

# Developer!

## Developer Developer

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### UK Community Events



sketchnotes from

# DDD North 2015

October 24, 2015

## - INTRO -

Sketchnoting is a visual way of storing ideas, which boosts concentration and memory ... it's great fun too!

Here is a series of sketchnotes which we have gathered from the DDDNorth Conference 2015. Many of these were taken by people who had little or no experience of sketchnoting prior to the conference.

We hope we can inspire you to try out sketchnoting for yourself!

sketchnotes by

Matt Ferron @Matt\_Ferron

Derek Graham @deejaygraham

Steven Hill @MrStevenHill

Ste Prescott @ste\_prescott

Naeem Sarfraz @naeemsarfraz

Chi Goc Voong @mecodepanda

# sketchnoting for developers

Derek Graham  
@deejaygraham

## SKETCHNOTING

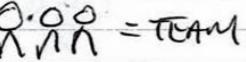
DERET GRAHAM

- INFORMATION LITERATORS
- WHEN WE ARE KIDS WE DRAW  
*(ALL CHILDREN ARE ARTISTS)* PICASSO
- VISUAL THINKING
- AGILE 2015  
LITTLE BOOK OF SKETCH NOTES - EBOOK  
USED BY ATLASIAN - ON WALLS

"THE WINNER IS THE BEST IDEA, NOT THE BEST ARTIST"

- NO 'CORRECT' WAY
- COMMUNICATION

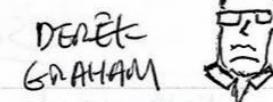
\* THE SKETCHNOTE HANDBOOK \*

- USE SYMBOLISM  = TEAM
- MINIMAL COLOURS TO HIGHLIGHT
- SINGLE PEN  X1
- INDIVIDUAL STYLE

- CAN USE A TABLET

- WTF?**
- MEMORABLE 
- BCG PICTURE
- CONCEPTUAL

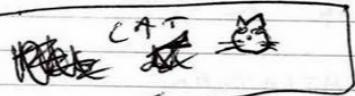
Look AT  
PEOPLES  
NOTES  
EXAMPLES  
ONLINE



## SCIENCE

HANDWRITING > KEYBOARD  
VISUAL > TEXT

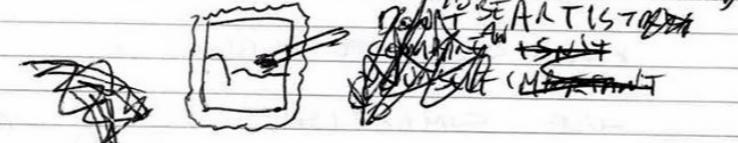
Dual coding  PAIR theory  
IN PROCEDURAL



