

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

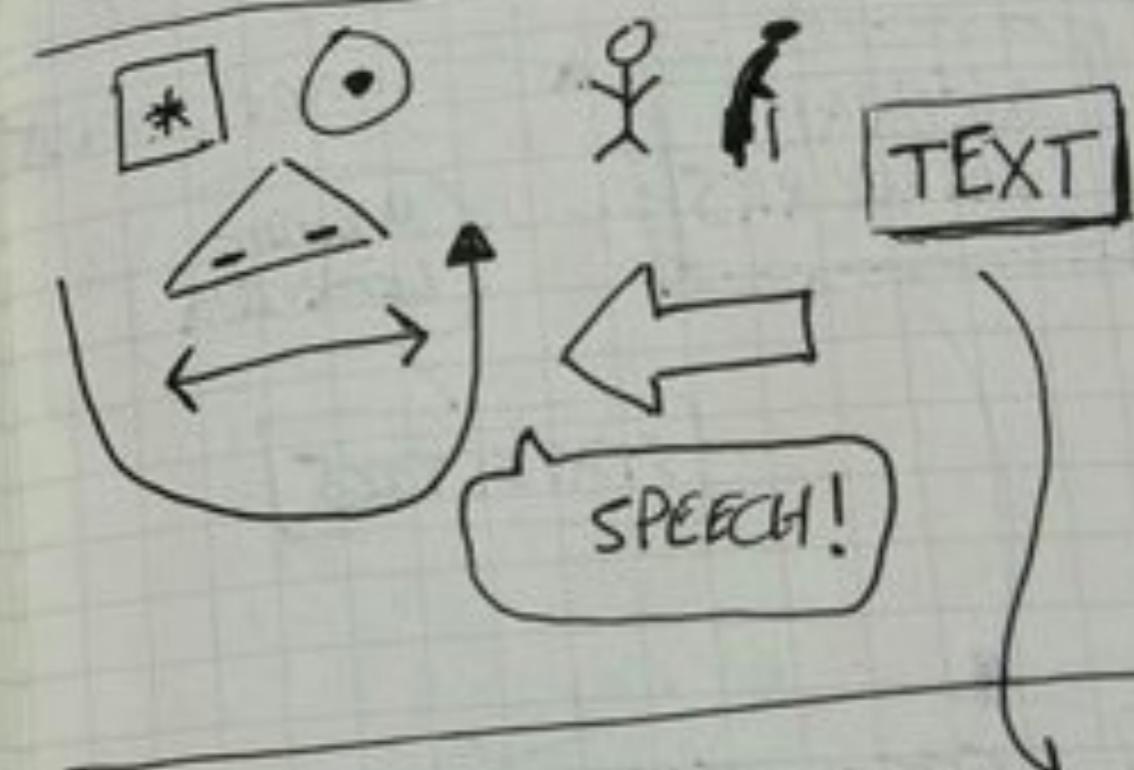
BEST IDEA
ARTIST



DUAL CODING
THEORY SCIENCE

PSE

* Jeannet King - What you Draw is Good Enough



- Sketchnote Army
- New project
- Embrace mistakes

Sam Wes

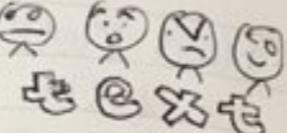
@ianoxley

DDD North 2015

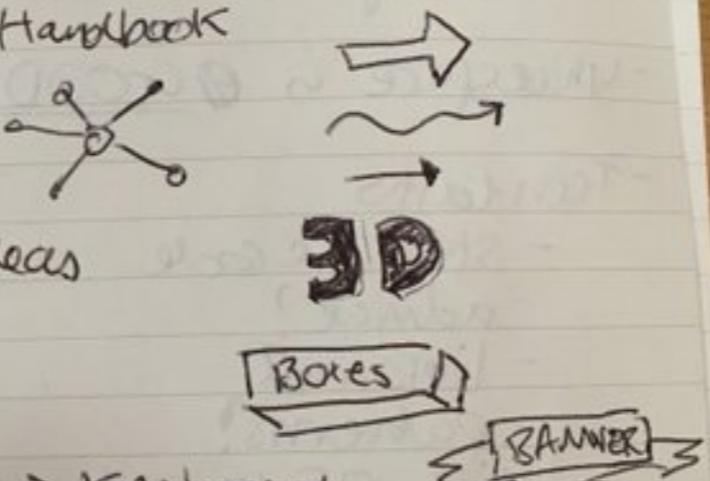
Quote

Thought

Sketchnoting for Developers



- Agile involves diagrams, but we went 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

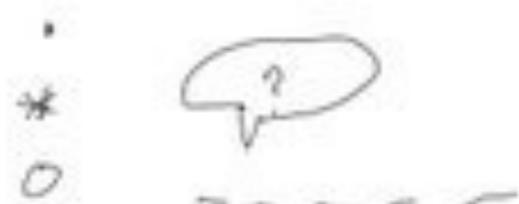
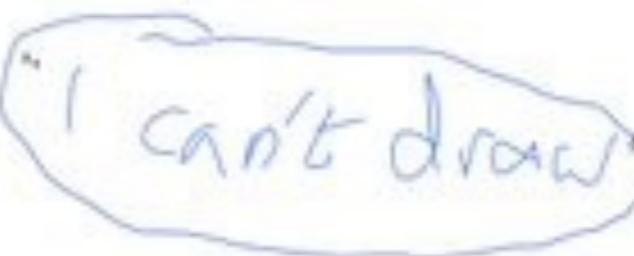


LISTEN!

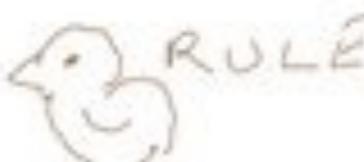
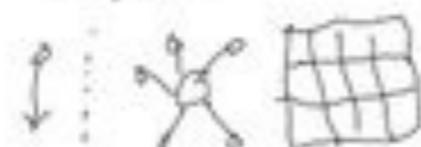


