

Developer!

Developer Developer

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...

Bill Beckett - @billybeckett

Matthew Edmondson - @eddy556

Matt Ferron - @Matt_Ferron

Derek Graham - @deejaygraham

Steven Hill - @MrStevenHill

Ian Oxley - @ianoxley

Ste Prescott - @ste_prescott

Naeem Sarfraz - @naeemsarfraz

Luke Stringer - @lukestringer90

Lai Tang - @LaiTang

Chi Goc Voong - @mecodepanda

Kate Walker - @driveoutwith

Sketchnoting for Developers

Derek Graham
`@deejaygraham`

Sketchnoting: Derek Graham

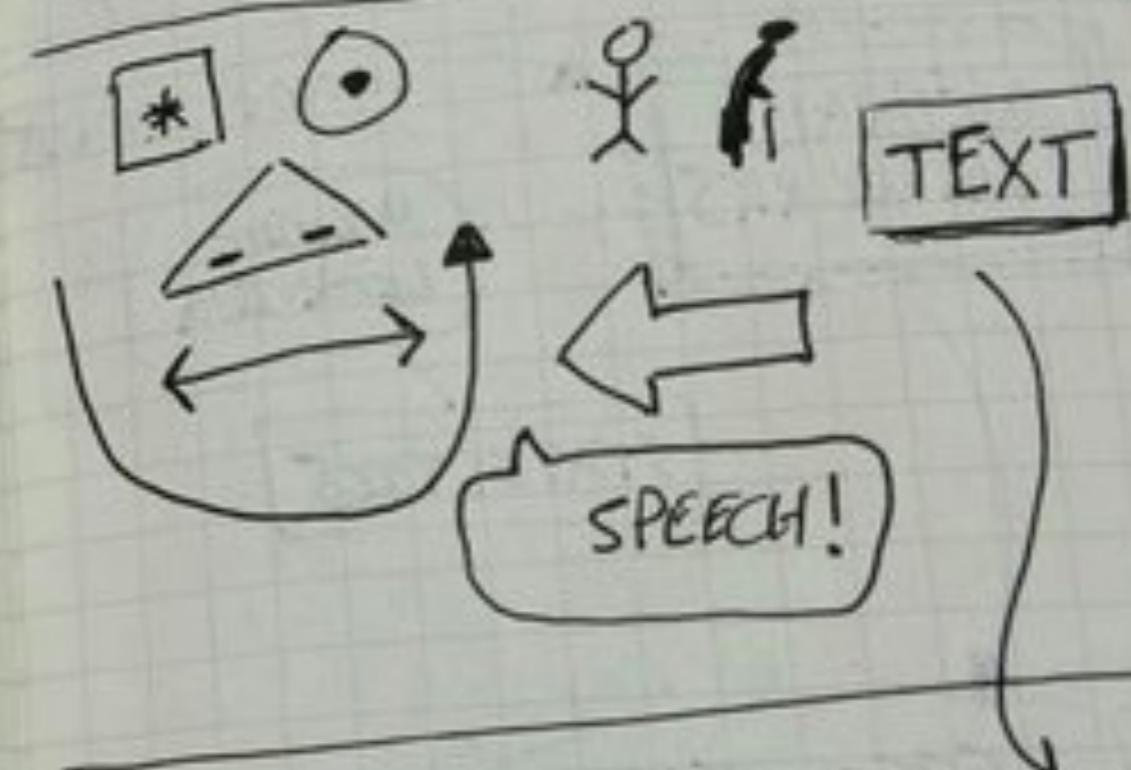
BEST IDEA
ARTIST



DUAL CODING
THEORY SCIENCE

PSE

* Jeannet King - What you Draw is Good Enough



- Sketchnote Army
- New project
- Embrace mistakes

Sam Wes

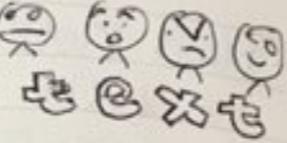
@ianoxley

DDD North 2015

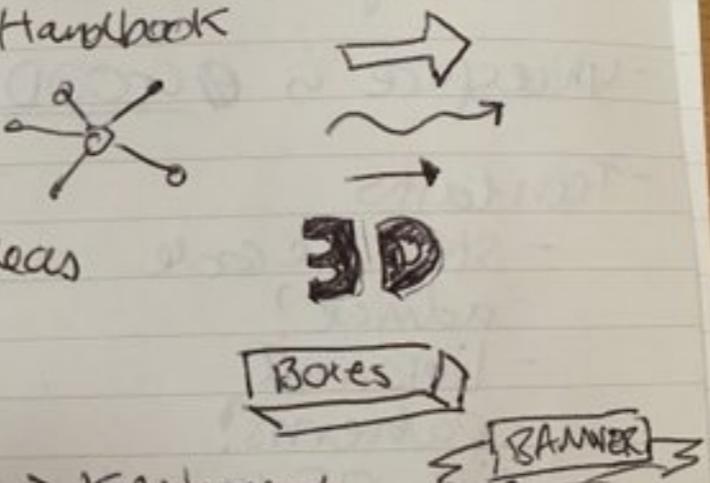
Quote

Thought

Sketchnoting for Developers



- Agile involves diagrams, but we want to make them formal/professional
- This is a mistake
- Atlassian put everything on a team wall to get everyone involved
- "The winner is the best idea, not the best artist"
- Sketchnoting is easy to get into visual communication.
- The Sketchnote Handbook
- Why?
 - Memorable
 - Big picture
 - Conceptual ideas
 - Integration
 - Recall
- Science
 - Handwriting > Keyboard
 - Visuals > text
 - Overall frameworks and specifics
- Text notes are best for the speaker
- Visual notes are best for listeners
- Deliberate attempt to slow down and think about connections and your own representation
- It's about ideas not about art
- What you draw is good enough (book)
- Use pencil for layout / use graph paper



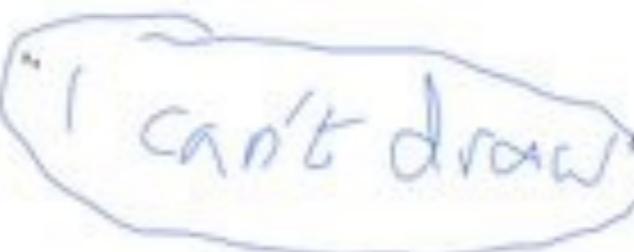
DOO WORK

24 October 2015 09:54

1. SKETCHNOTING 24/10/15



LISTEN!



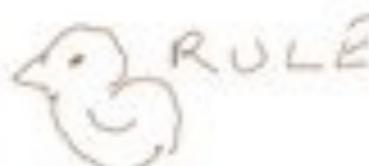
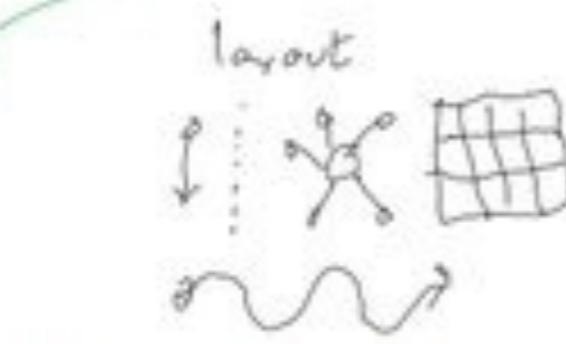
Its about Ideas
Not art