MULTIPLE  
DRAWING  
AIDS MEMORY

REASONS NOT

- IMMEDIATE RECALL
- TOTAL CLARITY NEEDS



YOU DON'T NEED  
TO BE AN ARTIST  
TO DRAW  
IDEAS

IDEAS NOT ART 

GRAPHIC FACILITATOR

JEANNIE CHANG

WHAT YOU DRAW IS  
GOOD ENOUGH

USE  
EMOTICONS 

SEAN WES

FONTS

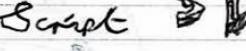
YA YA YA

BANNERS

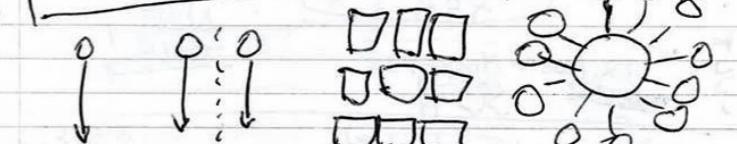
PENS  
PENS

lower case  
BLOCK

SUPER  
Script



AYOUTS



- PLAN
- TITLE
- SPEAKER
- TYPE OF TALK
- LAYOUT?
- PLAN

ACTIVE  
LISTENING

- FOLLOW THE SPEAKER
- EMOTION
- JOKES
- QUOTES

## LISSEN

TWITTER TEST  
TOP TEN POINTS  
PRIORITY  
CAN'T CAPTURE ALL

PLAY NOTES  
TO PERSONAL  
LEARNING STYLE

SKETCH NOTE ARMY

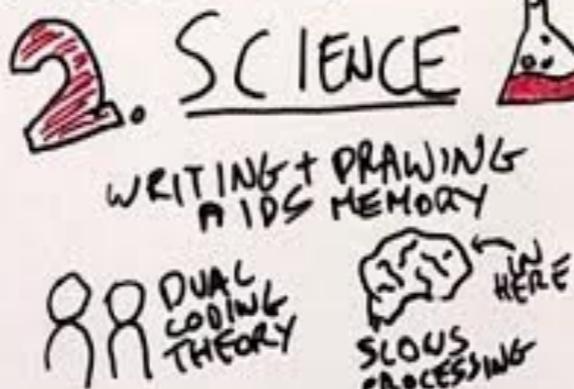
- NOUN PROJECT
- EMBRACE MY STAKES
- SKETCH NOTE WORKBOOK

SHARE  
NOTES

- #
- TWEET
- #DIDNORTH

# SKETCHNOTING

BY MRSTEVENHILL



## 3. STYLES

lower case  
**SUPER BLOCK**

Script

TEAM



QUOTES

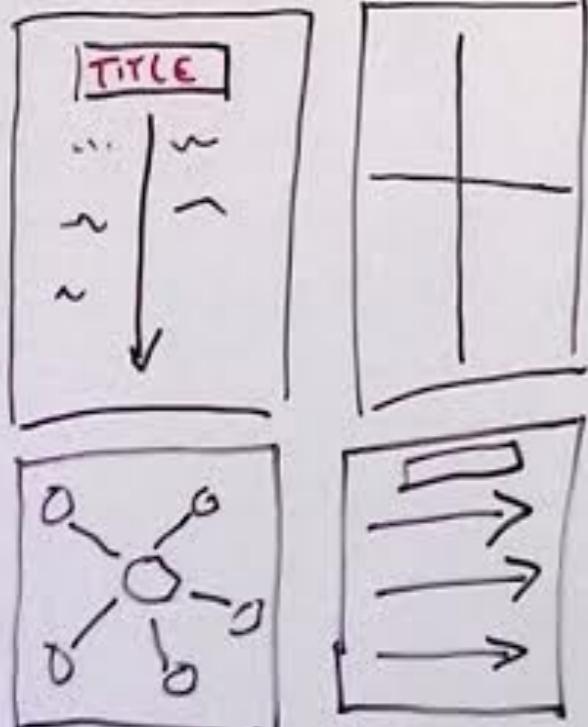
+ BULLETS

INDIVIDUAL



## 4. LAYOUT

PLAN IN ADVANCE  
OR FREE STYLE



## 5. LISTEN

ACTIVE LISTENING  
+ FOLLOW THE SPEAKER  
+ HIGHLIGHT EMOTION  
+ JOKES  
+ QUOTES

CAPTURE  
MOST  
IMPORTANT  
POINTS

THE TWITTER  
TEST

NOT JUST  
WORDS

EMBRASSING  
SPACE  
MAKE  
SKETCHING

## 6. SHARE

TWEETS  
BLOGS  
WHITEBOARDS  
WALLS

WITH  
COLLEGUES  
WITH THE  
WORLD

#HASH  
TAGS

## 7. FURTHER READING

- SKETCHNOTE ARMY



- NOUN PROJECT

OC @ DEEJAYGRAHAM

OC @ BOHDESIGN

FINDING MARBLES

OC SEANWES.COM

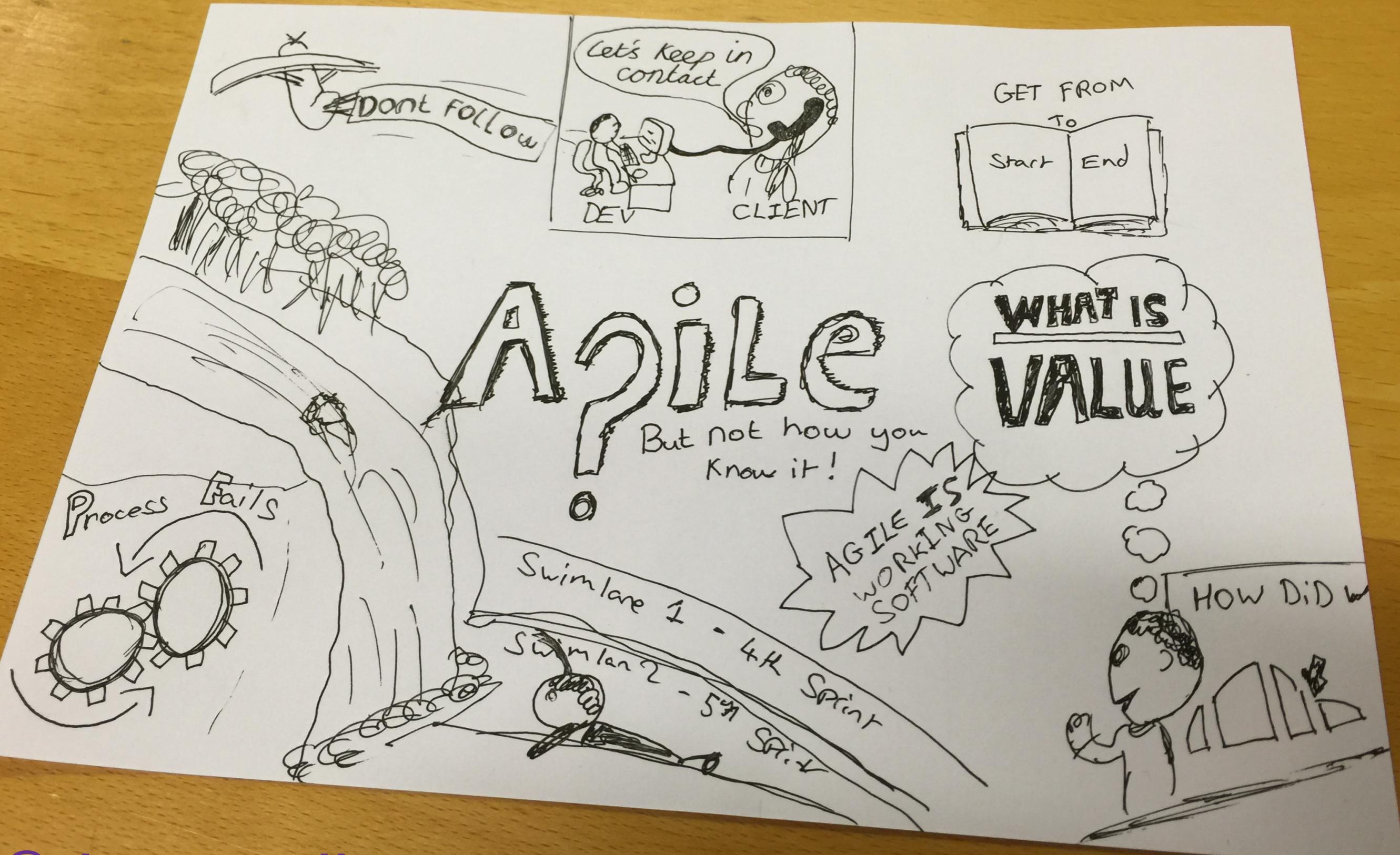
OC JEANNELING.COM

IoT Development Fun with  
.NET and Raspberry PI  
Christos Matskas  
[@ChristosMatskas](https://twitter.com/ChristosMatskas)



@Matt\_Ferron

You keep using the word agile,  
I do not think it means what  
you think it means  
Nathan Gloyn

