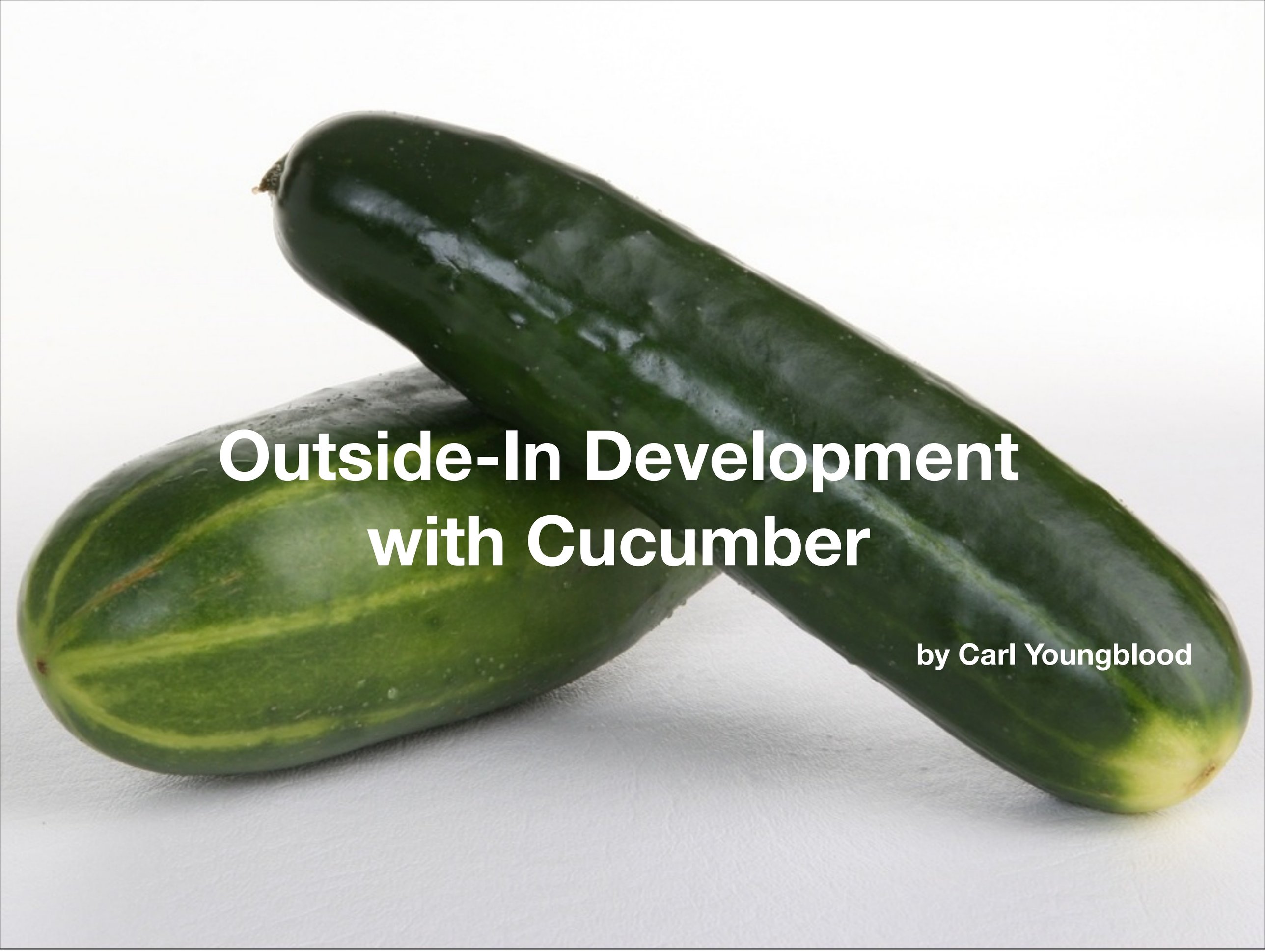

Thursday, March 31, 2011

Background

Thursday, March 31, 2011

BDD

Thursday, March 31, 2011

"A second generation, outside-in, pull based, multiple stakeholder, multiple scale, high automation, agile methodology"

Dan North

Second Generation

Thursday, March 31, 2011

Lessons learned from previous Agile attempts, especially around documentation and testing

Outside-in

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Focused on expected outcomes in the form of concrete examples

Pull-based

Specifications are created just in time, when they are needed, from user stories and use cases

Multiple-stakeholder

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More than one user. Who will be involved and what will be useful to them?

Multiple-scale

Thursday, March 31, 2011

Process is the same regardless of the level you are working on. Top level = examples of expected outcomes. Below = impact on functional modules. Below that = technical implementation of units.

