Developer! Developer Developer!

UK Community Events

October 24, 2015

credits

Derek Graham @deejaygraham

Steven Hill @MrStevenHill

sketchnoting for developers

Derek Graham
@deejaygraham

SKETCHNOTING

DEREK GRAHAM

- INFORMATION LADIATORS
- WHEN WE ARE KIDS WE DRAW
  ALL CHILDREN ARE ARTISTS - PICASSO
- VISUAL THINKING

AGILE 2015

* LITTLE BOOK OF SKETCHNOTES - EBOOK *

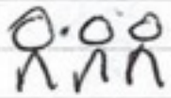
USED BY ATLASSIAN - JIRA - ON WALLS

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

- NO 'CORRECT' WAY
- COMMUNICATION

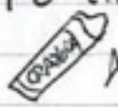
* THE SKETCHNOTE HANDBOOK *

- USE SYMBOLISM



= TEAM

- MINIMAL COLOURS TO HIGHLIGHT
  - SINGLE PEN



X1

- INDIVIDUAL STYLE

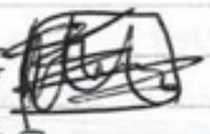
= BOOK

- CAN USE A TABLET

LOOK AT PEOPLES NOTES EXAMPLES ONLINE

WHY?

- MEMORABLE



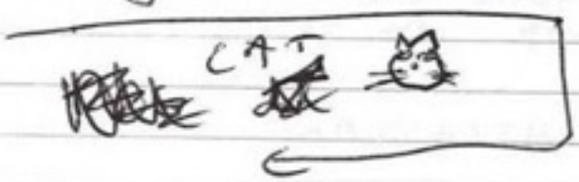
- BIG PICTURE
- CONCEPTUAL

SCIENCE

HANDWRITING > KEYBOARD
VISUAL > TEXT

Dual coding ○○ PAIR
theory ∩∩ PROGRAMMING

CAT



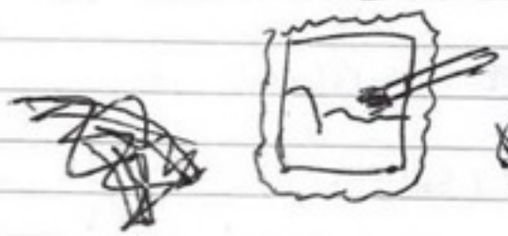
WRITING + DRAWING AIDS MEMORY

BRAIN

SLOWS

REASONS NOT

- IMMEDIATE RECALL
- TOTAL CLARITY NEEDS



YOU DON'T NEED TO BE ARTIST

