THINKING BDD

Based on Arolla BDD formation by Yann Danot - @ydanot.

BEHAVIOUR DRIVEN DEVELOPMENT

WHAT IS BDD ?

THAT'S THE QUESTION...

INTEGRATION TESTING ?

A WAY TO SPECIFY ?

HYPE KEYWORD ?

A CUCUMBER ?

NO.

LET'S START WITH AN EXAMPLE ...

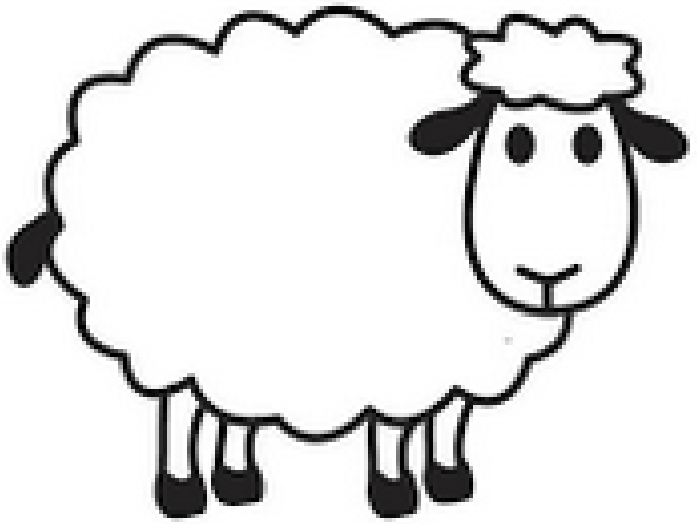
« PLEEAAAAASE !

DRAW ME A SHEEP ! »

(FRENCH GUYS...)

?

« NOT WHAT I ASKED ! »



(FRENCH GUYS...)

WHY ?

« WHEN I WRITE MY SPECS,

I'M *CONVINCED*

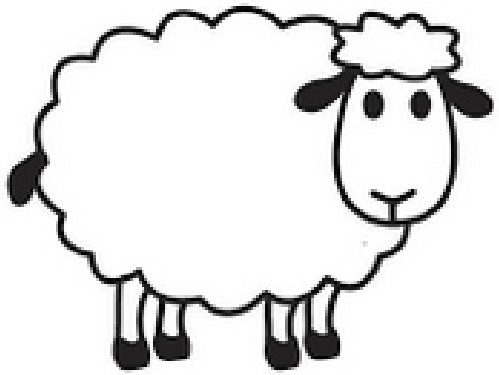
I'M *UNDERSTOOD* »

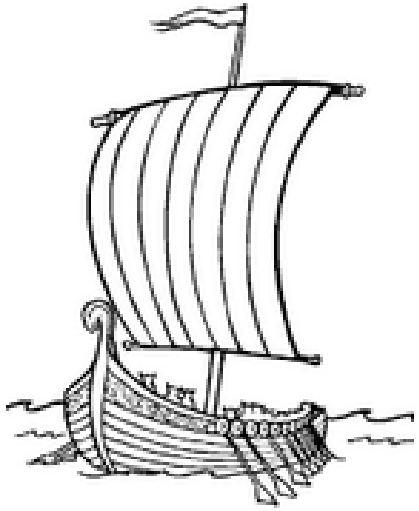
An anonymous PO during therapy session.

« BECAUSE,

I USE SIMPLE WORDS. »

Same PO during therapy session, before breaking down.





(FRENCH GUYS...)

≠

SO, WHY ?

SPEC QUALITY

DOMAIN EXPERT SYNDROM

POWER RELATIONSHIP

MOOD

PERSONALITY

PRESSURE

SPOKEN LANGUAGES

CULTURE

LEADS TO...

SPECIFICATIONS
INTERPRETATIONS

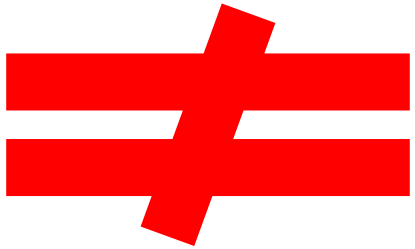
MEGA BAD !