Agile

Works best with short iterations or flow-based work, where teams specify, implement and deliver relatively small chunks of functionality.

High automation

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Cucumber makes acceptance criteria executable on demand.

Some examples

User stories

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Bad

```
Feature: Trading
  In order to trade
  As a trader
  I want to enter a trade
```

Good

```
Feature: Trading
  In order to reduce fraud
  As a financial controller
  I want the system to automatically send Chuck
    Norris to beat up suspected fraudsters.
```

In order to...

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Discuss the In order to... section long enough to get a good reason.

Protect revenue

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Ask “why” max five times until you get to one of these answers:

- Protect revenue
- Increase revenue
- Manage cost
- Increase brand value
- Make the product remarkable
- Provide more value to your customers

These answers aren’t good as part of the “in order to...” though. Usually a good candidate will be the answer 1-2 questions below the top of the stack.

Increase revenue

Thursday, March 31, 2011

Ask “why” max five times until you get to one of these answers:

- Protect revenue
- Increase revenue
- Manage cost
- Increase brand value
- Make the product remarkable
- Provide more value to your customers

These answers aren’t good as part of the “in order to...” though. Usually a good candidate will be the answer 1-2 questions below the top of the stack.

Manage cost

Thursday, March 31, 2011

Ask “why” max five times until you get to one of these answers:

- Protect revenue
- Increase revenue
- Manage cost
- Increase brand value
- Make the product remarkable
- Provide more value to your customers

These answers aren’t good as part of the “in order to...” though. Usually a good candidate will be the answer 1-2 questions below the top of the stack.

Increase brand value

Thursday, March 31, 2011

Ask “why” max five times until you get to one of these answers:

- Protect revenue
- Increase revenue
- Manage cost
- Increase brand value
- Make the product remarkable
- Provide more value to your customers

These answers aren’t good as part of the “in order to...” though. Usually a good candidate will be the answer 1-2 questions below the top of the stack.

Make the product remarkable

Thursday, March 31, 2011

Ask “why” max five times until you get to one of these answers:

- Protect revenue
- Increase revenue
- Manage cost
- Increase brand value
- Make the product remarkable
- Provide more value to your customers

These answers aren’t good as part of the “in order to...” though. Usually a good candidate will be the answer 1-2 questions below the top of the stack.

Provide more value to customers

Thursday, March 31, 2011

Ask “why” max five times until you get to one of these answers:

- Protect revenue
- Increase revenue
- Manage cost
- Increase brand value
- Make the product remarkable
- Provide more value to your customers

These answers aren’t good as part of the “in order to...” though. Usually a good candidate will be the answer 1-2 questions below the top of the stack.

The “Why” Stack

in order to increase revenue
in order to sell the product
in order to build the product
in order to receive the part from the manufacturer
in order to fax the order to the manufacturer

Thursday, March 31, 2011

Ask “why” max five times until you get to one of these answers:

- Protect revenue
- Increase revenue
- Manage cost
- Increase brand value
- Make the product remarkable
- Provide more value to your customers

These answers aren’t good as part of the “in order to...” though. Usually a good candidate will be the answer 1-2 questions below the top of the stack.

Scenarios

Thursday, March 31, 2011

Bad

```
Scenario:
  Given the event queue contains "INVALID_ACTION"
  When I get a BFE
  Then I should be in state 2313
```

Good

```
Scenario:
  Given I am in a call
  When someone tries to call me
  Then they should receive a busy message
```

Another example

NOT JUST FOR TESTING, ideally should drive development also

Additional Features

Internationalization

Tags

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Profiles

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Reporting

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Variants

cuke4duke

Covers many languages on the JVM.

cuke4nuke

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C#

SpecFlow

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C# - Requires Visual Studio Professional

cukebins

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Lettuce

Thursday, March 31, 2011

Python

Acknowledgements

- Aslak Hellesøy
- Portions shamelessly lifted from *The Secret Ninja Cucumber Scrolls*

http://cuke4ninja.com

Utilities

- Online feature management

  http://demo.cucumber.fm/

- Another online management tool

  http://21croissants.github.com/courgette/

- Step management tool

  https://github.com/asterite/cukecooker

- Regular expression tester

  http://rubular.com

Resources

- https://github.com/cayblood/cucumber_presentation (this presentation)
- http://cukes.info (general Cucumber info)
- https://github.com/aslakhellesoy/cuke4duke/wiki (Java, JVM)
- http://www.specflow.org (C#)
- https://github.com/paoloambrosio/cukebins (C, C++)
- https://github.com/gabrielfalcao/lettuce (Python)
- http://rubular.com (regular expression tester)