DevOps as a movement

Igor Kurochkin
Enabling.team

DevOops

DevOps?

What Is This Devops Thing, Anyway?

In the last few months, a **movement** has begun to take shape. It's a **movement of people** who think it's time for change in the IT industry - time to stop wasting money, time to start delivering great software, and building systems that scale and last.

This **movement** is being called **Devops**.

https://www.jedi.be/blog/2010/02/12/what-is-this-devops-thing-anyway/

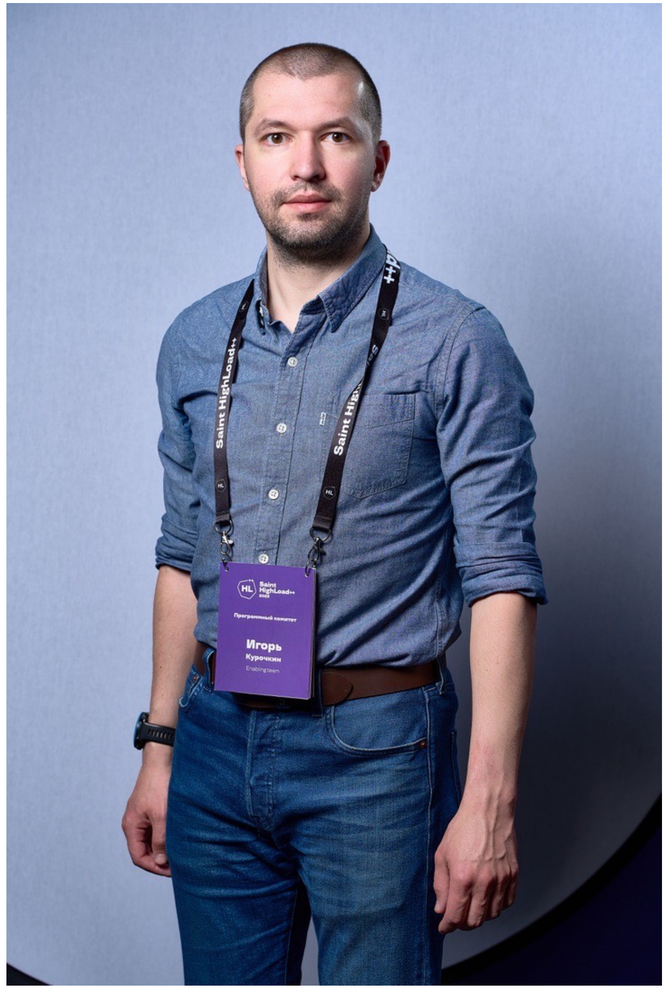
Movement

- Social, Cultural, Professional movements:
  - Free Software, Open Source, Agile, Lean, DevOps, Project to Product
- Movement vs Organization
- Organizations:
  - Communities, Foundations, Alliances, Commons, Unions