BUT, ...WHY ? :(

*(« I spend so much time on my specifications ! I'm damn sure it's all described there, you **** *** ** !!!... »)*

REVELATION ALERT

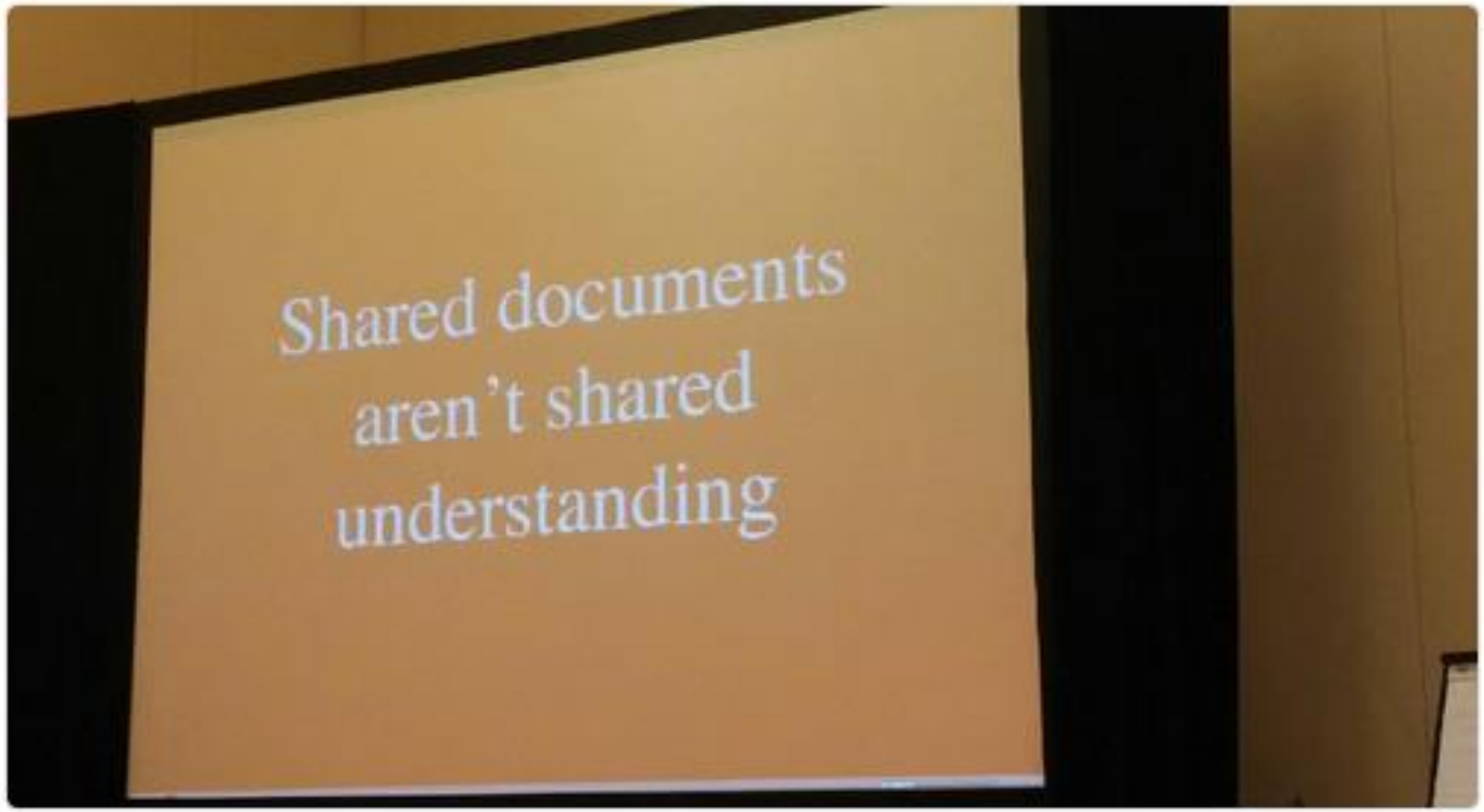
SHARED DOCUMENT



SHARED UNDERSTANDING

Shared documents aren't shared understanding. Story Maps with @jeffpatton #agile2015

