

Boss? Beer? Buzzword?
What is **B** in **BDD**?

@mpraglowski

WHO IS ...

- .NET Developer,
Team Leader
- dev's manager
@ BI-Technologies,
owner @ Solutions Factory
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Ankieta!

- Kto z Was **korzysta** z BDD ?

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- Kto z Was zna **TDD** ?
- Kim jest w Waszych zespołach **tester** ?

BDD vs TDD

- Stack Overflow
 - TDD: 2382 & 1.1k followers
 - BDD: 866 & 377 followers
- Stack Exchange
 - TDD: 205 & 99 followers
 - BDD: 37 & 15 followers

SpecFlow

- Open source tool for BDD in .NET
- Focus on high level behavior: features & acceptance tests
- Story-style plain text specifications
- Using Gherkin as a DSL for defining specifications
- Use existing testing frameworks for execution (NUnit, MSTest, xUnit)
- Integration with dev's tools (VisualStudio) & build servers (TeamCity)

DEMO

using SpecFlow

You're doing it
wrong!

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- 4....
5. In long term our test set will become a regression tests

BDD myths

by Gojko Adzic (@gojkoadzic)

MYTH #1:
INSTOOLATION

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Belief that process problems can
be solved by installing a tool

MYTH #2:
BUSINESSTING

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MYTH #3:
ACCEPTTEGRATION

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Belief that tests are either unit or
acceptance-integration

MYTH #4: **ROLATION**

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<insert role> should do BDD in isolation (eg testers do everything)

MYTH #5:
LONGRESSION

MYTH #5: **LONGRESSION**

Belief that the long term value of
BDD is in regression testing

What **BDD**
is not?

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- BDD is for defining system behavior
- BDD is for Business Applications
- BDD frameworks are for higher level, TDD for lower level components
- BDD frameworks are for end users to use
- BDD is for Integration Testing, TDD is Unit Testing

So, what the f***k is

BDD

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BDD is a second-generation, outside-in, pull-based, multiple-stakeholder, multiple-scale, high-automation, agile methodology. It describes a cycle of interactions with well-defined outputs, resulting in the delivery of working, tested software that matters.

DAN'S DEFINITION OF BDD

BDD bach Cha'Dlch puq

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poH, Hur-baS 'In, gher-

ejyo'waw', Qln vagh-Sa',

Qln vagh blm, jen-qoq,

Qincha' tlhevjaQ.

BDD is

unambiguous language for
development process

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 - **Given** [context] **when** [sth happen] **then** [some output]
- Test scenarios are a **definition of done**

BDD it's about
communication

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- Requirements are defined as a set of **features**
- Features are described in a form of **user story**
- For each user story some **test scenarios** are prepared
- User stories are implemented by developers
- Completed features are tested by testers

Separation of roles

User Stories



Programming



Functional gaps
Inconsistencies

Testing



Misunderstood requirements

Specifying collaboratively

User Stories



Functional gaps
Inconsistencies

Misunderstood requirements

Programming



Testing



Unexpected stuff

BDD is living
specification

What is **TEST**?

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When it's written is **not a test**, it is an **example** of something I don't have yet, it's a **specification**

by Dan North

What if test **FAILS**?

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It is **not completed**
feature.

What if test **FAILS**?