Its about Ideas
Not art

~~I Pad~~



layout



shun - filin



Light pen SECRET

- PHOTOCOPY

SHOW
GRAPH PAPER

- SKETCHNOTE ARMY



to fill in later

SKETCHNOTING

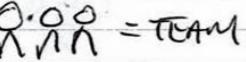
DERET GRAHAM

- INFORMATION LADIES
- 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

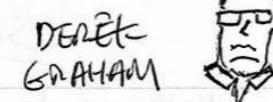
* THE SKETCHNOTE HANDBOOK *

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

- CAN USE A TABLET

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

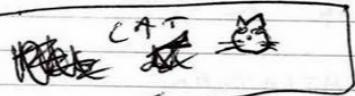
Look AT
PEOPLES
NOTES
EXAMPLES
ONLINE



SCIENCE

HANDWRITING > KEYBOARD
VISUAL > TEXT

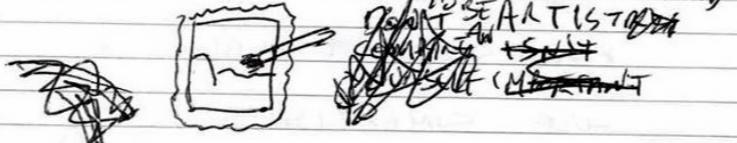
Dual coding  PAIR theory  IN PROJECTION



MULTIPLE
DRAWING
AIDS MEMORY

REASONS NOT

- IMMEDIATE RECALL
- TOTAL CLARITY NEEDS



IDEAS NOT ART 

GRAPHIC FACILITATOR

JEANNIE CHANG

WHAT YOU DRAW IS
GOOD ENOUGH

USE
EMOTICONS 

SEAN WES

FONTS 

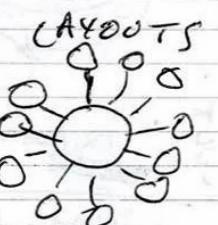
YA YA YA

BANNERS

PENS
PENS

lower case
BLOCK

SUPER
Script 



PLAN

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

ACTIVE
LISTENING

- FOLLOW THE SPEAKER
- EMOTION
- JOKES
- QUOTES

LISSTEN

TWITTER TEST
TOP TEN POINTS
PRIORITY
CAN'T CAPTURE ALL

PLAY NOTES
TO PERSONAL
LEARNING STYLE

SKETCH NOTE ARMY

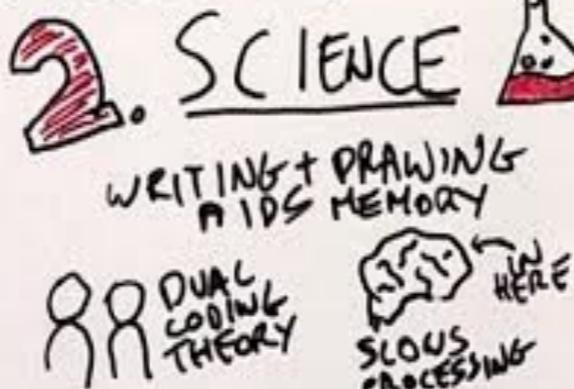
- NOUN PROJECT
- EMBRACE MY STAKES
- SKETCH NOTE WORKBOOK

SHARE
NOTES

- #
- TWEET
- #DIDNORTH

SKETCHNOTING

BY MRSTEVENHILL



3. STYLES

lower case
SUPER BLOCK

Script

TEAM



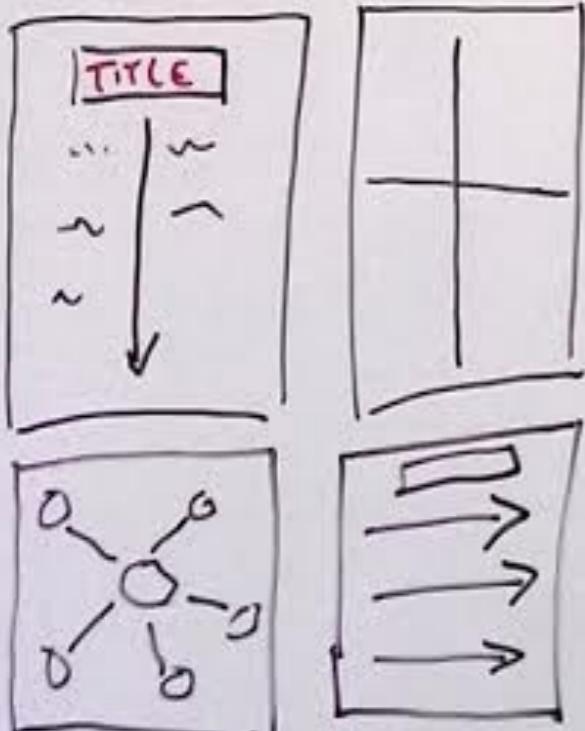
Books

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

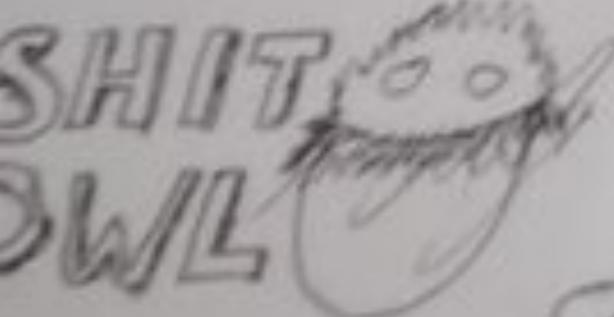
Pad

Reword
Sketchnote

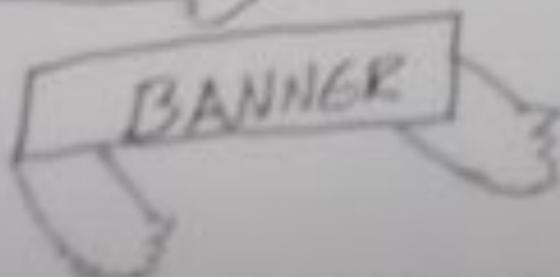
- Jason Fried
Handbook - Mike Rohde

Sketchnoting

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



+ Pictures
Quotes - It's a
bubble



[www.sketchnotearmy.com](http://sketchnotearmy.com)

ZPROM
BY G

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
100%

Page 35

ROM

[www.sketchnotearmy.com](http://sketchnotearmy.com)

@eddy556

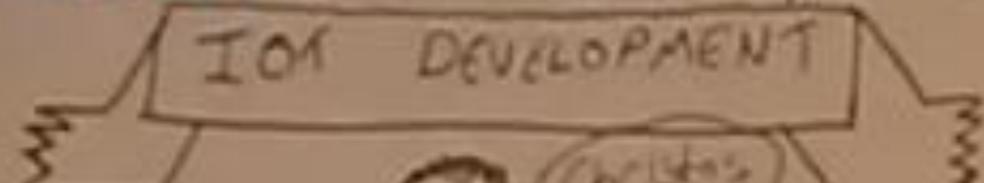
IoT Development Fun with .NET and Raspberry PI

Christos Matskas
@ChristosMatskas

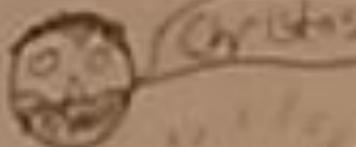


@Matt_Ferron

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

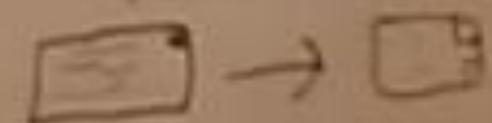
C++
C#
SS
VB.NET

Why do it?