Text in Fonts
OR COLOURS

BOLD



to fill in later



shun - filin



- ↗ SKETCHNOTE ARMS

Light pen SECRET
- PHOTOCOPY
SHOW
GRAPH PAPER



SKETCHNOTING

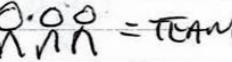
DERET GRAHAM

- 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

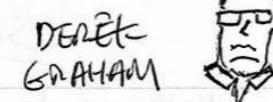
* THE SKETCHNOTE HANDBOOK *

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

- CAN USE A TABLET

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

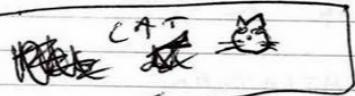
Look AT
PEOPLES
NOTES
EXAMPLES
ONLINE



SCIENCE

HANDWRITING > KEYBOARD
VISUAL > TEXT

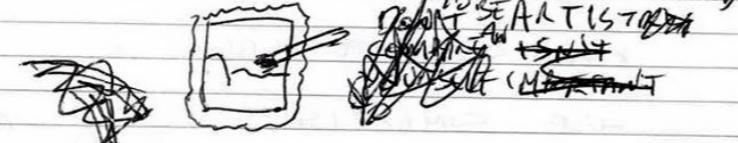
Dual coding  PAIR theory
IN PROCEDURAL



MULTIPLE
DRAWING
AIDS MEMORY

REASONS NOT

- IMMEDIATE RECALL
- TOTAL CLARITY NEEDS



YOU DON'T ALONE
DOSE ARTIST
REMEMBER
MATERIAL

IDEAS NOT ART 

GRAPHIC FACILITATOR
JEANNIEE KING

WHAT YOU DRAW IS
GOOD ENOUGH

USE
EMOTICONS 

SEAN WES

FONTS 

YA YA YA

BANNERS

PLAN

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

LISSEN

TWITTER TEST
TOP TEN POINTS
PRIORITY
CAN'T CAPTURE ALL

PLAY NOTES
TO PERSONAL
LEARNING STYLE

SKETCH NOTE ARMY

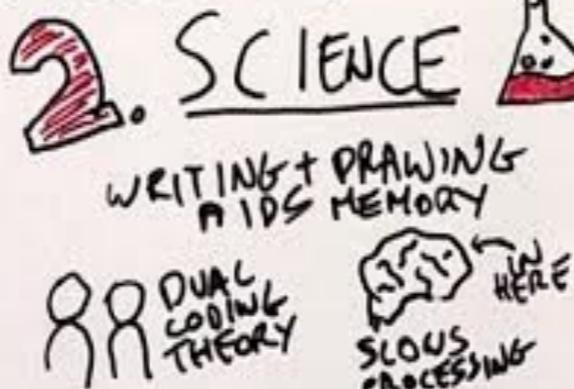
- NOUN PROJECT
- EMBRACE MY STEAKS
- SKETCH NOTE WORKBOOK

SHARE
NOTES

- #
- TWEET
- #DIDNORTH

SKETCHNOTING

BY MRSTEVENHILL



3. STYLES

lower case
SUPER BLOCK

Script

TEAM



QUOTES

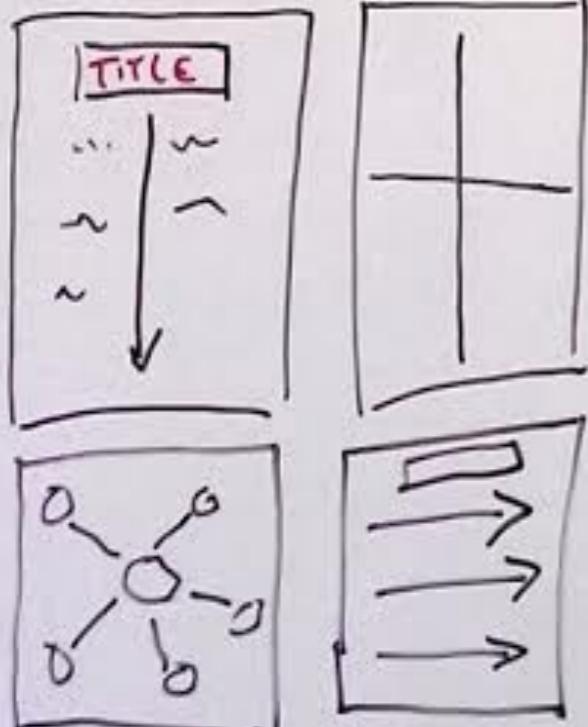
+ BULLETS

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

#HASH
TAGS

7. FURTHER READING

- SKETCHNOTE ARMY



- NOUN PROJECT

- @ DEEJAYGRAHAM

- @ BOHDESIGN

- FINDING MARBLES

- SEANWES.COM

- JEANNELING.COM

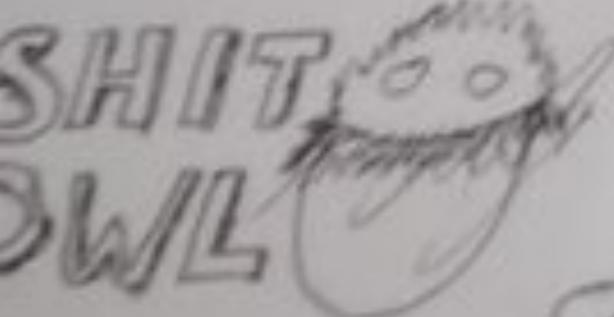
Pad

Reword
Sketchnote

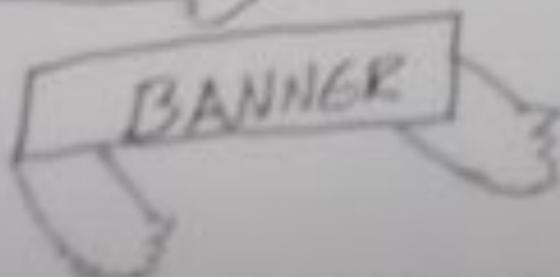
- Jason Fried
Handbook - Mike Rohde

Sketchnoting

- Memorize
Big Picture
Drawings + Ideas
Recall
- Handwriting best for
memorization



+ Pictures
Quotes - It's a bubble



www.sketchnoterunway.com

ZPROM
BY GUY

Demo id

TALK TITLE

STOP SKETCHING
AND REVISI

Write first few
words for list

If something
more important
crops up

SKETCHNOTE
[HTTP://ARMY](http://ARMY)

#usehashtags

SKETCH
NOTE
WORK
CAMP

Page 35

ROM

www.systematized.com

@eddy556

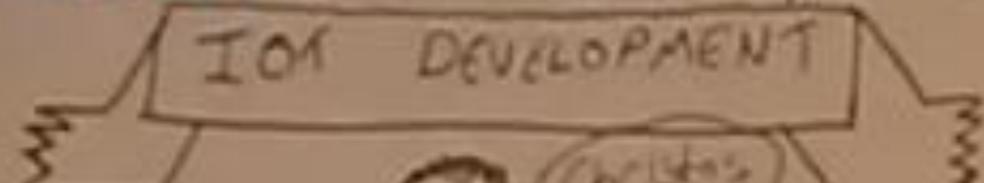
IoT Development Fun with .NET and Raspberry PI

Christos Matskas
@ChristosMatskas

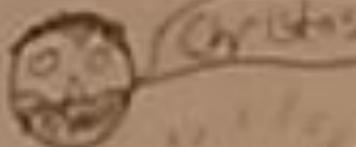


@Matt_Ferron

Memo Pad



IoT DEVELOPMENT



Chris

URT Beuren

WEFI

We worked
on lots
of projects



2020 - 4 BILL
CONNECTED
PEOPLE

IoT
HAS
HISTORY



EASY TO
HACK



Memo Pad

ZIGBEE PROTOCOL



X INSECURE X



WINDOW
INT

Industry
Mobile
Core

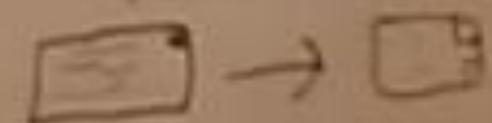
C++
C#
SS
VB.NET

Why do it?

