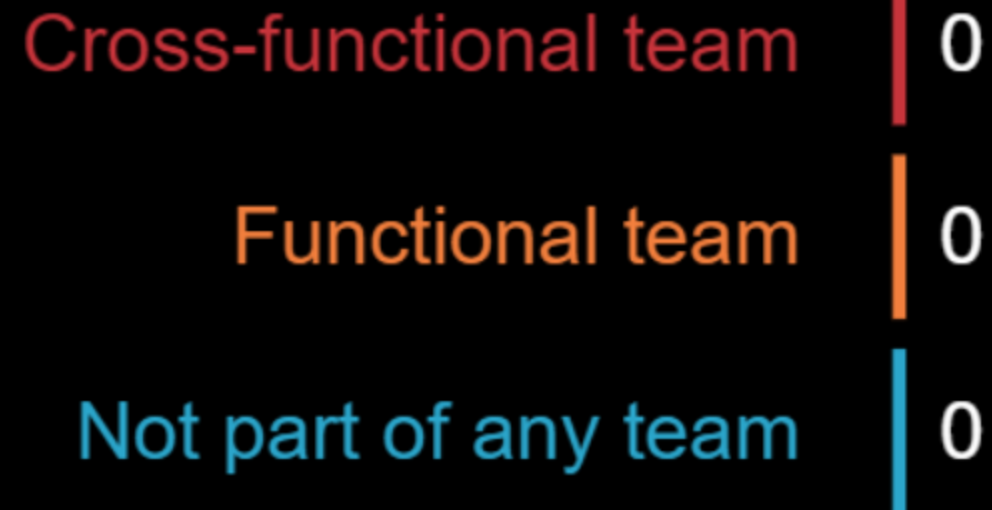
0 votes - 0 participants

Our Crossfunctional team



Question for you

Do you work in a functional or cross-functional team?



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0 votes - 0 participants



CHALLENGES

Hard to work on a single user story

Hard to get the benefits of automated tests



**Too many user stories
- in progress**



Consequences

- Difficult to embrace change
- Missing team synergy
- Hard to balance the demand for different competences
- Increased context switch for team-members
- Not releaseable

During a sprint

User stories	Story 1	Story 2	Story 3
ToDo	<div>B</div> <div>B</div> <div>B</div>	<div>B</div> <div>D</div> <div>B</div> <div>D</div>	<div>D</div> <div>B</div> <div>B</div> <div>D</div>
In progress	<div>B</div>		
Done	<div>D</div> <div>D</div>		