GAZPROM
WEBSITE
SUBNET
WIFI
WINDON INT
Approach

Report
SAP CM

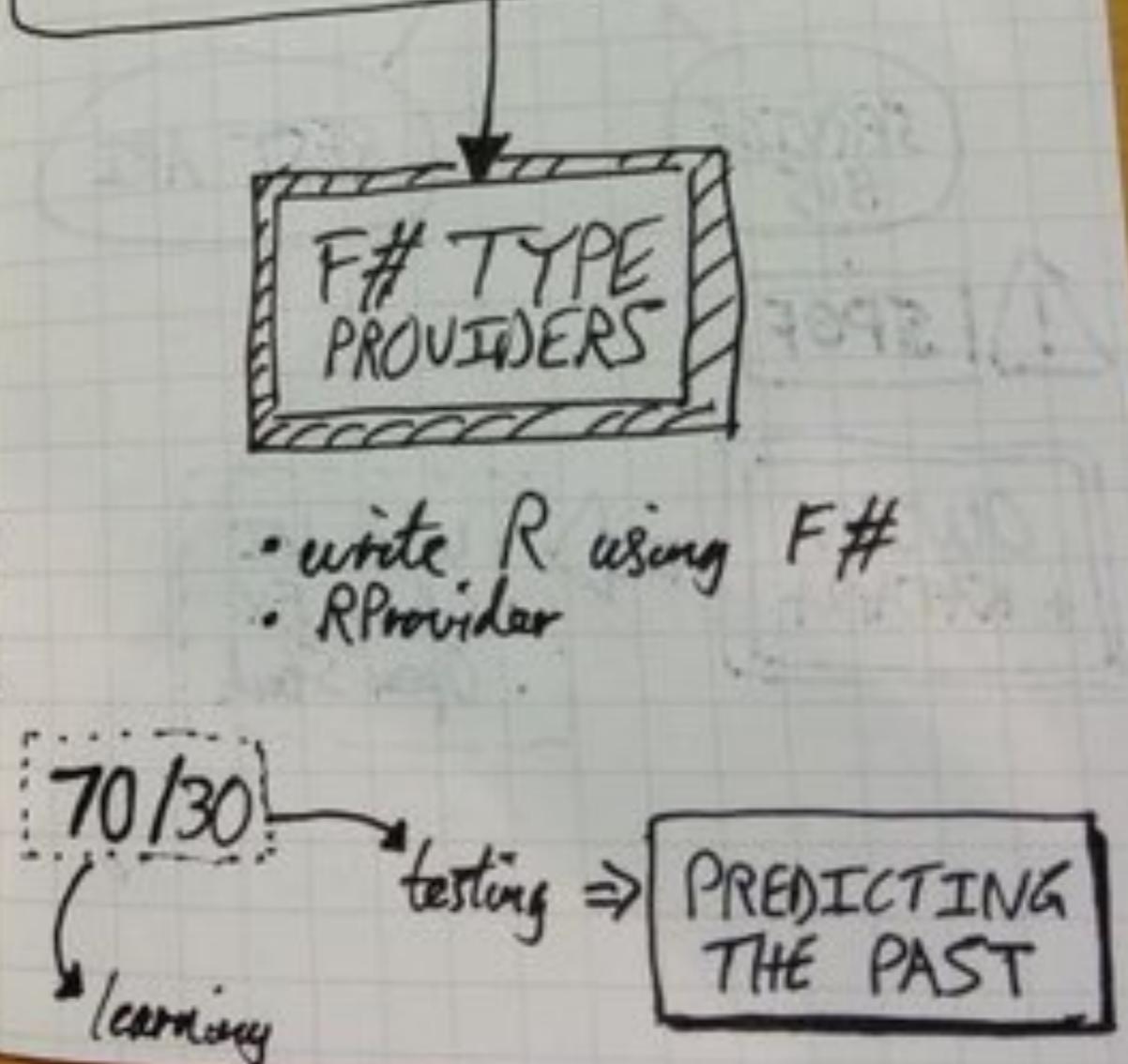
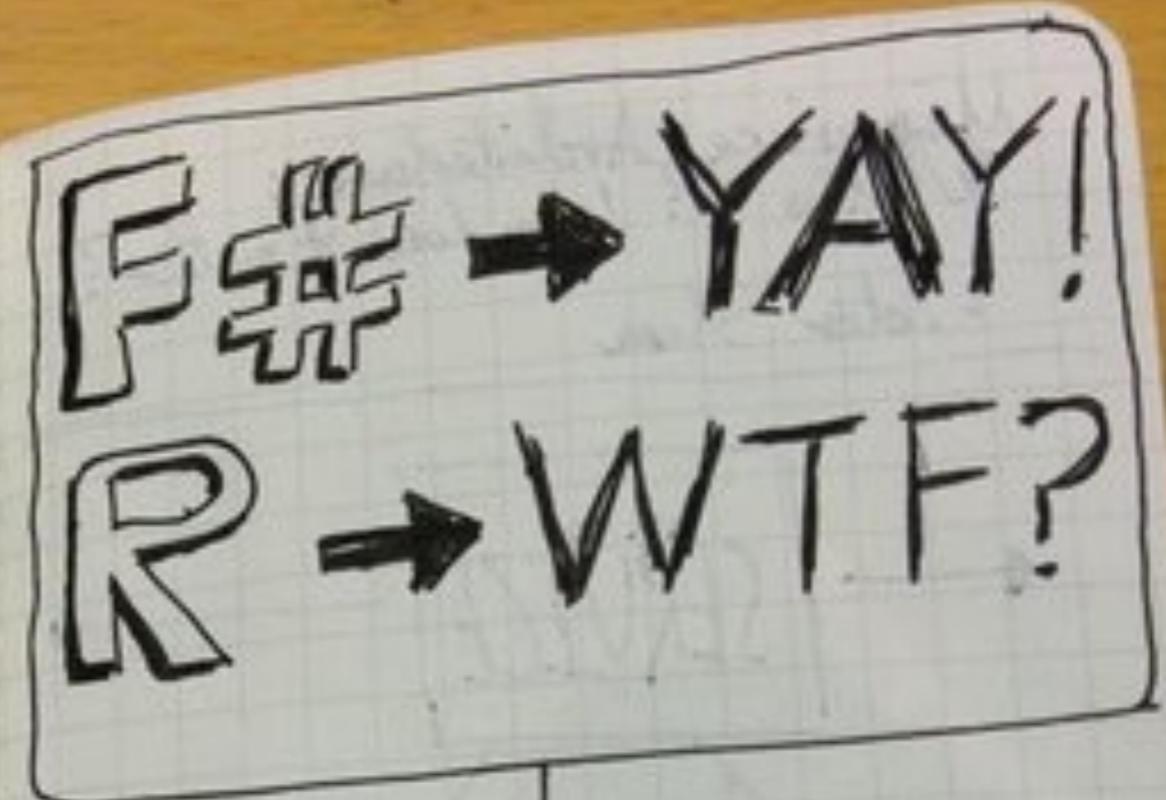
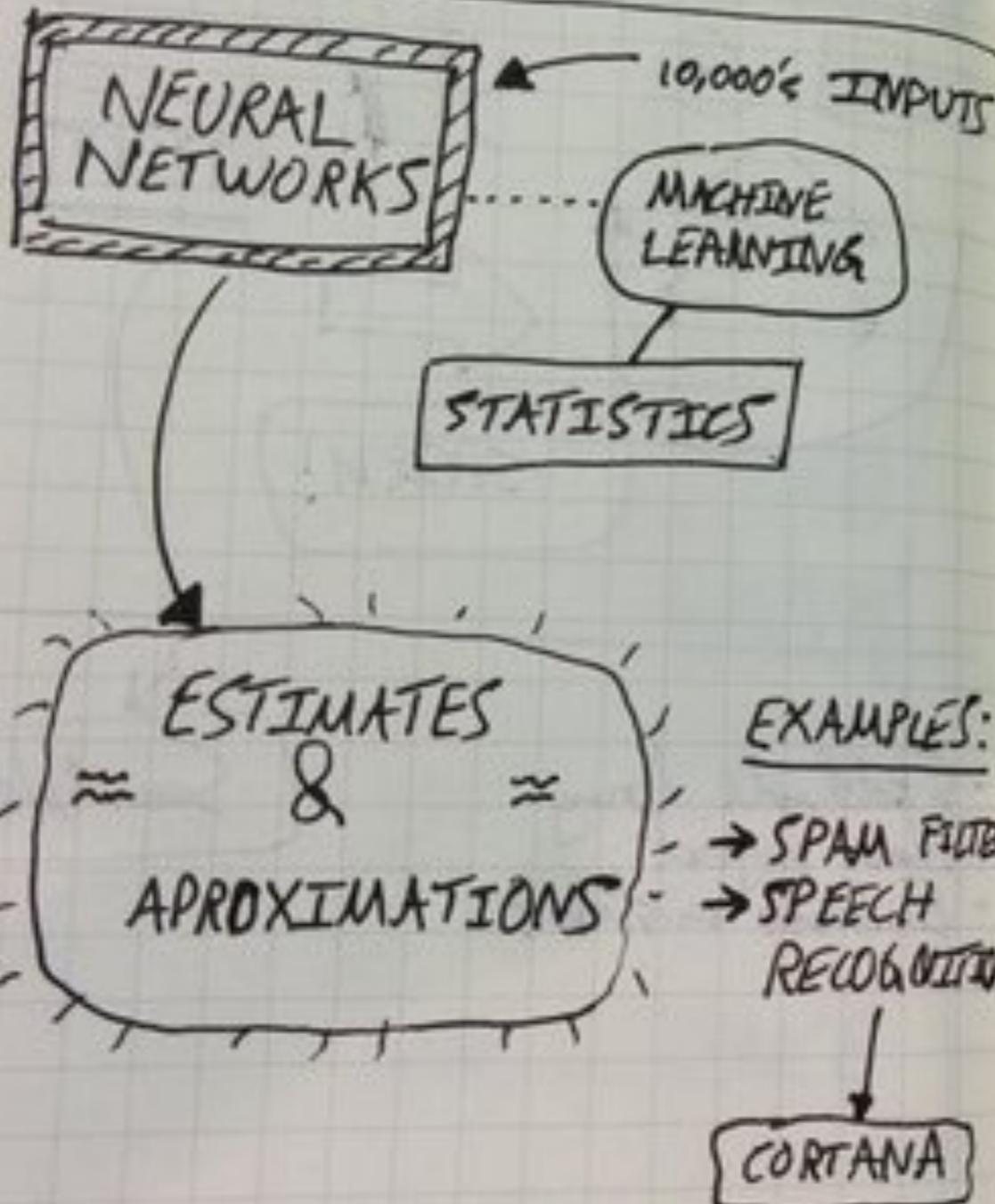
Costs
Period