GAZPROM
WEBSITE
SUBNET
WIFI
WINDON INT
Approach

Report
SAP CM

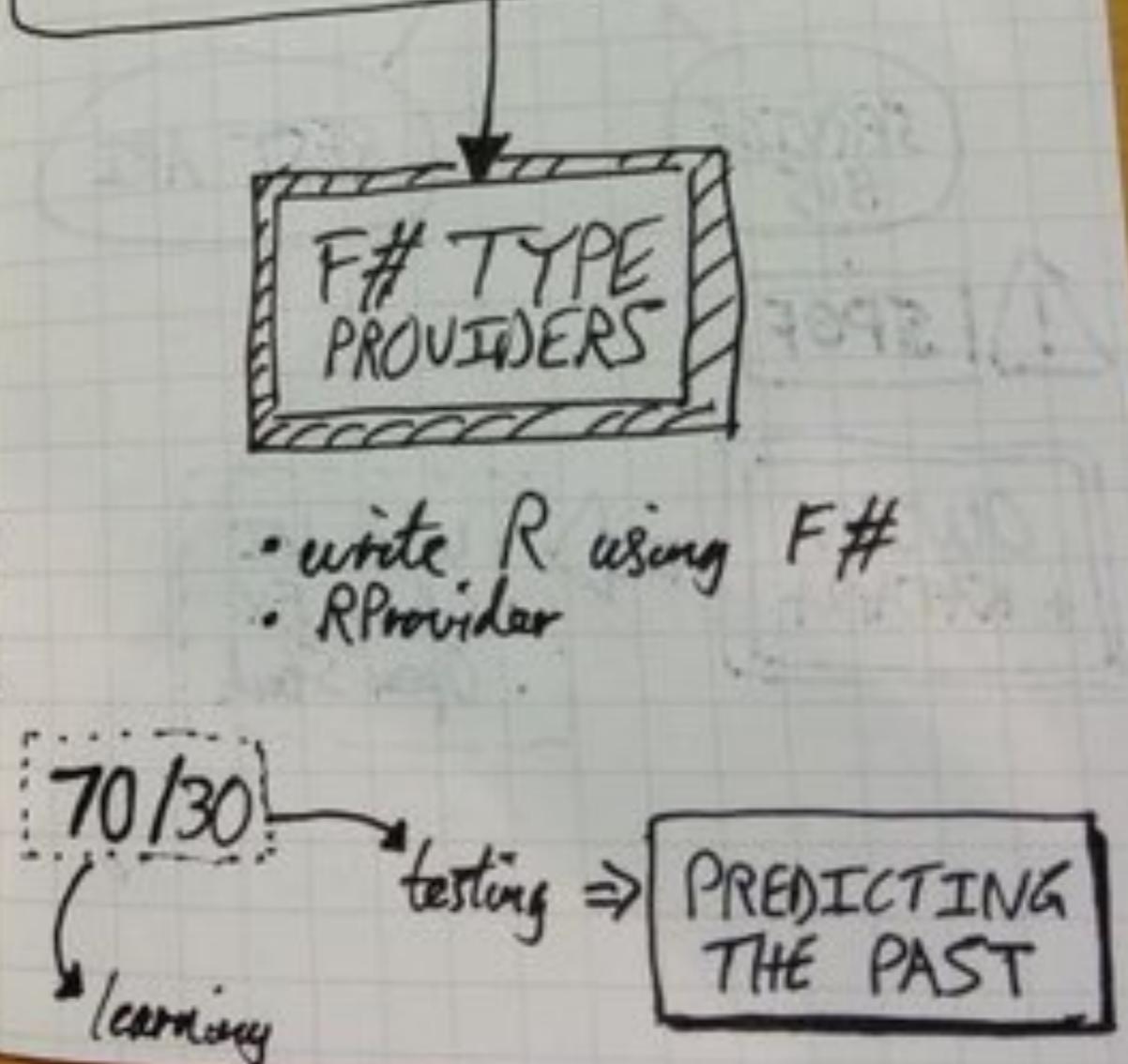
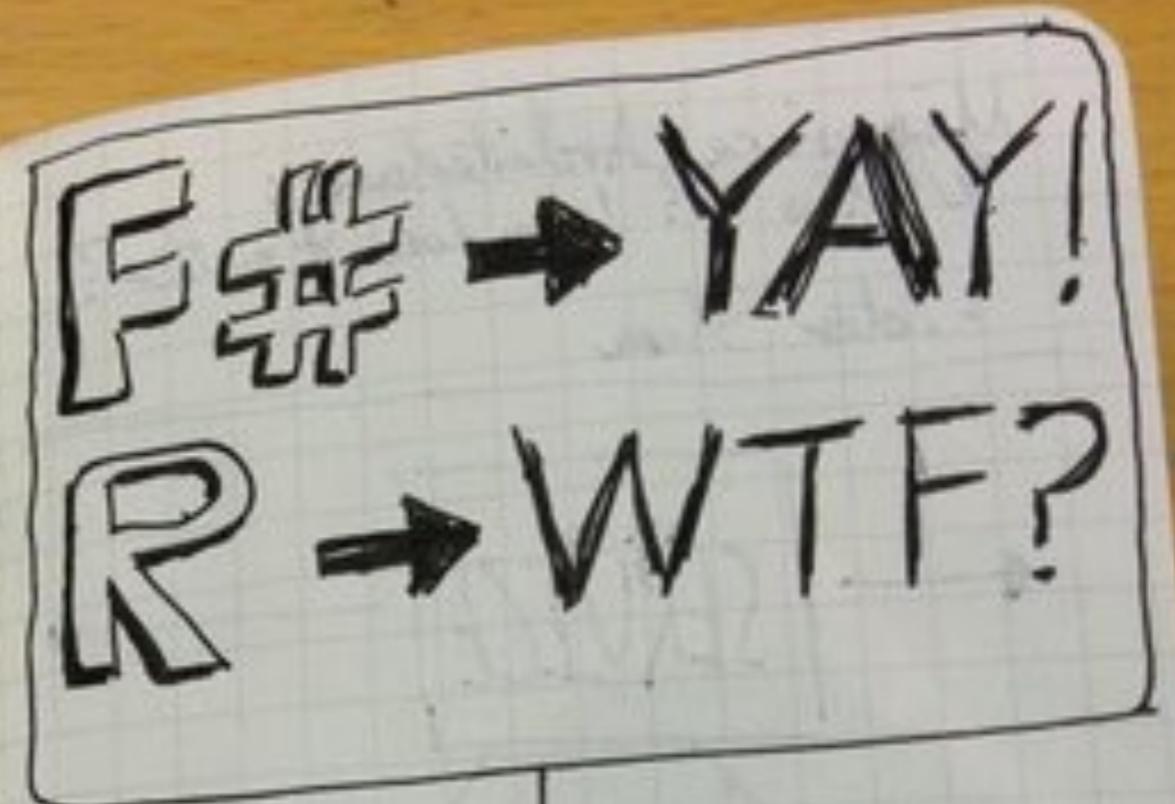
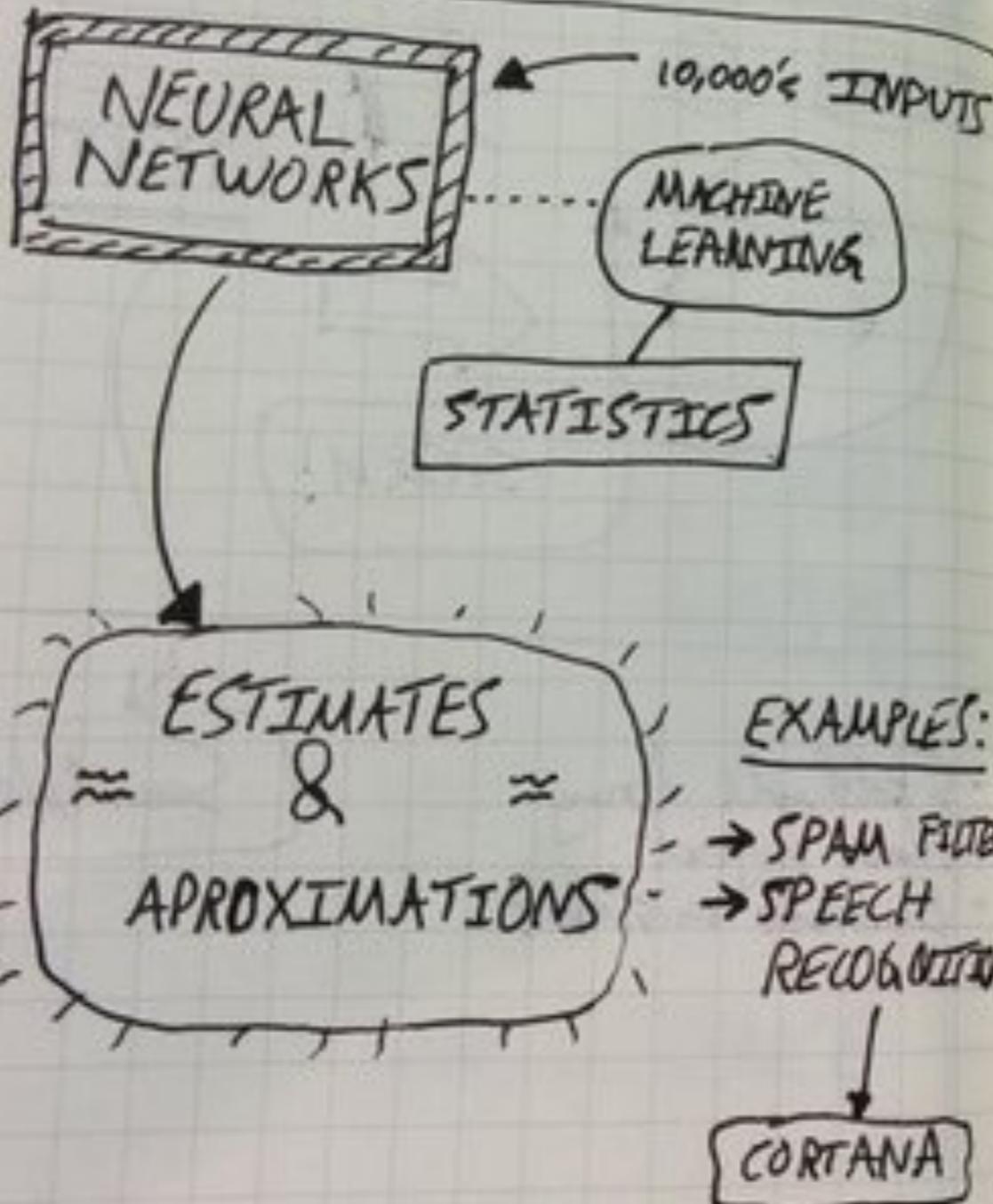
Costs
Period