Development

Business

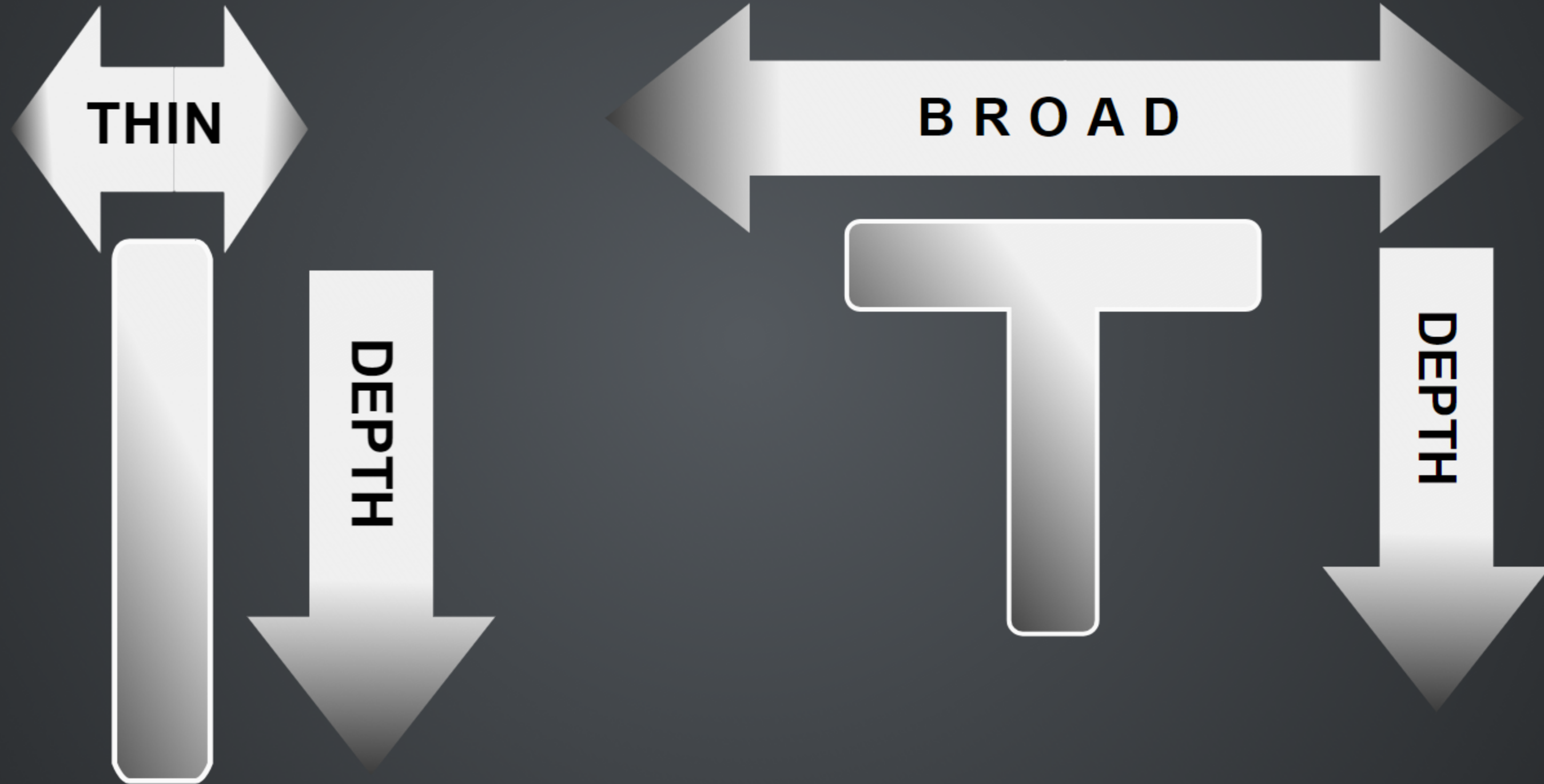
After a sprint

User stories	Story 1	Story 2	Story 3
ToDo			B B
In progress	B	B	D
Done	D D B B B	D D B	D

Development

Business

I- and T-Shaped skills



Common tasks

User stories	Story 1	Story 2	Story 3
ToDo	<div>B</div> <div>C</div> <div>C</div>	<div>B</div> <div>D</div> <div>C</div> <div>D</div>	<div>D</div> <div>C</div> <div>B</div> <div>D</div>
In progress	<div>B</div>		
Done	<div>D</div> <div>D</div>		

Development

Common

Business

Common tasks

User stories	Story 1	Story 2	Story 3
ToDo			D C
In progress			D B
Done	D C D B B C	D D C B	

