Behaviour-Driven Development For Life

Liz Keogh
@lunivore

A story about
sleeping deeply

Behaviour-Driven Development

An Example of an Example

Given Fred has bought a microwave

And the microwave cost £100

When we refund the microwave

Then Fred *should* be refunded £100.

Examples

Given a context

When an event happens

Then an outcome *should* occur

GROW

Goal

Reality

Options

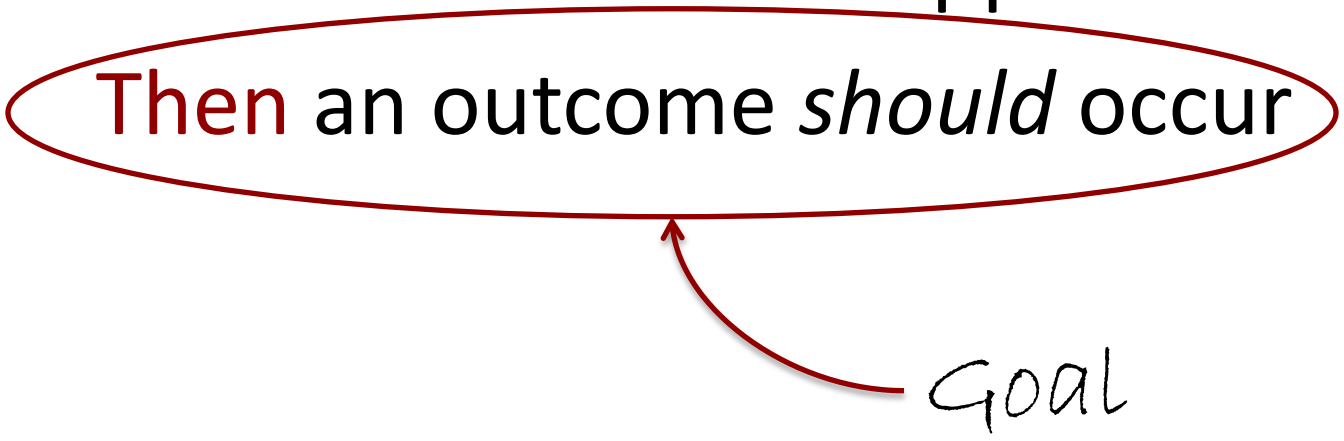
Way forward

GROW

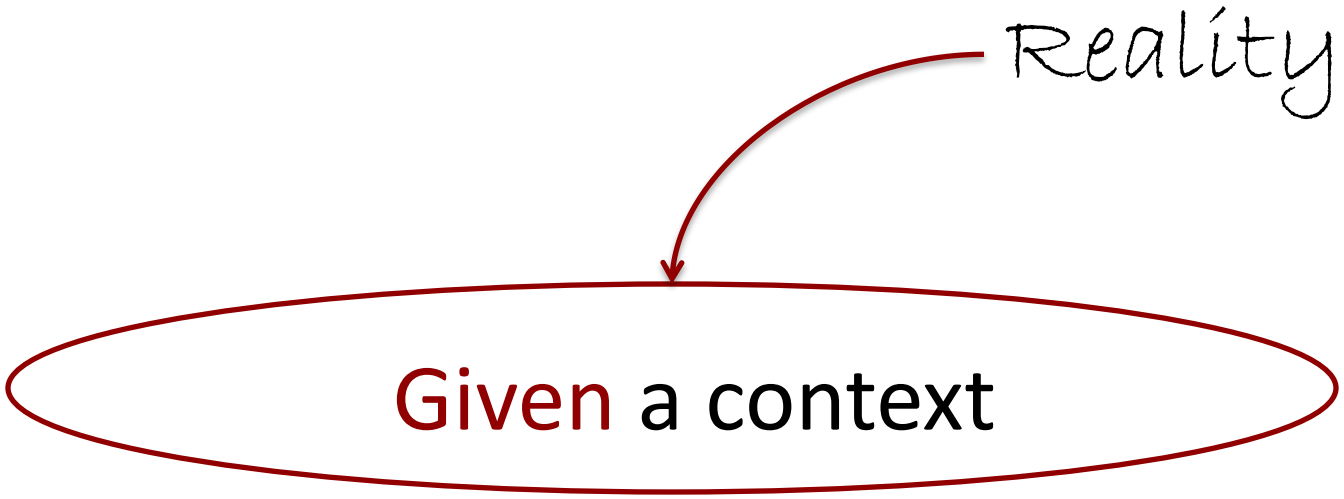
Given a context

When an event happens

Then an outcome *should* occur



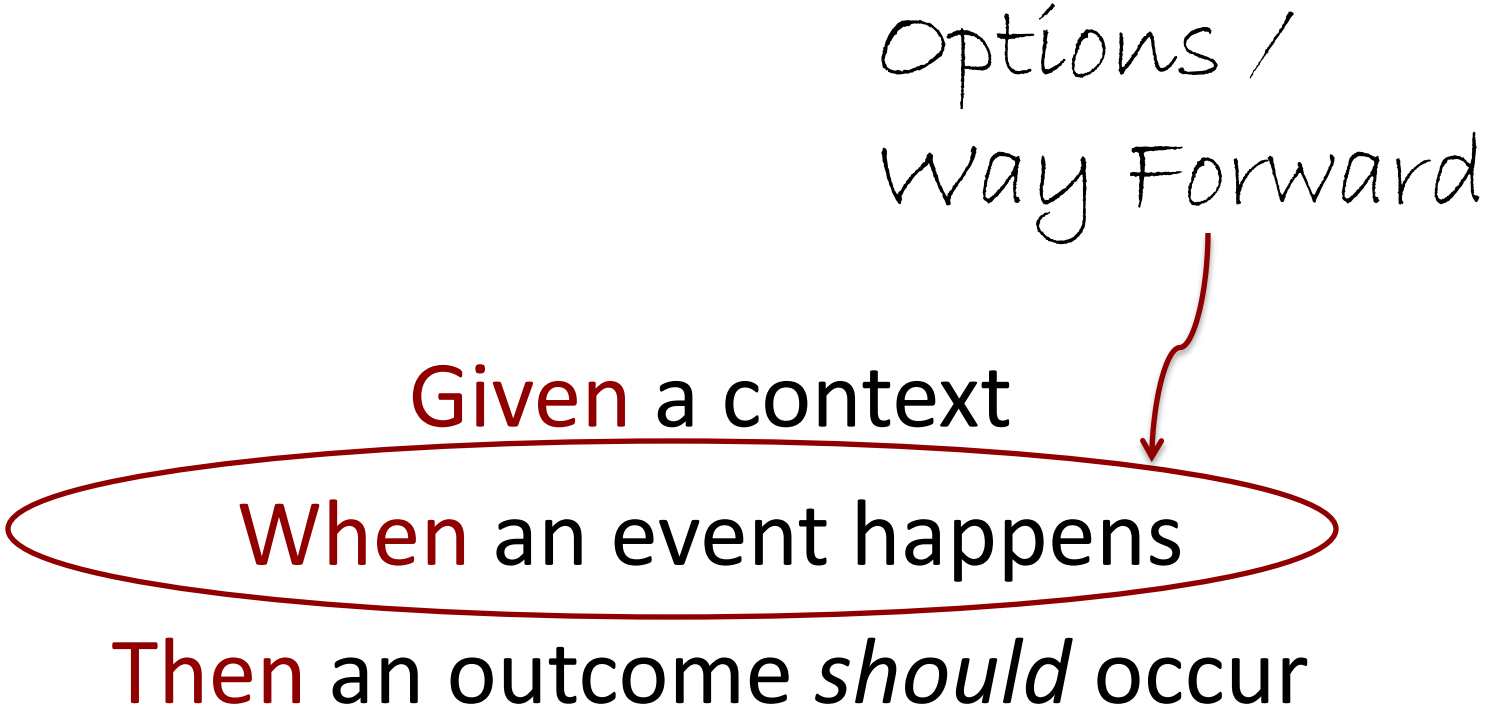
GROW



When an event happens

Then an outcome *should* occur

GROW


Options /
Way Forward
Given a context
When an event happens
Then an outcome *should* occur

PDCA

Plan

Do

Check

Act

Acceptance criteria vs. Scenarios

Given Fred has bought a microwave

And the microwave cost £100

And the microwave was on 10% discount

When we refund the microwave

Then Fred *should* be refunded £90.

Acceptance criteria vs. Scenarios

Given an item was sold
with a discount
When a customer gets a refund
Then he should only be refunded
the discounted price.

Acceptance criteria vs. Scenarios

Items should be refunded
at the price at which they were sold.

Well-formed outcomes

Sensation

Vision

Hearing

Smell

Taste

Examples

Given Jane would like some tools for changing her life

When she comes to my talk

Then she *should* leave happy.

“leave happy”

Will it actually happen that way?

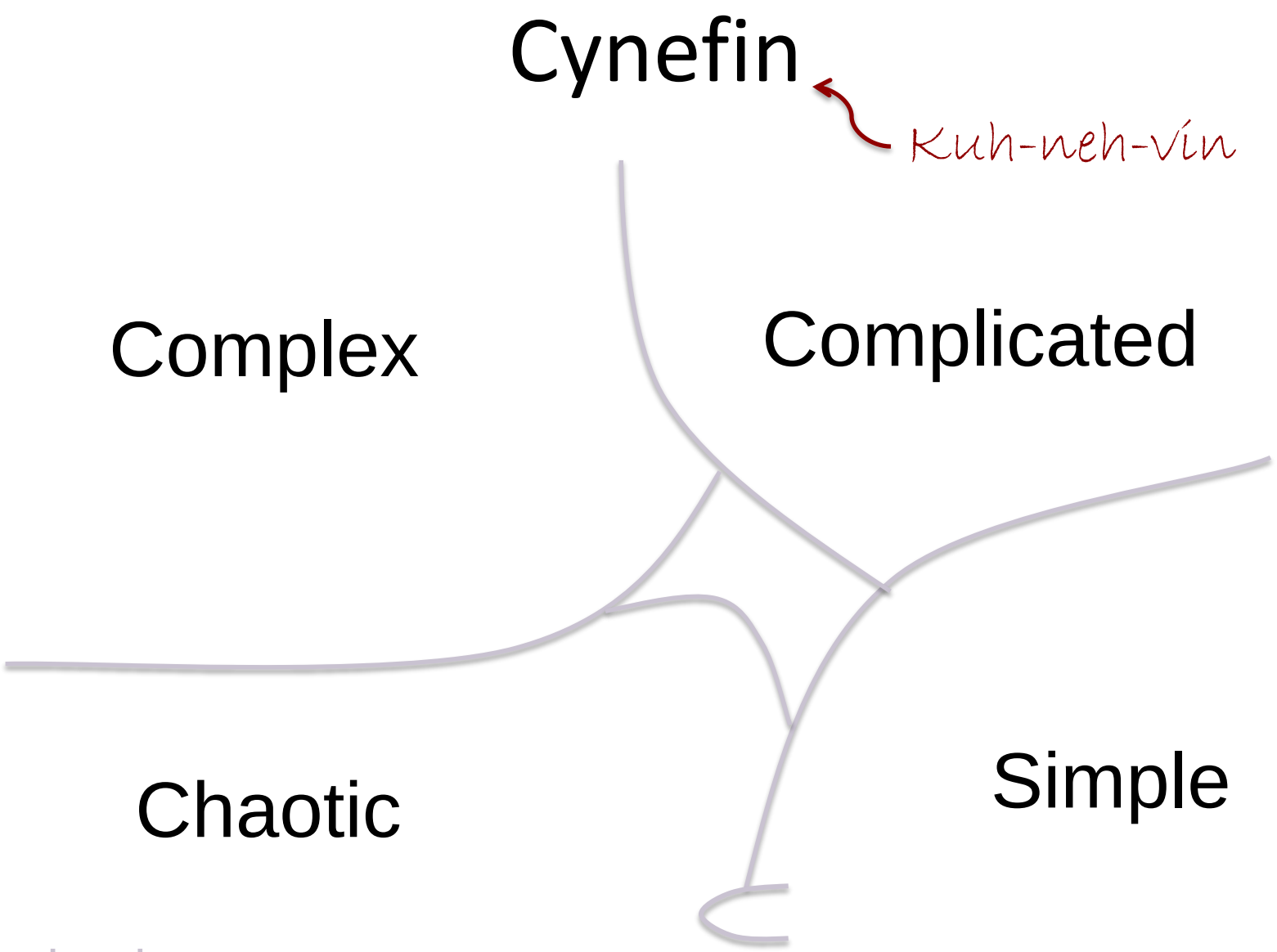
Acceptance criteria vs. Scenarios

I want people
to have happier lives
because of this talk.