Deep Dive into Deep Learning

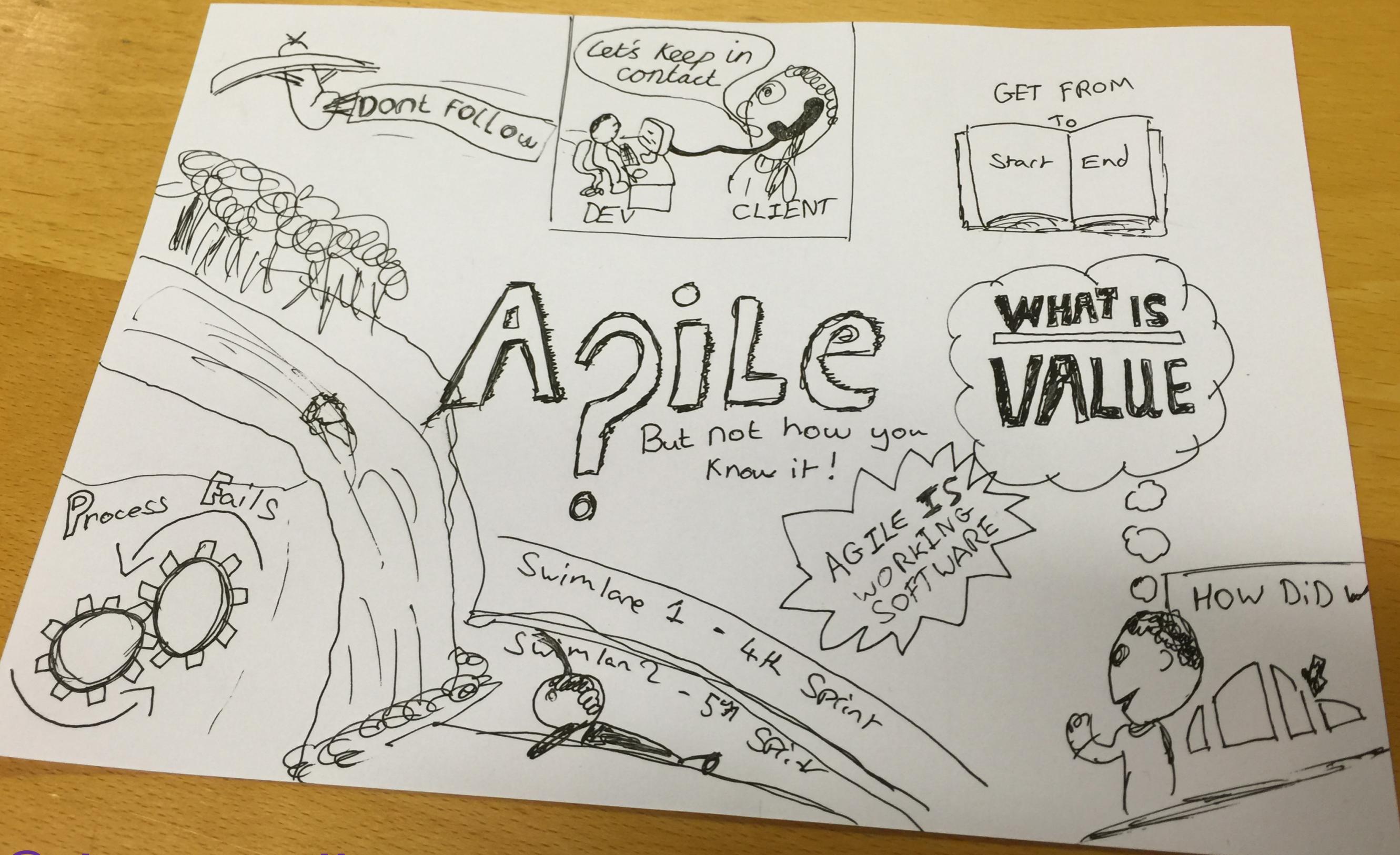
Gary Short
@garyshort

Gary Short: Deep Dive into Deep Learning



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

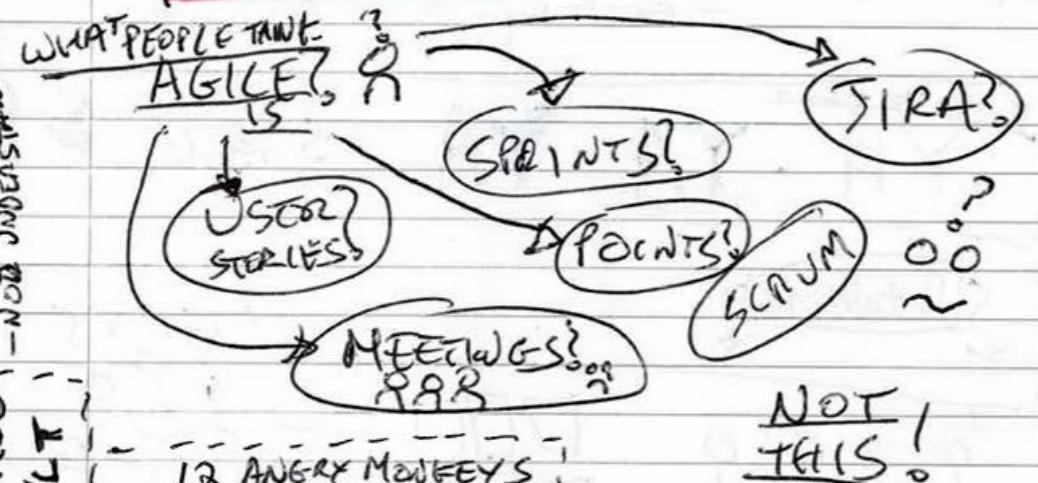
Nathan Gloyn
@ NathanGloyn





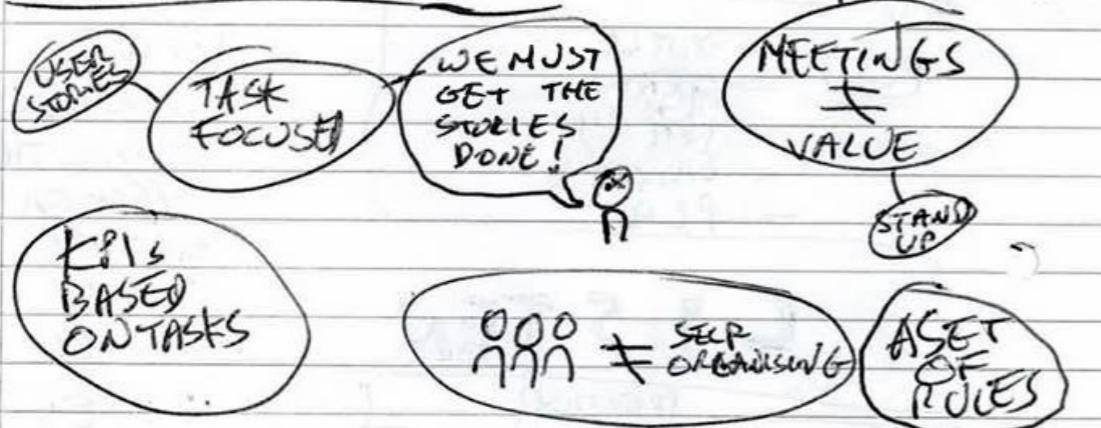
YOU KEEP USING THE WORD AGILE...

MIMICKING &
NOT UNDERSTANDING
CARROT
CULTURE

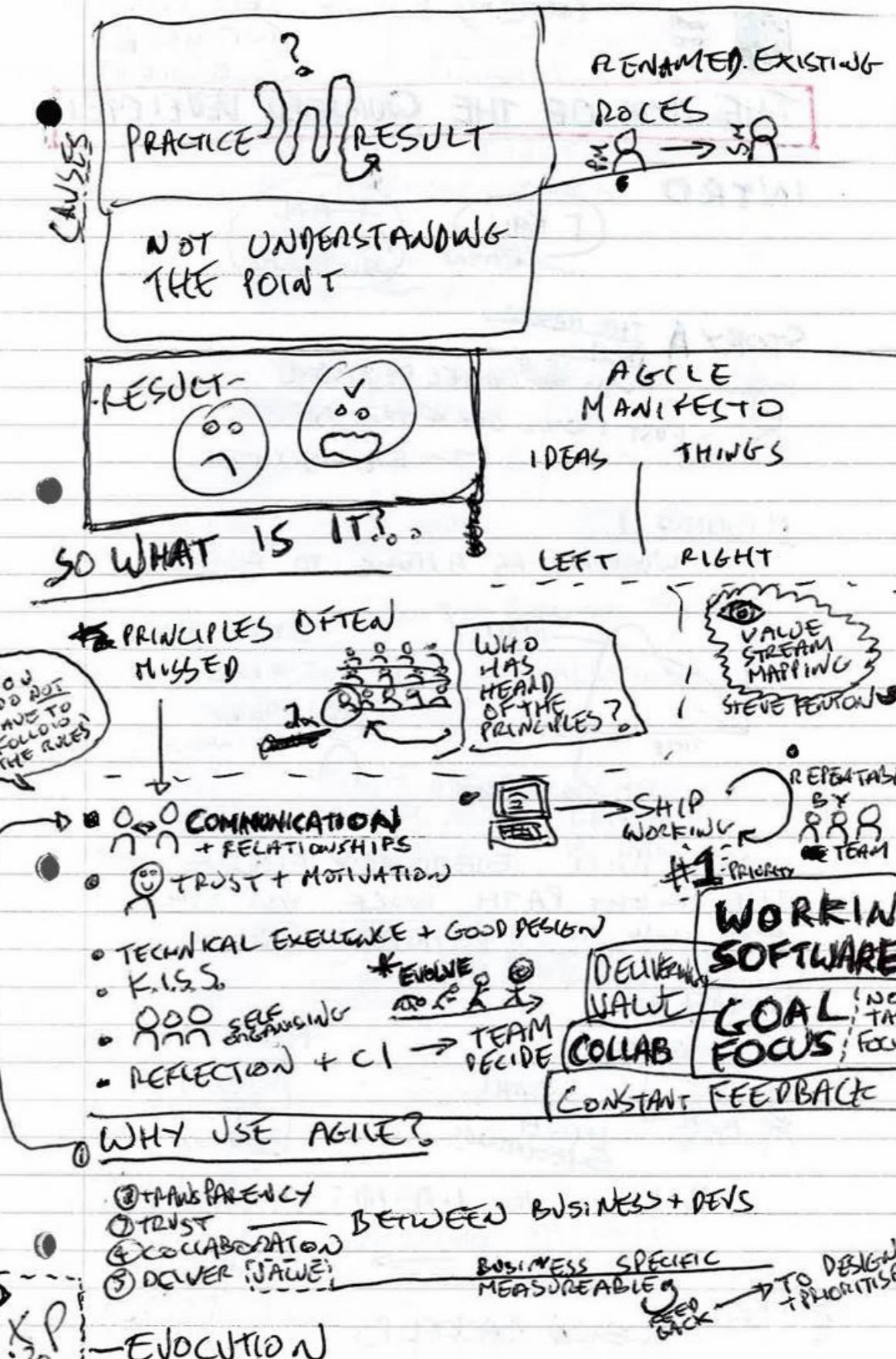
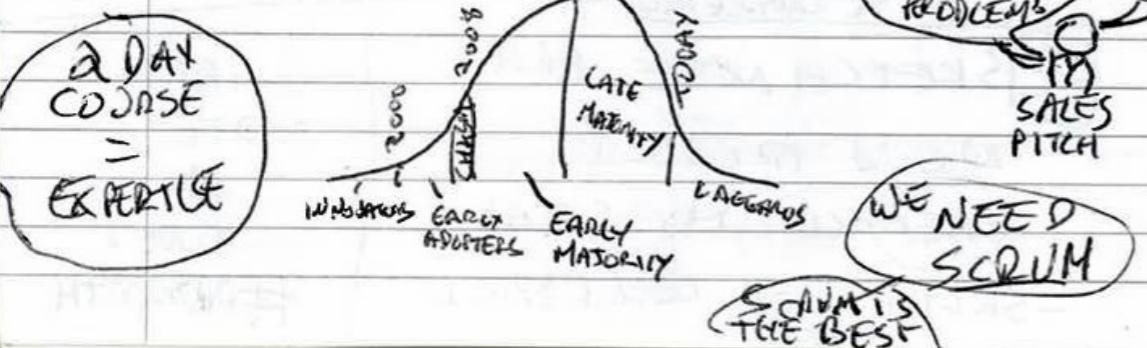


WHAT IT ISN'T...