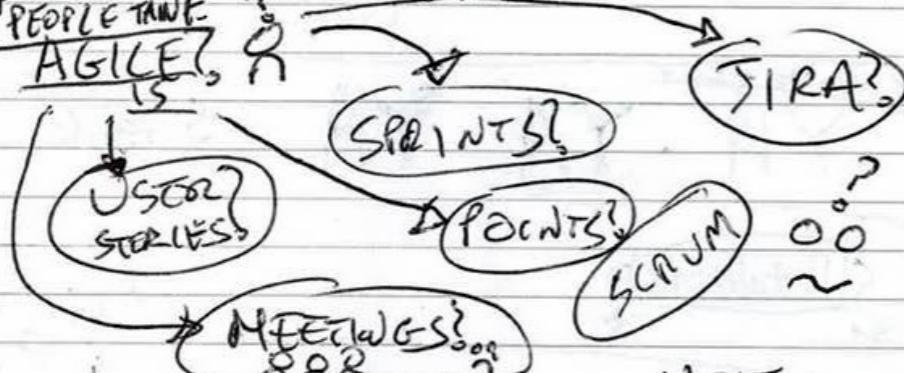


© NATHAN GOW

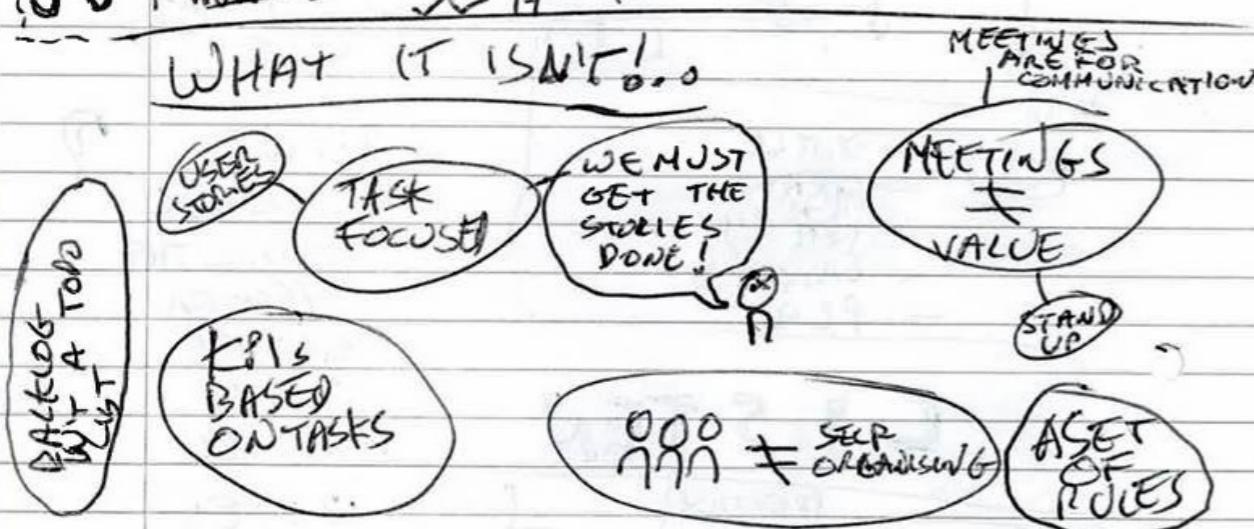


## YOU KEEP USING THE WORD AGILE...

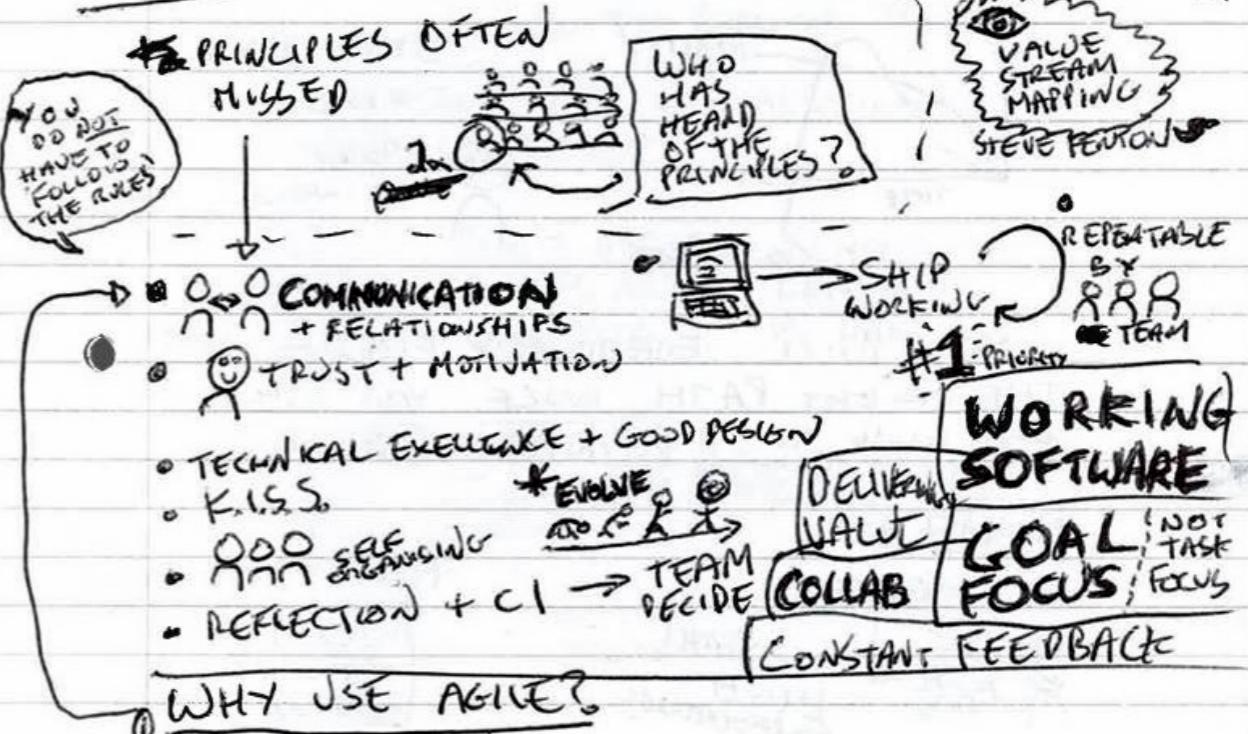
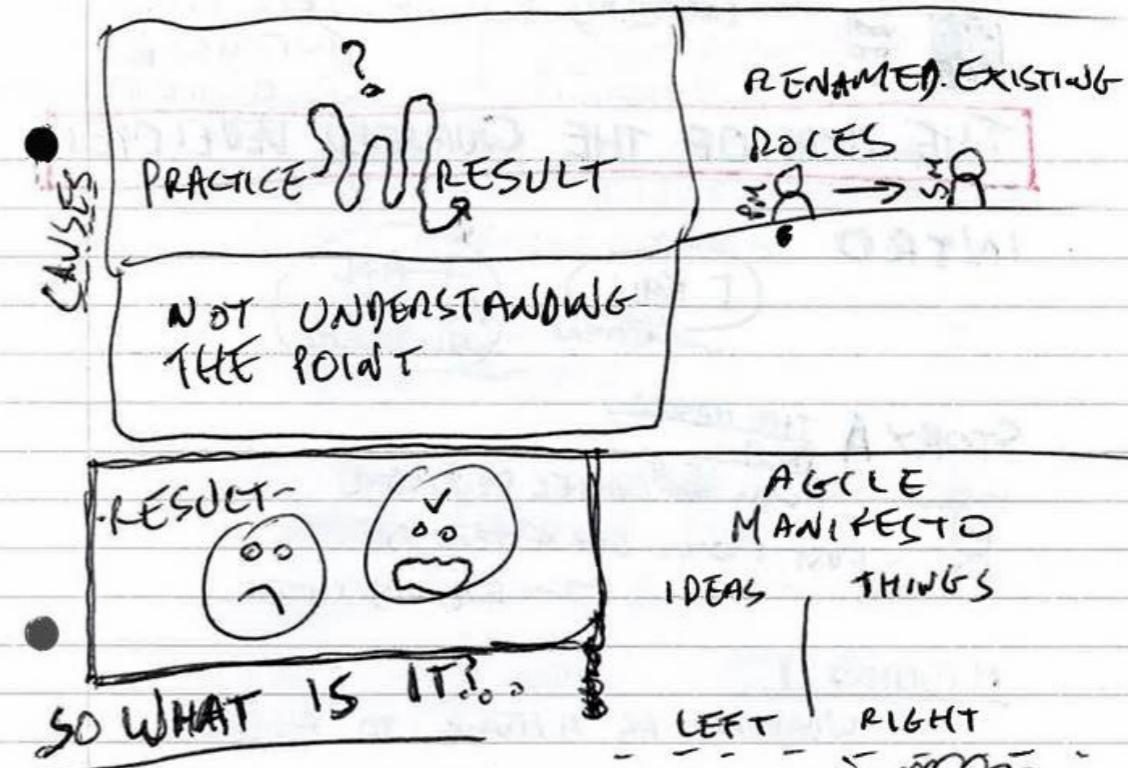
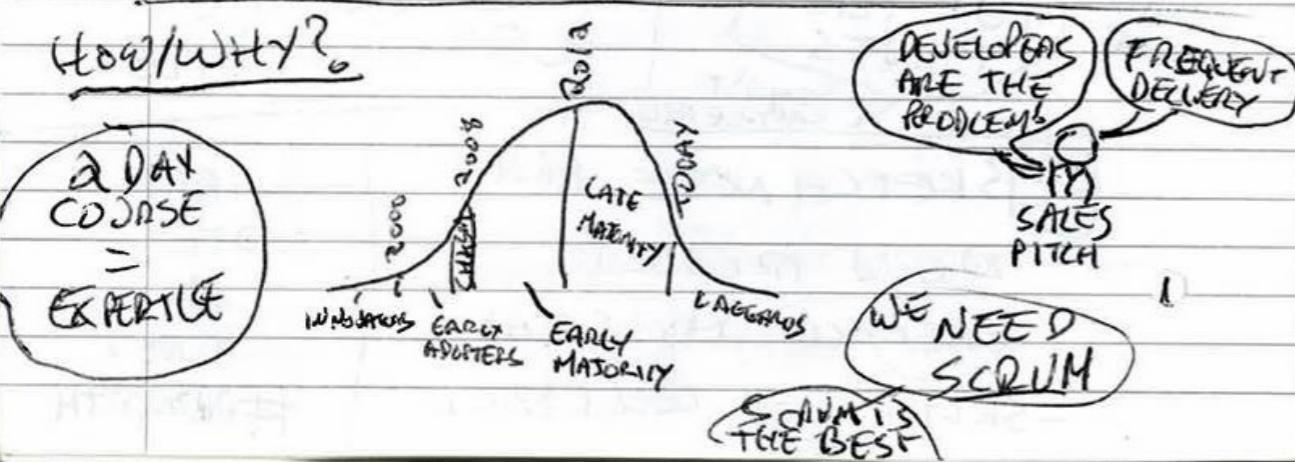
WHAT PEOPLE THINK  
AGILE IS