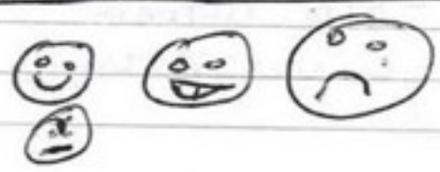
IDEAS NOT ART

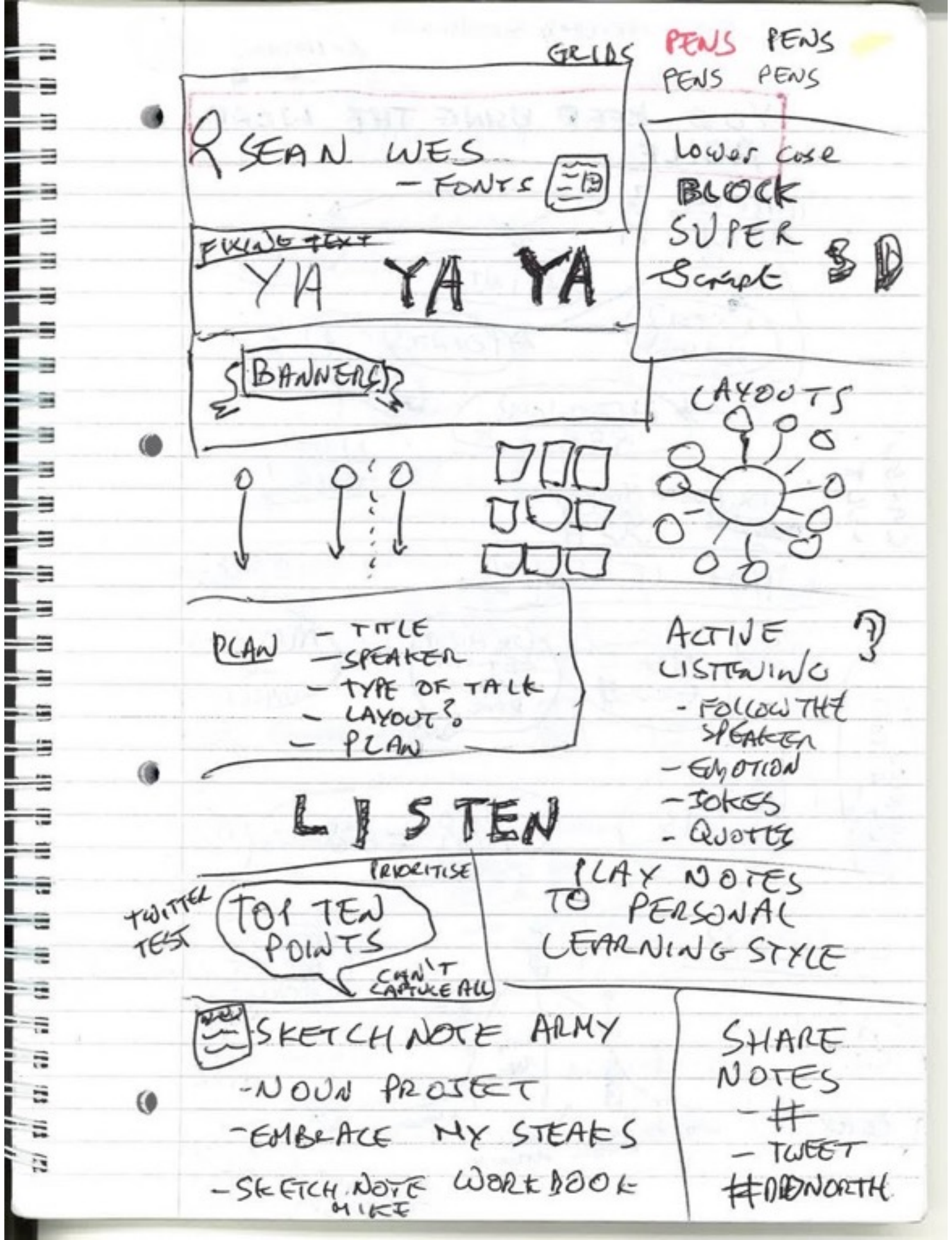
GRAPIC FACILITATOR

JEANNEC KING

WHAT YOU DRAW IS GOOD ENOUGH

USE EMOTICONS




GRIDS
PENS PENS
PENS PENS
SEAN WES
- FONTS
lower case
BLOCK
SUPER
Script
FIXED TEXT
YA YA YA
BANNERS
LAYOUTS
PLAN
- TITLE
- SPEAKER
- TYPE OF TALK
- LAYOUT?
- PLAN
ACTIVE LISTENING
- FOLLOW THE SPEAKER
- EMOTION
- JOKES
- QUOTES
?
LISTEN
PRIORITISE
TWITTER TEST
TOP TEN POINTS
CAN'T CAPTURE ALL
PLAY NOTES TO PERSONAL LEARNING STYLE
SKETCH NOTE ARMY
- NOUN PROJECT
- EMBRACE MY STEAKS
- SKETCH NOTE WORKBOOK
MIKE
SHARE NOTES
- #
- TWEET
#DBNORTH

SKETCHNOTING (IS AWESOME)

BY @MRSTEVENHILL

YAY

IDEAS

EMOTICONS

1. EMBRACE MY STEAKS

WOOF

YOU DON'T HAVE TO BE PICASSO BUT MAYBE YOU CAN

IDEAS NOT ART

2. SCIENCE

WRITING + DRAWING AIDS MEMORY

DUAL CODING THEORY

IN HERE

SLOWS PROCESSING

3. STYLES

BANNERS

lower case SUPER BLOCK Script

COLOURS COLOURS COLOURS

QUOTES

BULLETS

BOOKS

TEAM

INDIVIDUAL

4. LAYOUT

PLAN IN ADVANCE OR FREESTYLE

TITLE

5. LISTEN

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

PLAY TO YOUR LEARNING STYLE

CAPTURE MOST IMPORTANT POINTS

THE TWITTER TEST

NOT JUST WORDS...