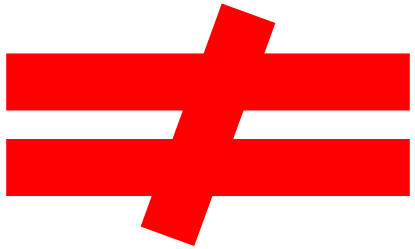
À l'origine en anglais



20:15 - 5 août 2015

https://twitter.com/jgarzas/status/628992856582172672

SHARED DOCUMENT



SHARED UNDERSTANDING

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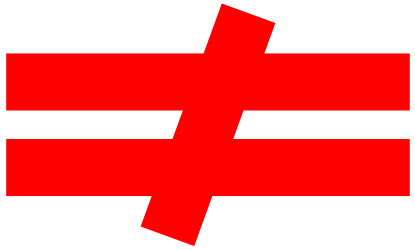

SHARED UNDERSTANDING

WHERE DOES CODE COMES FROM ?

FROM DEVELOPER

UNDERSTANDING

UNDERSTANDING

SO, ONCE AGAIN, WE ARE ,

WE CHASE OBVIOUSNESS.

BUT HOW ?

WE USUALLY HAVE

SPECIFICATIONS

HOW COULD WE AVOID

INTERPRETATIONS ?

WE COULD ASK FOR..?

EXAMPLE(S)

FROM PO, USERS, TESTERS

EXAMPLES AVOID:

ABSTRACTIONS

DOMAIN EXPERT SYNDROM

INTERPRETATIONS

INTERPRETATIONS

ABSTRACTIONS

WHO'S GUILTY ?

DOMAIN EXPERT SYNDROM

Tips: it's mankind best ennemy.

COMMUNICATION ISSUES

IMAGINE IT'S REMOVED

THINGS GET OBVIOUS

Devs + Po + Testers + Users

=

SO BDD IS,

The art of using examples in conversations to illustrate behaviour(s).

ART

NOT A SCIENCE.

EXAMPLE

A VALUE BASED USE CASE.

Given a patient that has the flu
When the patient has fever
Then an alarm should be raised.

MEGA BAD !

Given the Miranda patient
When patient temperature is greater than 38°C
And the alarm temperatureThreshold is 37.5°C
Then send an TemperatureAlarm message
And message temperature should be 38°C.

« OK.. BUT WHO'S MIRANDA ? »

MIRANDA IS A STANDARD.

MIRANDA IS APPROVED,

SO SHE NEVER CHANGES.

THE TEAM KNOWS MIRANDA.

MEET MIRANDA,

- A woman
- She's 65 year old
- She's been admitted 14 days ago
- Her bed is in intensive care unit
- She's in Roissy en Brie facility

MIRANDA IS PART OF THE
TEAM LANGUAGE

Given the Miranda patient
When patient temperature is greater than 38°C
And the alarm temperature threshold is 37.5°C
Then send an TemperatureAlarm message
And message temperature should be 38°C.

MUCH BETTER !

CONVERSATIONS

TALK TO TESTERS/PO.

ASK « WHY ? »

ASK « WHY ? » AGAIN.

AND AGAIN.

AND AGAIN.

AND AGAIN.

FIND THE
ORIGIN OF THE NEED

THEN, FIRE SECRET WEAPON..

« PLEASE GIVE ME AN *EXAMPLE* ? »

THEN LOCK THE DOORS,

AND WRITE THE EXAMPLE.

THEN ASK,

« HOW DOES IT *FIT WITH THE EXAMPLE(S) YOU GAVE US*? »

REPEAT THE PATTERN ;)

SINCE DEV, PO AND TESTERS USE THE SAME LANGUAGE

BUSINESS LANGUAGE ARRIVES IN CODE

OVER COOL !

ILLUSTRATE

BETTER UNDERSTAND

MTR-0032512: above threshold alarm is raised when vital is above threshold value.

MTR-0032523: a vitals above alarm threshold value should trigger a specific message

Given the Miranda patient
When patient temperature is greater than 38°C
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WHAT DO YOU PREFER ?

MTR-0032512: above threshold alarm is raised when vital is above threshold value.