Outcome

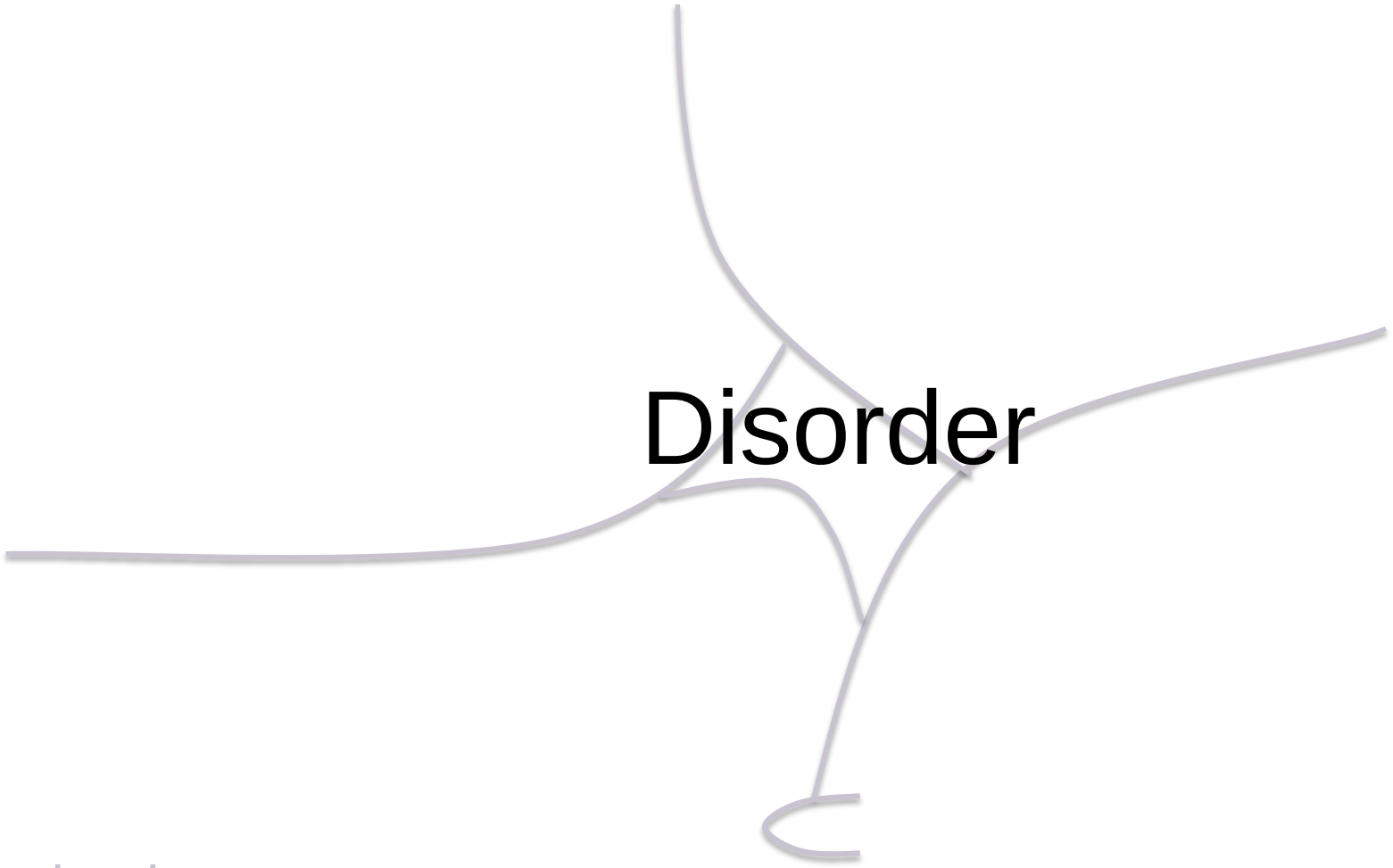
vs.

Impact



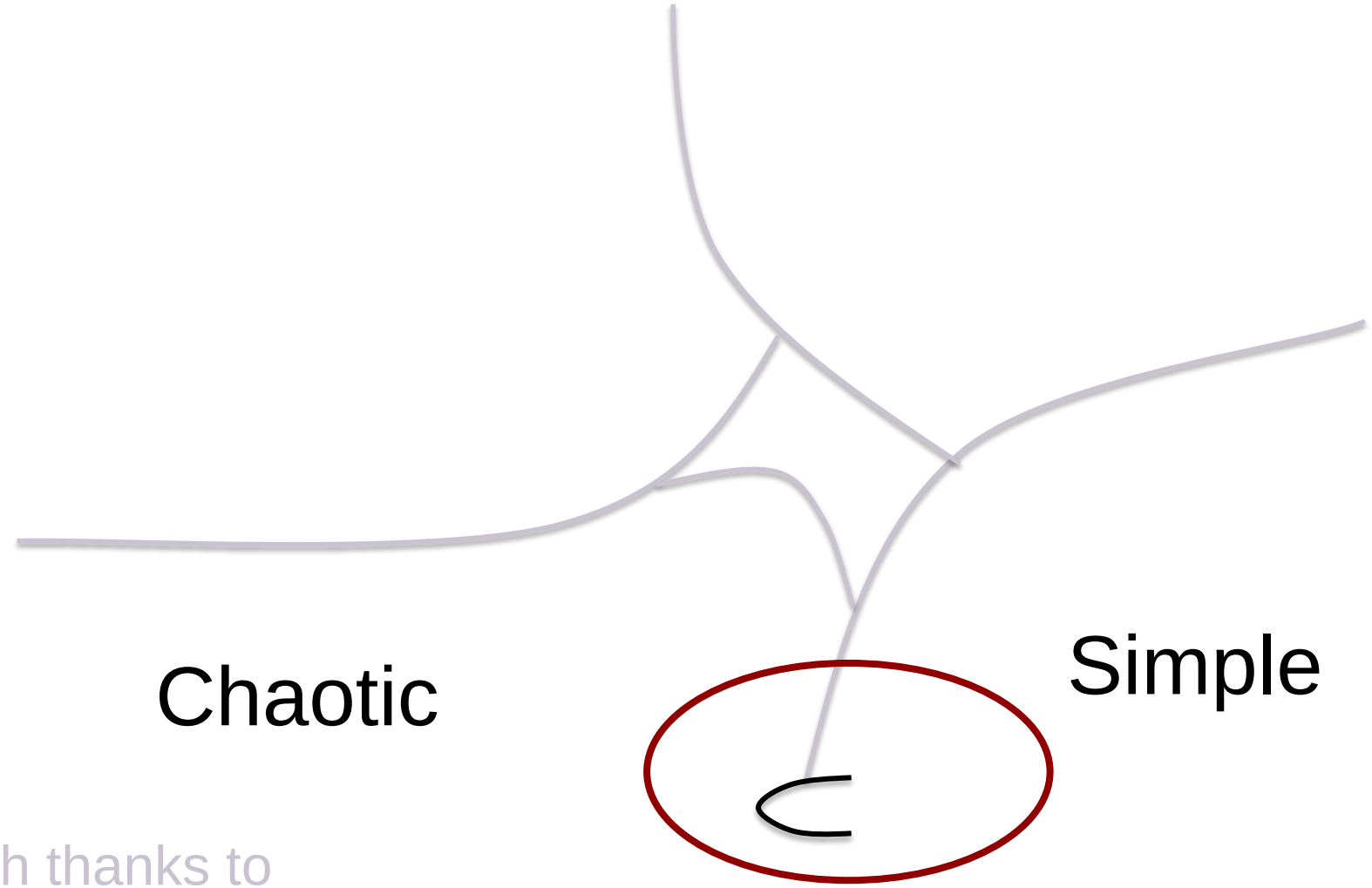
With thanks to
David Snowden and Cognitive Edge

Cynefin



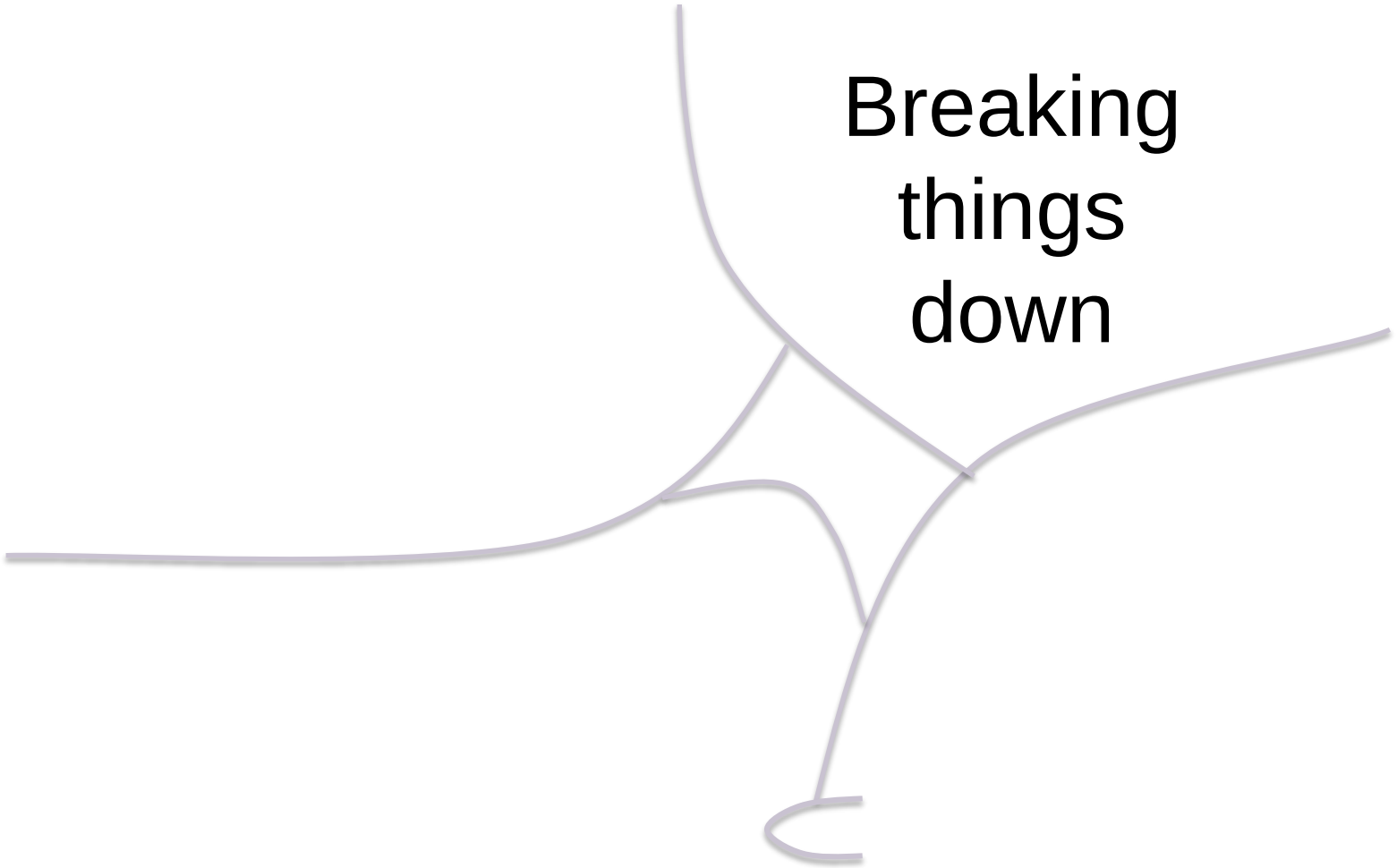
With thanks to
David Snowden and Cognitive Edge