EMBRACING SPACE - MAKE SOMETHING UP

6. SHARE

WITH COLLEAGUES

WITH THE WORLD

- TWEETS
- BLOGS
- WHITEBOARDS
- WALLS

#HASH TAGS

7. FURTHER READING

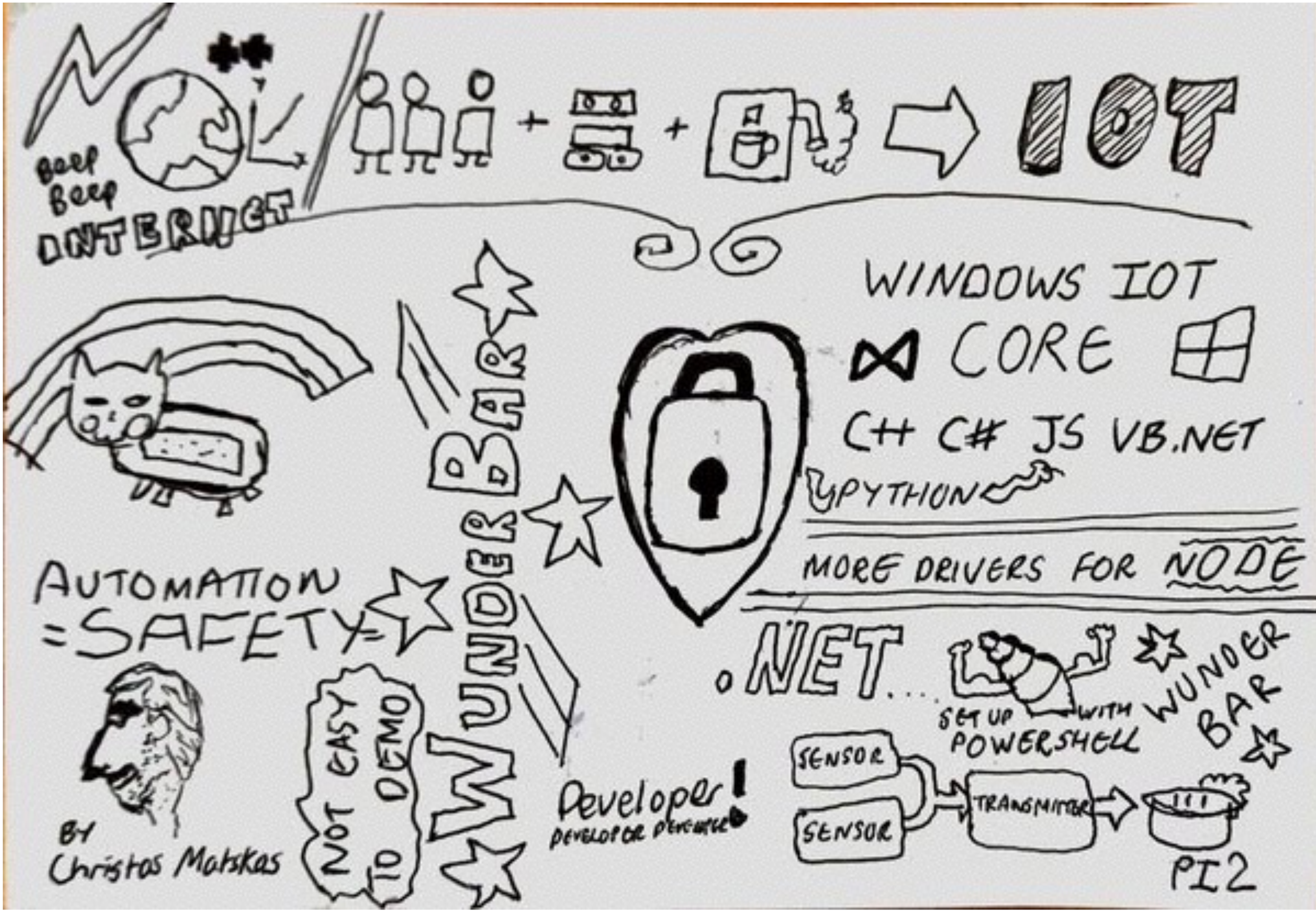
- SKETCHNOTE ARMY
- NOUN PROJECT
- @DEEJAYGRAHAM
- @ROHDESIGN
- @FINDINGMARBLES

SEANWES.COM

JEANWECKING.COM

IoT development fun with .NET and Rasberry PI

Christos Matskas

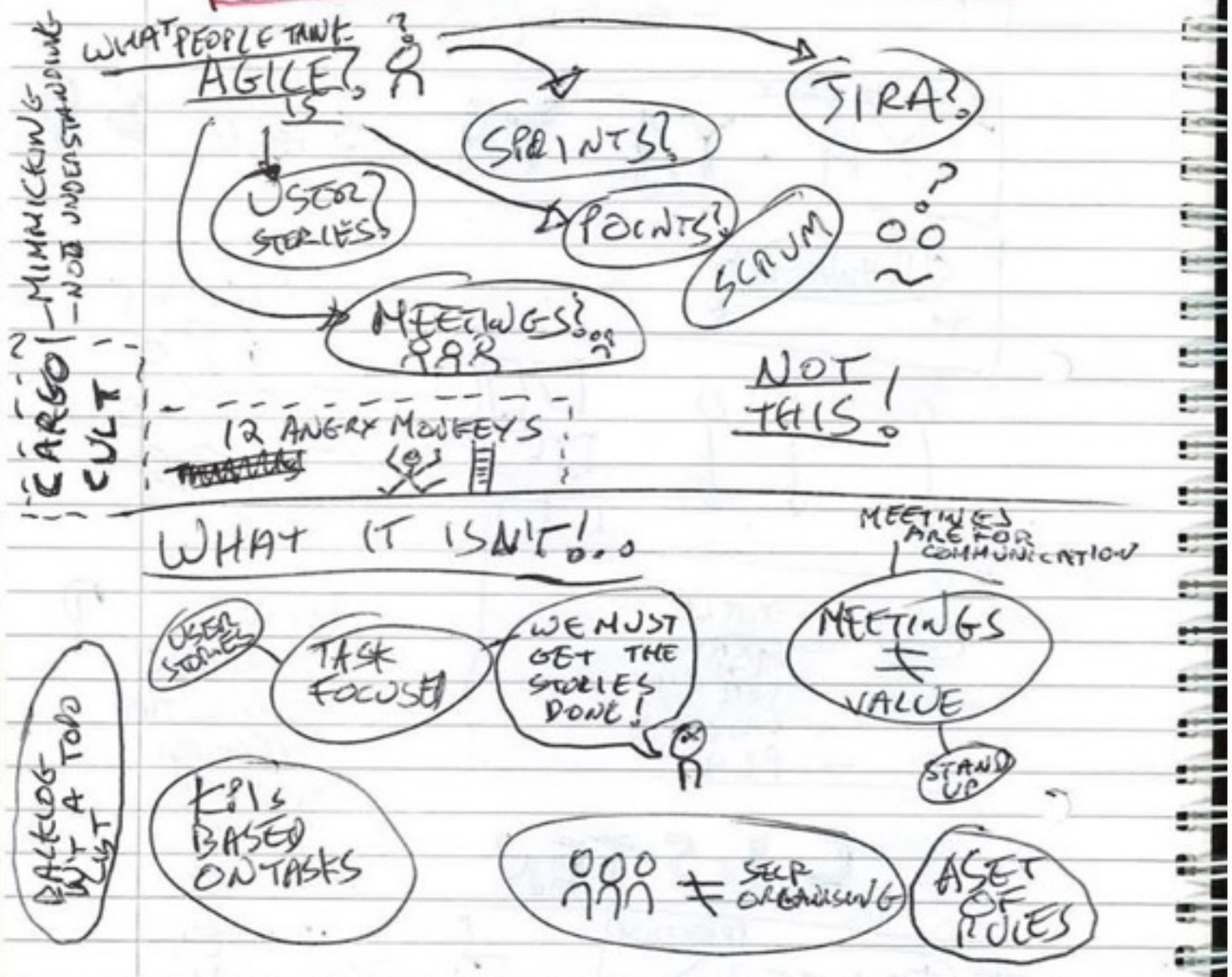

Beep Beep
DNT BRIDGE
IOT
WINDOWS IOT
CORE
C++ C# JS VB.NET
PYTHON
MORE DRIVERS FOR NODE
.NET...
SET UP WITH POWERSHELL
WUNDER BAR
AUTOMATION
=SAFETY=
NOT EASY
TO DEMO
WUNDER BAR
Developer!
developer developer
SENSOR
SENSOR
TRANSMITTER
PI2
By
Christos Matskas

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

WWW.DESIGNCODEERASE.BLOGSPOT.COM

@NATHAN GLYN

YOU KEEP USING THE WORD AGILE...



CAUSES

PRACTICE → RESULT

NOT UNDERSTANDING THE POINT

RENAMED. EXISTING ROLES

RESULT

SO WHAT IS IT?..

AGILE MANIFESTO

IDEAS | THINGS

LEFT | RIGHT

VALUE STREAM MAPPING

STEVE PEREIRA

PRINCIPLES OFTEN MISSED

YOU DO NOT HAVE TO FOLLOW THE RULES

WHO HAS HEARD OF THE PRINCIPLES?

REPEATABLE BY TEAM

SHIP WORKING

#1 PRIORITY

COMMUNICATION + RELATIONSHIPS

TRUST + MOTIVATION

- TECHNICAL EXCELLENCE + GOOD DESIGN
- K.I.S.S.
- SELF ORGANISING
- REFLECTION + CI → TEAM DECIDE

EVOLVE

WORKING SOFTWARE

DELIVER VALUE

COLLAB

GOAL FOCUS (NOT TASK FOCUS)

CONSTANT FEEDBACK

WHY USE AGILE?