https://ssir.org/articles/entry/building_movements_not_organizations

DevOps Movement

About me



FreeBSD 4.2

ex Scalaxy, Qik, Skype, Microsoft, Express 42

Enabling.team

HighLoad, RootConf, DevOpsConf, DevOops

State of DevOps Russia

https://enabling.team/experts/ikurochkin

The Way of Ways

https://medium.com/@johnpcutler/the-way-of-ways-6988b272bcc5

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[WAY] MINDSET
MANIFESTO
FOCUS ON GUIDING PRINCIPLES
FIRST CONFERENCE
PASSIONATE EARLY EVANGELISTS
MINDSET BOOKS
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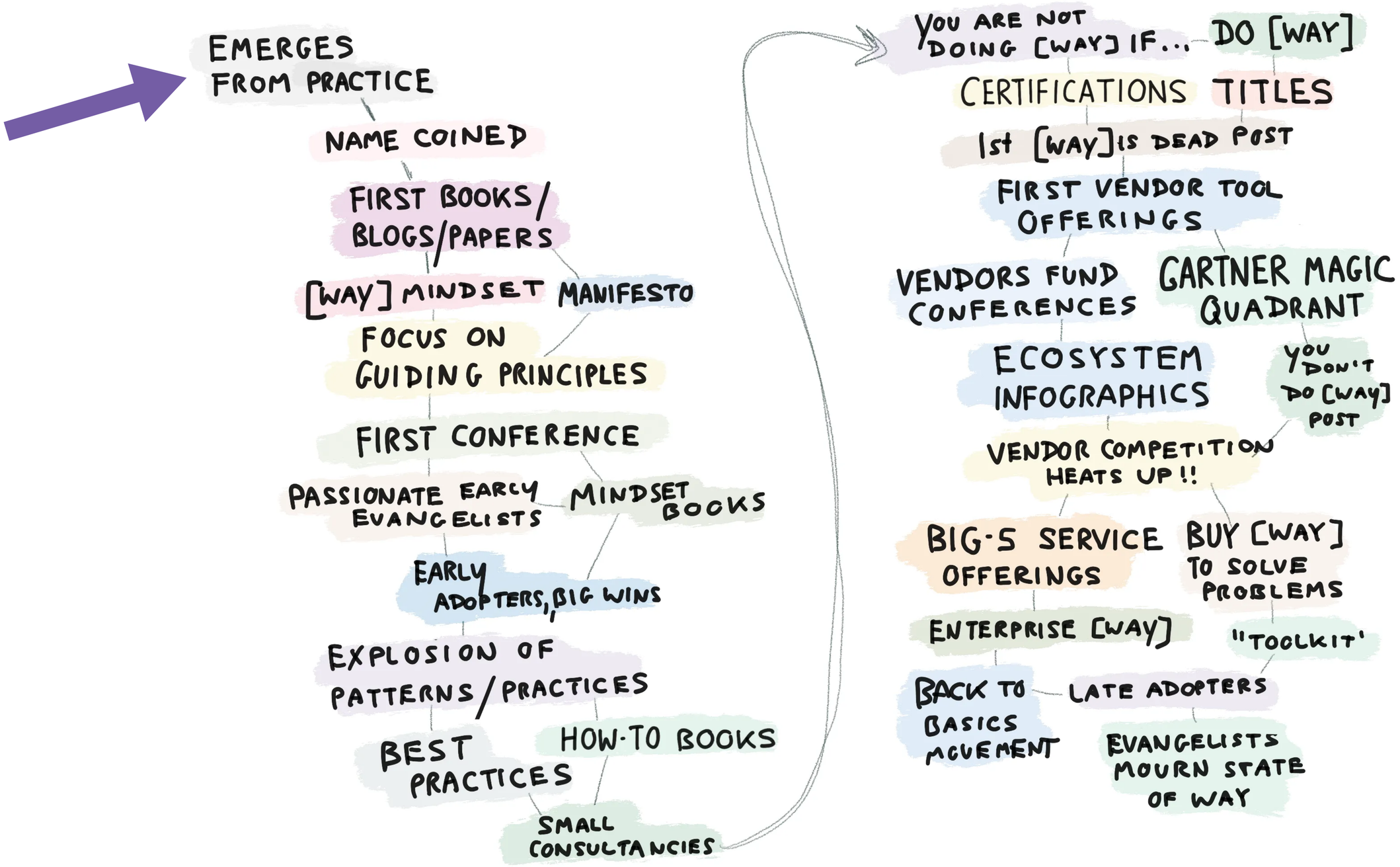
2019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Emerges from Practice