Cynefin



With thanks to
David Snowden and Cognitive Edge

Cynefin

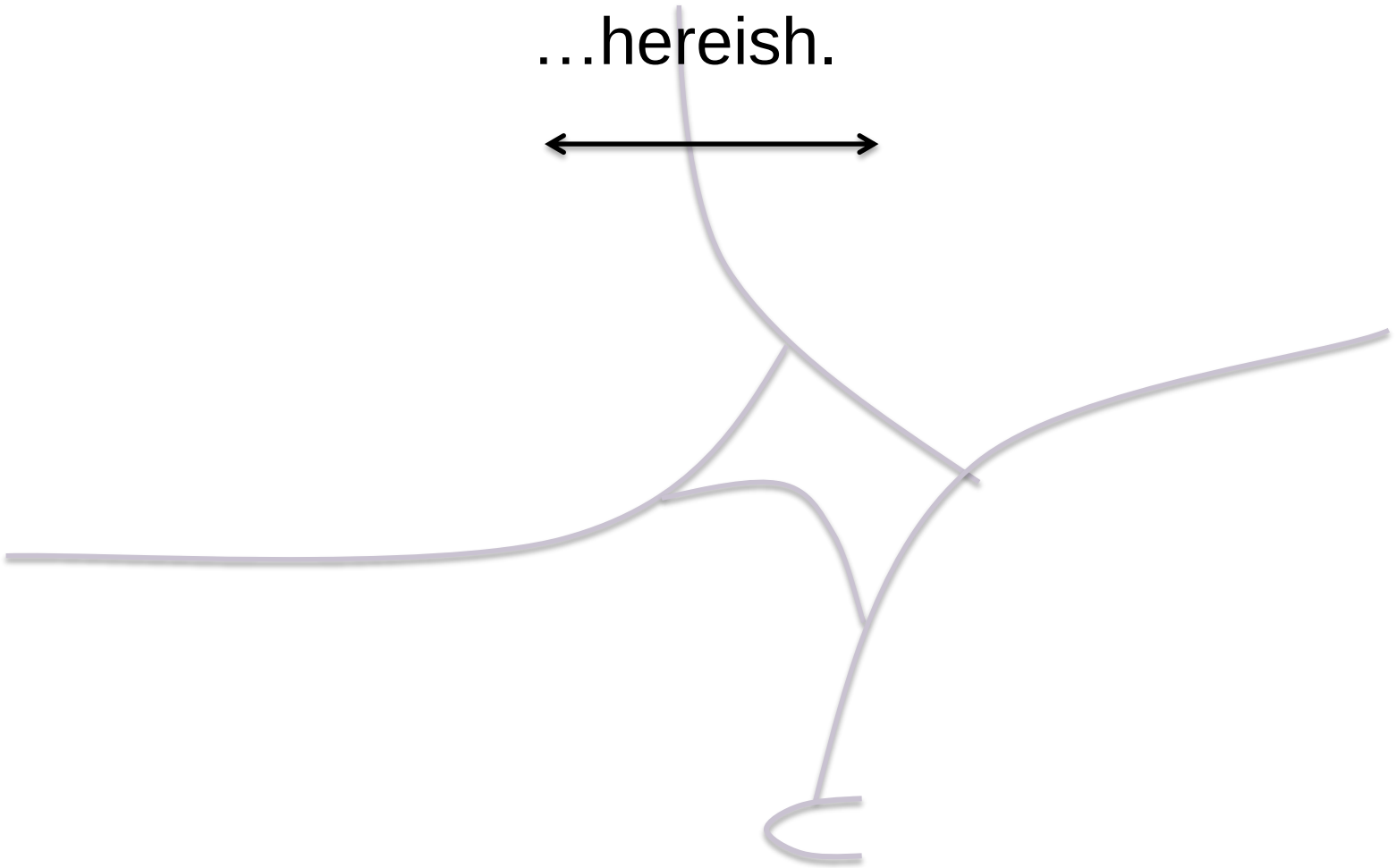


Cynefin

Trying things out

Talking through outcomes works really well…

…hereish.



Is there a context in which
this event will create
a different outcome?

Examples

Given Jane would like some tools for changing her life

When she comes to my talk

Then she *should* leave happy.

Examples

Given Steve thinks he can't change his life

And he can

When he comes to my talk

Then he *should* leave feeling troubled and uncertain.

Examples

Given I am a deep sleeper

When I fly to Chicago

Then I *should* still wake refreshed and ready to speak next day.

Is this the only outcome
that matters?
If we could achieve it with pixies,
would it be enough?

Examples

Given Steve thinks he can't change his life

And he can

When he comes to my talk

Then he should leave feeling troubled and uncertain

And he should get in touch

The language of uncertainty

“Should”

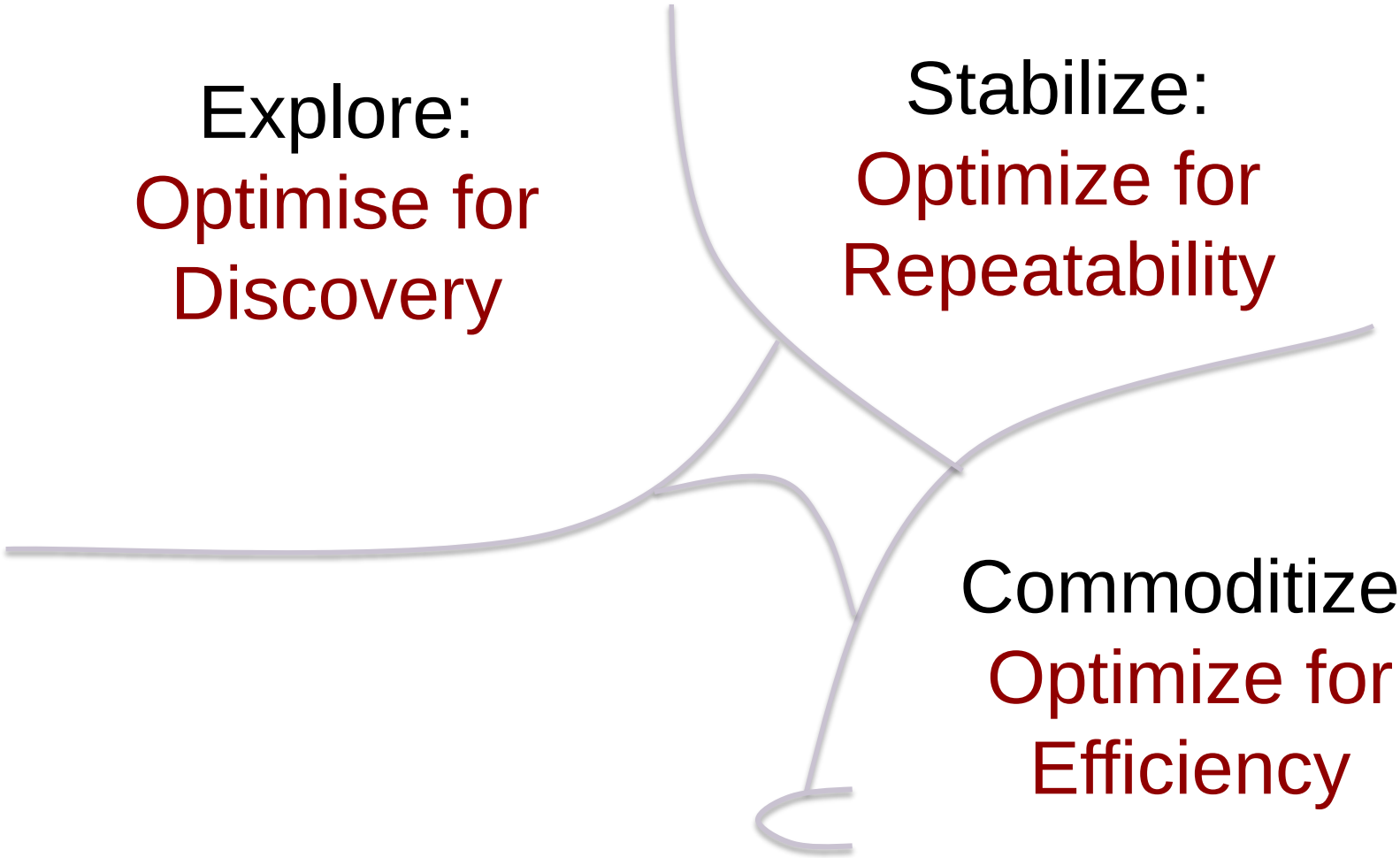
Examples

Given Dan knows more about BDD than I do

When he comes to my talk

Then ...?