Deep Dive into Deep Learning

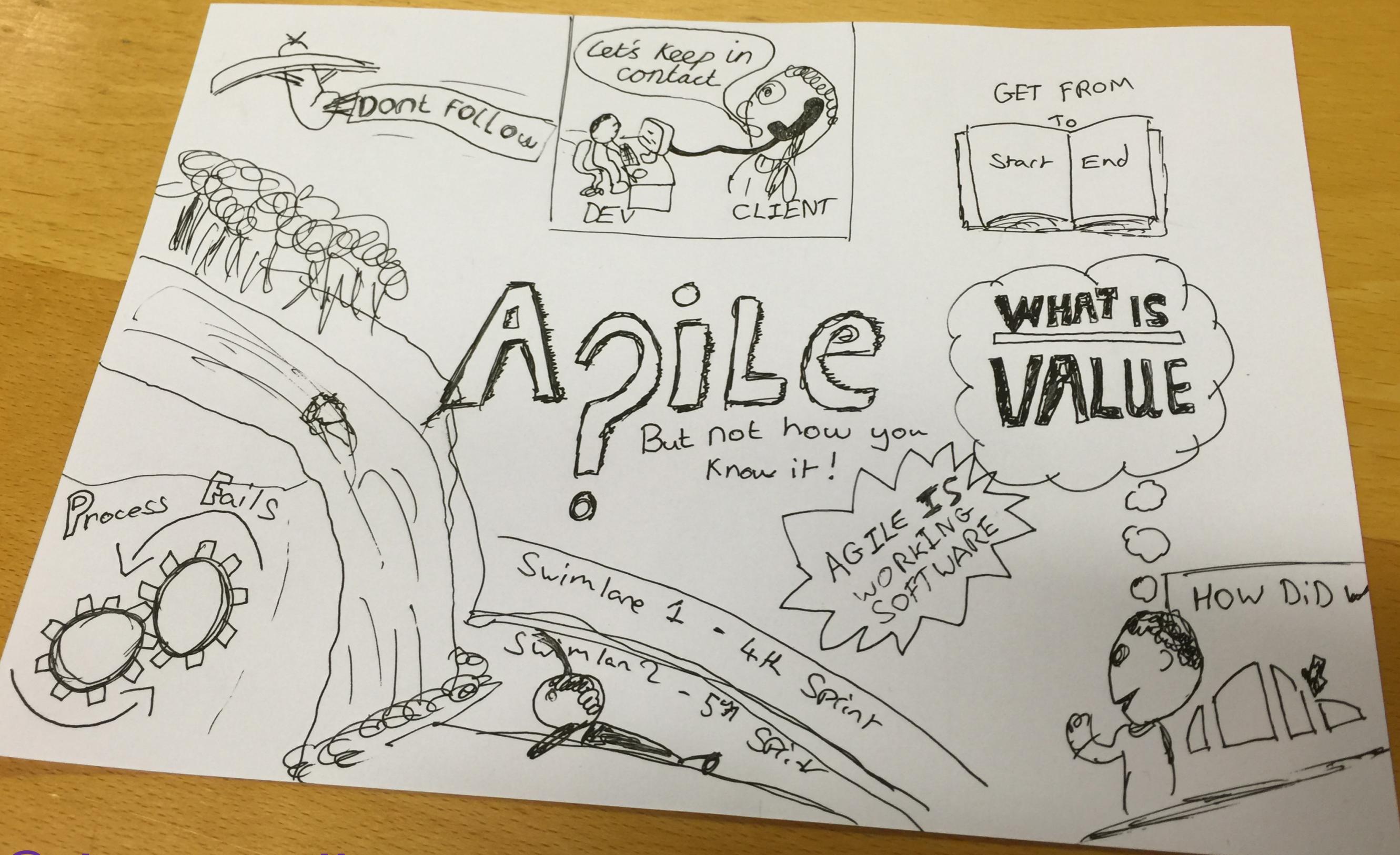
Gary Short
@garyshort

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



© NATHAN GOW

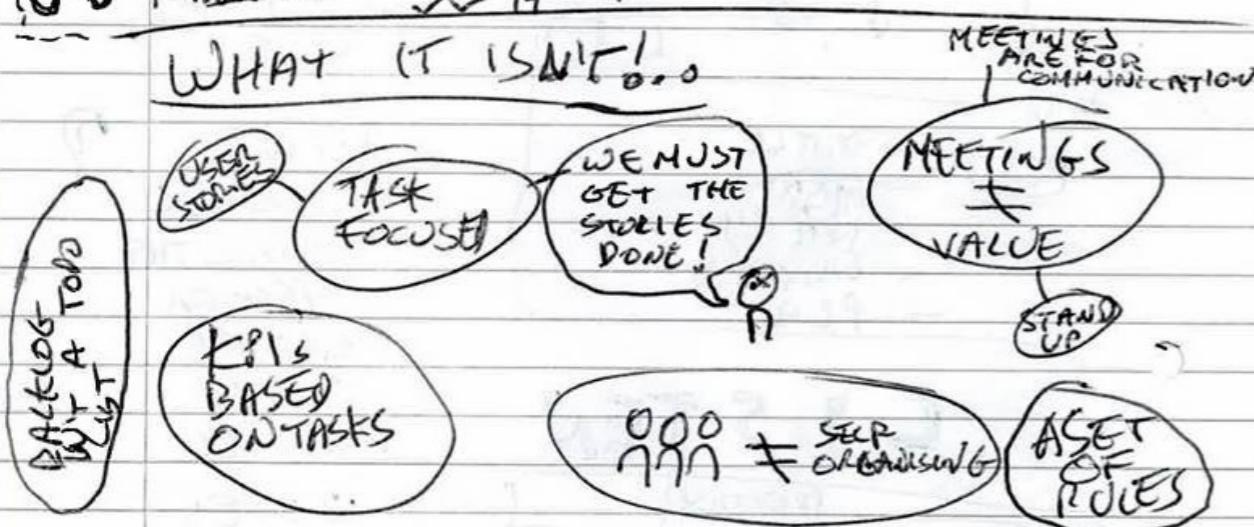


YOU KEEP USING THE WORD AGILE...

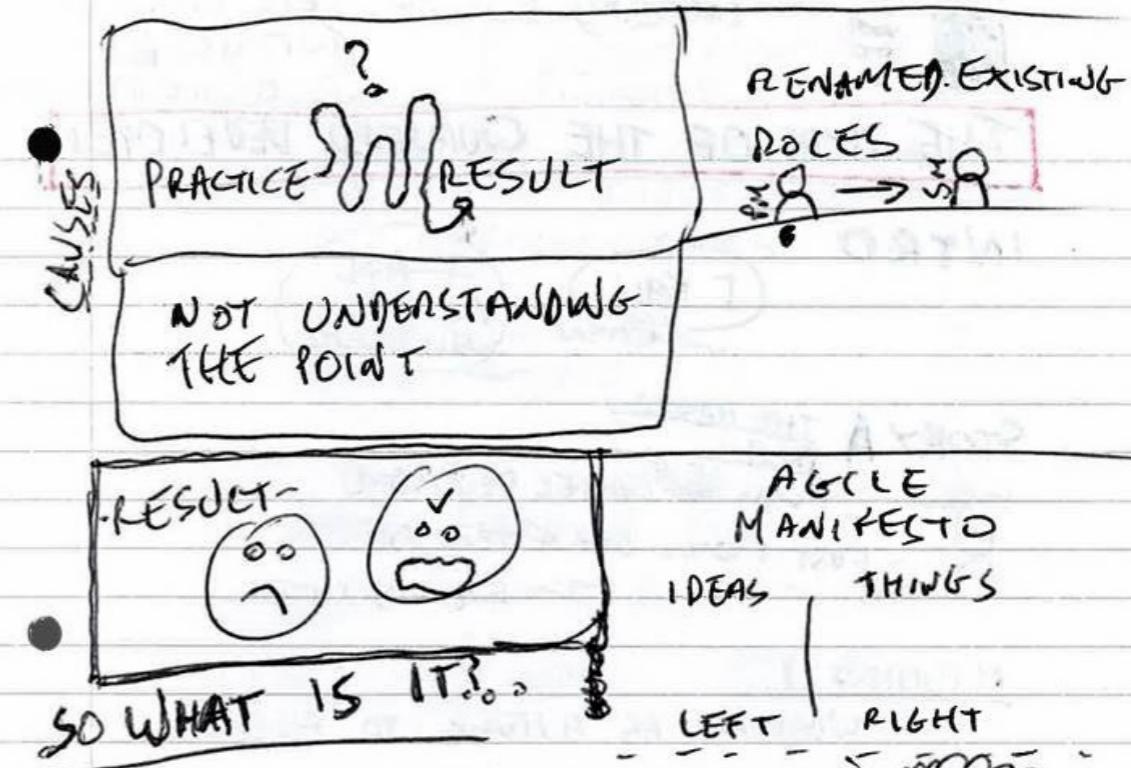
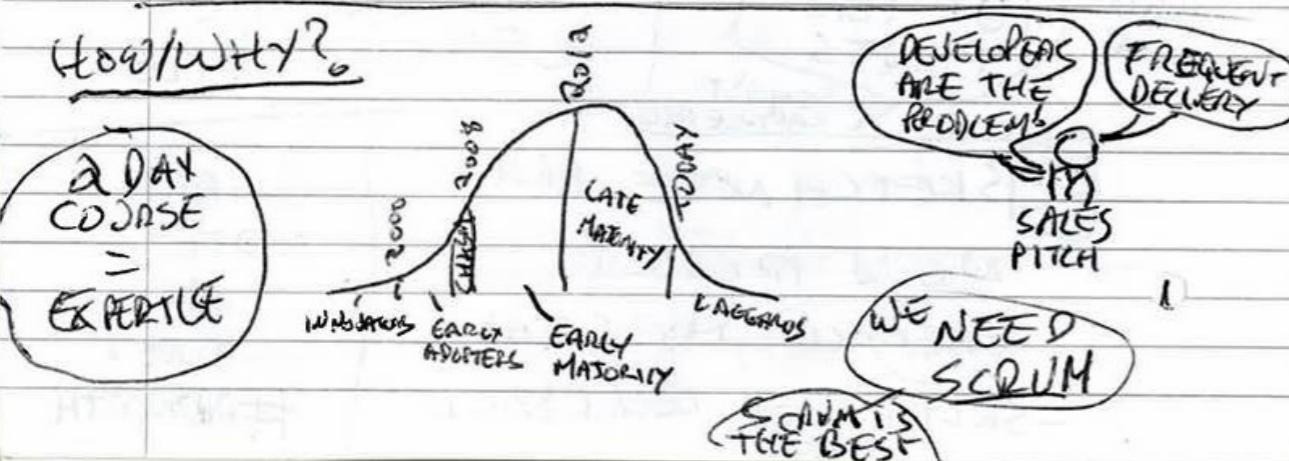
WHAT PEOPLE THINK
AGILE IS



WHAT IT ISN'T...