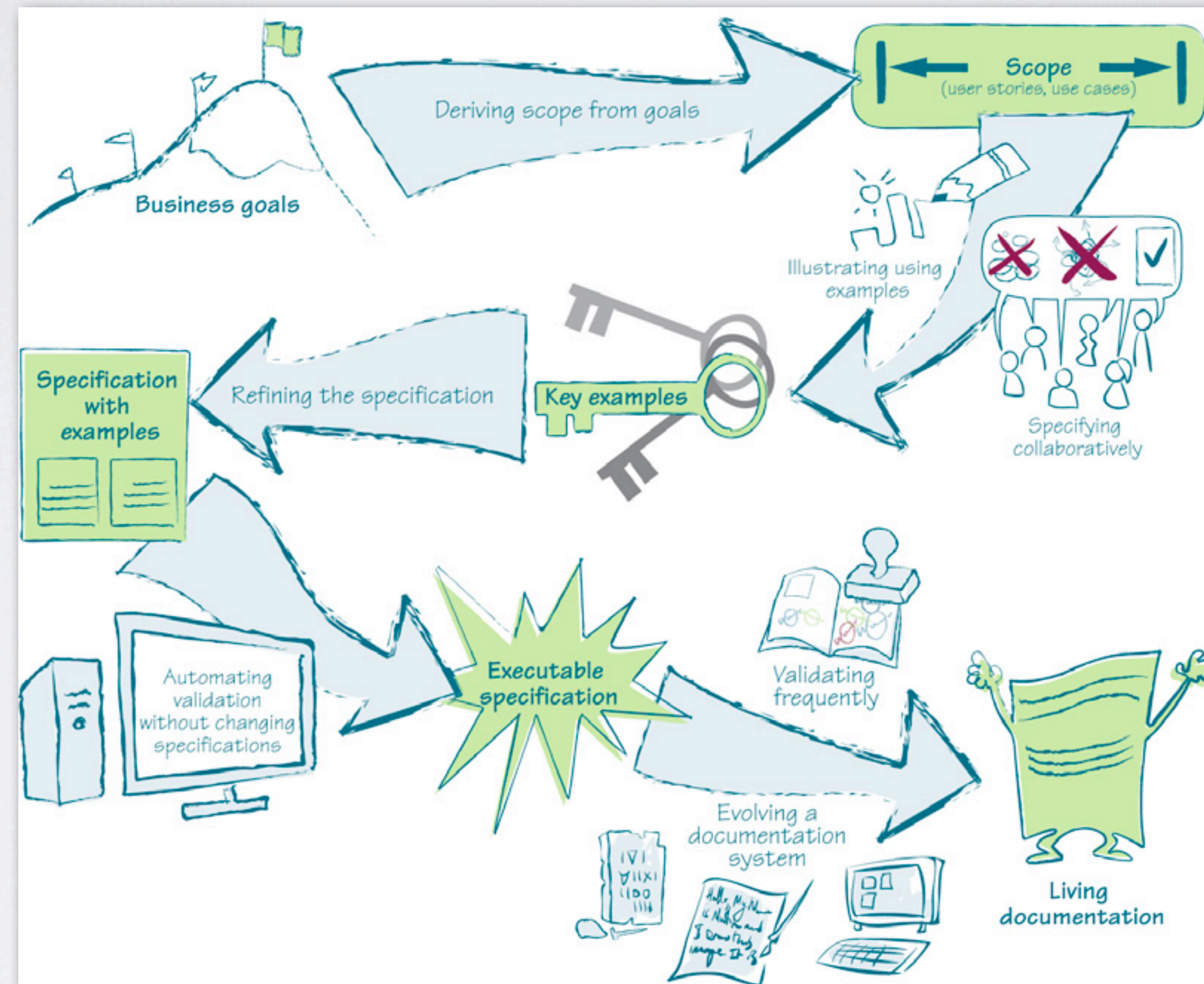
It is **not completed**
feature.

It is a **missing** specification!

SPECIFICATION BY EXAMPLE

- Abstract requirements & specifications are not good tool for communication
- Concrete examples are much better
- Usually examples are not formalized nor shared

Specification by example



The key process patterns of Specification by example (Gojko Adzic)



THERE IS NO SILVER BULLET!

- INTRODUCING BDD by Dan North
<http://dannorth.net/introducing-bdd/>
- BDD IS LIKE TDD IF... by Dan North
<http://dannorth.net/2012/05/31/bdd-is-like-tdd-if/>
- Behaviour-Driven Development by Dan North
<http://www.viddler.com/v/c54123a>
- BDD: Busting the myths by Gojko Adzic
<https://vimeo.com/43612884>
- What BDD has taught me by Hadi Hariri
<http://hadihariri.com/2012/04/11/what-bdd-has-taught-me/>
- How to sell BDD to the business by Dan North
<http://skillsmatter.com/podcast/java-jee/how-to-sell-bdd-to-the-business>
- BDD Wiki <http://behaviour-driven.org/>