## WHAT IT ISN'T...

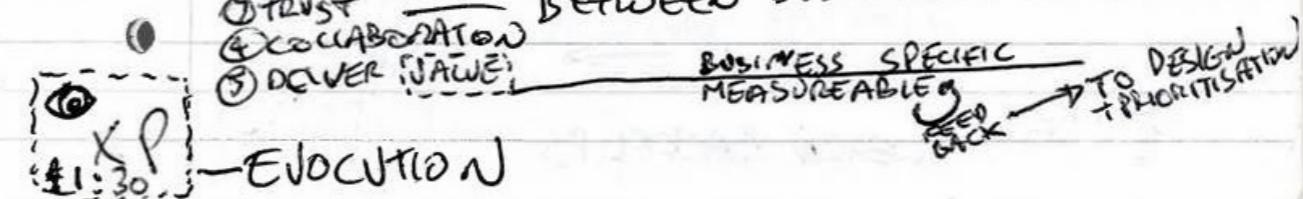


## How/Why?



## WHY USE AGILE?

- ① TRANSPARENCY
- ② TRUST
- ③ COLLABORATION
- ④ DELIVER VALUE



# Why Service Oriented Architecture?

Sean Farmar

# Why SOA?

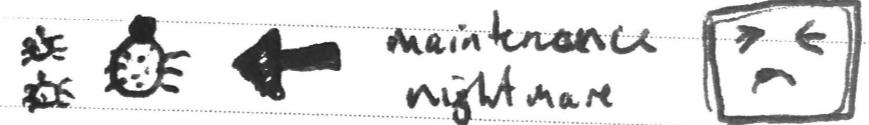


Sean Farmer

THE EVO R. →

@farmer

Small monolith → \$ success → features + + ↴

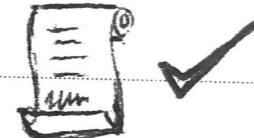


reduce

Coupling

No sharing

Only Contracts for communication



Coupling

Afferent Efferent



Coupling  
Impossible.

MINIMIZING  
IS KEY!!!

DEPENDENCIES

DEPENDS ON

Temporal

TIMING, RPC

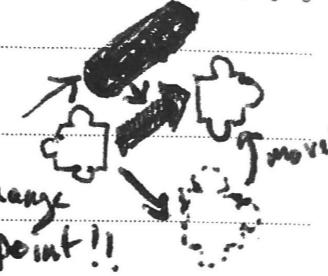
- Async messaging
- Publish/Subscribe

+ Forget.

Spatial

DEPLOYMENT POINTS

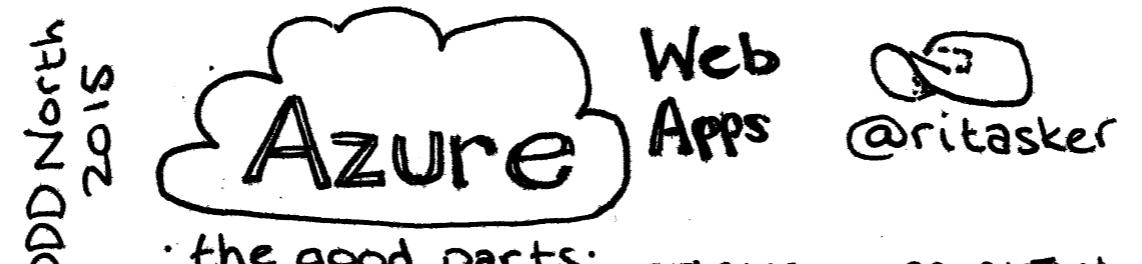
need to change endpoint!!