Development

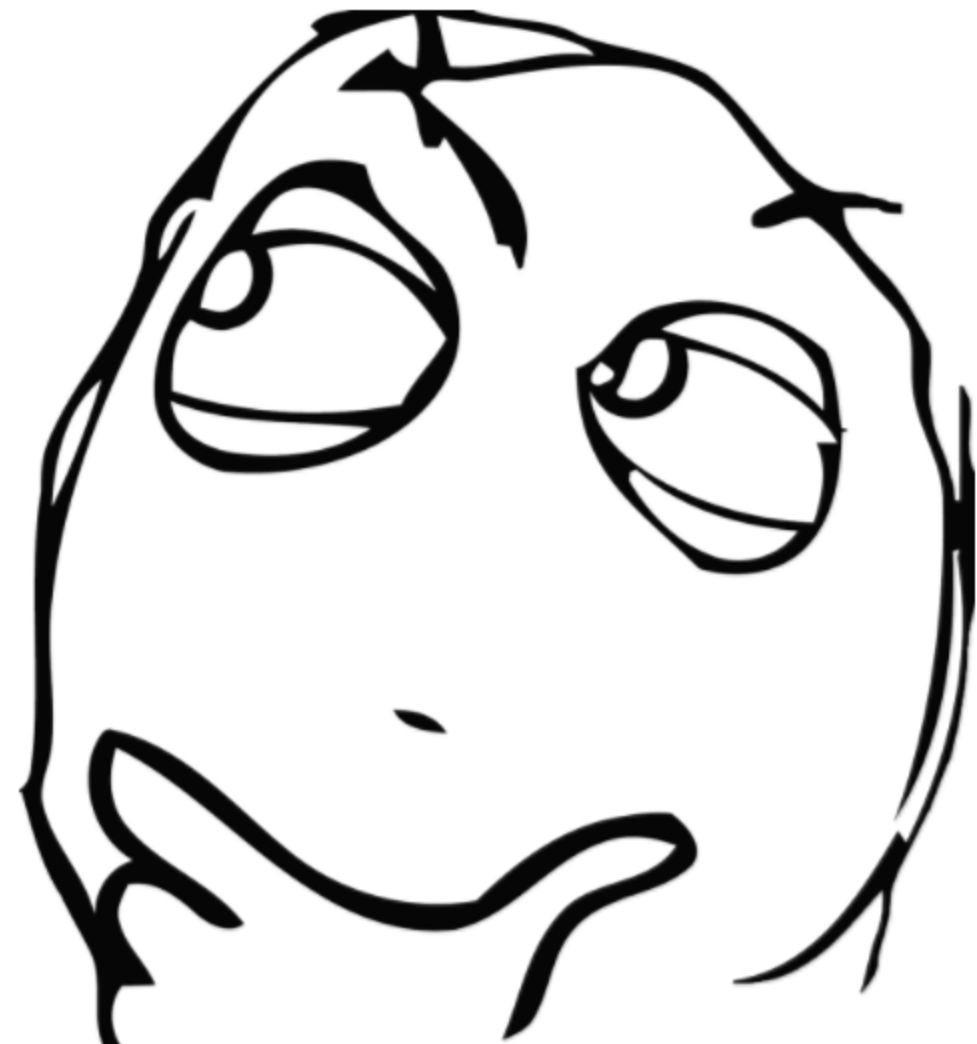
Common

Business



Automated tests

```
describe('when called with an anonymous observer', () => {  
  it('should accept an anonymous observer with just a next function and call the next function in the context' +  
    ' of the anonymous observer', (done: MochaDone) => {  
    //intentionally not using lambda to avoid typescript's this context capture  
    const o = {  
      myValue: 'foo',  
      next: function next(x) {  
        expect(this.myValue).to.equal('foo');  
        expect(x).to.equal(1);  
        done();  
      }  
    };  
  
    Observable.of(1).subscribe(o);  
  });  
});
```



