

The sketchnoter's guide to

2017
Africa
DevOpsDay





Brett St Clair

THE CULTURE behind DevOps

@brett_stclair

THE UGLY (the hard things)

- The Politics (Immune System)

"How comfortable do you feel with change?"

• A NEW way of working

make it work for your organisation

3 TIPS

- 1 Hire Product Owners
it's about EMPATHY
- 2 Design First
your customer experience is your differentiator
- 3 Don't be a dick
no "buts" allowed

When you are trying to make a change... It always starts with Culture.

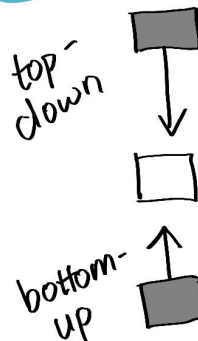
Let's get Uncomfortably EXCITED

- Build the right environment (not a one-size fits all)
- Colocating cross-functional teams (this includes Business)



• Get the latest tools
"use the latest tools to build your latest tools"

- Start with Leadership
- So many Approaches



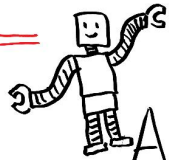
• New org culture
hire people BETTER than you..

2017
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Industry Update



Peter Rix



Robotics + Artificial Intelligence



DevSecOps Security



Practices of Mastery

Skills Shortage

how do we grow skill?



Test Driven Development

DESIGN THINKING



#NotALibrary

grown our team of designers



collaboration

Resilience

PaaS

Duplication

ARCHIVING



FEDERATED

building informal networks

how do we make everyone EXTRAORDINARY



cloud

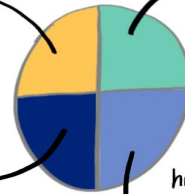


Josef Langerman

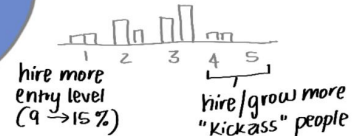
BELONGING
"working as a team"

MASTERY

Individual Dreyfus Model
Left the rules simple



INDEPENDENCE



DevOps

- 30 Mainframe pipelines in production
- 1300 nodes in Chef
- 6200 automated builds

GENEROSITY

- sharing + giving
- collaboration



Hack-a-thon

come and see - international banks

internal industry university + international

we need to change the curricula

It's all built on people...



Jason Suttie

R&D plays a role in DevOps...

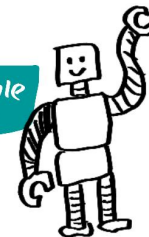
R&D and DevOps



How will automation affect our economy?

We can't imagine what the JOBS of the future will be... we need to AUTOMATE WHAT WE CAN - we will create new jobs...

We need to re-skill our people to do the KNOWLEDGE work...



BOTS + automation

@SketchingSM

Putting Ops in DevOps

- Kevin Rolfe
@KevinWRolfe

Incident response



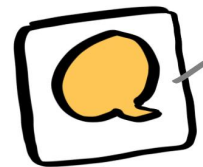
it's PEOPLE \neq BOTS, not either or

free up people to handle exceptions + do valuable work...



ChatOps

We need to ensure our customers can TRANACT



pick your chat



machine Learning
notify the correct people

our people can WORK

it's not about TOOLS
it's about delivering VALUE
to our customers

Put thought into Arch. + Design...

#AfricaDevOpsDay
sketch by:
@sketchingSM



Google Cloud

7 Products, 1 billion users

BIG DATA

- Queries for big data



Cloud DataLab

23.5 GB in 3.5 seconds

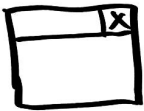
BigQuery

definition of DevOps...

union of Tools, Process & culture towards continuous delivery of customer value

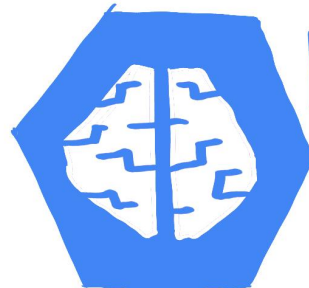
FAIL FAST

App



We're moving towards

NO Ops!