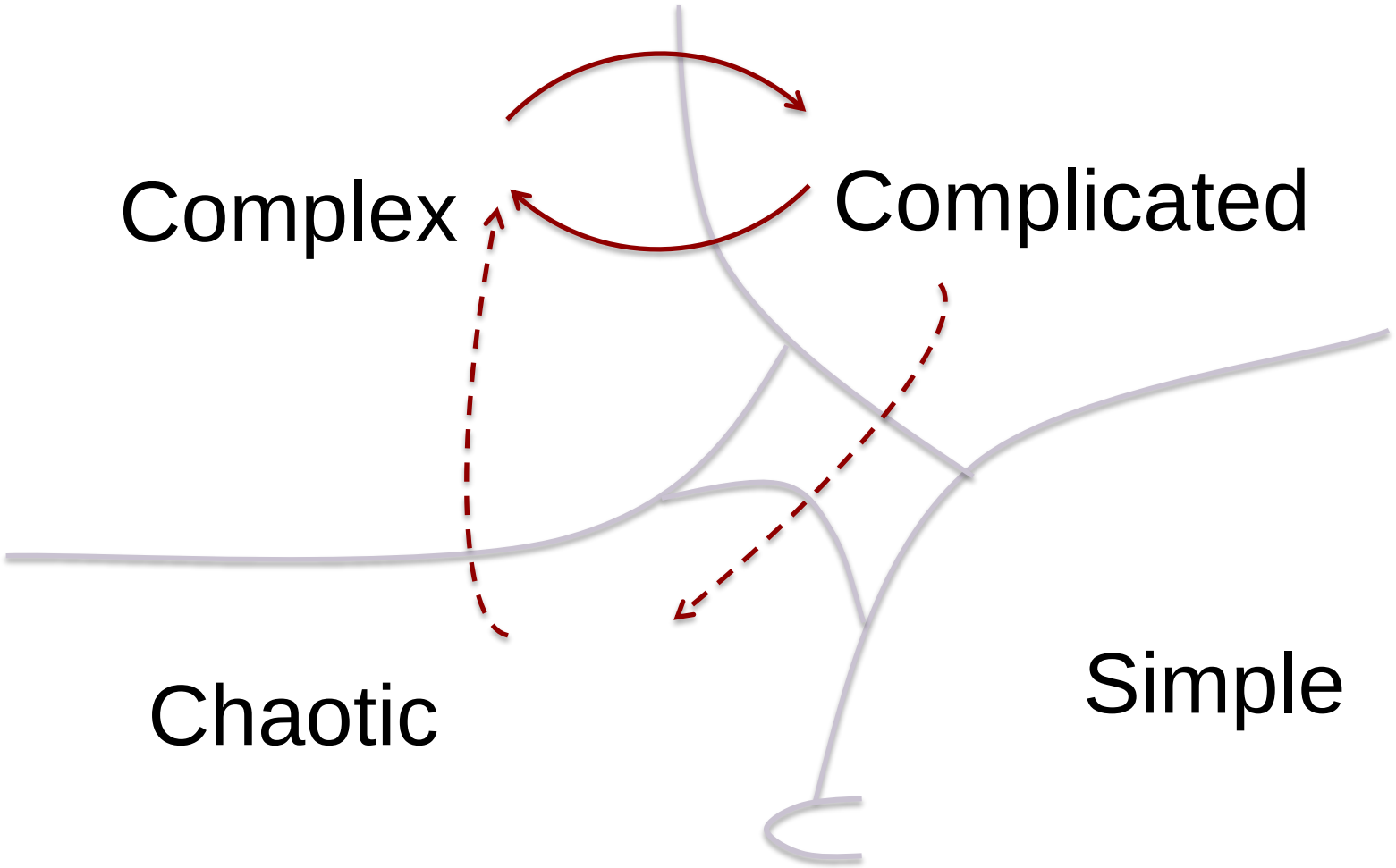
Dan North's "Three Ages"



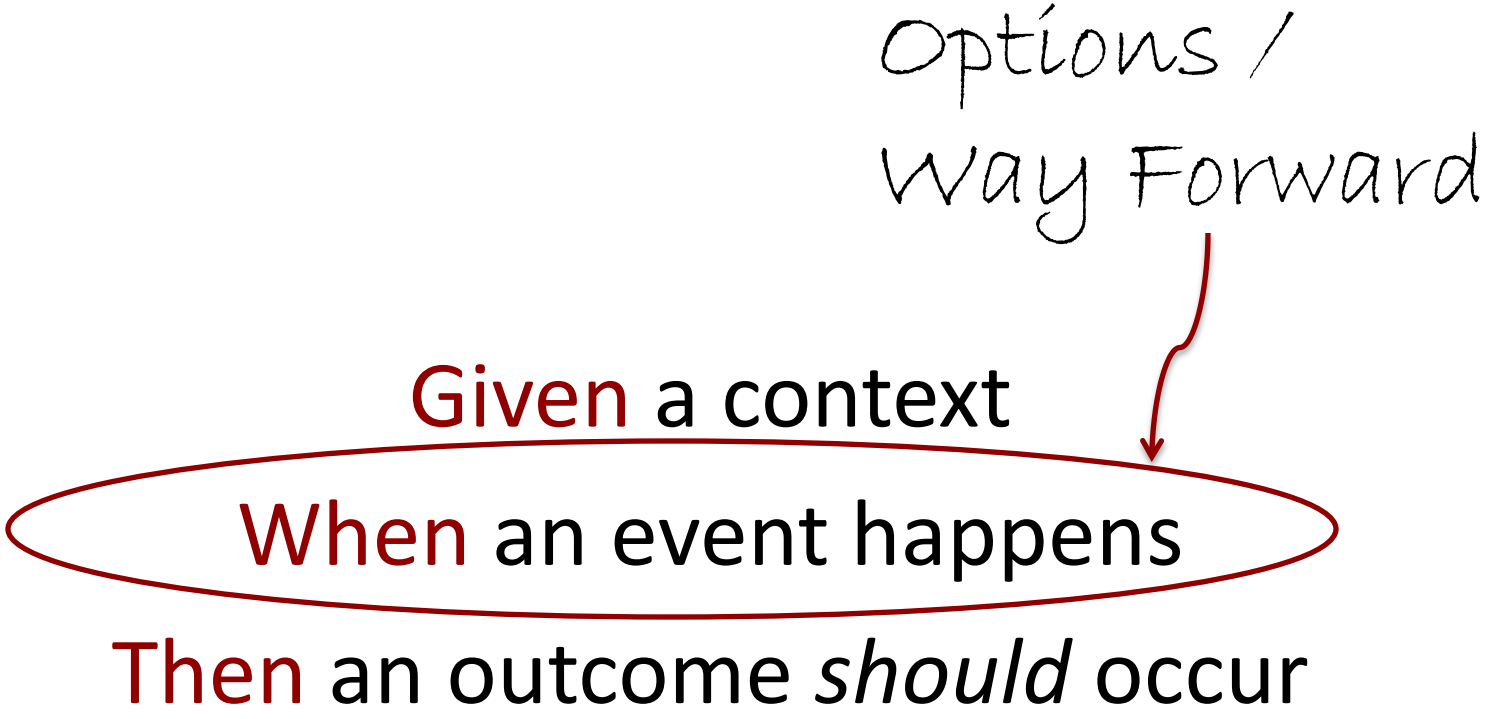
Still learning…

Panic:
Optimise for
Survival?

Innovation

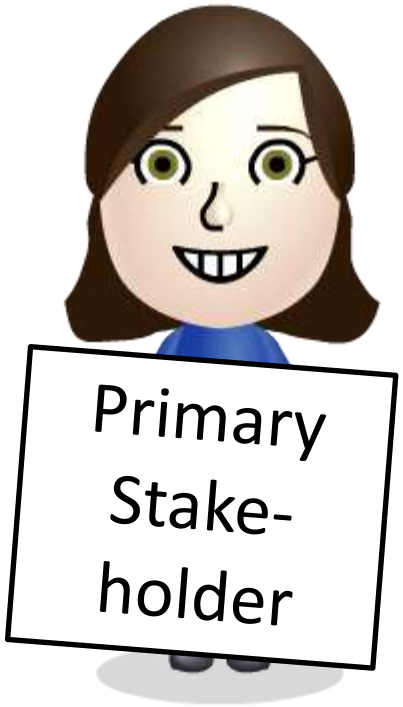


GROW


Options /
Way Forward
Given a context
When an event happens
Then an outcome *should* occur

Feature Injection

Vision



Makes money

Saves money

Protects money

Goal

Needed
to go live

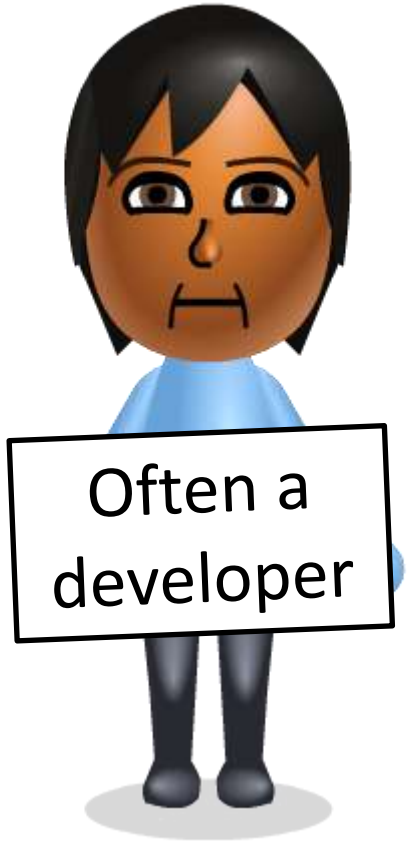
Capability

Users
can achieve
a business
outcome

Feature

User interface component which enables a capability

Story

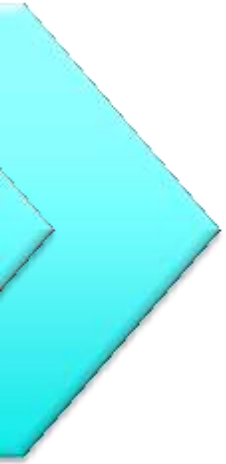


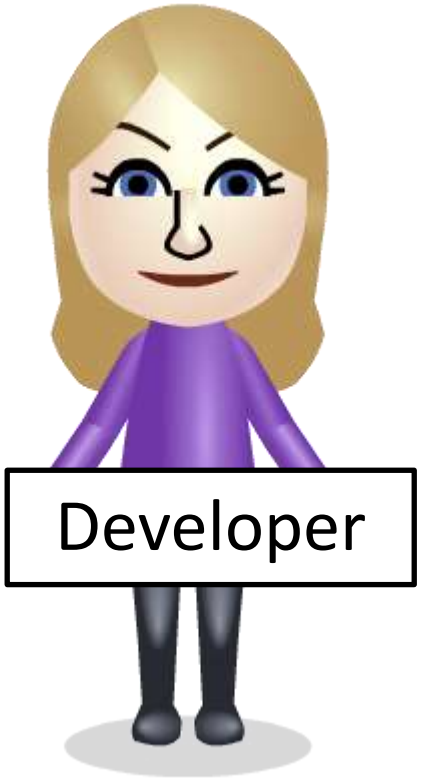
A slice through
a feature
to enable
faster feedback