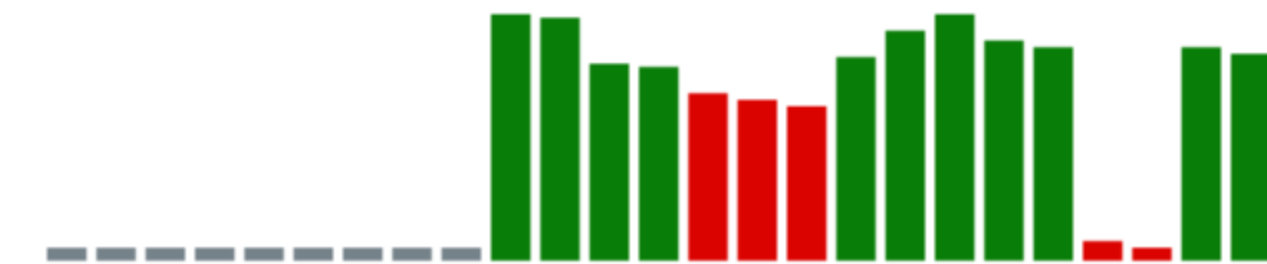
Continuous Integration

UI Build



✓ 9/26/2017

API Build



✓ 9/26/2017

Code Coverage

77.6

Percent

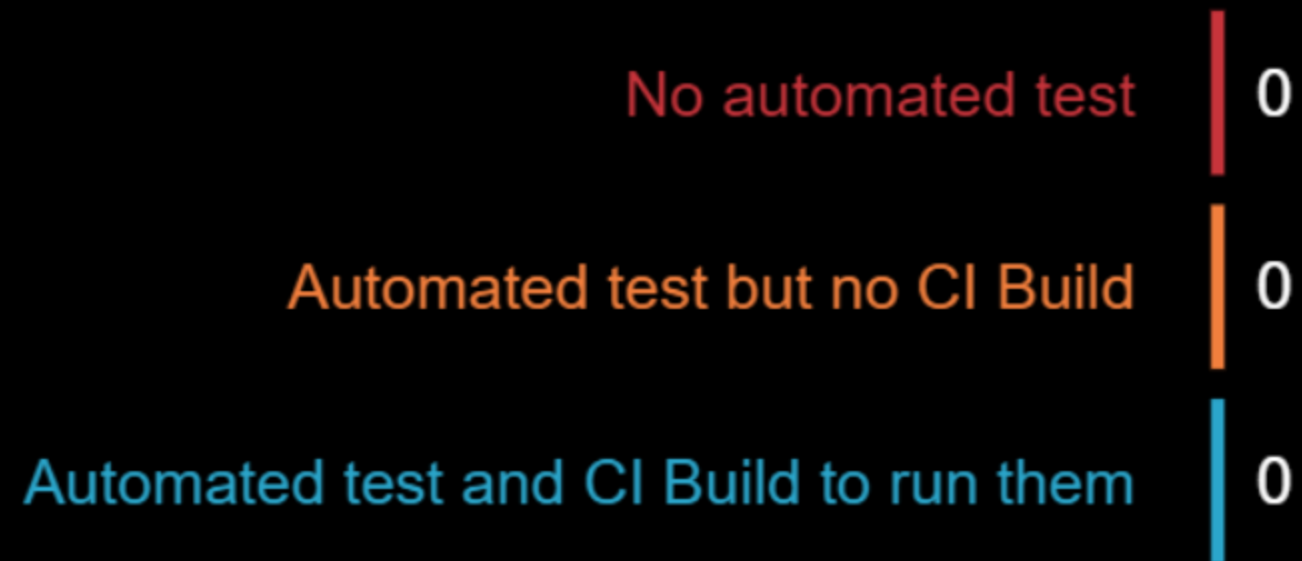
Code Coverage

32.6

Percent

Question for you

Do you have automated test and CI Build?



Please go to www.tinyurl.com/goto2017

0 votes - 0 participants

All teammmembers have
focus on test. But
testing-terms are not
common

Testing-methods

Unit test

End to end test

Integration test

Acceptance test

UI test

User test

Functional test

Blackbox test

Smoke test

Non-functional test

Gherkin

Feature: Account Holder withdraws cash

Scenario: Account has sufficient funds

Given the account balance is \$100

And the card is valid

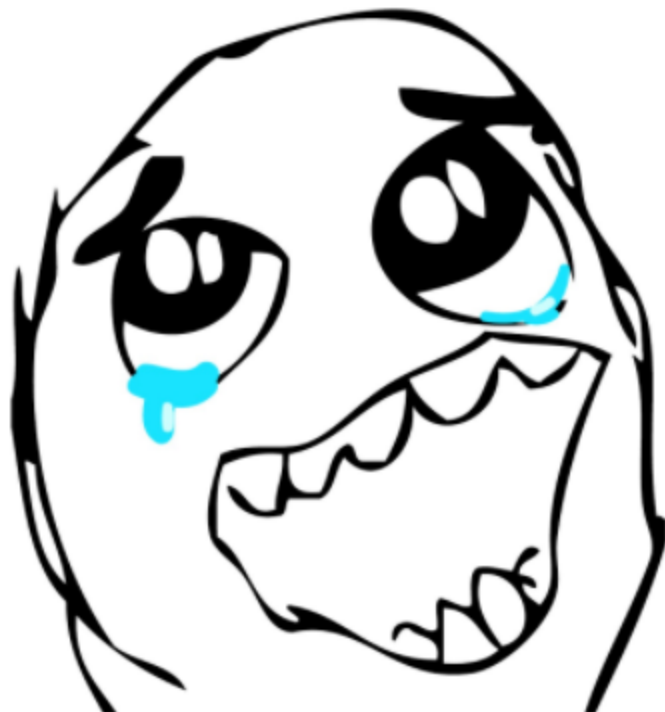
And the machine contains enough money

When the Account Holder requests \$20

Then the ATM should dispense \$20

And the account balance should be \$80

And the card should be returned



Specification by example

Talk together
about specifications



Write and
organize specifications



Automate
specifications

Access to the Specifications

Features

@tag or feature name

Search

Clear

Show Overview

Navigation Links

Specifications

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Ejendomme på Mine lån

Ejendomme kunden kan se på ejendomsoversigten og som kunden kan selvbetjene sig på