MACHINE LEARNING

- VISION
 - SPEECH
 - JOBS
 - NATURAL LANGUAGE
 - TRANSLATION
- VIDEO

API's



search images

sign 95%
90%

Probability + language...

Sketch by: Sketching Scrum Master



EXTREME OWNERSHIP

Biase De Gregorio @biased77

WHEN A TEAM TAKES OWNERSHIP - PROBLEMS GET SOLVED

GOOD & BAD, TEAM, JOB, FAILURE

moving toward LEADER-LEADER model...

1 CLARITY

Believe in the purpose

- 1 Observe,
- 2 prioritise,
- 3 execute

Planning vs. the plan

Decisiveness vs. Uncertainty

Keep it simple.

Sketch by: @sketchingSM #AfricaDevOpsDay

2 SELF-ORGANISING

3 CONSTRAINTS

Decentralised Command (allow decentralised decision-making... what can we decide on?)

Discipline equals Freedom (Shu-ha-ri)

Leading up and down the chain of command

(reporting - ask why?) (courage to call leaders out)

CONDITIONS



Check your ego (trust, admit your mistakes)

no bad teams, only bad leaders

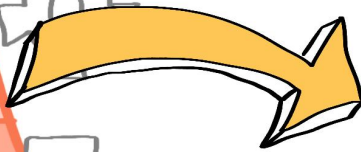
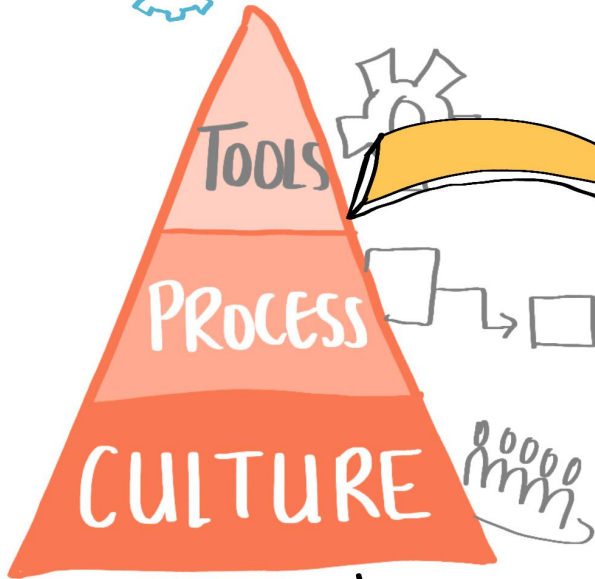
START with good leadership principles as a point of departure...



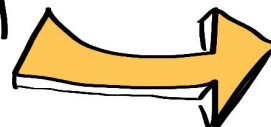
CHEF:

TOOLS, PROCESSES
+ CULTURE

Andrew Holt +
Benjamin Hinson

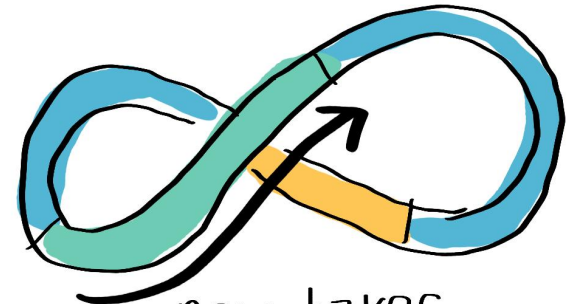


decided to use
Chef



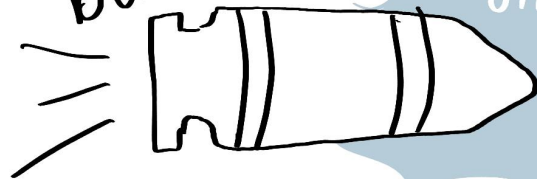
used to take
6 WEEKS
to set up
hardware...

Keep it simple



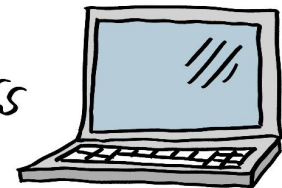
now takes
30 minutes

We looked
for the silver
bullet



there's no
Silver bullet
Solution

We're helping engineers
Solve many obstacles
they have...



Practices of Mastery

check that code in