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

BETWEEN BUSINESS + DEVS

BUSINESS SPECIFIC MEASUREABLE

FEEDBACK → TO DESIGN + PRIORITISATION

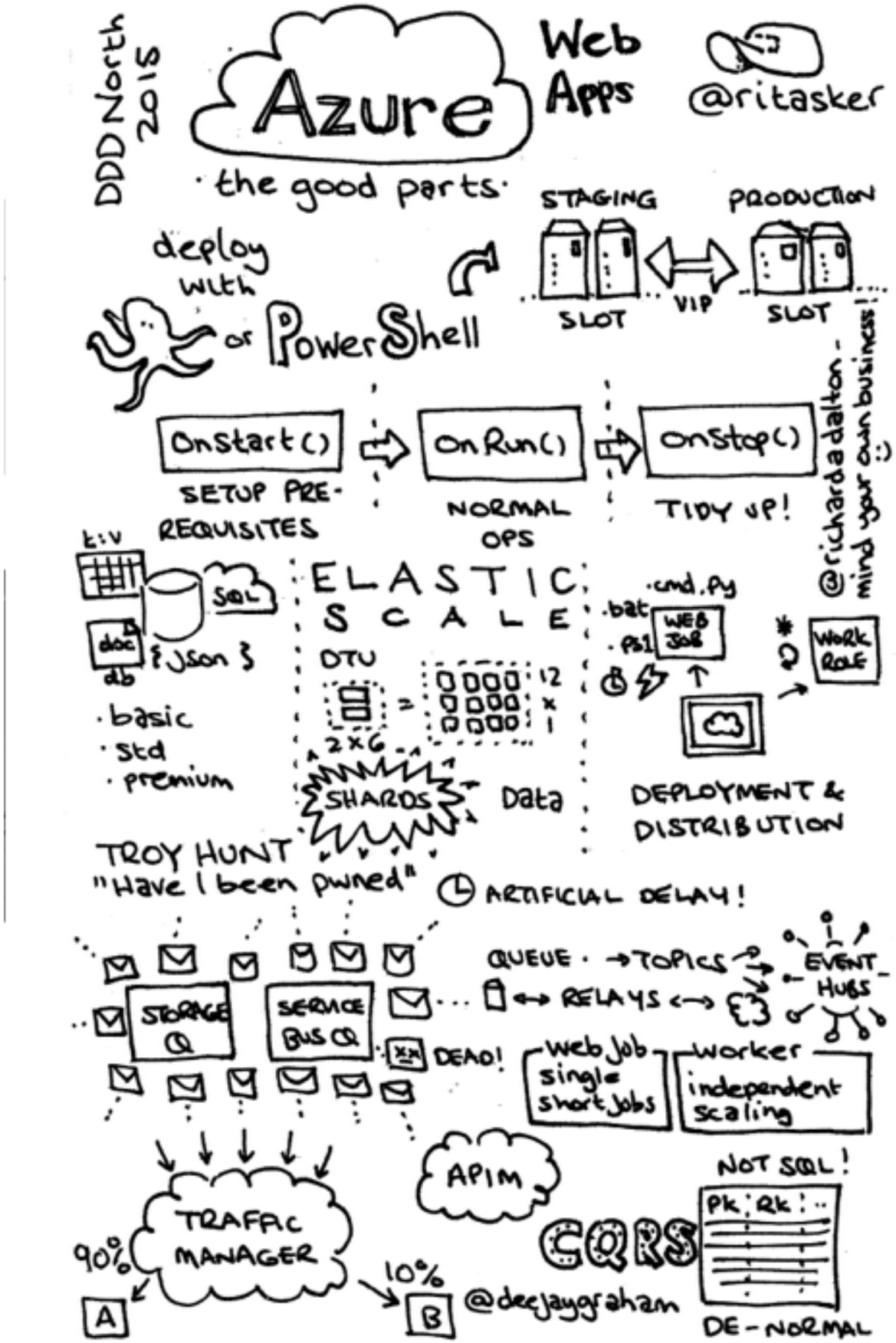
£1:30

XP?

EVOLUTION

Azure: the good parts

Richard Tasker
@ritasker


DDD North 2015
Azure
Web Apps
@ritasker
· the good parts ·
deploy with
or PowerShell
STAGING
PRODUCTION
SLOT
VIP
SLOT
OnStart()
SETUP PRE-REQUISITES
OnRun()
NORMAL OPS
OnStop()
TIDY UP!
@richardadalton - mind your own business! :)
t:v
SQL
doc
db
{JSON}
· basic
· std
· premium
ELASTIC SCALE
DTU
2x6
12 x 1
SHARDS
Data
· cmd.py
· bat
· ps1
WEB JOB
WORK ROLE
DEPLOYMENT & DISTRIBUTION
TROY HUNT
"Have I been pwned"
ARTIFICIAL DELAY!
QUEUE · → TOPICS
EVENT HUBS
RELAYS
STORAGE Q
SERVICE BUS Q
DEAD!
web job
single short jobs
worker
independent scaling
APIM
NOT SQL!
Pk Rk
CQRS
TRAFFIC MANAGER
90%
10%
A
B
@deejaygraham
DE-NORMAL