How/Why?

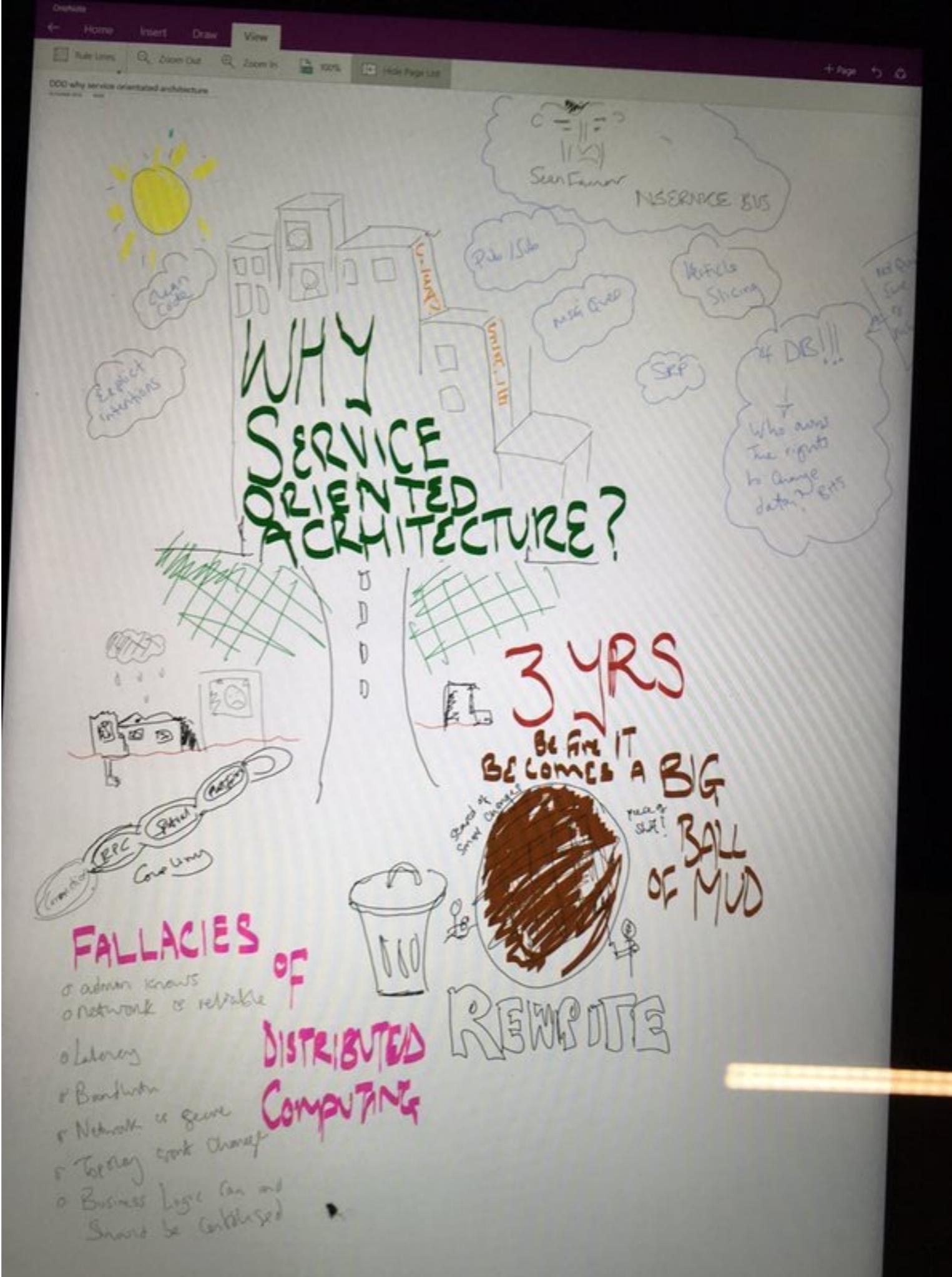


WHY USE AGILE?

- ① TRANSPARENCY
 - ② TRUST
 - ③ COLLABORATION
 - ④ DELIVER VALUE
- BETWEEN BUSINESS + DEVS
- BUSINESS SPECIFIC MEASUREABLE
- TO DESIGN & PRIORITISATION
- REDUCE RISK
- EVOLUTION

Why Service Oriented Architecture?

Sean Farmar
@farmar



@laitang

Why SOA?

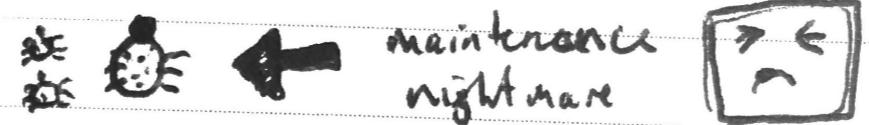


Sean Farmer

THE EVO R. →

@farmer

Small monolith → \$ success → features + + ↴

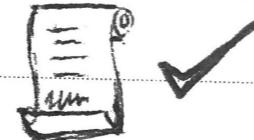


reduce

Coupling

No sharing

Only Contracts for communication



Coupling

Afferent Efferent



Coupling
Impossible.

MINIMIZING
IS KEY!!!

DEPENDENCIES

DEPENDS ON

Temporal

TIMING, RPC

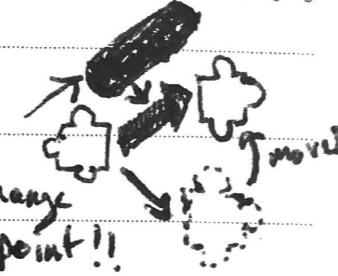
- Async messaging
- Publish/Subscribe

+ Forget.

Spatial

DEPLOYMENT POINTS

need to change endpoint!!