MTR-0032523: a vitals above alarm threshold value should trigger a specific message

Given the Miranda patient
When patient temperature is greater than 38°C
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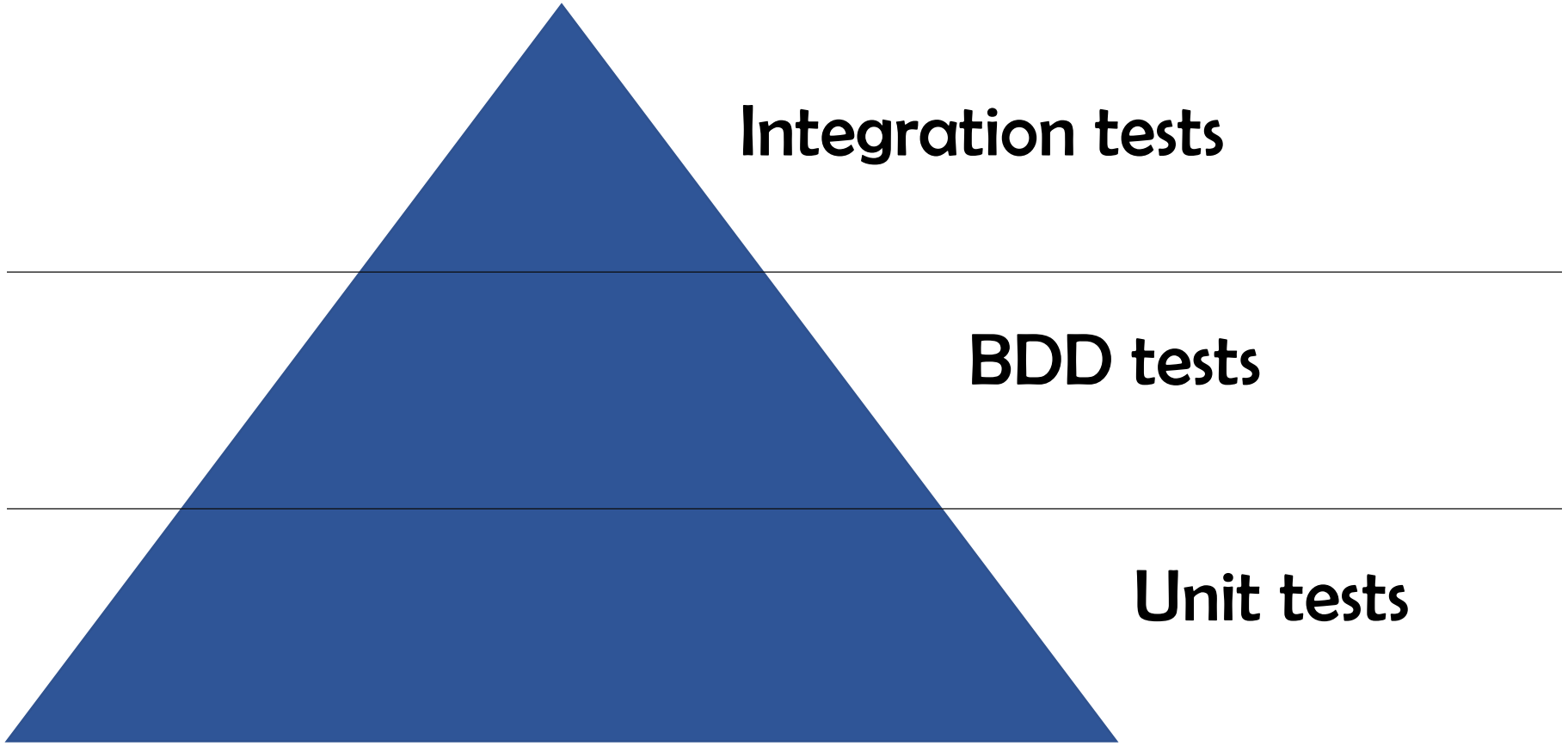
BEHAVIOUR(S)