Microservice Architectures

Peter Shaw
@shawty_ds

DDDNorth 2015

Microservice Architectures

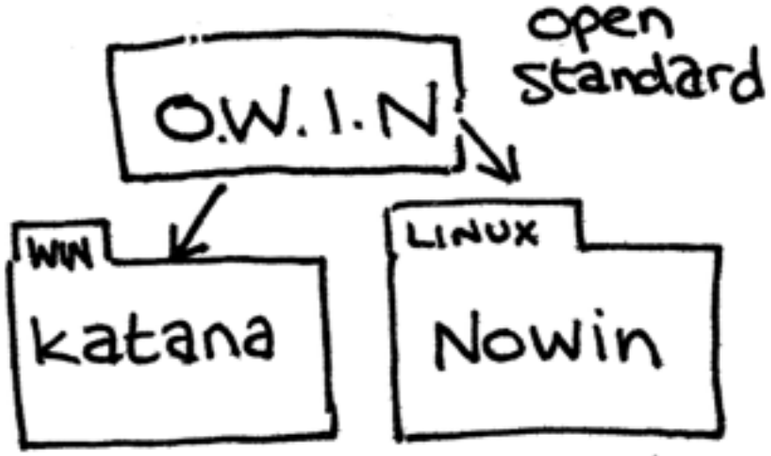
PETER SHAW

Architectural Design Pattern

separation of concerns

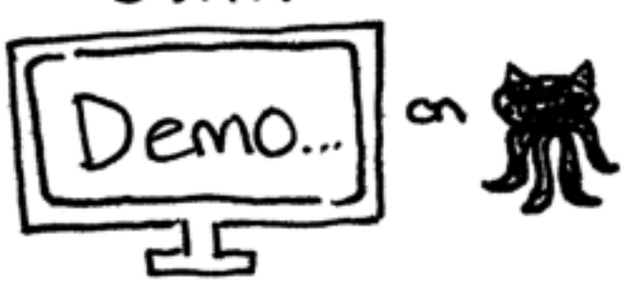
not platform specific

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



SYSTEM.Web

OWIN



Real world life with Git

Matteo Emili

WHY?

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

MATTEO

TFS VC ⇨ GIT

365 DAYS OF GIT IN THE REAL WORLD

SNAP SHOT ON EVERY COMMIT

FREE TRY SOURCE TREE CLIENT

POWERFUL @ THE COMMAND LINE OR POWERSHELL

TAG YOUR RELEASE

USE RELEASE CODE NAMES

GIT FLOW TO MANAGE RELEASES (AND CONVENTIONS)

WOW MUCH COMMAND LINE WOW

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

IT'S HARD TO GET EXCITED ABOUT SOURCE CONTROL

The myth of the qualified developer

Pete Smith

Pete@beyondcode.com Pete Smith
@roysvork
WWW.EQUALEXPERTS.COM

THE MYTH OF THE QUALIFIED DEVELOPER

INTRO

I FAIL
*OFTEN

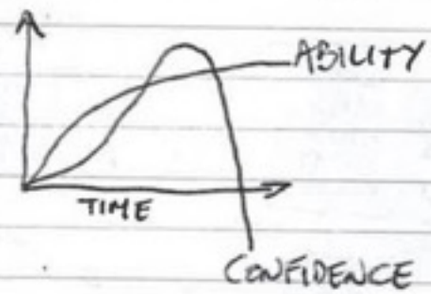
~~I AM~~
~~ALWAYS~~
~~AWESOME~~

STORY A THE MASTER BLAN

STUDENT
- I WILL BE A GAMES DEVELOPER
- FIRST I WILL GET A TEMP JOB
  ~ 5 YEARS LATER

MISTAKE 1

- WORKING AS A MEANS TO AN END



ZERO INPUT
= ZERO OUTPUT

DOUBT
AM I WRONG?

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

MISTAKE 2

- COASTING

GOT A NEW JOB
- YEAH!
- HIGH EXPECTATIONS

JOB VS WARCRAFT

← SIMILAR →

IDEA - LEARN BACKFLIPS

HOME TIME - LIKE A SECOND JOB

WORLD OF WARCRAFT
- 4-5 HOURS
- 4-5 X A WEEK

YOU ARE THE ONLY PERSON IN CONTROL OF YOUR OWN DESTINY

#1 POINT
NEVER ASSUME YOU HAVE FINISHED LEARNING

MISTAKE?

DON'T JUDGE YOUR PROGRESS AGAINST OTHERS

-YAY!

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 - IGNORING THE PERSONAL TOUCH

CRITICISING CODE CAN ALSO INSULT THE COMPANY / DEVELOPER.

LEARN FROM FAILURE IS CONSTRUCTIVE

IF YOU ARE RIGHT DON'T BE A DICK

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

LEADERSHIP?

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

- TAKE RESPONSIBILITY — PUT YOU GO — WHAT NOW — LEAVE — BE A CONTRACTOR

MISTAKE

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

Monoliths to Microservices. A Journey

Sam Elamin

NEED TO GET BETTER AT PORTRAITS

SAM ECAMIN
@SAMECAMIN

MONOLITHS TO MICRO SERVICES

FAIL FAST

WHY DO MONOLITHS GET BUILT?