Scenario

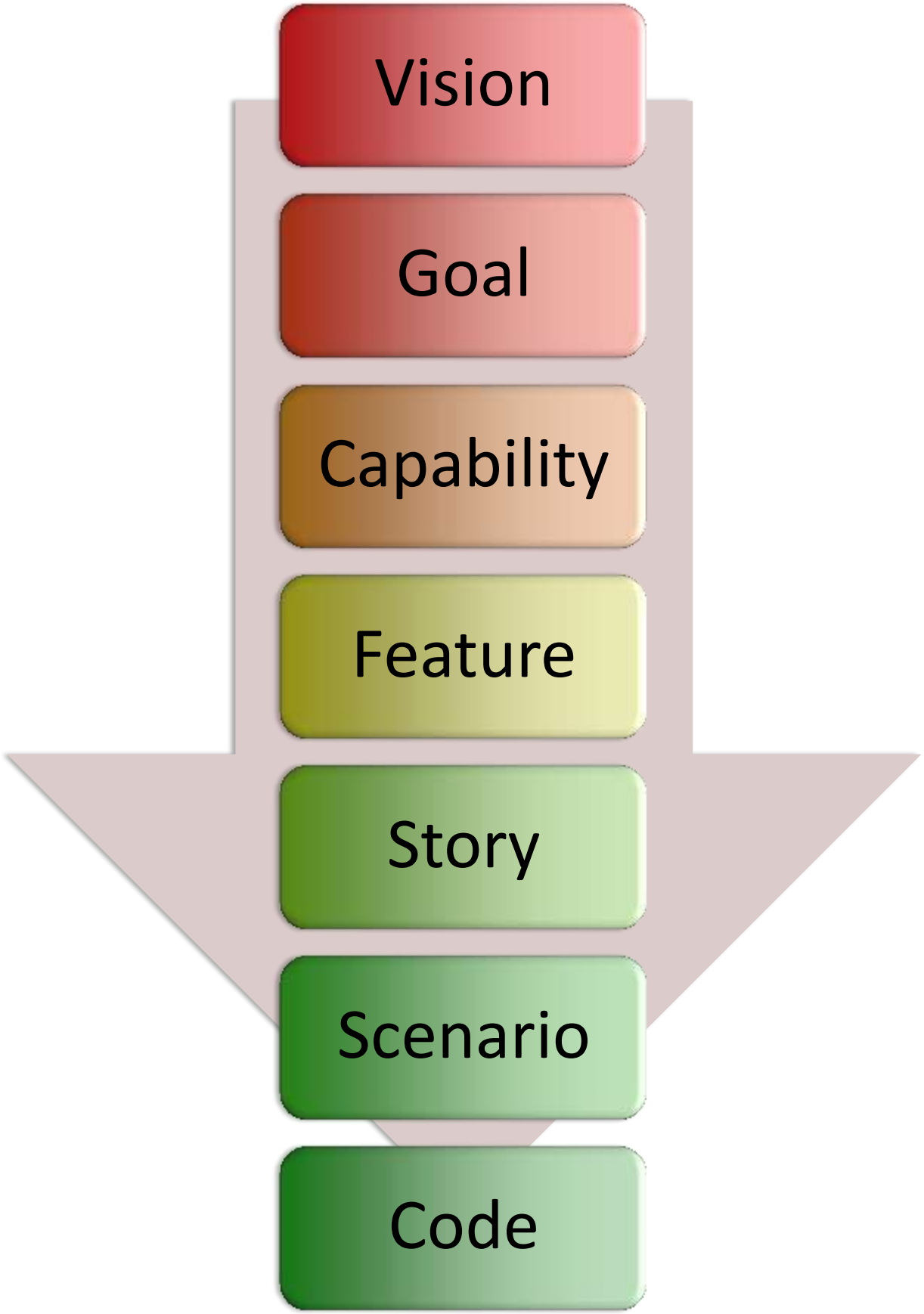
An example
of how the system
might behave
from a user
perspective

Code





Ideas turning into reality


Vision
Goal
Capability
Feature
Story
Scenario
Code

Hunt the value

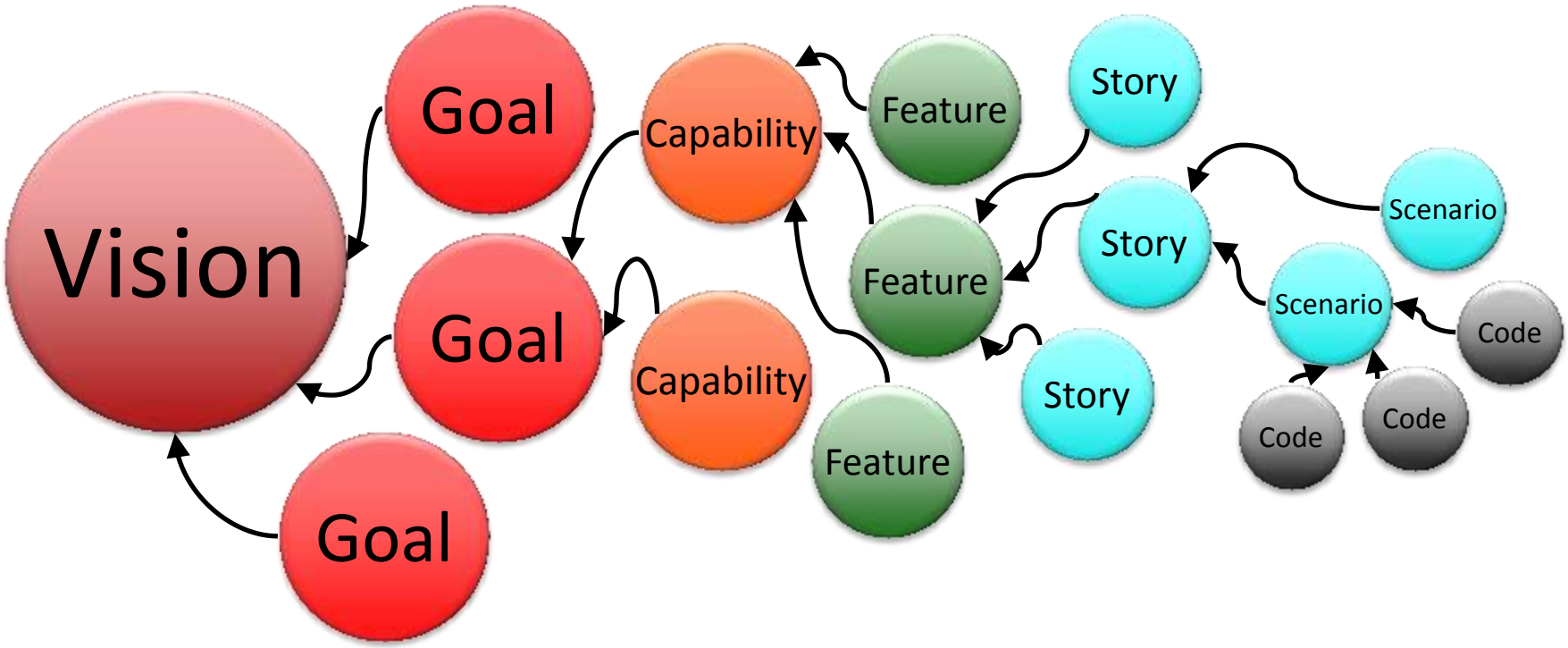
aka

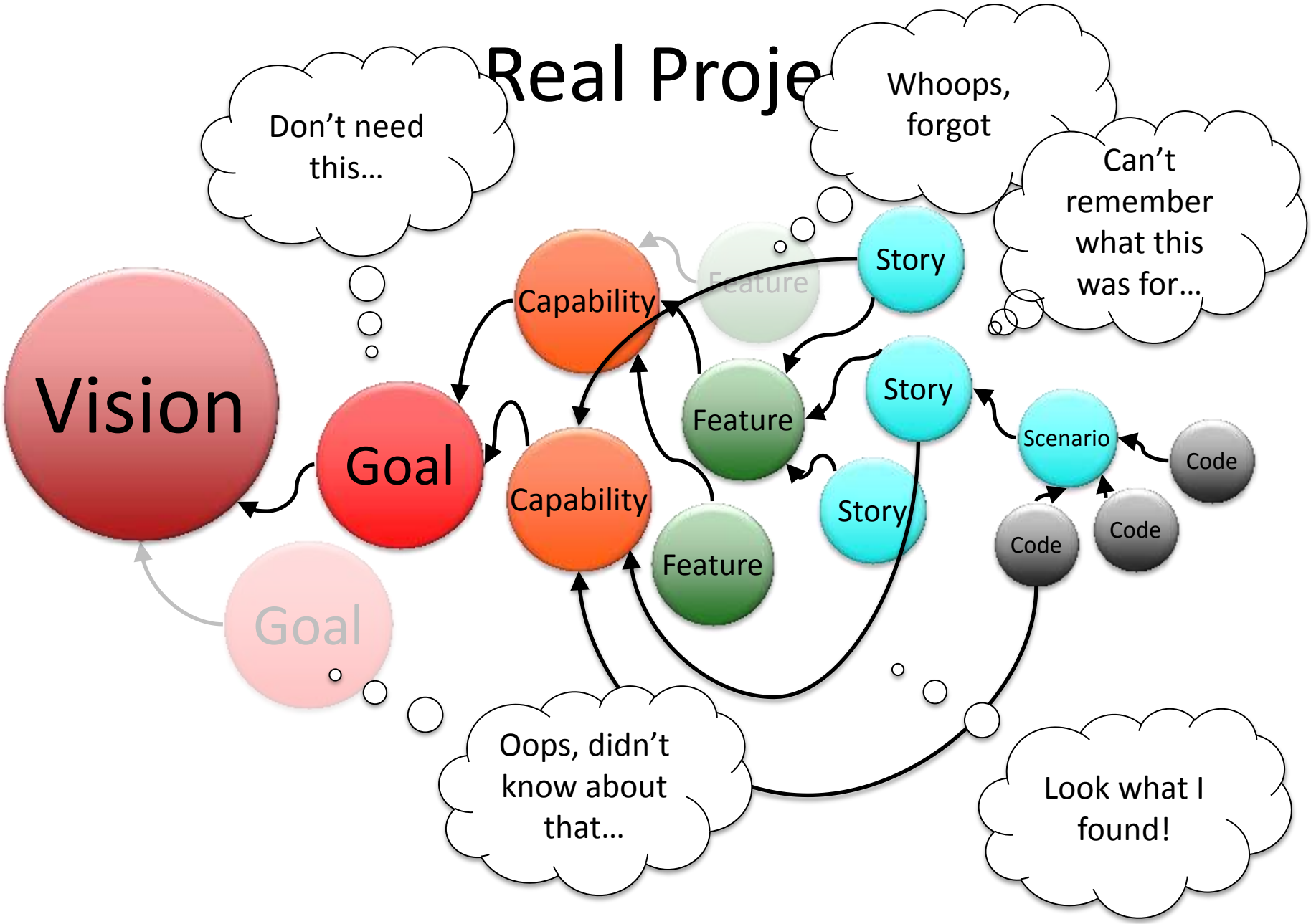
Why?