BACKLOG AT THE TOP

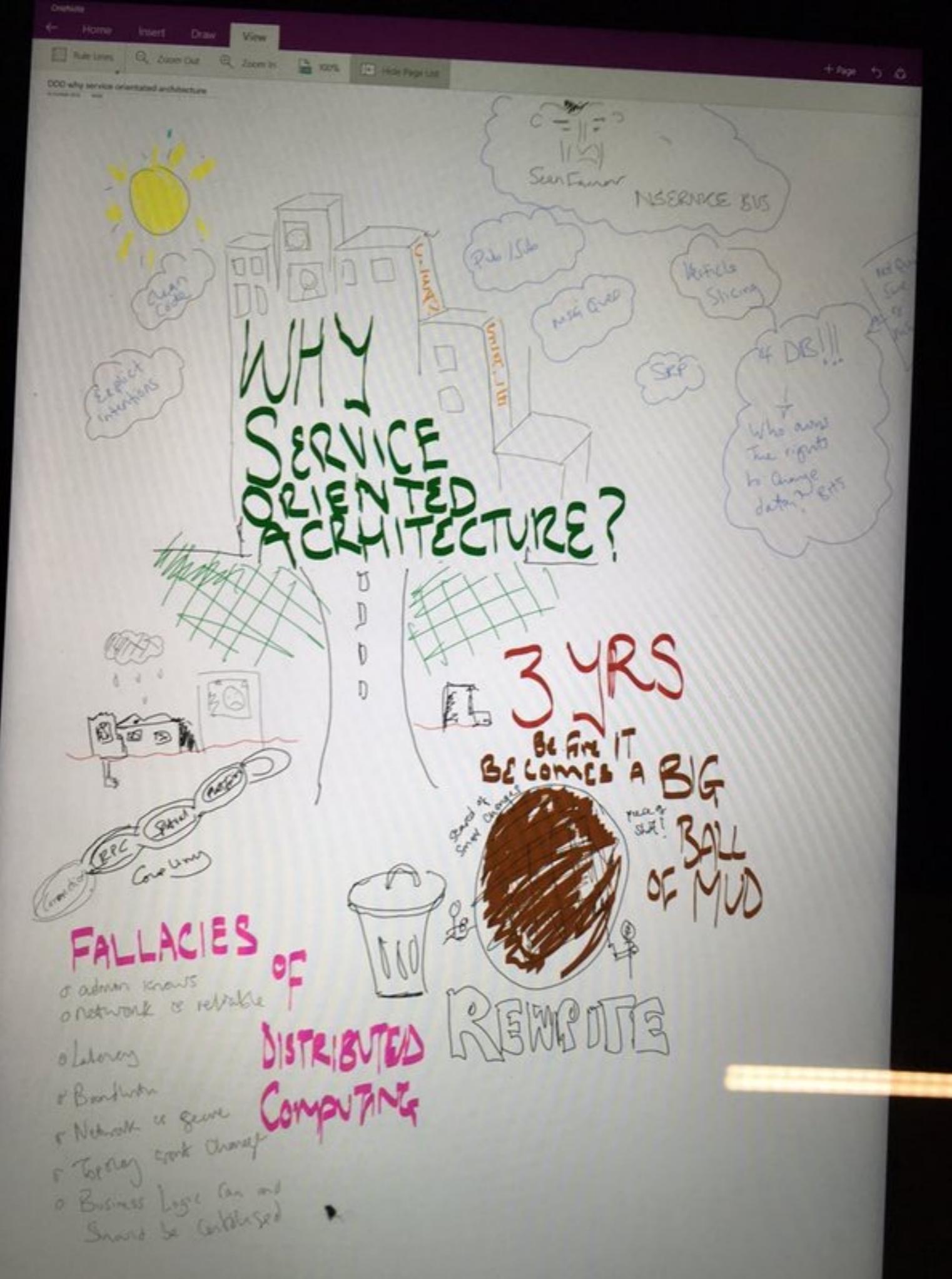


How/Why?



Why Service Oriented Architecture?

Sean Farmar
@farmar



@laitang

Why SOA?

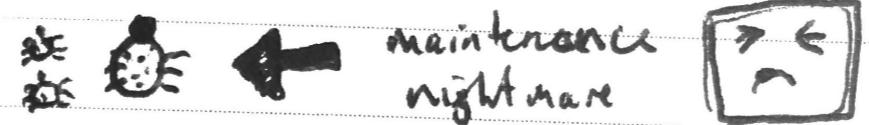


Sean Farmer

THE EVO R. →

@farmer

Small monolith → \$ success → features + + ↴

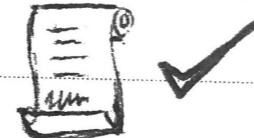


reduce

Coupling

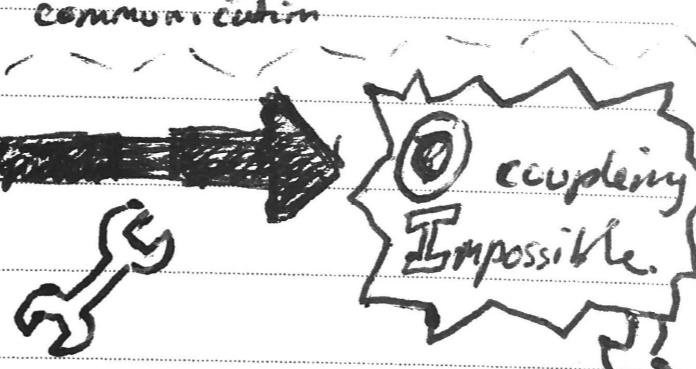
No sharing

Only Contracts for communication



Coupling

Afferent Efferent



DEPENDENCIES

DEPENDS ON

Temporal

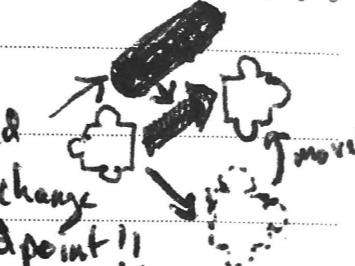
TIMING, RPC

- Async messaging.
- Publish/Subscribe
- + Forget.

Spatial

DEPLOYMENT CHANGES

need to change endpoint!!

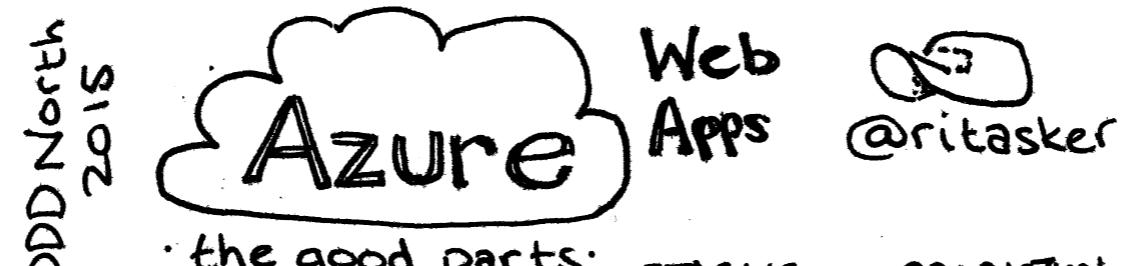


@mecodepanda

Azure: the good parts

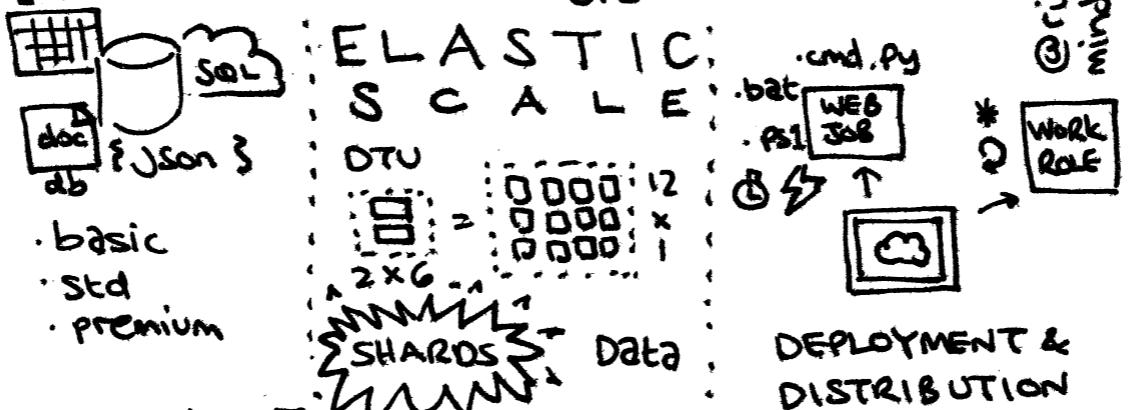
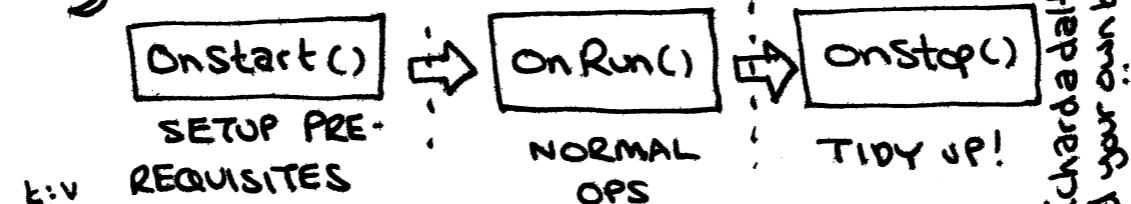
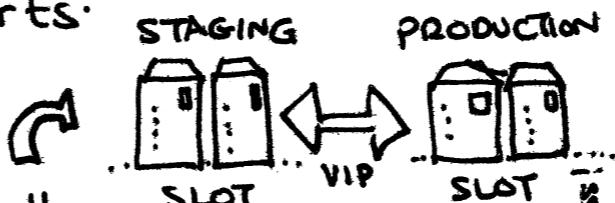
Richard Tasker

@ritasker



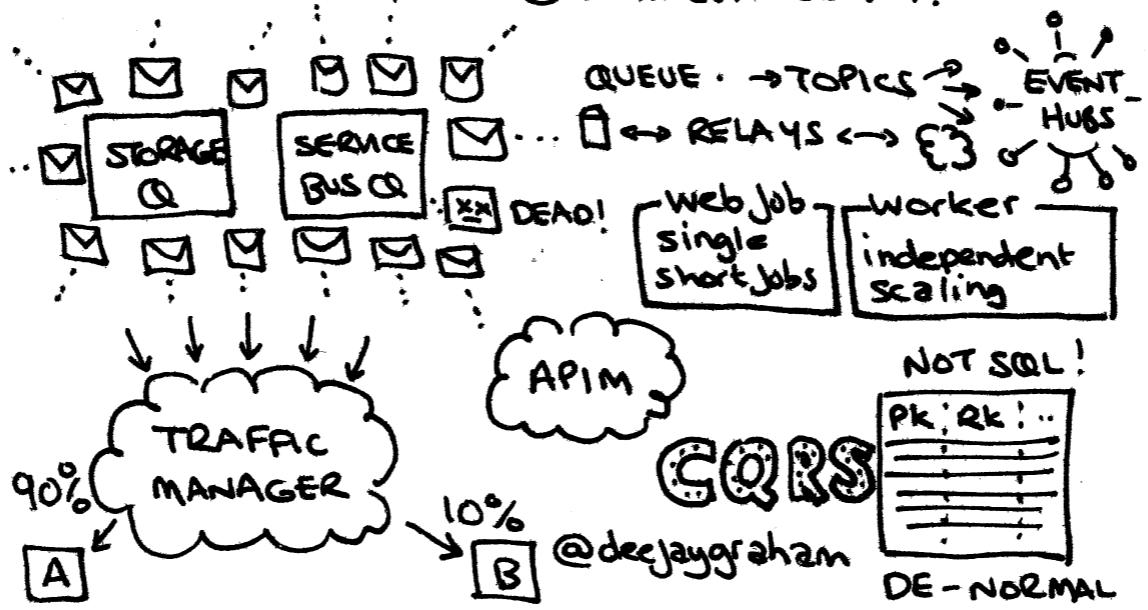
the good parts:

- deploy with
- or PowerShell



TROY HUNT
"Have I been pwned"

ARTIFICIAL DELAY!