GROW OVER TIME FEATURES

- ONE DB
- UNKNOWN IMPACT
- LONG + COMPLEX PROJECTS

RESULT UNHAPPY DEVS

MICROSERVICES

PUB - SUB

DOMAIN DRIVEN DESIGN
ERIC EVANS

PUBLISHER — MESSAGE — TOPIC — SUBSCRIBER, SUBSCRIBER

API — INTERFACE — NO

RACE HAZARDS!
- THINGS HAPPENING IN WRONG ORDER
- IMPACT ON CUSTOMERS

LOGICAL GATES

TESTING IS HARD!

UNCLEAR BOUNDARIES

DEPLOYMENT NEEDS TO BE CONSISTENT!

FINE = STRICT CODE REVIEWS

SERVICE SERVICE SERVICE

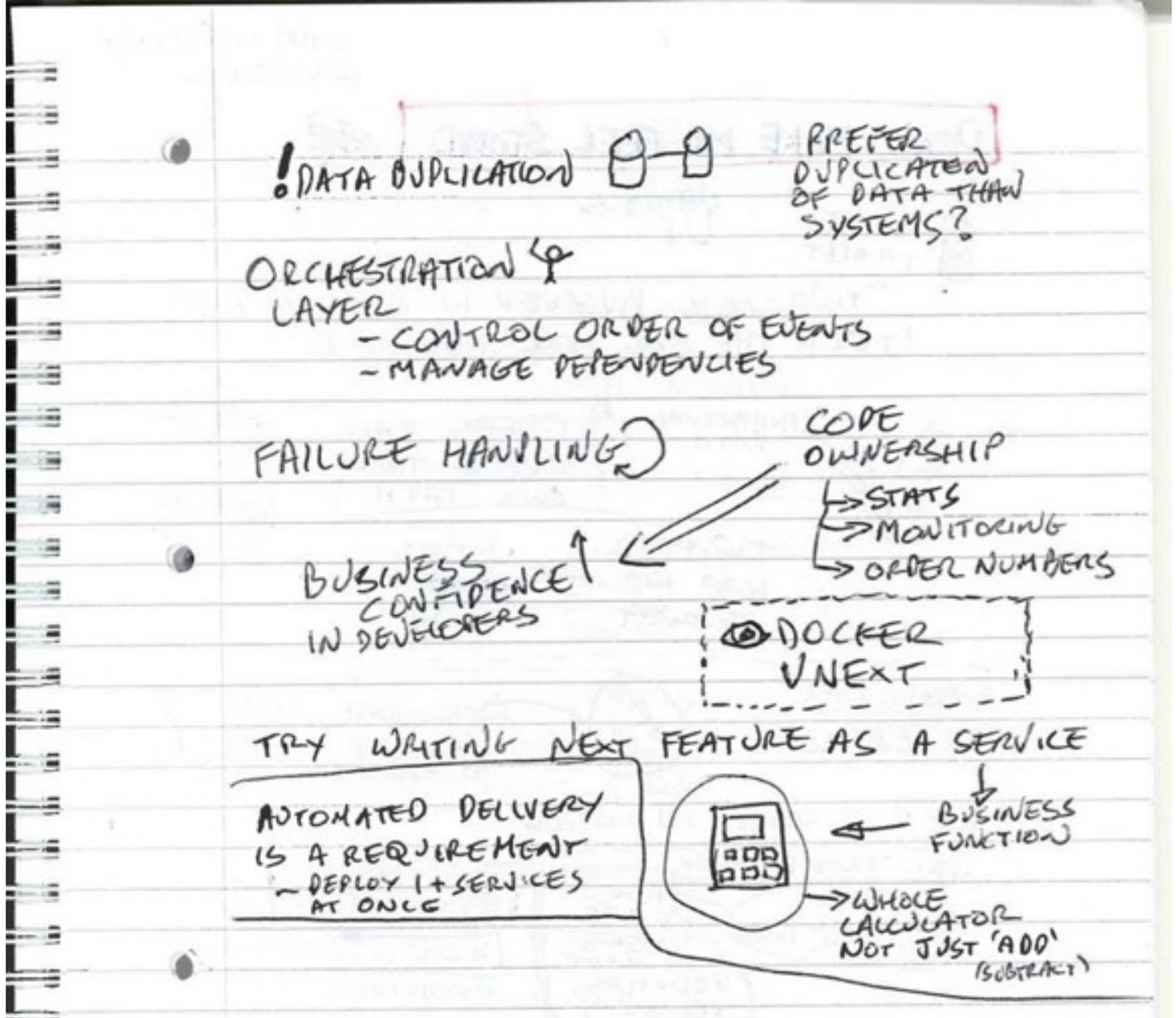
TOO MANY SERVICES?

COMPLEXITY IN NUMBER — COMPLEX INTERACTIONS

HOW TO MONITOR = HEALTH
= STATE
— SELF MONITORING
— SERVICES CAN HACK

! REDUCED CODE COMPLEXITY
INCREASED INTERACTION COMPLEXITY

GET THE BUSINESS INVOLVED
- DON'T DICTATE THE SOLUTION
- HELP THEM UNDERSTAND


!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)

Logging & Monitoring

Joel Hammond-Turner
@ramesses

CLICK

DEV OPS ?