@ignore

Kunden skal være tilknyttet ejendommen som ejer af ejendommen i DOMUS

Givet kunden har følgende <tilknytning>

Så skal ejendommen <vises?>

Eksempler:

tilknytning	vises?
ejer	vises
kautionsist	ikke vises

@ignore

Ejendommen skal være tilknyttet forretningsområdet 'privat' i DOMUS

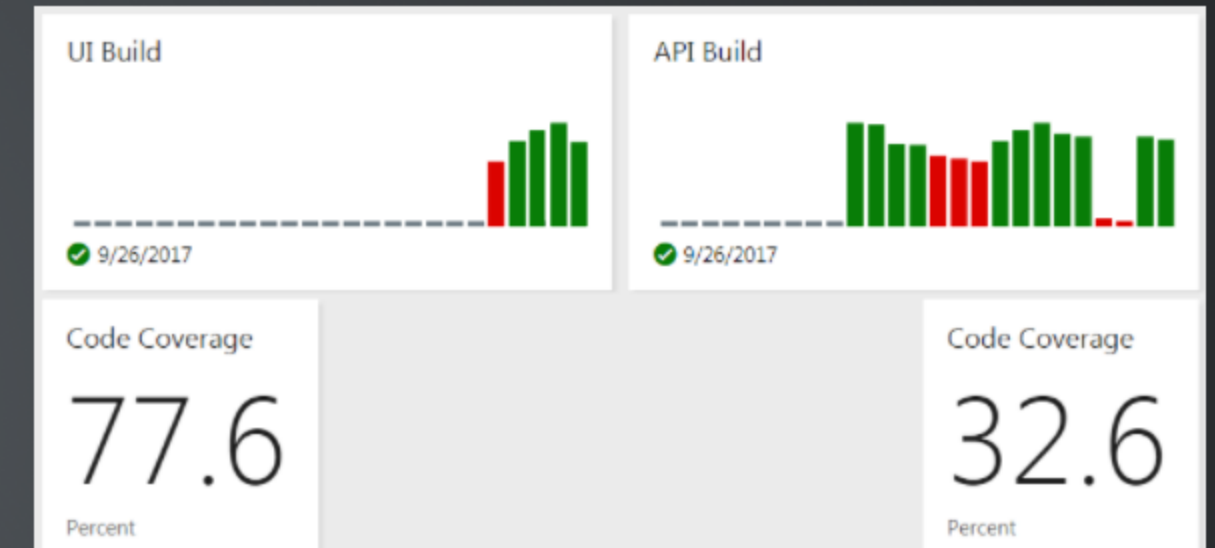
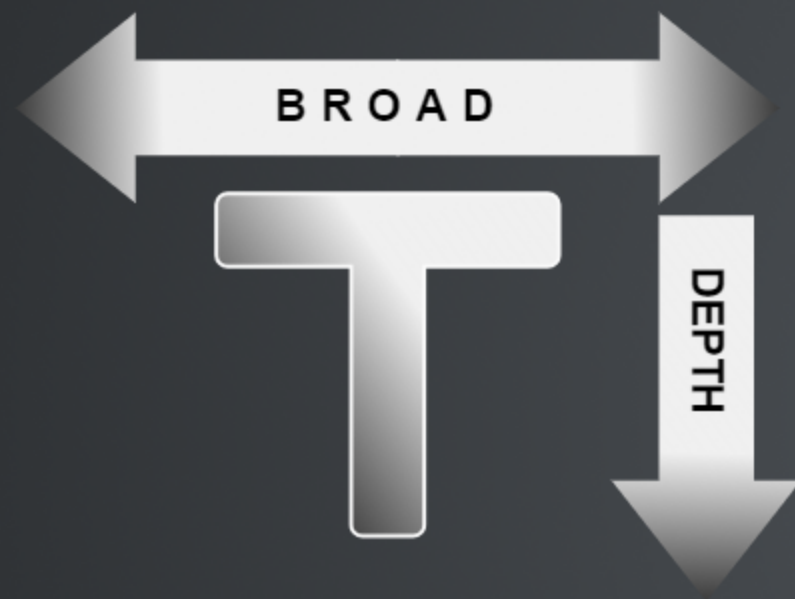
Givet ejendom er tilknyttet <forretningsområde> i DOMUS