@deejaygraham

Microservice Architectures

Peter Shaw
@shawty_ds

DDDNorth
2015

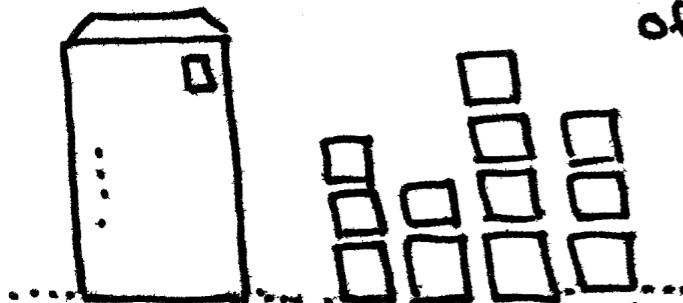
Microservice Architectures

PETER SHAW

@shawty-ds

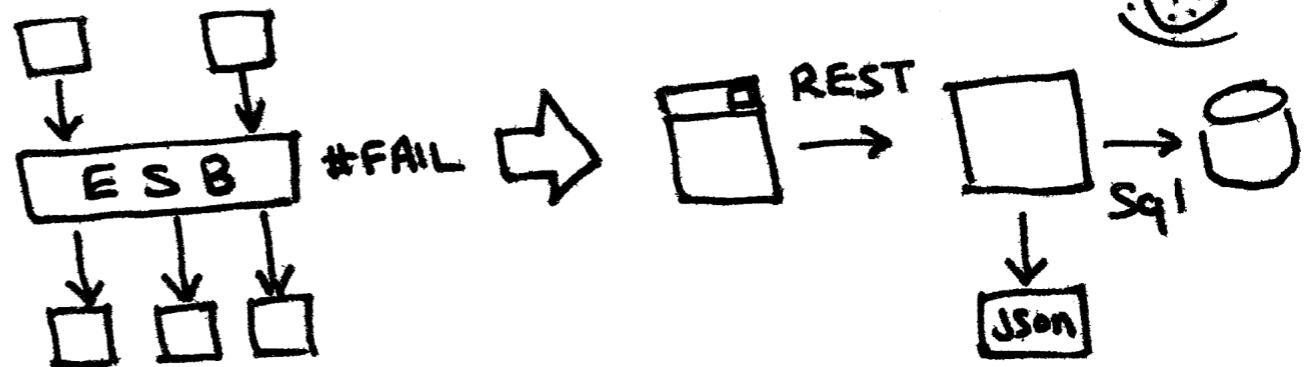


Architectural Design Pattern

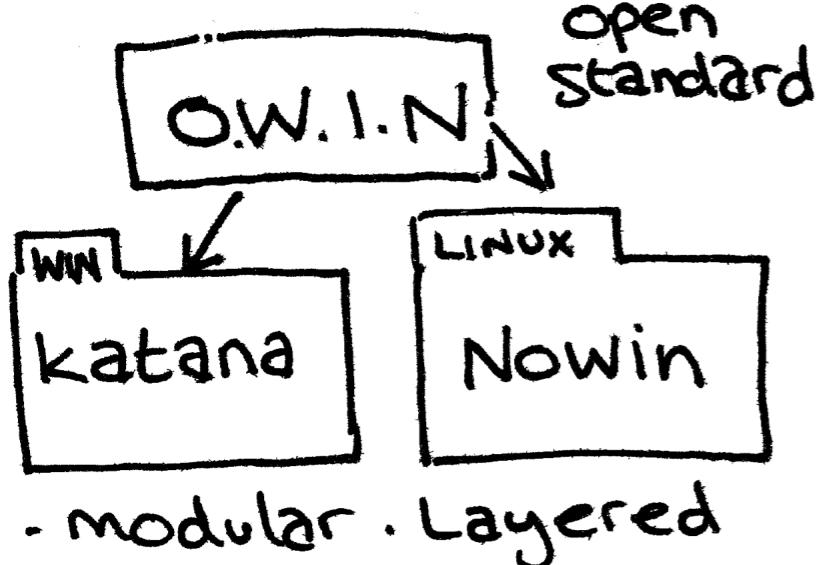


separation of concerns
not platform specific

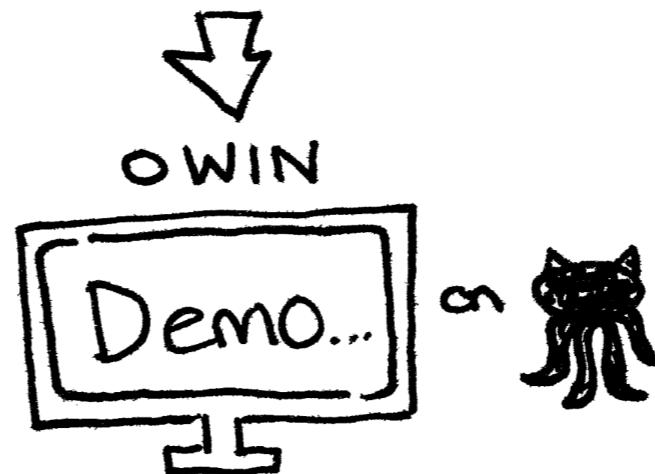
MONOLITH / 1 orders
review customers recommend



- * Higher Maintenance cost
- * Data Islands
- * Monitoring: ALL THE THINGS!



System.Web



@deejaygraham

Real world life with Git - a year later

**Matteo Emili
@MattVSTS**

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



Memo Pad

LIFE WITH GIT

Notes

one year later

Manage log in AM
Deployment

Need to be
own master



Multiple workflow

✓ All

X cons

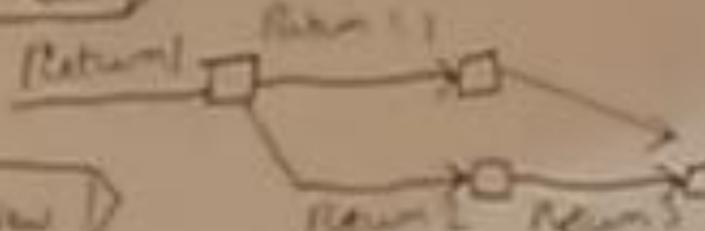
git & Posh

History: log > chronological
 tag

Memo Pad

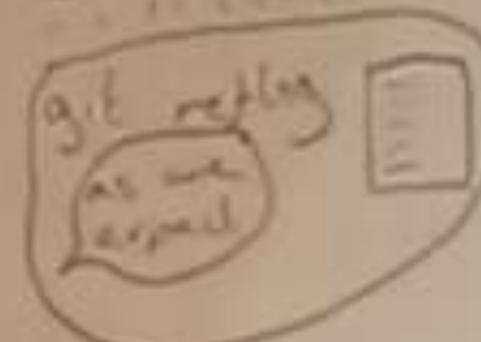
History view

Master



New

Source Tree



git log
--pretty

git branch
--contains

- one line

git branch
--contains

git branch
--contains

Git

Lots of
servers

Use powershell
as much as I can

git push

--git
perm

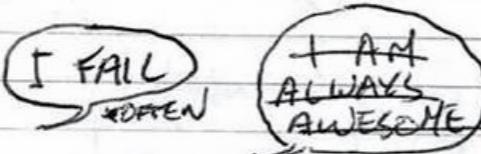
The myth of the qualified developer

Pete Smith
@roysvork

Pete@beyondcode.com Pete Smith
@roysuo
www.equalexperts.com

THE MYTH OF THE QUALIFIED DEVELOPER

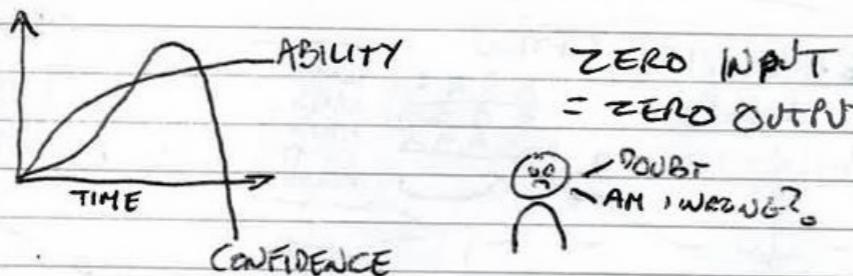
INTRO



STORY A THE MASTER PLAN
Student - I WILL BE A GAMES DEVELOPER
- FIRST I WILL GET A TEMP JOB
IN 5 YEARS LATER

MISTAKE 1

- WORKING AS A MEANS TO AN END



'YOU WILL EVENTUALLY FIGURE OUT THE RIGHT PATH ONCE YOU START WALKING IN A DEFINITE DIRECTION'

MISTAKE 2

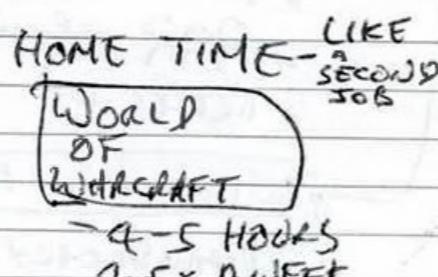
- COASTING

Person icon: GOT A NEW JOB - YEAH!
- HIGH EXPECTATIONS

Job VS Warcraft

← SIMILAR →

IDEA - LEARN BACKUPS



YOU ARE THE ONLY PERSON IN CONTROL OF YOUR OWN DESTINY

MISTAKE 3

BURNOUT &

YAY! AGAINST OTHERS

FRANK - I CAN DO CODE

ERM? NO

MISTAKE

DON'T DO THINGS BECAUSE EVERYONE ELSE IS
"WE HAVE ALWAYS DONE IT THIS WAY"

LISTEN PLEASE - NO

NEED TO HAVE MORE AUTHORITY?