LOGGING & MONITORING

DO NOT IGNORE

EXCEPTIONS!

LOGGING

TIMBER

LOG AS IF IT'S YOUR ONLY OPTION

LOG CONTEXT

- TIME
- DECISIONS
- PREP
- ATTEMPTS
- SUCCESS
- COMPLETION

CONSISTENT

LOG LEVELS

- INFO (B)
- ERROR (X)
- WARNING (D)

COUGH..
SNEEZE..

~CONCERNS~

- KNOW HOW YOUR SOFTWARE IS PERFORMING WHITHIN YOUR INFRASTRUCTURE
- FAILOVER
- ERRORS + EXCEPTIONS
- RESOURCE MANAGEMENT

~TECHNIQUES~

- HEALT MONITORING
- PERFORMANE

LOG ⟹ Splunk

* 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!!!!!)

DDDNORTH 2015

LOGGING & MONITORING

Joel Hammond-Turner @rammesses

A DEEP UNDERSTANDING OF SOFTWARE IN PRODUCTION

AFFECTS

SILENT ERRORS

PERF. MONITOR

"NO SUCH THING AS AN EXPECTED EXCEPTION"

- handle & warn
- capture all the data
- inner & aggregate exceptions

ONE LINE OF LOGGING **MAY** BE ALL YOU GET!

LOG:
- ATTEMPTS
- DECISIONS
- PREPARATION
- SUCCESS
- TIMING
- COMPLETION

CONTEXT WITH EVERY LOG -

ACTIVITY ID CORRELATION

SPLUNK NOT THREAD ID !!!

METRICS.NET
SERILOG ⤴ ETW?

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

raygun.io

@deejaygraham

AKKA
DINERS

Don’t Make Me Feel Stupid

Liam Westley
@westleyl

Don't make me feel STUPID!

liam Westley @westley!

DDDNorth 2015

embrace different paths

Regional Variation

pointless choices

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

LIFT

WINDOWS TMI

VIEW STATE

APPLE TLI

who moved my cheese?

Android

Surprise your user in a good way!

HINT

SIRI

PIKA

Beware the end of March!

start

end

make friends with your designers

Affordances

PUSH

"We can and should question design decisions" @deejaygraham

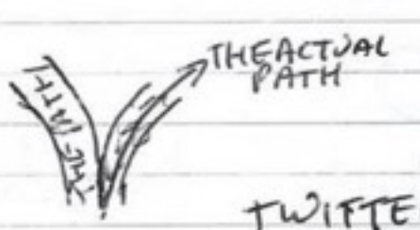
LIAM WESTLEY
@WESTLEYL

DON'T MAKE ME FEEL STUPID

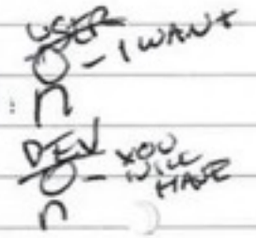
MOBILE TABLET..

VARIOUS UI

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



USERS CAN CHOOSE THEIR OWN PATH



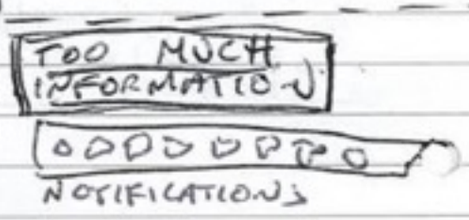
TWITTER HAD NO RE-TWEET → USERS ~~HAVE~~ BUILT IT

REGIONAL DIFFERENCES

→ CHOCOLATE CHANGED TO AMERICAN → UK MAD!

RED = GOOD IN CHINA

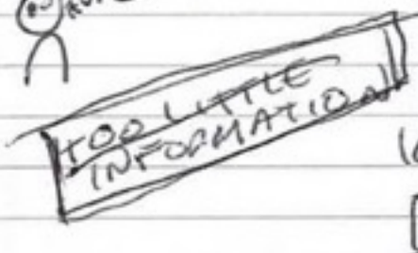
AFTER OUTLOOK HAS CLOSED



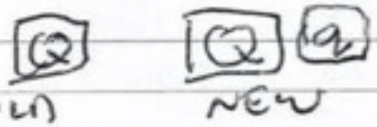
TECH TERMS
"RESTORING VIEWSTATE"

I AM A NORMAL HUMAN

ERROR MESSAGES "SOAP ERROR"



IOS KEYBOARD CASE



D

CONSISTENCY

RECEPTION G
(PRESS 0)

ANDROID SETTINGS MENU
↳ KEEP CHANGING

- - - -

Don’t Make Me Feel Stupid

Liam Westley

@westleyl