WHAT IS SPECIFIED

SPEC FROM EXAMPLE

BDD SILVERBULLET SYNDROM

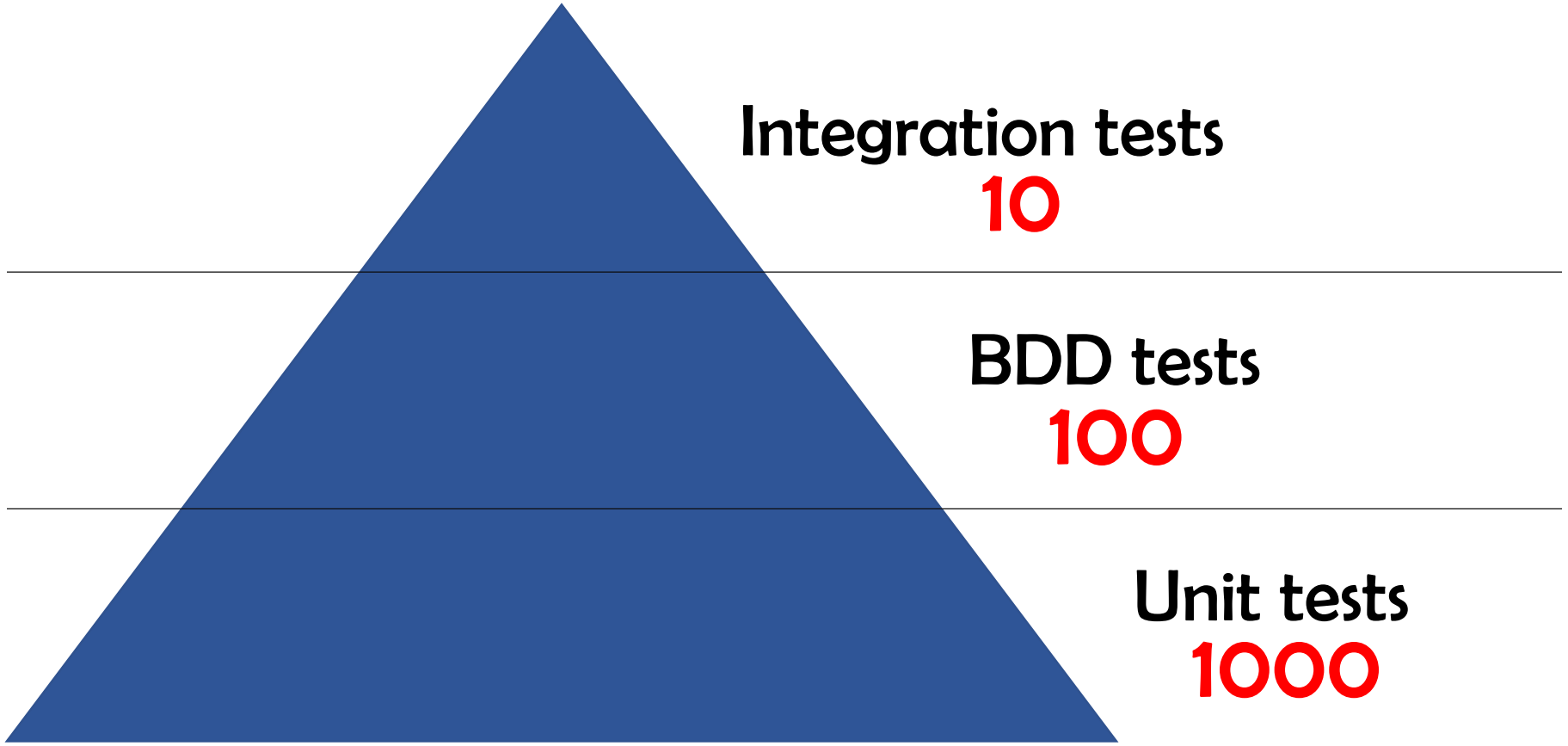
BDD ILLUSTRATES SPECS.


Integration tests
BDD tests
Unit tests

HIGH LEVEL TESTS

MEANS

HIGH COMPLEXITY


Integration tests
10
BDD tests
100
Unit tests
1000

HIGH LEVEL TESTS

MEANS

HIGHER COSTS

« HOW MANY EXAMPLES FOR ONE SPEC ? »

« EVERYTHING IS TESTED ! »

IN THE END..

"**having conversations** is **more important** than **capturing conversations** is **more important** than **automating conversations.**"

Liz Keogh - @lunivore - https://lizkeogh.com/2014/01/22/using-bdd-with-legacy-systems/

BDD IS MAINLY,

A COMMUNICATION TOOL.

QUESTIONS ?

THANK YOU !