MISTAKE

CRITICISING CODE CAN ALSO INSULT THE COMPANY / DEVELOPER

IF YOU ARE RIGHT DON'T BE A DICK

DON'T ASSUME OTHERS ARE - LEARNING LIKE YOU IS HARD

WHY IS THE TEAM GETTING WORSE? - WHY WON'T MANAGEMENT LISTEN

SIEGE RESPONSIBILITY - OUT ZOOGO - WHAT NOW LEAVE TO b
DE A CONTRACTOR

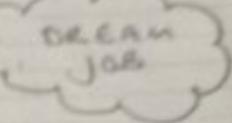
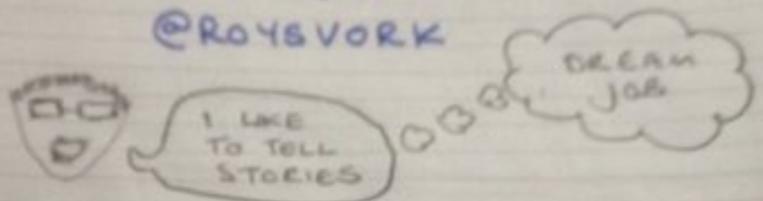
MISTAKE

- NOT EXPECTING TO FAIL
- WE FAIL WHEN WE LEAST EXPECT IT
- DON'T WAIT FOR OTHERS TO FIX YOUR PROBLEM

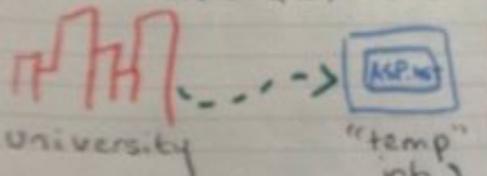
THE MYTH OF THE

Qualified Developer

PETE SMITH
@ROYSWORK

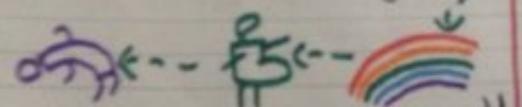


INTRIGUE, ADVENTURE AND MYSOGINY!

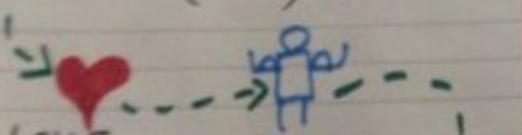


MISTAKE 1:

zero effort, zero return



BACKFLIPS!! UNHEALTHY LIFESTYLE (Wow)



MISTAKE 2:

ability failing staying in "temp" job too long
confidence failing

MISTAKE 3:

coasting

MISTAKE 4:

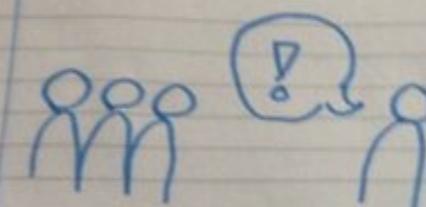
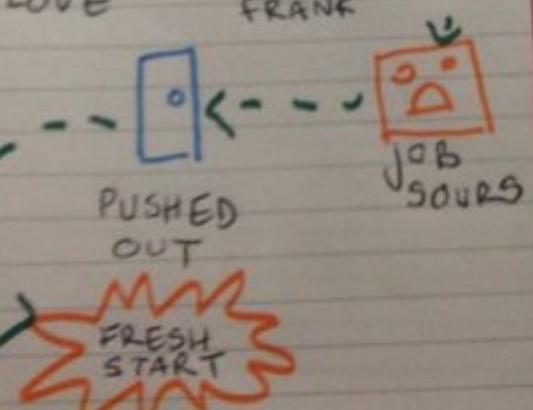
comparing to other people

MISTAKE 5:

perpetuating the status quo.

MISTAKE 6:

ignoring the personal



*contracting
*took past
advice on board

MISTAKE 7:
assuming other people
can "get it" (be kind)

MISTAKE 8:
not expecting to fail

MISTAKE 9:
thinking other people
will fix your problems

MISTAKE 10: assuming you have
finished learning

FAILURE IS CONSTRUCTIVE

Monoliths to Microservices A Journey

Sam Elamin
@samelamin

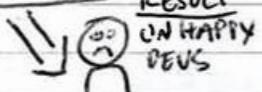
NEED TO
GET BETTER
AT PORTFOLIOS

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

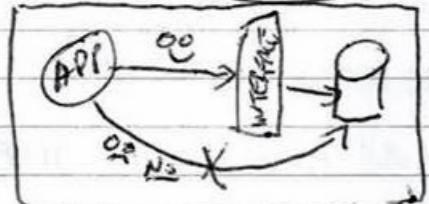
TOPIC

DOMAIN
DRIVEN
DESIGN

ERIC EVANS

SUBSCRIBER

SUBSCRIBER

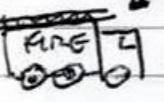


RACE HAZARDS!

- THINGS HAPPENING IN WRONG ORDER
- IMPACT ON CUSTOMERS

LOGICAL GATES

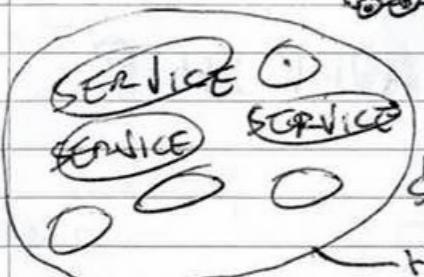
UNCLEAR
BOUNDARIES



= STRICT
CODE
REVIEWS

TESTING IS
HARD!

DEPLOYMENT NEEDS
TO BE CONSISTENT!



COMPLEXITY
IN NUMBER

TOO
MANY
SERVICES?

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

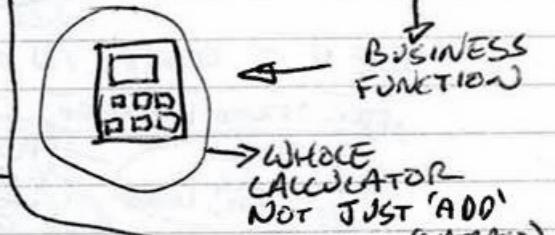
BUSINESS
CONFIDENCE
IN DEVELOPERS ↑

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

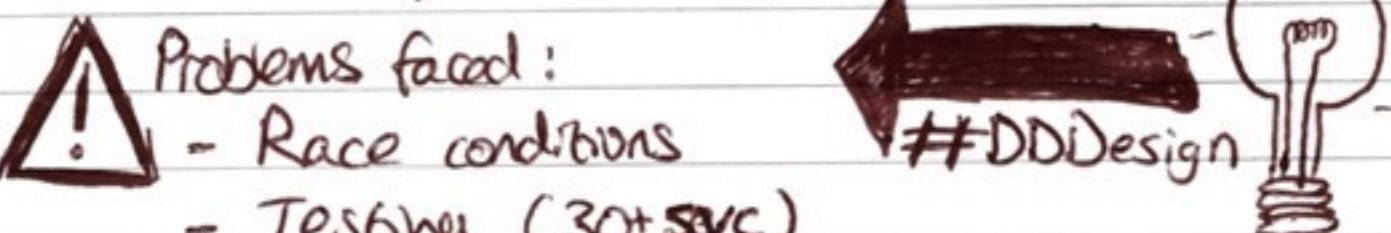
@Samuelamin

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

Getting Started with Continuous Delivery

Colin Mackay
@ColinMackay

Memo Pad

CONTINUOUS DELIVERY

http://calnmackay.net

Software change
Deployable

Not deployed every time to prod

CI solves DEV patterns

CD solves DEPLOY patterns

Manual Delivery

Test & Live

Manual
Deployed Good
Not many releases

GAZPROM
Gazprom Energy

www.gazpromenergy.com

Memo Pad

the

cont → Test → deploy Test → live Test
↓
→ ↑

Not ready

→ Test
↓

Usually fails
until we get
to live

work out
what you
want to
achieve first

JENKINS

TEAM CI

GO CD

@calnmackay

GAZPROM
Energy

Continuous
Delivery

360 NUMBER

@eddy556

Logging & Monitoring

How to keep DevOps happy

Joel Hammond-Turner
@ramesses



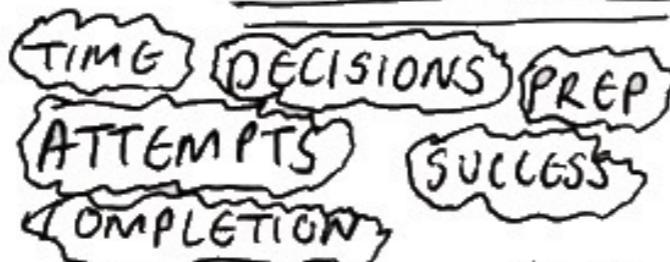
DO NOT IGNORE

EXCEPTIONS!