@mecodepanda

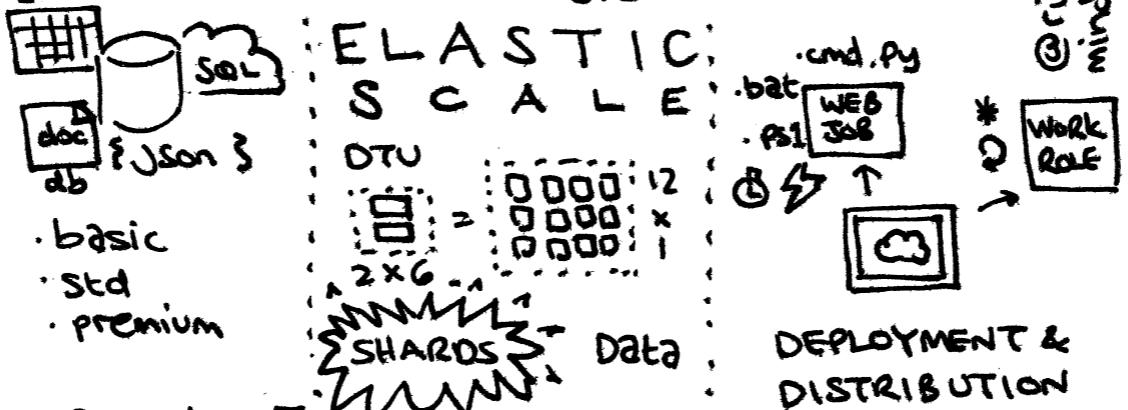
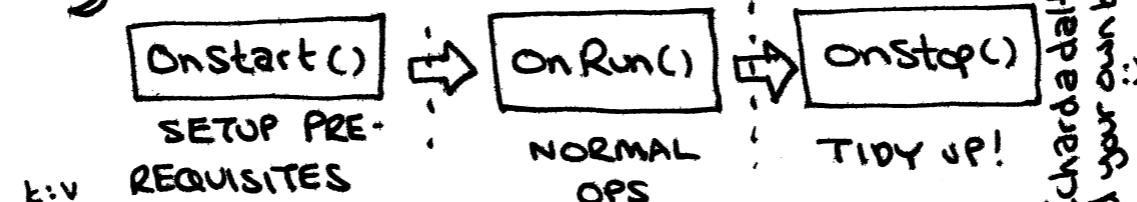
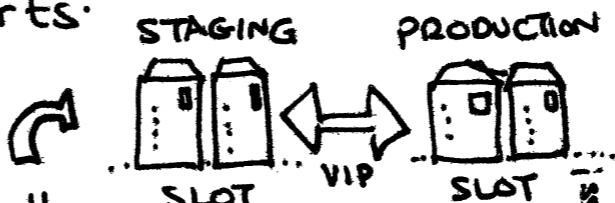
Azure: the good parts

Richard Tasker  
@ritasker



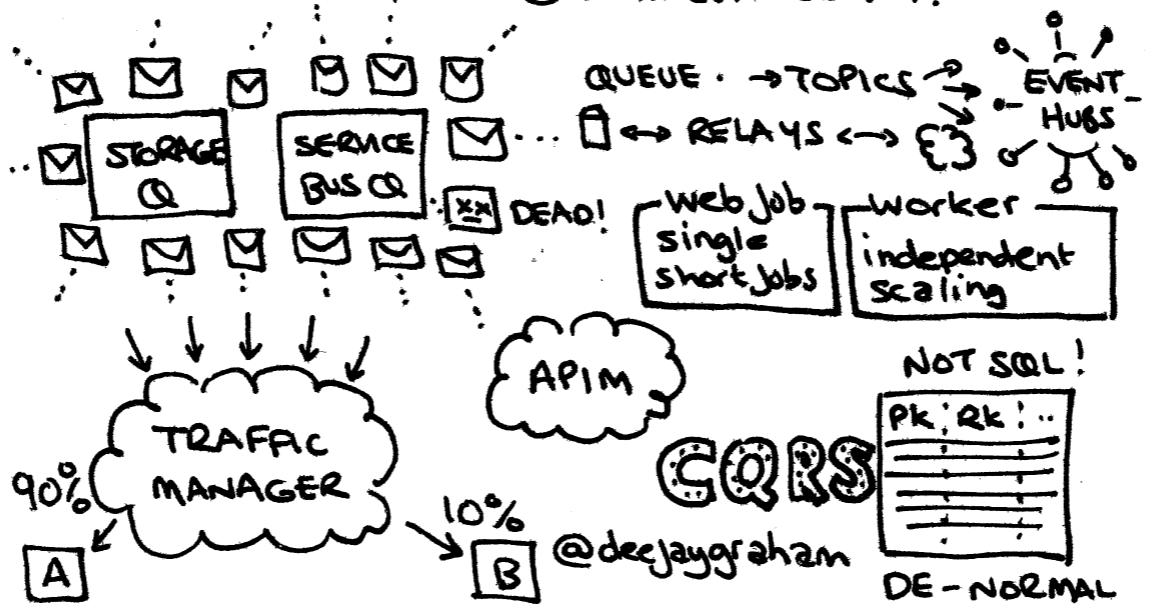
the good parts:

- deploy with
- or PowerShell



TROY HUNT  
"Have I been pwned"

ARTIFICIAL DELAY!