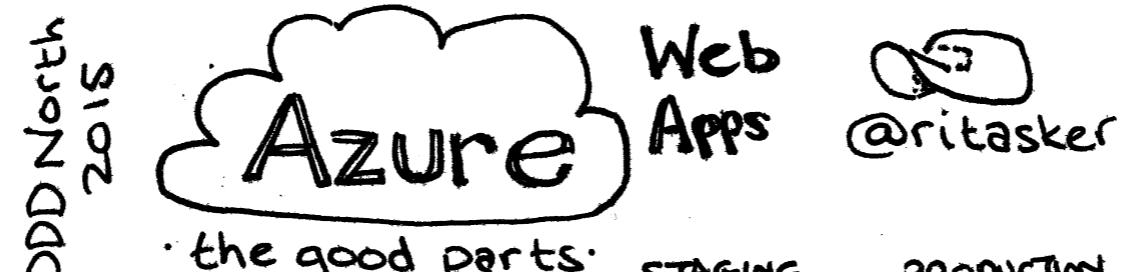


@mecodepanda

Azure: the good parts

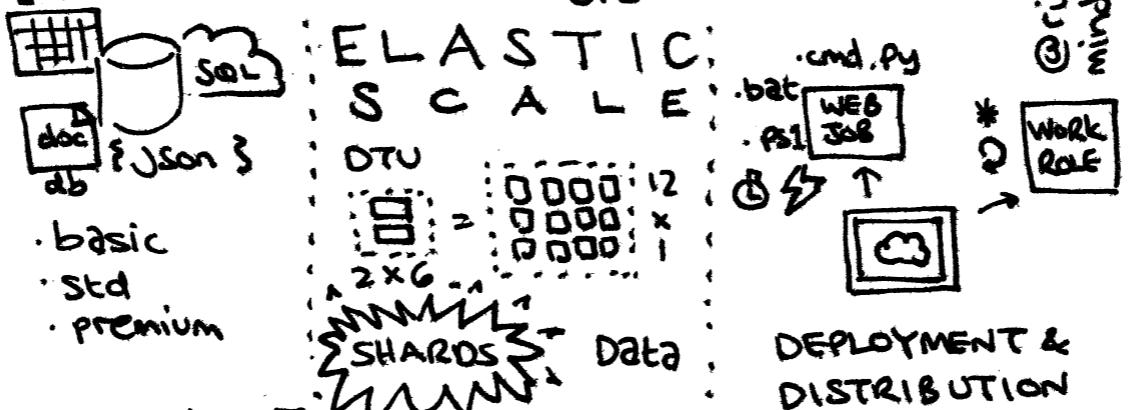
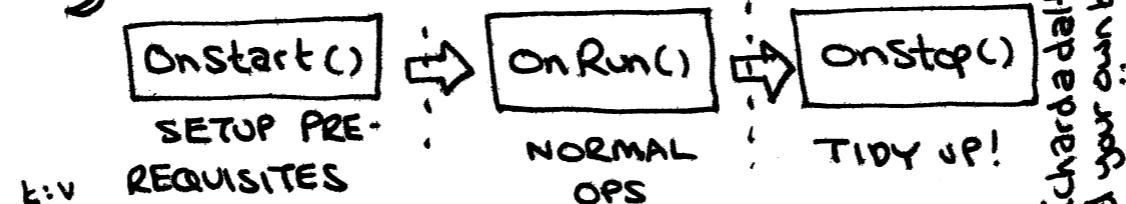
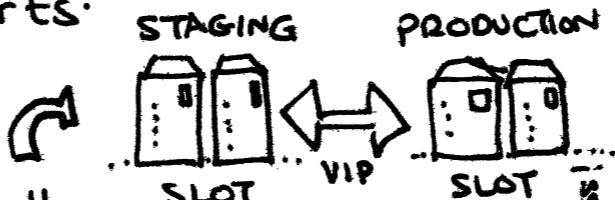
Richard Tasker

@ritasker



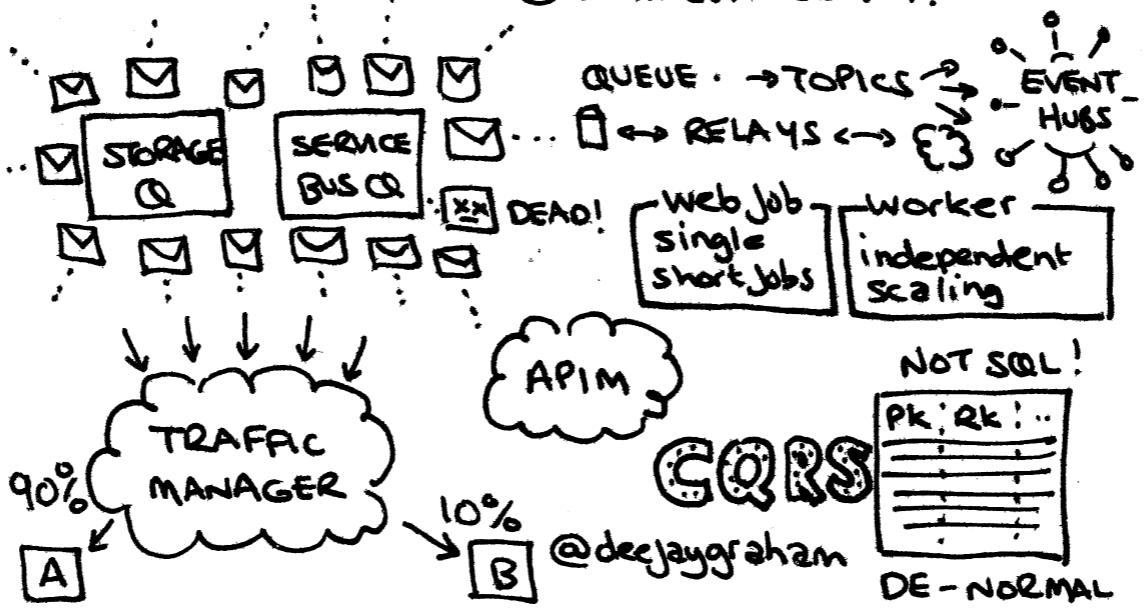
the good parts:

- deploy with
- or PowerShell



TROY HUNT
"Have I been pwned"

ARTIFICIAL DELAY!



@deejaygraham

Microservice Architectures

Peter Shaw
@shawty_ds

DDDNorth
2015

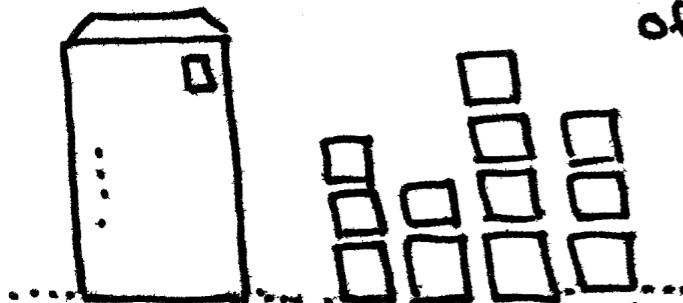
Microservice Architectures

PETER SHAW

@shawty-ds



Architectural Design Pattern

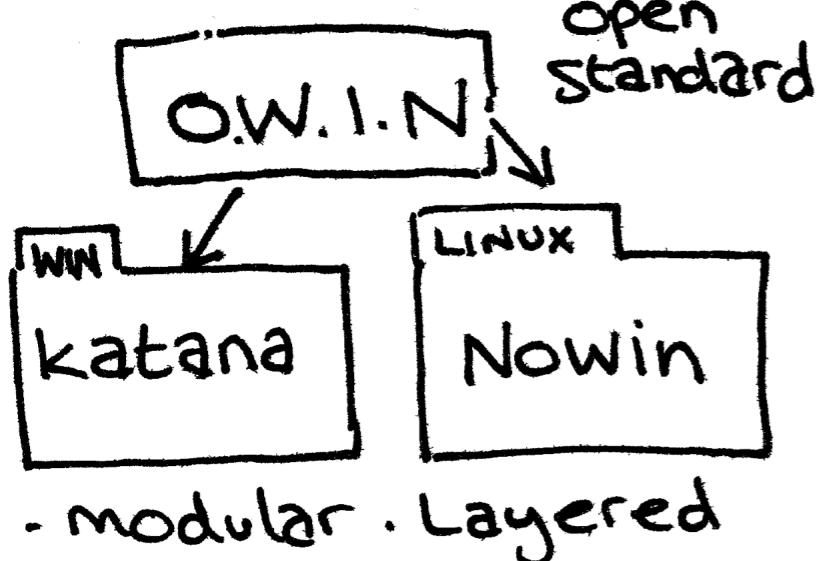


separation of concerns
not platform specific

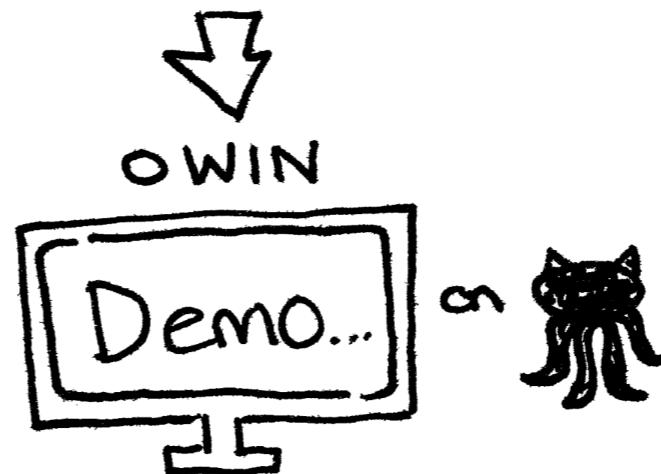
MONOLITH / 1 orders
review customers recommend