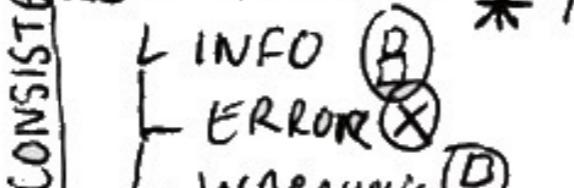
LOGGING

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



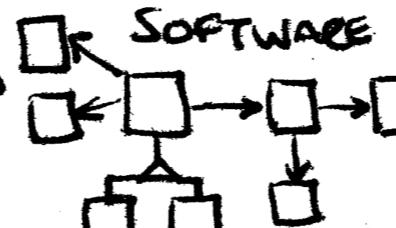
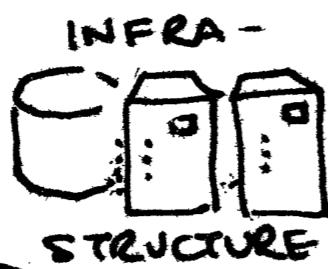
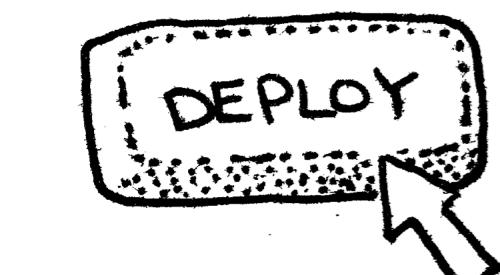
IN

PRODUCTION

WRAP CALLS



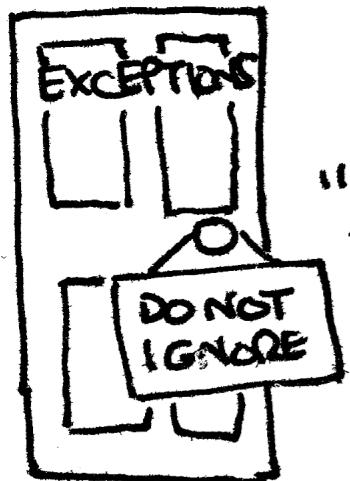
IN STORWATCH



MONITOR HEALTH
DB



- 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

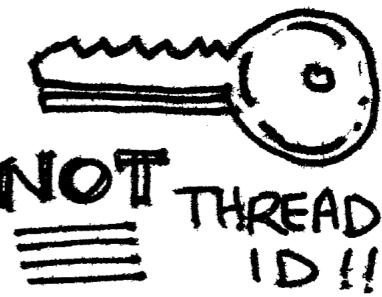
"LOG AS IF YOU WON'T HAVE ANYTHING ELSE!"



raygun.io

@deejaygraham

CONTEXT WITH
EVERY LOG -



A CORRELATION
ID

SPLUNK NOT THREAD ID!!!

METRICS.NET

SERILOG

ETW



ETW → SERILOG → METRICS.NET

AKKA DINERS

@deejaygraham

React for .NET developers

Macs Dickinson
@MacsDickinson

Memo Pad

REACT



Memo Pad

Like RAZOR

Are pre-processed

TSX

Type Script

PROVIDES
AUTO COMPLETION

COMPONENTS

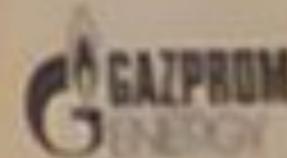
Clear re-rendering

Virtual
DOM

On next

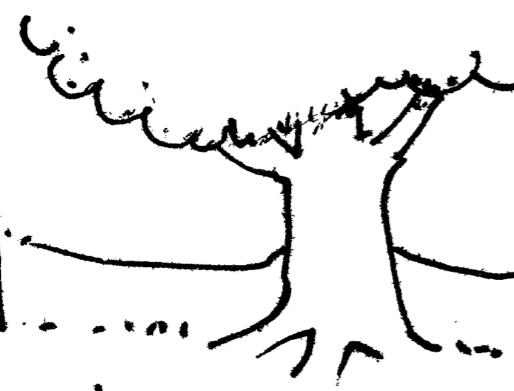
@MacduffLiu

www.macduffliu.com



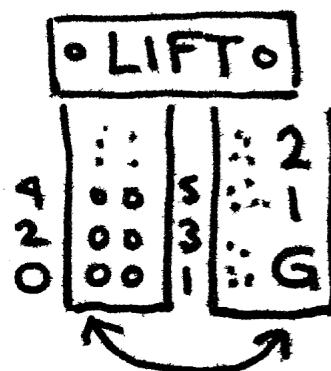
Don't Make Me Feel Stupid

Liam Westley
[@westleyl](https://twitter.com/westleyl)



Don't make me feel
STUPID!

embrace different paths



Regional Variation:

WINDOWS

TMI



VIEW STATE

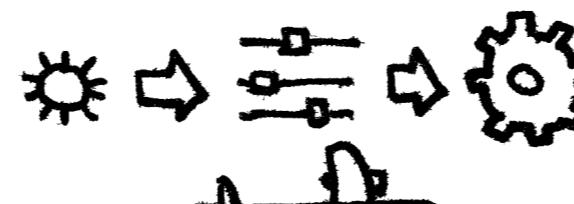
APPLE
TLI



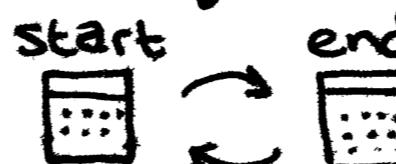
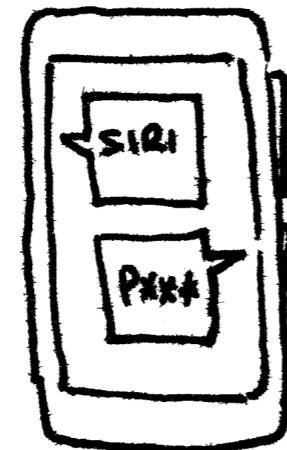
who moved



Android



Beware
the
end
of
March!



Affordances

PUSH



liam Westley **DDDNorth**
2015

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

Surprise
your user
in a good
way!



"We can and should question design decisions" @deejaygraham

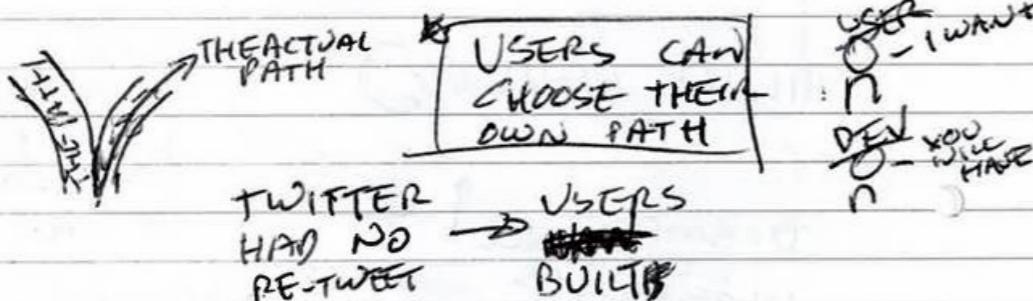
@deejaygraham

DON'T MAKE ME FEEL STUPID

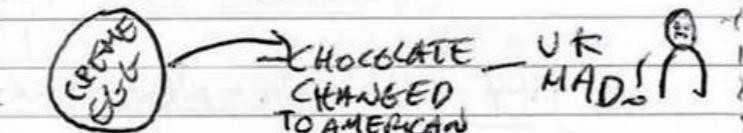
MOBILE TABLET.

VARIOUS UI

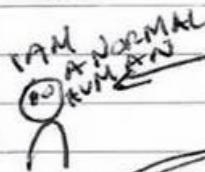
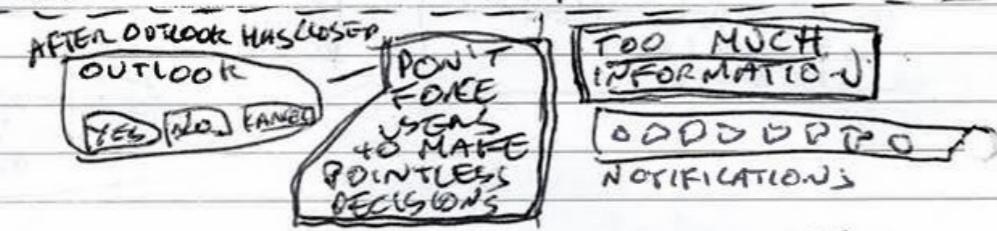
"TWO ROADS DIVERGED IN A WOOD, AND
I TOOK THE ONE LESS TRAVELED..."



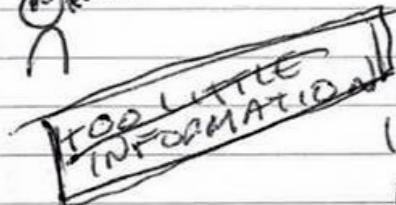
REGIONAL DIFFERENCES



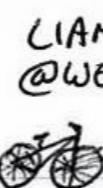
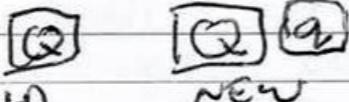
RED = GOOD IN CHINA



TECH TERMS
"RESTORING VIEWSTATE"
"SOAP ERROR"



IOS KEYBOARD CASE



CONSISTENCY

RECEPTION G
(PRESS 0)

4G
3G
G

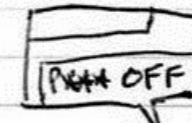
ctrl+F = FORWARD
GMAIL IN OUTLOOK

ANDROID SETTINGS
MENU
KEEP CHANGING

NOT FIND

SURPRISE YOUR USERS

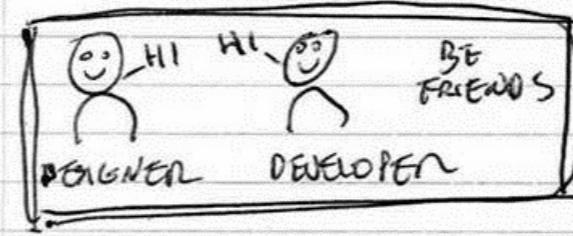
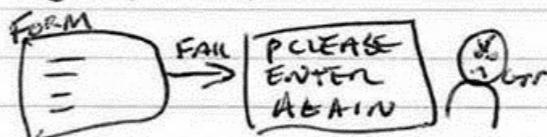
IN A GOOD WAY



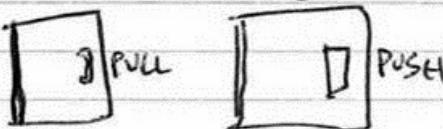
AUTO CENSOR VOICE MESSAGES

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.

Developer! Developer! Developer!
UK Community Events

Developer! Developer! Developer! North

University of Sunderland, Saturday 24th October 2015

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>

photo by Steve Hobbs @elkdanger

**See You
Next Year !**

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