@deejaygraham

# Microservice Architectures

Peter Shaw  
@shawty\_ds

DDDNorth  
2015

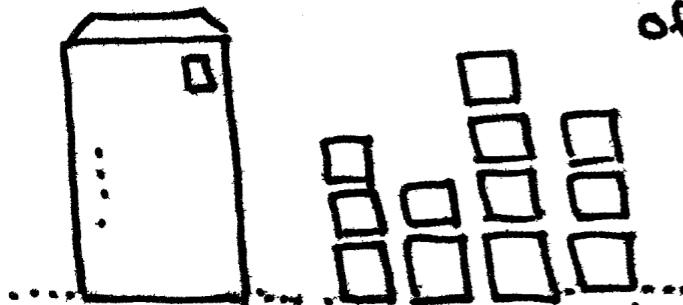
# Microservice Architectures

PETER SHAW

@shawty-ds

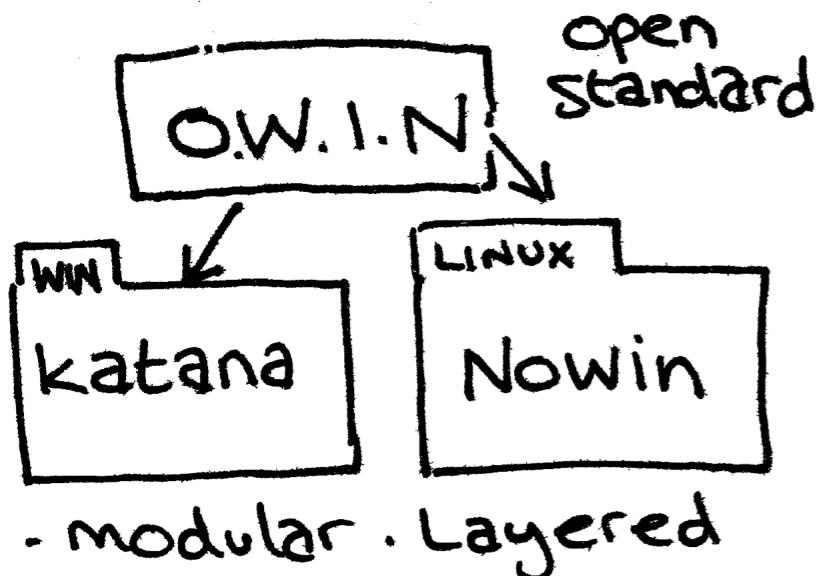


Architectural Design Pattern

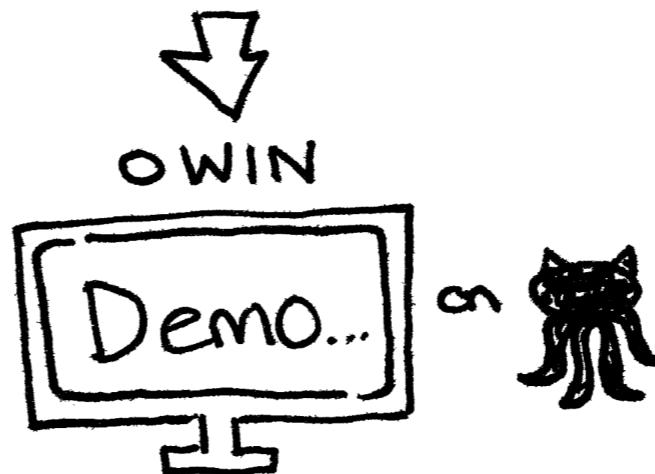


separation of concerns  
not platform specific

MONOLITH / 1 orders  
review customers recommend



## System.Web



@deejaygraham

# Real world life with Git

## Matteo Emili

## WHY?

- GEO DISTRIBUTED TEAM
- BRANCHING + HISTORY > TFSVC
- HISTORY RETAINED AFTER MERGING EASILY
- MATTEO LOVES IT



MATTEO

TFS  
↓  
GIT



POWERFUL @ THE COMMAND LINE OR POWERSHELL

USE RELEASE CODE NAMES

NOT SURE WHAT BENEFITS THERE ARE FOR MIGRATING FROM TFS VC FOR .NET

**TAG YOUR RELEASE**

GIT FLOW TO MANAGE RELEASES WOW (AND CONVENTIONS) MUCH

IT'S HARD TO GET COMMAND LINE SOURCE CONTROL WOW EXCITED ABOUT



# The myth of the qualified developer

Pete Smith



# Monoliths to Microservices. A Journey

## Sam Elamin

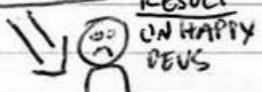
NEED TO  
GET BETTER  
AT PORTFOLIOS

SAM ECAMIN  
@SAMECAMIN

## MONOLITHS → MICROSERVICES

### FAIL FAST

WHY DO MONOLITHS  
GET BUILT?



GROWING  
FEATURES

- ONE DB
- UNKNOWN IMPACT
- LONG + COMPLEX PROJECTS

### MICROSERVICES

PUB - SUB

PUBLISHER

MESSAGE

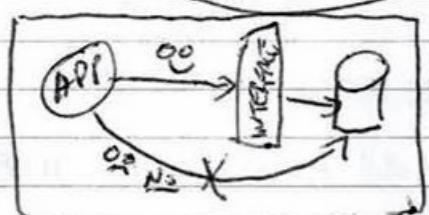
TOPIC

DOMAIN  
DRIVEN  
DESIGN

ERIC EVANS

SUBSCRIBER

SUBSCRIBER

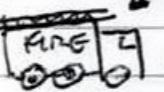


RACE HAZARDS!

- THINGS HAPPENING IN WRONG ORDER
- IMPACT ON CUSTOMERS

LOGICAL GATES

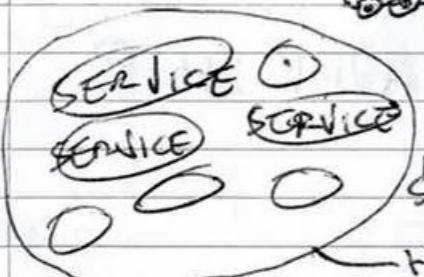
UNCLEAR  
BOUNDARIES



= STRICT  
CODE  
REVIEWS

TESTING IS  
HARD!

DEPLOYMENT NEEDS  
TO BE CONSISTENT!



TOO  
MANY  
SERVICES?

COMPLEXITY  
IN NUMBER

COMPLEX  
INTERACTIONS

HEALTH

HOW TO  
MONITOR

= STATE

— SELF MONITORING

— SERVICES CAN TACK

! REDUCED CODE COMPLEXITY  
INCREASED INTERACTION COMPLEXITY

GET THE BUSINESS INVOLVED  
— DON'T DICTATE THE SOLUTION  
— KEEP THEM UNDERSTANDING

## ! DATA DUPLICATION

PREFER  
DUPLICATED  
DATA THAN  
SYSTEMS?

### ORCHESTRATION LAYER

- CONTROL ORDER OF EVENTS
- MANAGE DEPENDENCIES

### FAILURE HANDLING

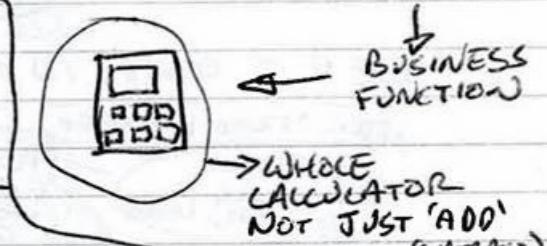
BUSINESS  
CONFIDENCE  
IN DEVELOPERS ↑

CODE  
OWNERSHIP  
→ STATS  
→ MONITORING  
→ ORDER NUMBERS

DOCKER  
VNEXT

TRY WRITING NEXT FEATURE AS A SERVICE

AUTOMATED DELIVERY  
IS A REQUIREMENT  
— DEPLOY 1+ SERVICES  
AT ONCE



BUSINESS  
FUNCTION

WHOLE  
CALCULATOR  
NOT JUST 'ADD'  
(SUBTRACT)

# MONDULUS TO MICROSERVICES

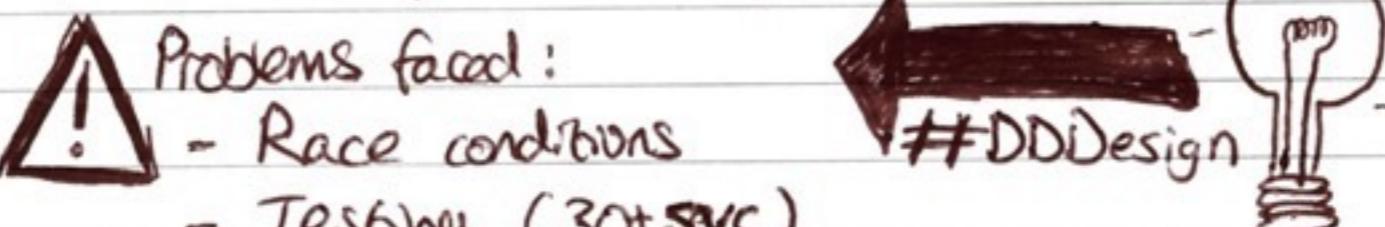
@Samuelamin

DDD 2015

MUD + COMPLEX

Business Not Buying

Back to drawing board



#GetInvolved in VISION meetings

MONITORING

- effect of your change
- Stats driven by AT

Does our PLATFORM support the vision?