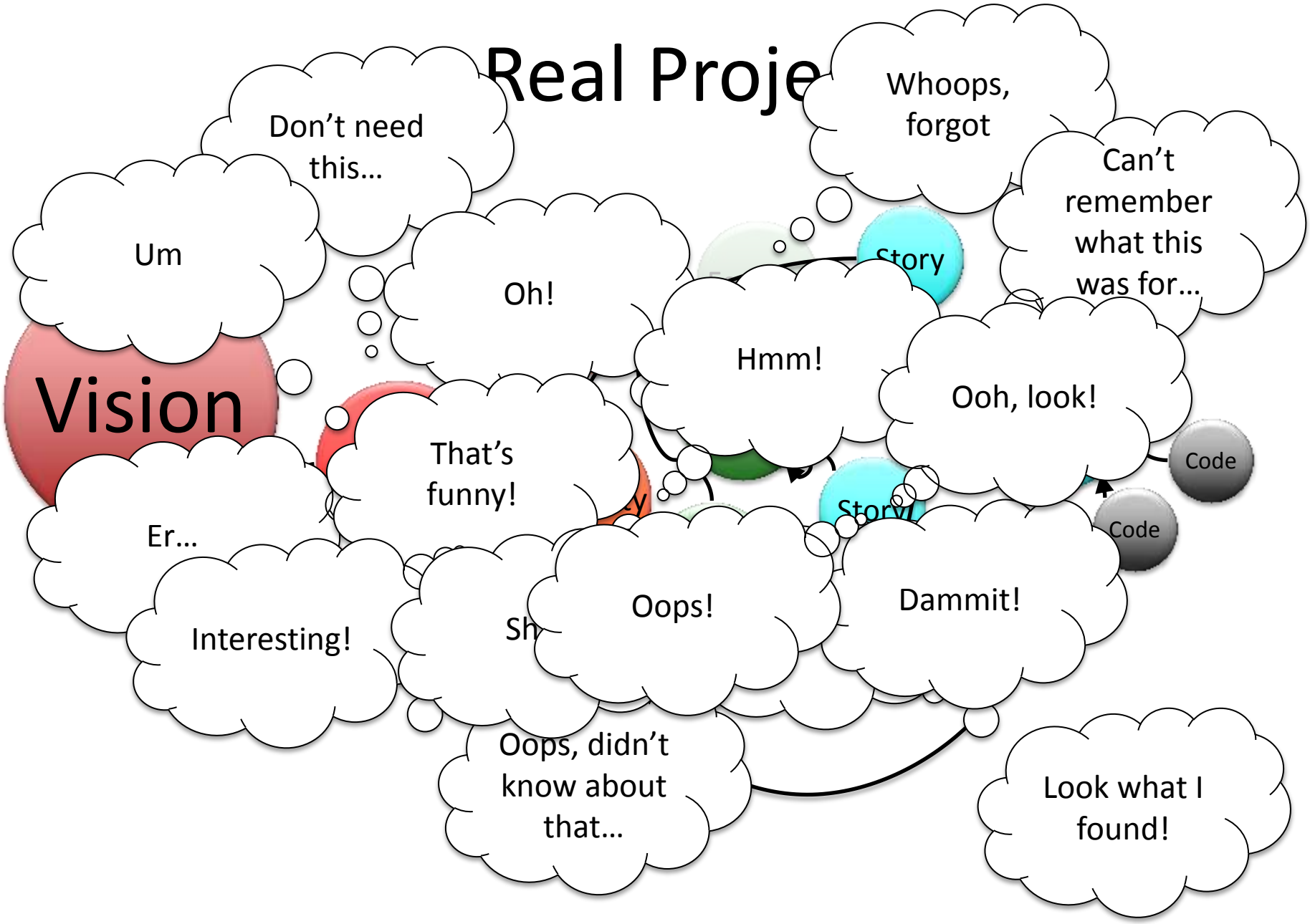
Goal

Needed
to go live

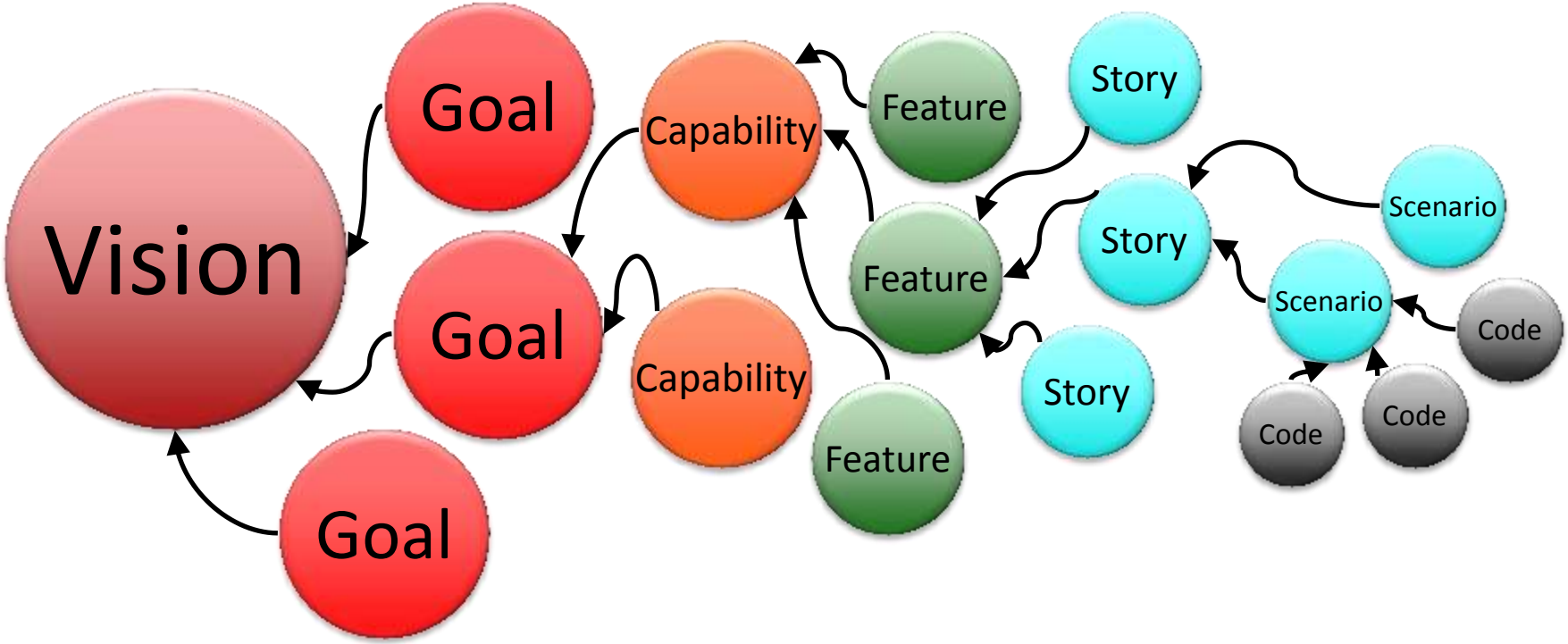
Fractal beauty



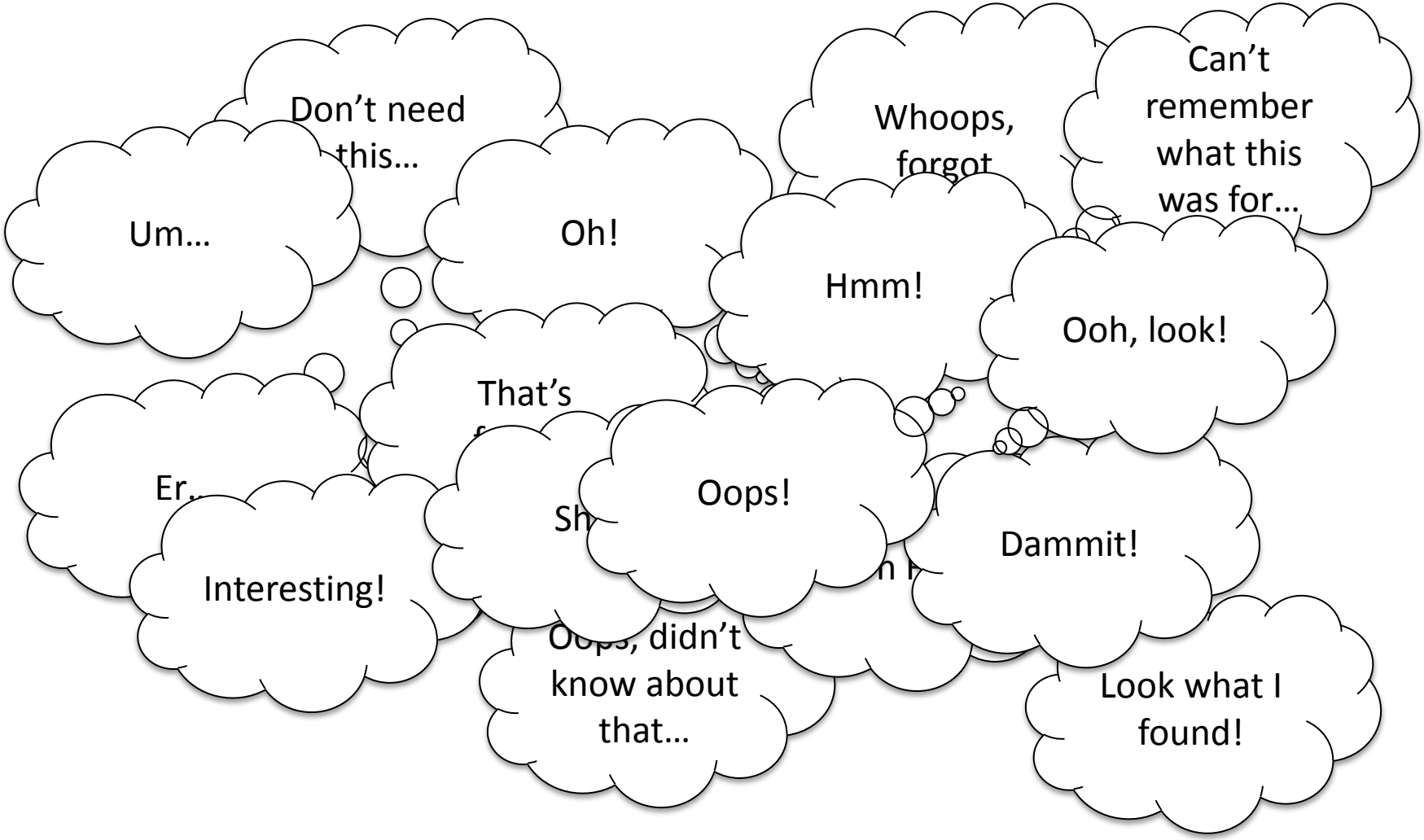

Real Proje
Don’t need this…
Whoops, forgot
Can’t remember what this was for…
Vision
Goal
Capability
Feature
Story
Scenario
Code
Goal
Capability
Feature
Story
Code
Code
Oops, didn’t know about that…
Look what I found!


Real Proje
Vision
Um
Don’t need this…
Oh!
Whoops, forgot
Can’t remember what this was for…
Story
Hmm!
Ooh, look!
Code
Code
That’s funny!
Er…
Interesting!
Oops!
Dammit!
Oops, didn’t know about that…
Look what I found!