* 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



Memo Pad

Notes

LIFE WITH GIT

one year later

Manage log in AM
Deployment

Need to be
own master



Multiple workflow

✓ All

X cons

git & Posh

History: ✓ log > chronological
log

Memo Pad

History view

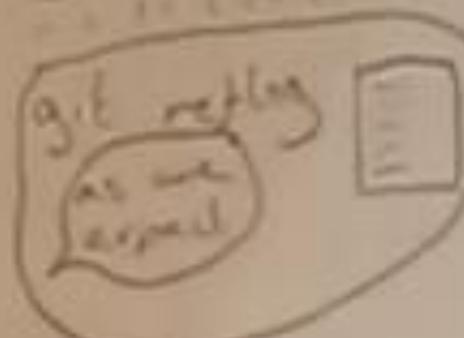
Master

Return

New

Return

Source Tree



git log
--pretty

git branch
--contains

Git log

Lots of
sources

Use powershell
as much as I can

git push
one line
git pull
one line

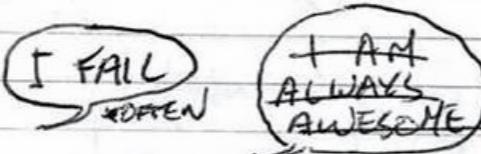
The myth of the qualified developer

Pete Smith
@roysvork

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

THE MYTH OF THE QUALIFIED DEVELOPER

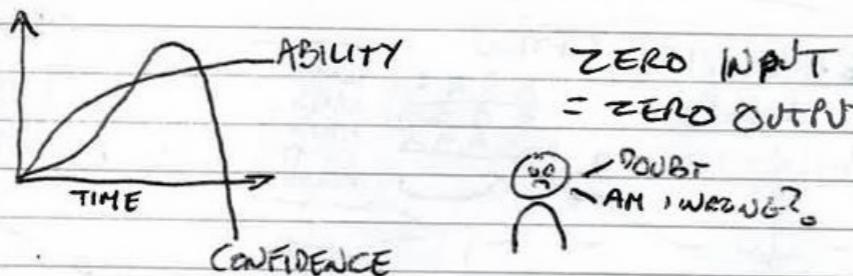
INTRO



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

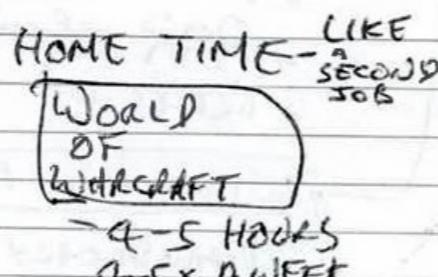
- COASTING

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
EVERONE ELSE IS
"WE HAVE ALWAYS DONE IT THIS WAY"

Person icon: LISTEN PLEASE - NO

NEED TO HAVE MORE AUTHORITY?

FAILURE CONSTRUCTIVE

LEARN FROM FAILURE IS FAIL

IF YOU ARE RIGHT
DON'T BE A DICK!

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

Person icon: WHY IS THE TEAM GETTING WORSE? - WHY WONT MANAGEMENT LISTEN

Person icon: SIEZE RESPONSIBILITY - OUT ZOOGO - WHAT NOW LEAVE
↑
DE A CONTRACTOR

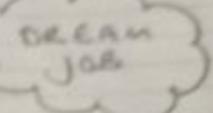
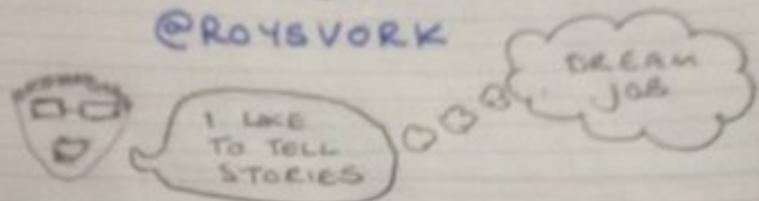
MISTAKE

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

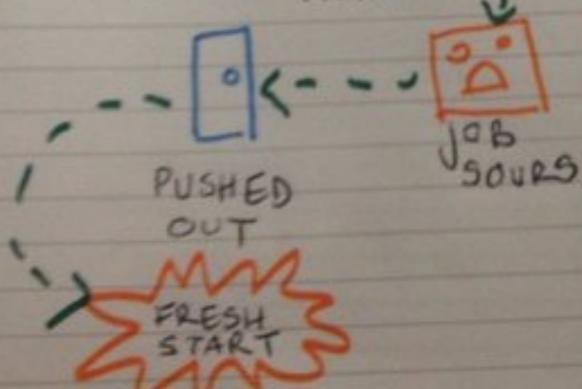
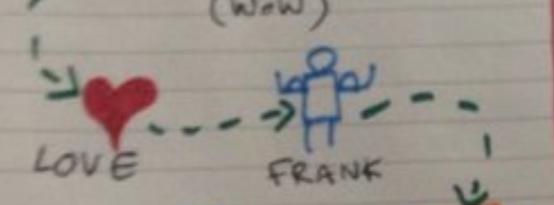
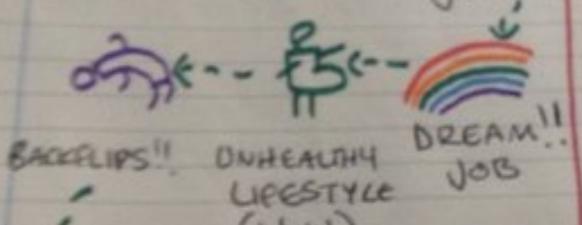
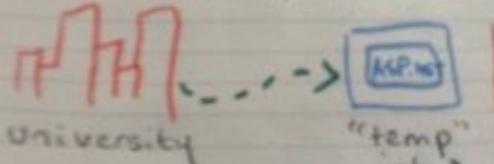
THE MYTH OF THE

Qualified Developer

PETE SMITH
@ROYSWORK



INTRIGUE, ADVENTURE AND MYSOGINY!



MISTAKE 1:
zero effort, zero return

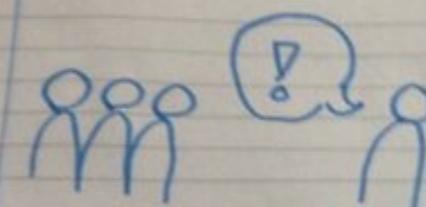
MISTAKE 2:
ability failing staying
in "temp" job too long
confidence failing

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 10: assuming you have
finished learning

**FAILURE IS
CONSTRUCTIVE**

Monoliths to Microservices A Journey

Sam Elamin
@samelamin

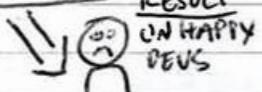
NEED TO
GET BETTER
AT PORTFOLIOS

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

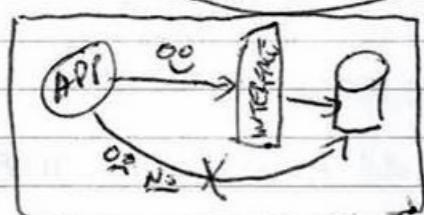
TOPIC

DOMAIN
DRIVEN
DESIGN

ERIC EVANS

SUBSCRIBER

SUBSCRIBER

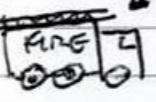


RACE HAZARDS!

- THINGS HAPPENING IN WRONG ORDER
- IMPACT ON CUSTOMERS

LOGICAL GATES

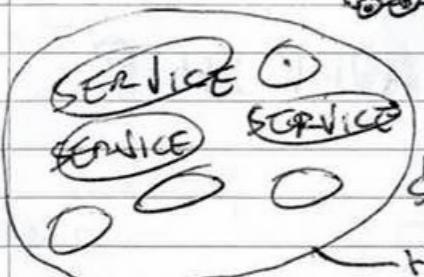
UNCLEAR
BOUNDARIES



= 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

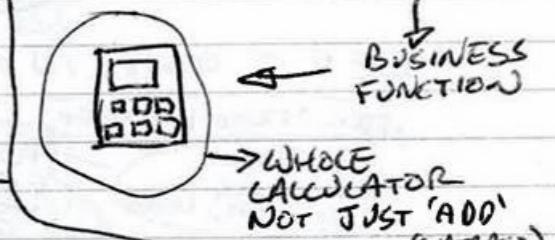
CODE OWNERSHIP
→ STATS
→ MONITORING
→ ORDER NUMBERS

BUSINESS
CONFIDENCE
IN DEVELOPERS ↑

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

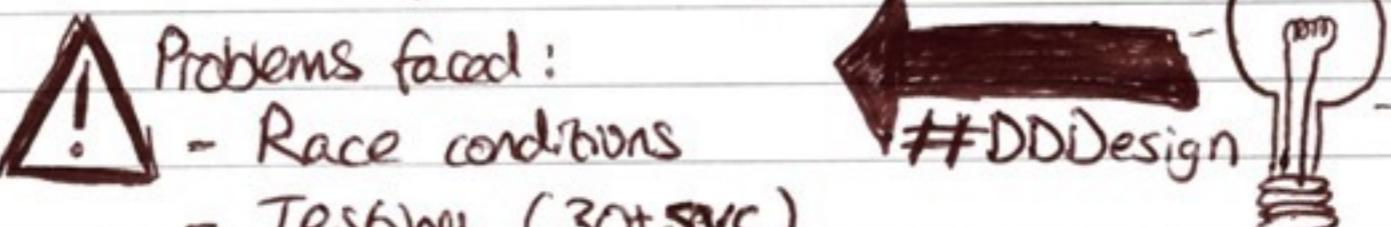
@Samuelamin

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
ENERGY

Continuous delivery

Faster
Cost Reduction
Valuable products added
No error pool

[www.calnmackay.com](http://calnmackay.com)

Memo Pad

the

cont → Test → coding Test → main Test
→ Prod

Not ready → Test

Usually fails
until we get
to live

JENKINS
TEAM CI
GO CD

@calnmackay

GAZPROM
ENERGY

Continuous
Delivery

365 hours

@eddy556

Logging & Monitoring

How to keep DevOps happy

Joel Hammond-Turner
@ramesses



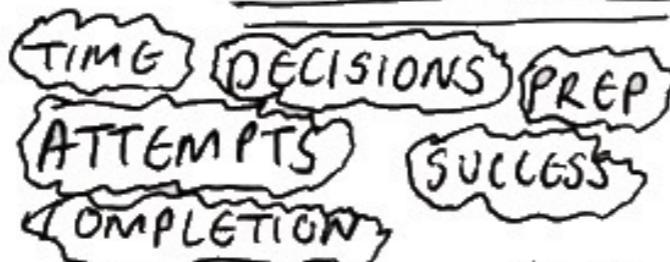
DO NOT IGNORE

EXCEPTIONS!