@naeemsarfraz

# Logging & Monitoring

Joel Hammond-Turner  
@ramesses



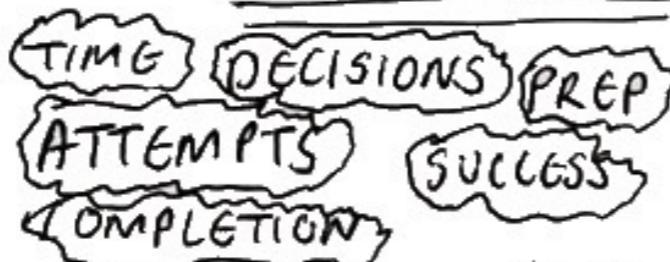
DO NOT IGNORE

## EXCEPTIONS!

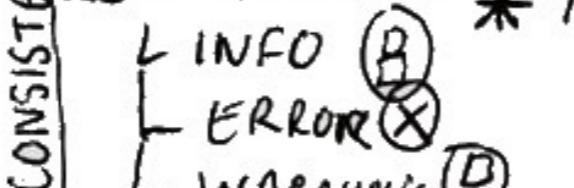
## LOGGING

LOG AS IF IT'S YOUR  
ONLY OPTION

## LOG CONTEXT



## LOG LEVELS



\* Raygun.io \* App Dynamics  
\* Metric.NET \* Serilog

IT'S ALL FUN + GAMES  
UNTIL YOUR CUSTOMER  
BLOCKS THE RAYGUN.IO  
DOMAIN!!

{ THIS HAS HAPPENED }  
{ TO US!!!! }

@Matt\_Ferron

# DDD NORTH 2012



LOGGING



MONITORING

Joel Hammond - Turner @rammases

A DEEP UNDERSTANDING OF

SOFTWARE

IN

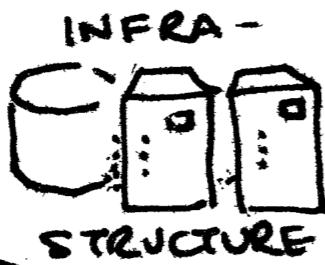
PRODUCTION

WRAP CALLS

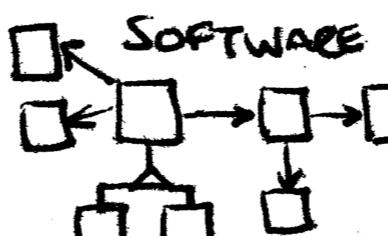


IN STORMWATCH

DEPLOY



AFFECTS



PERF.  
MONITOR

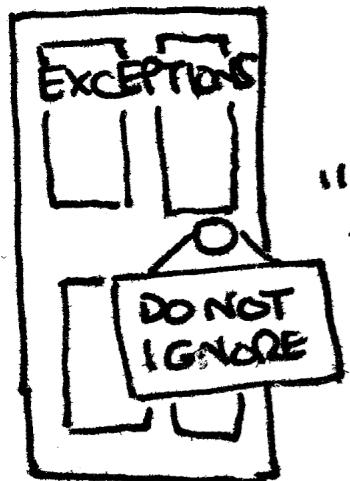


MONITOR  
HEALTH

DB

SILENT  
ERRORS

- handle & warn



"NO SUCH THING AS AN EXPECTED EXCEPTION"

- capture all the data
- inner & aggregate exceptions

ONE LINE OF LOGGING  
MAY BE ALL YOU GET!

LOG:

- ATTEMPTS
- DECISIONS
- PREPARATION
- SUCCESS
- TIMING
- COMPLETION

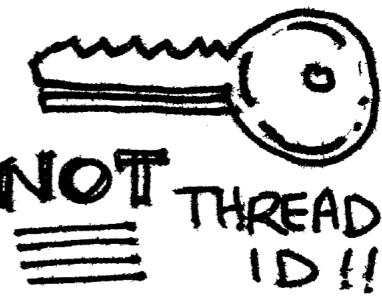
"LOG AS IF YOU  
WON'T HAVE  
ANYTHING ELSE!"



raygun.io

@deejaygraham

CONTEXT WITH  
EVERY LOG -



A CORRELATION  
STRUCTIVITY

SPLUNK NOT THREAD ID!!!



METRICS.NET

SERILOG

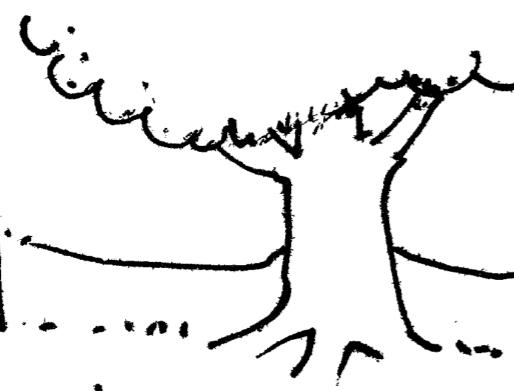
ETW

AKKA DINERS

@deejaygraham

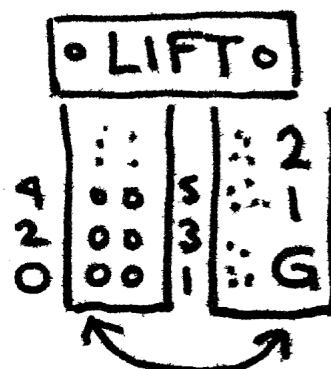
# Don't Make Me Feel Stupid

Liam Westley  
@westleyl



# STUPID!

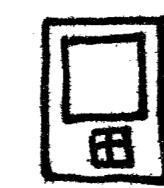
embrace different paths



Regional Variation:

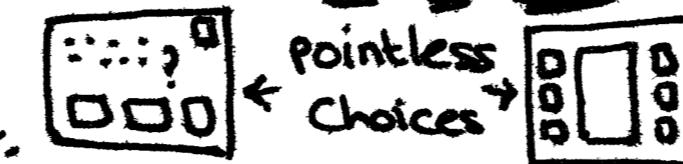
WINDOWS

TMI

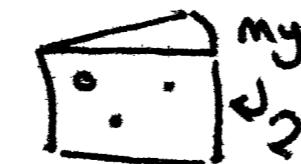


VIEW STATE

APPLE  
TLI

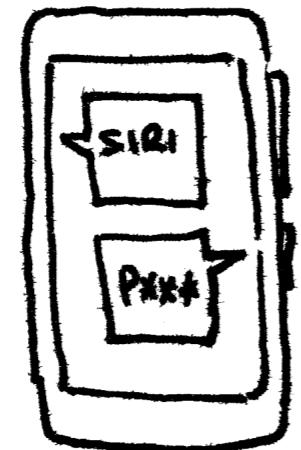


who moved

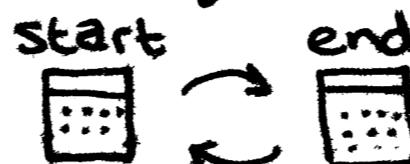


Android

Surprise  
your user  
in a good  
way!