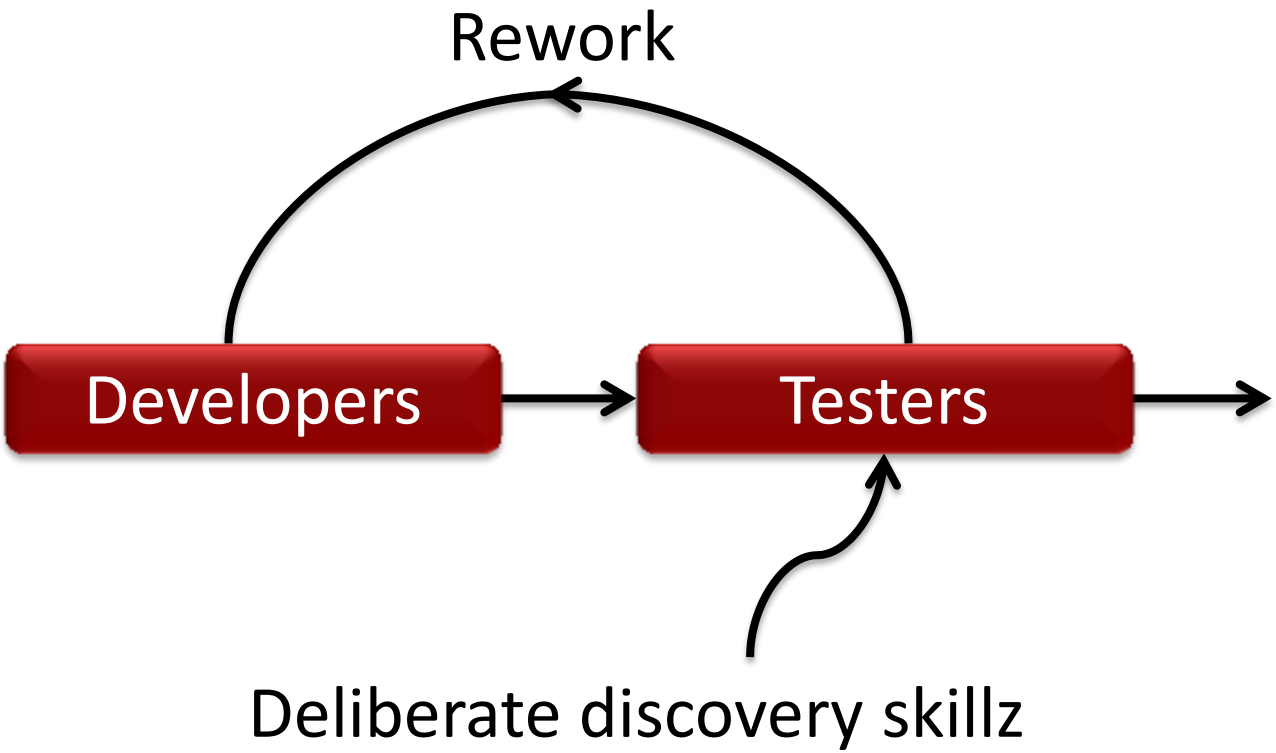
~~We're discovering how to build software by doing it~~



We're discovering how to discover stuff by doing it



Traditional

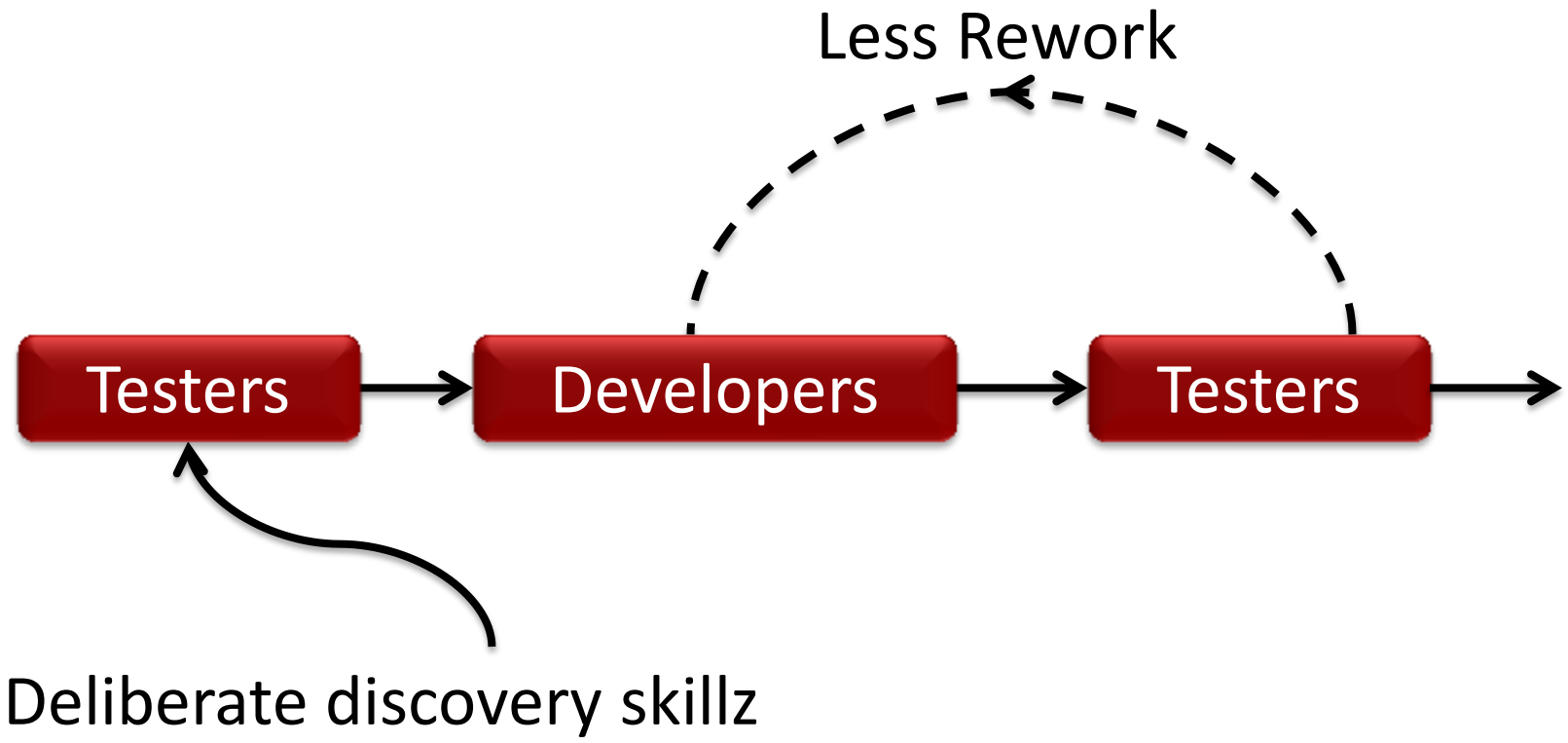


Options have value.

Options expire.

Never commit early
unless you know why.

BDD


Less Rework
Testers
Developers
Testers
Deliberate discovery skillz

Life doesn’t have
bugs,
just
apologies

BDD

Deliberate Discovery

Context

Event

Outcome

Test

A Naïve Scenario

CONTEXT	EVENT	OUTCOME
Reality. It's all good, right?	Event which leads to the outcome	Well-formed outcome

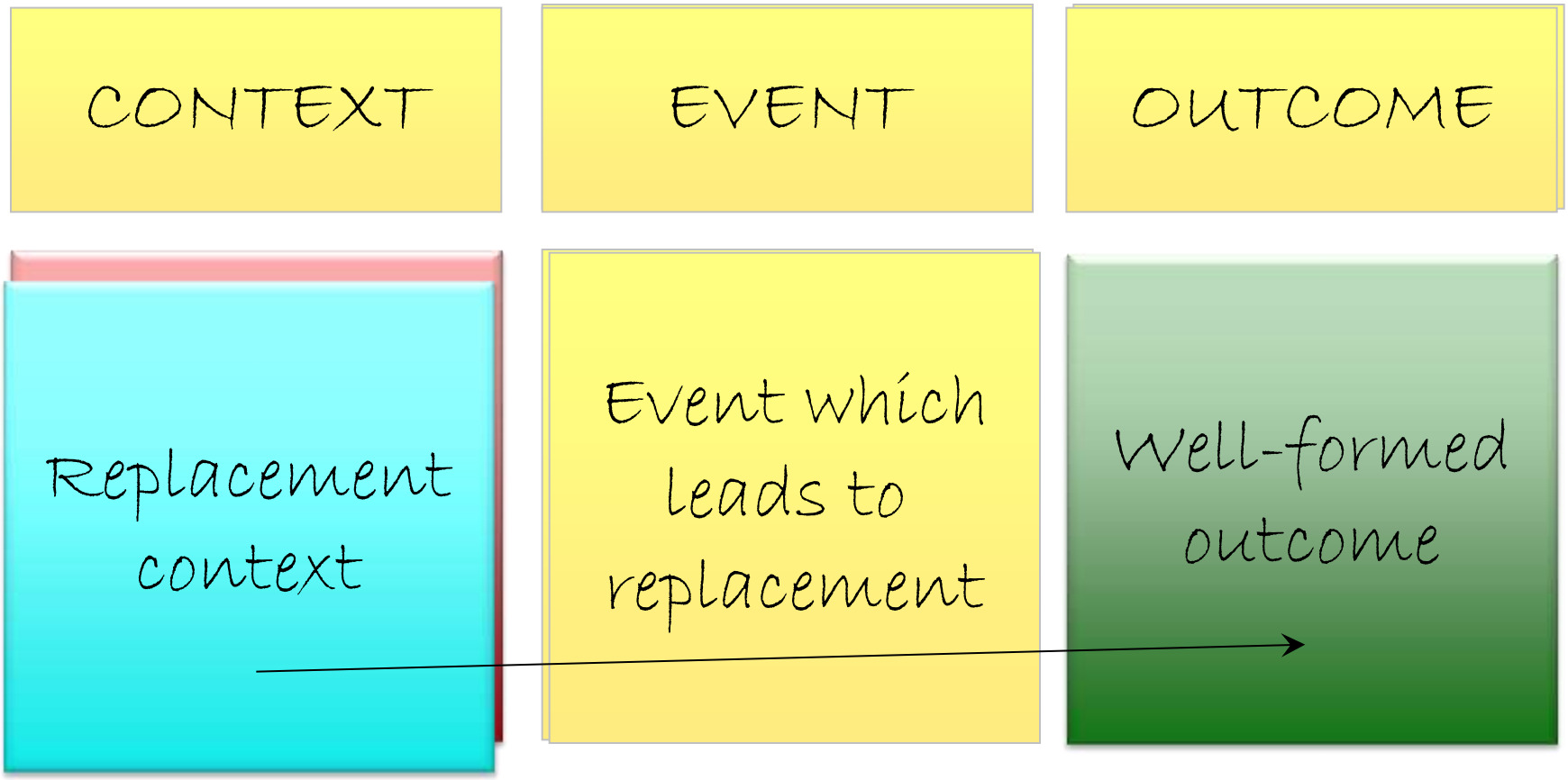
Subgoals

CONTEXT	EVENT	OUTCOME
Unwanted Context	Event which leads to the outcome	Unwanted Outcome!

Subgoals

CONTEXT	EVENT	OUTCOME
Replacement context	Event which leads to the outcome	Unwanted Outcome!