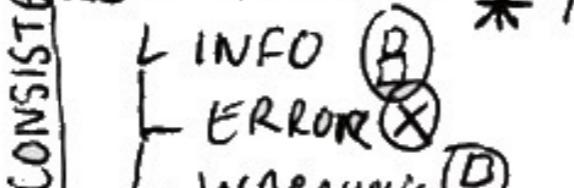
LOGGING

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

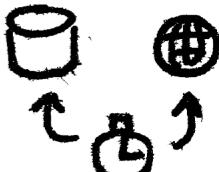
A DEEP UNDERSTANDING OF

SOFTWARE

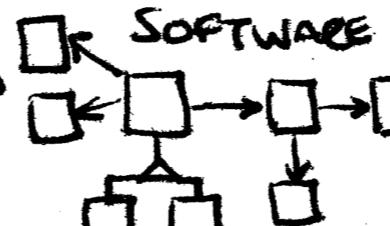
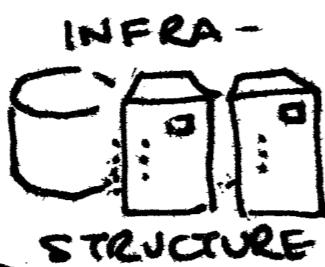
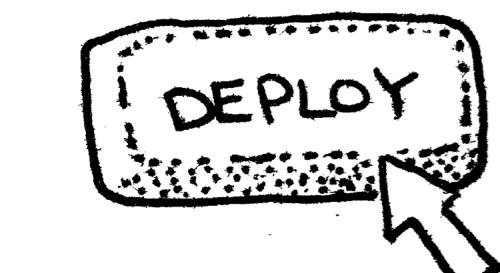
IN

PRODUCTION

WRAP CALLS



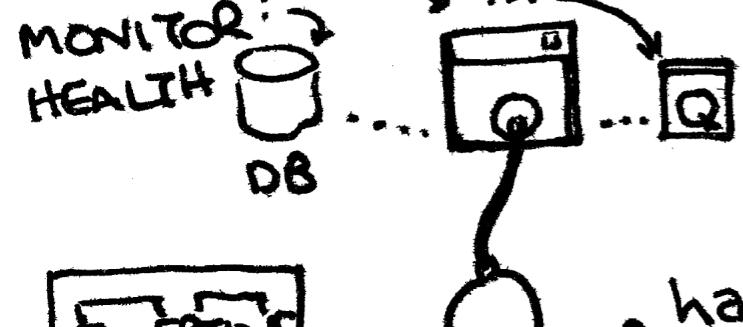
IN STORMWATCH



PERF.
MONITOR



MONITOR
HEALTH



- handle & warn

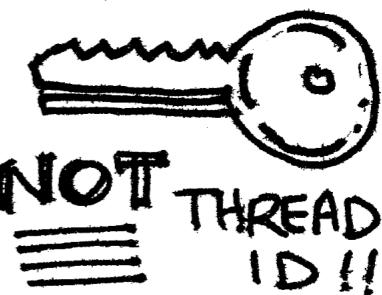
"NO SUCH THING AS AN EXPECTED EXCEPTION"

LOG:

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

ONE LINE OF LOGGING
MAY BE ALL YOU GET!

CONTEXT WITH
EVERY LOG -



A CORRELATION
ID

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



raygun.io

@deejaygraham



METRICS.NET

SERILOG

ETW

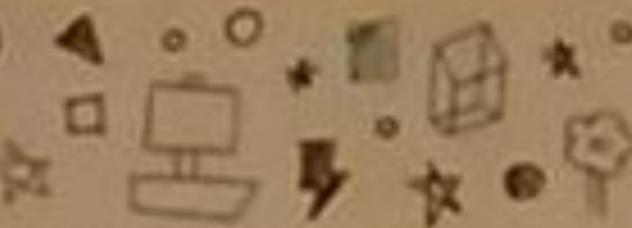
AKKA DINERS

@deejaygraham

React for .NET developers

Macs Dickinson
@MacsDickinson

Memo Pad

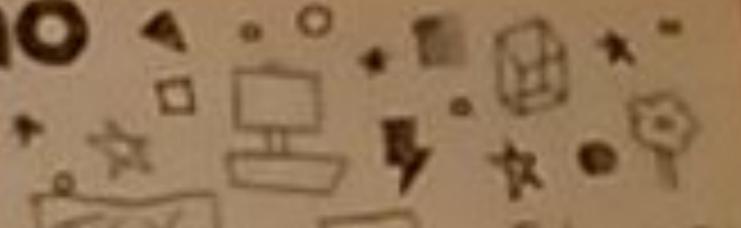


REACT

63

- Easy to learn
 - Encapsulated language
 - Declared
 - Easy to plug in

Memo



Preston

COMPONENTS

© Macmillan

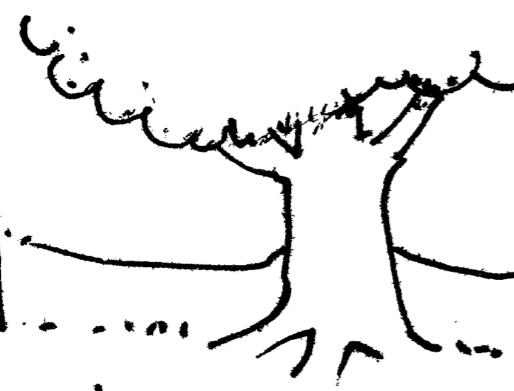
Walt MacDowell 10



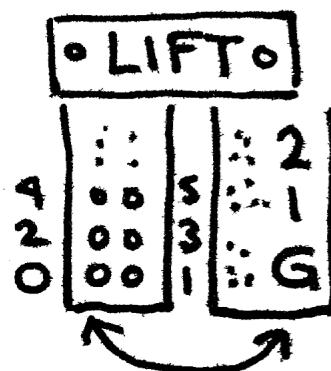
@eddy556

Don't Make Me Feel Stupid

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



embrace different paths



Regional Variation:

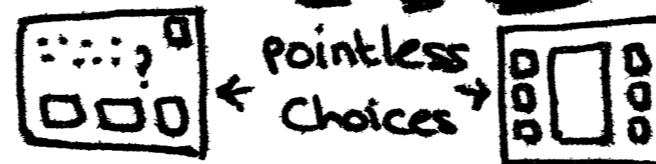
WINDOWS

TMI

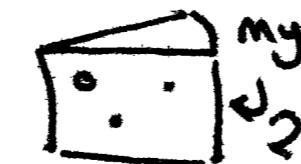


VIEW STATE

APPLE
TLI

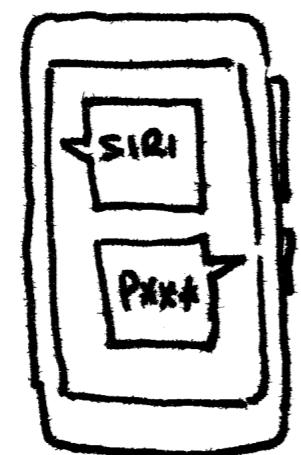


who moved

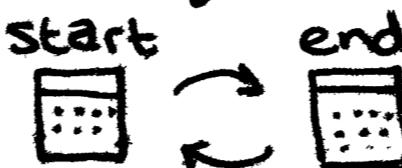


Android

Surprise
your user
in a good
way!



Beware
the
end
of
March!



make friends with
your designers

PUSH



Affordances

"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

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>

See You Next Year !

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