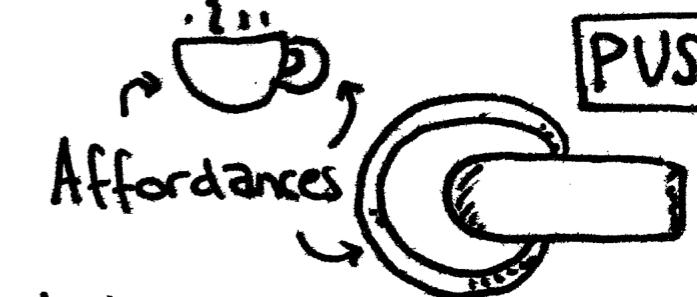


Beware  
the  
end  
of  
March!



make friends with  
your designers

PUSH



"We can and should question design decisions" @deejaygraham

liam Westley DDDNorth  
2015  
@westleyl

IF YOU DON'T BUILD  
IT, BE READY FOR  
YOUR USERS TO TRY  
TO BUILD IT

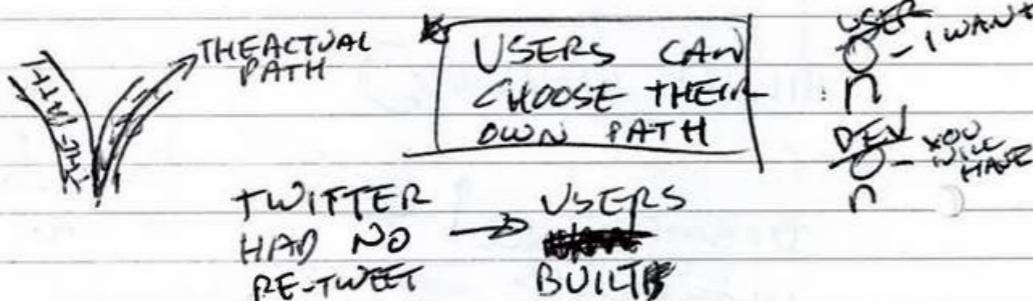
@deejaygraham

## DON'T MAKE ME FEEL STUPID

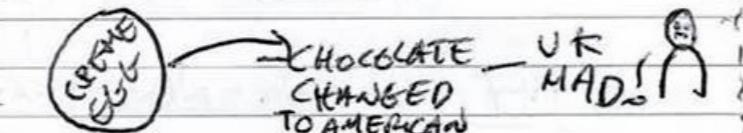
MOBILE TABLET.

VARIOUS UI

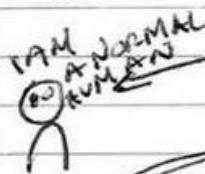
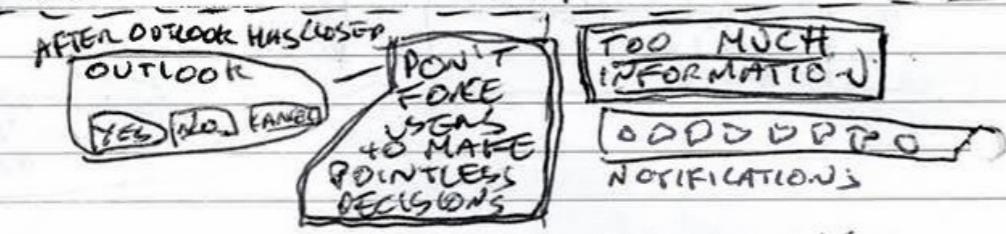
"TWO ROADS DIVERGED IN A WOOD, AND  
I TOOK THE ONE LESS TRAVELED..."



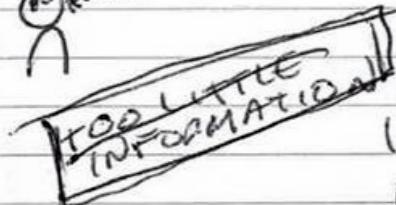
## REGIONAL DIFFERENCES



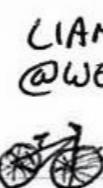
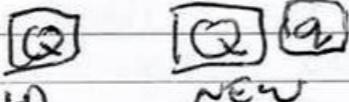
RED = GOOD IN CHINA



TECH TERMS  
"RESTORING VIEWSTATE"  
"SOAP ERROR"



## IOS KEYBOARD CASE



## CONSISTENCY

RECEPTION G  
(PRESS 0)

4G  
3G  
G

ANDROID SETTINGS  
MENU  
KEEP CHANGING

ctrl+F = FORWARD  
GMAIL IN OUTLOOK

NOT FIND

## SURPRISE YOUR USERS

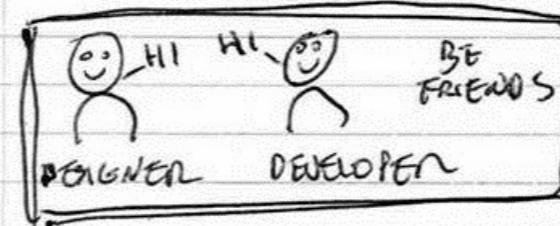
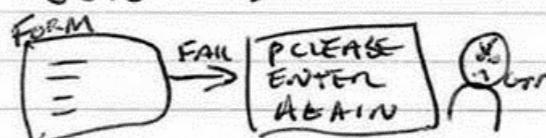
IN A GOOD WAY



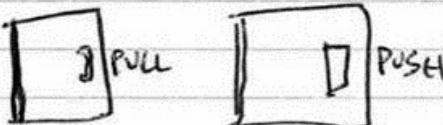
AUTO CENSOR VOICE MESSAGES

SWITCHING DATES  
- CONFIRM FOR  
IMPORTANT/RISKY  
CHANGES  
24/07  
07/24

## ENTER USER DETAILS



AFFORDANCE  
- GUIDING HAND  
TO USERS



DDD North is a free one day technical event for developers, a day of learning, discussion, contribution and involvement in the community in the North East, North West, Midlands and Scotland.

The goal of DDD North is to provide free technical education with the added benefit of the networking possibilities with peers and the development of relationships across the .NET Industry!

<http://www.dddnorth.co.uk/>  
<https://twitter.com/dddnorth>