Given Scenario



Changing reality

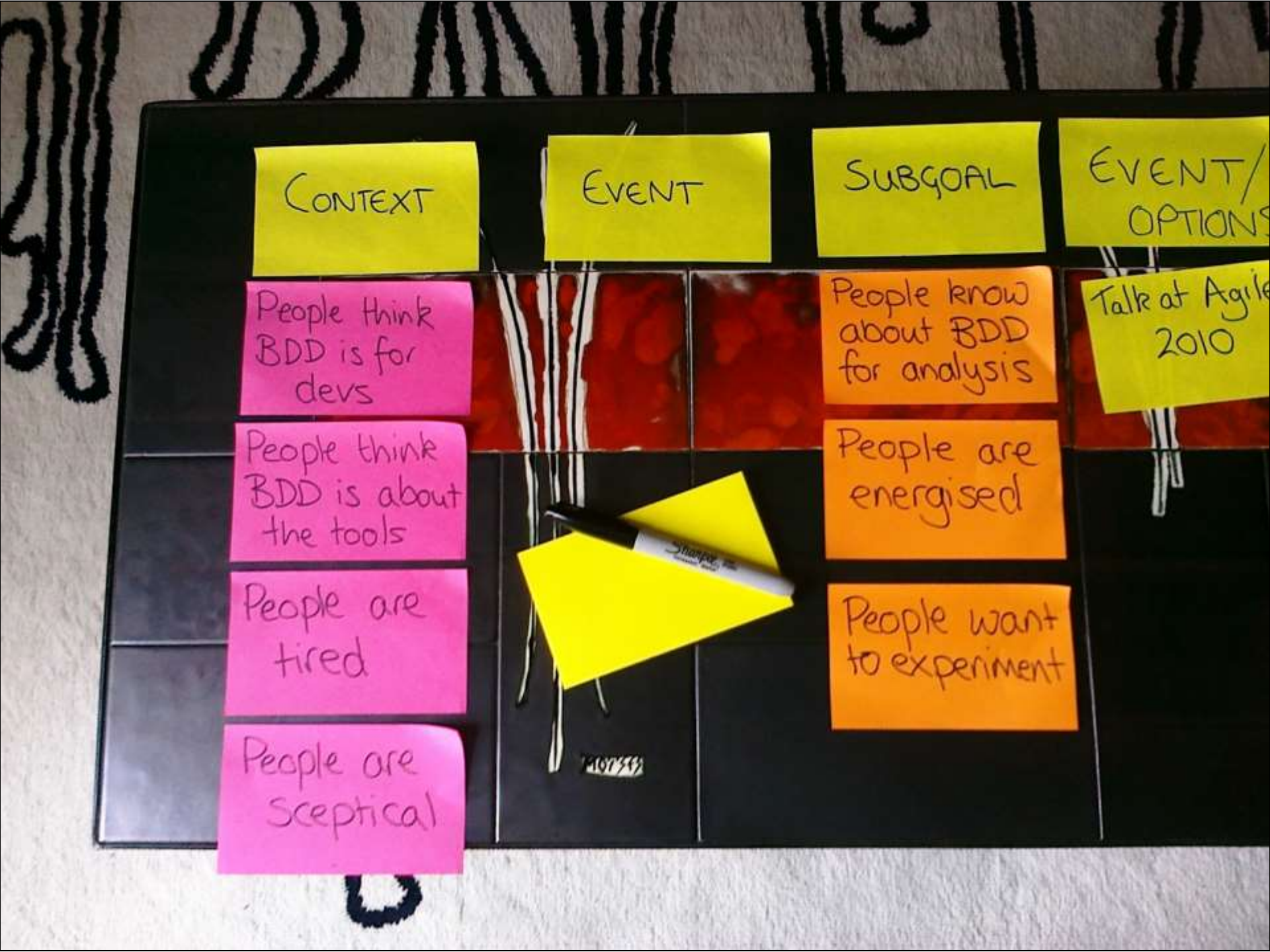
CONTEXT	EVENT	CONTEXT	EVENT	OUTCOME
Unwanted Context	Event which leads to the replacement	Replacement context	Event which leads to the outcome	Well-formed outcome

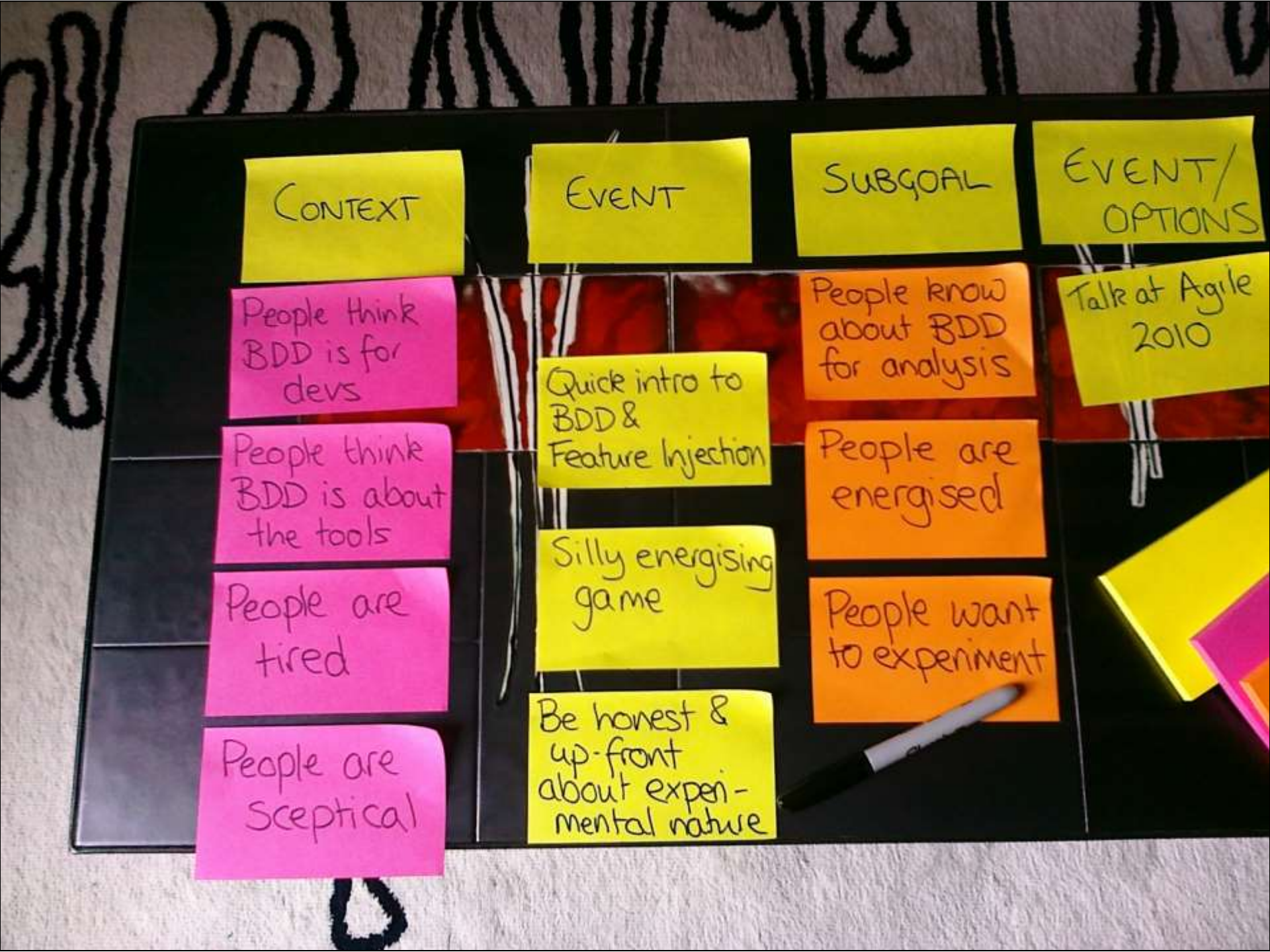
Creating options

Is there any context
which we could introduce
in which
more events
would give us
outcomes we want?

CONTEXT
EVENT/ OPTIONS
OUTCOME
TEST
People think BDD is for devs
People think BDD is about the tools
People are tired
People are sceptical
Talk at Agile 2010
People at Agile 2010 understand BDD for life
Wide eyes
Smiling
Deep in thought OR Talking excitedly
Mailing me afterwards
Twitter!
Asking me questions

CONTEXT
EVENT/ OPTIONS
OUTCOME
TEST
People think BDD is for
People know about BDD for analysis
the tools
People are energised
People want to experiment
Talk at Agile 2010
People at Agile 2010 understand BDD for life
Wide eyes
Smiling
Deep in thought OR Talking excitedly
Mailing me afterwards
Twitter!
Asking me questions

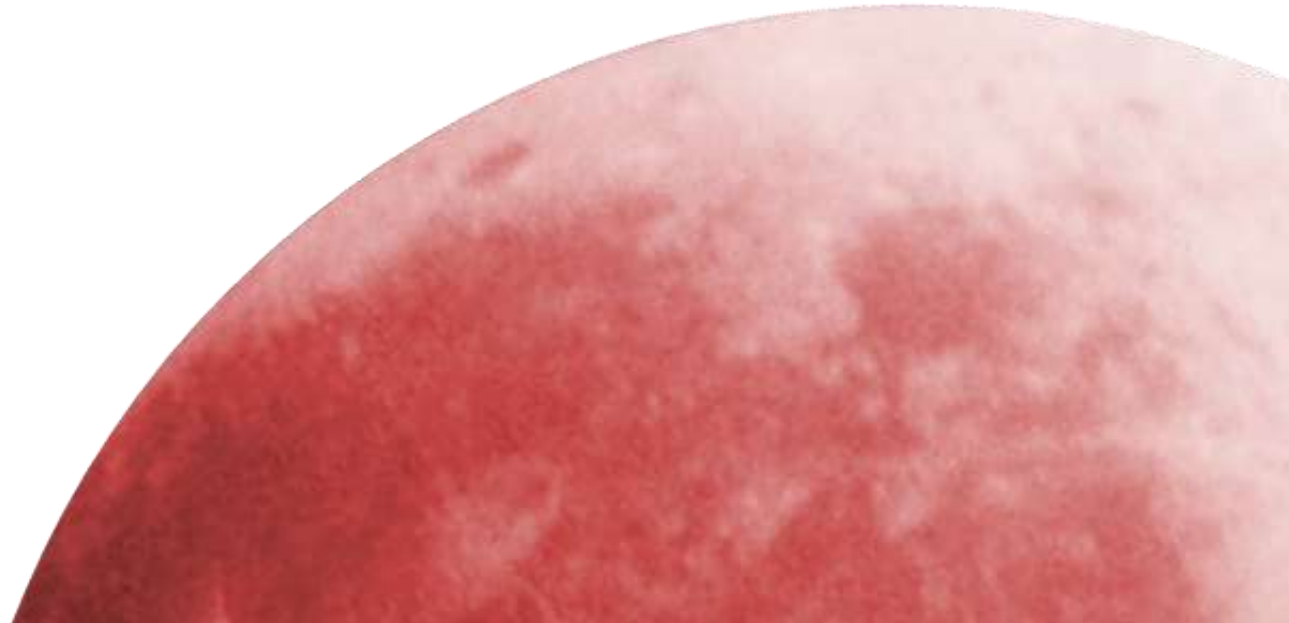

CONTEXT
EVENT
SUBGOAL
EVENT/ OPTIONS
People think BDD is for devs
People think BDD is about the tools
People are tired
People are sceptical
People know about BDD for analysis
People are energised
People want to experiment
Talk at Agile 2010


CONTEXT
EVENT
SUBGOAL
EVENT/ OPTIONS
People think BDD is for devs
People think BDD is about the tools
People are tired
People are sceptical
Quick intro to BDD & Feature Injection
Silly energising game
Be honest & up-front about experi-mental nature
People know about BDD for analysis
People are energised
People want to experiment
Talk at Agile 2010

People at Agile 2010 understand BDD for life
Wide eyes
Smiling
Deep in thought OR Talking excitedly
Mailing me afterwards
Twitter!
Asking me questions

A story about
sleeping deeply

The Next Goal

flickr: urbandecay

Liz Keogh
http://lizkeogh.com
@lunivore