Så skal ejendommen <vises?>

Eksempler:

forretningsområde	vises?
privat	vises
erhverv	ikke vises

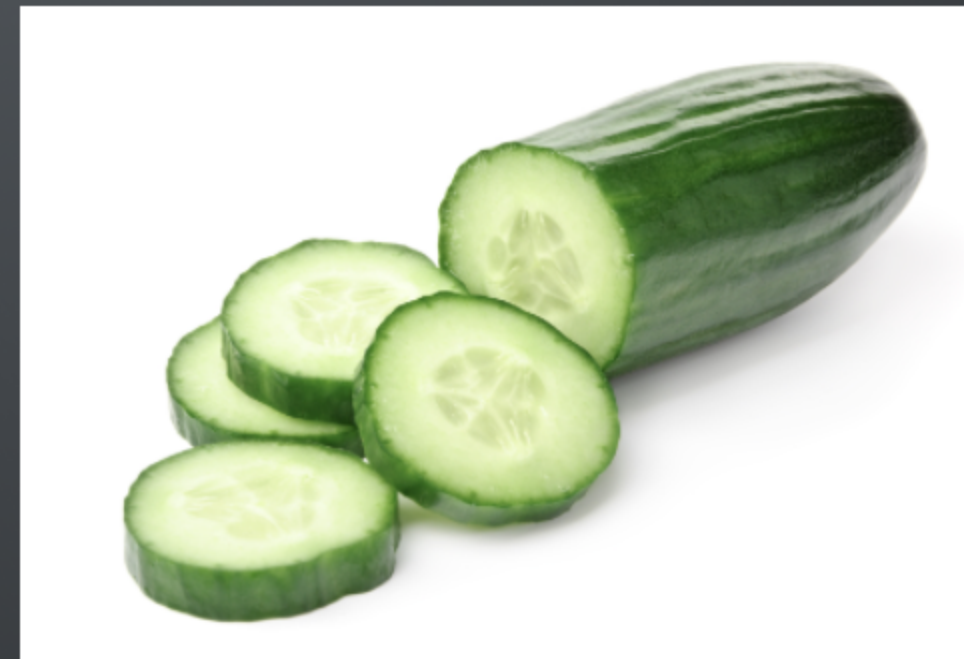
Looking back, what have we learned



Smoke test

Unit test

UI Test

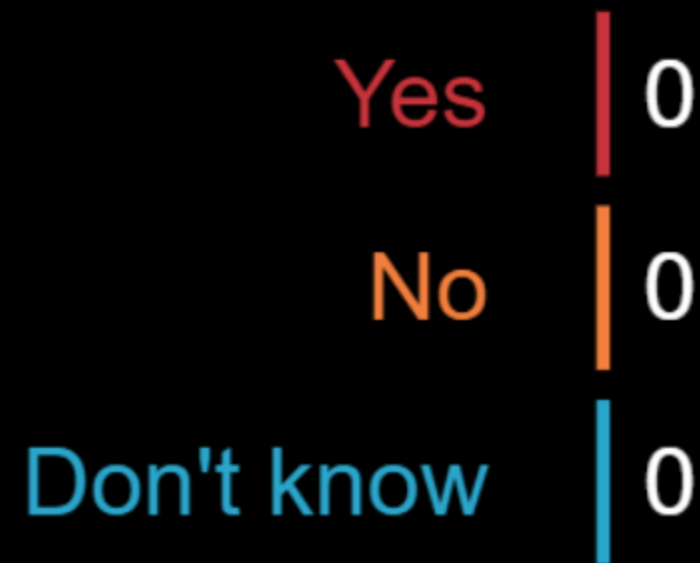




- Shared responsibility
- Test for the developers and for the team
- Test-planning together

Question for you, again.

Are you a trustworthy software developer?



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0 votes - 0 participants

Compare results

Before

Are you a trustworthy software developer?

Yes		0
No		0
Don't know		0

After

Are you a trustworthy software developer?

Yes		0
No		0
Don't know		0



Please

**Remember to
rate this session**

Thank you!