- Agile Movement and Agile Infrastructure
- Software Engineering and Operations (FAANG, O'Reilly)
- Infrastructure as code (Puppet, Chef)
- Cloud Computing (AWS, Google Cloud)
- Lean Movement, Theory of Constraints, Kanban

https://itrevolution.com/articles/the-convergence-of-devops/

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First Conferences

- DevOpsDays 2009 Ghent 40+
- DevOpsDays 2010 Mountain View 300+
- DevOpsDays 2010 Hamburg

https://devopsdays.org/events

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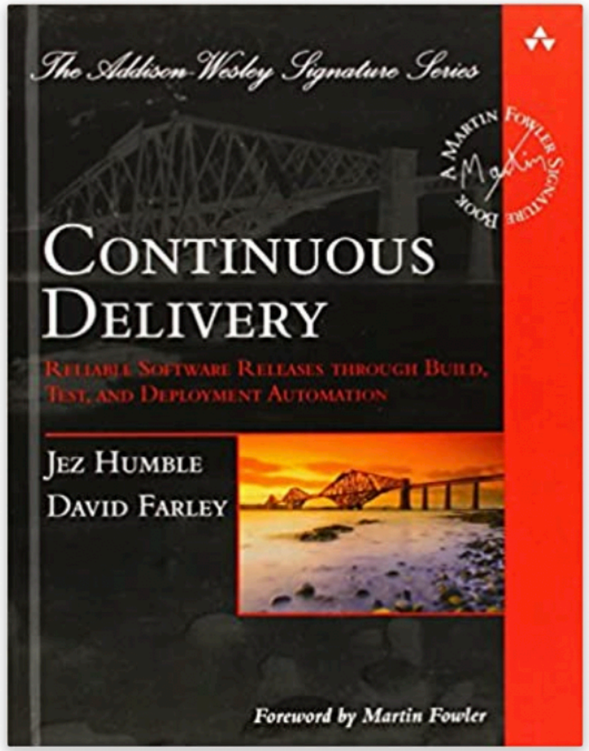

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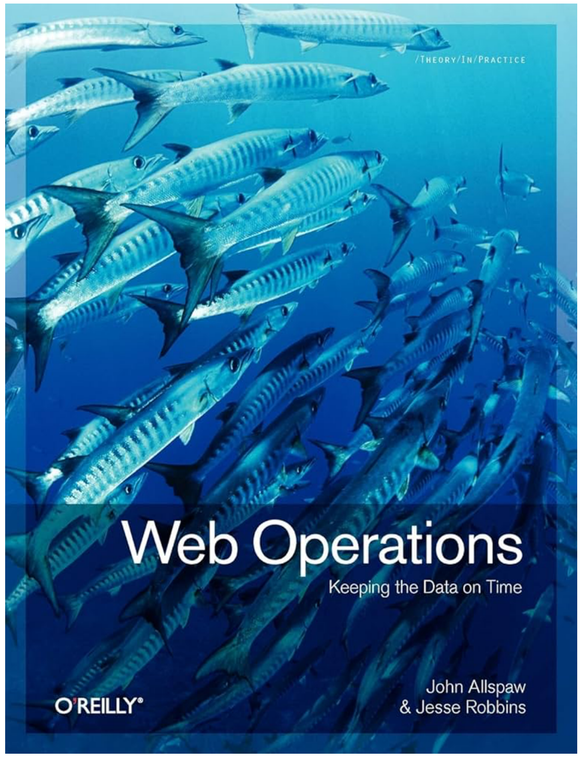

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DevOps Manifesto

DevOps is not...

- A certification
- A role
- A set of tools
- A prescriptive process

DevOps is...

- A philosophy that starts with passion
- A **cultural, professional movement** with attitude and values
- A reaction to poor communication
- About creating visibility between dev and ops
- About the symbiotic relationship between dev and ops
- Cross-functional teams over organizational silos
- Products not projects
- Automation over documentation (and more automation... and more...)
- About creating self-service infrastructure for teams
- Knowing that good software doesn't end with development / release
- Software that doesn't require support
- Ensuring a continual feedback loop between development and operations
- Cross-functional teams over organizational silos
- Creating products that are owned by the delivery team
- Knowing that a project is only finished when it is retired from production
- Something you can do without doing agile

https://sites.google.com/a/jezhumble.net/devops-manifesto/

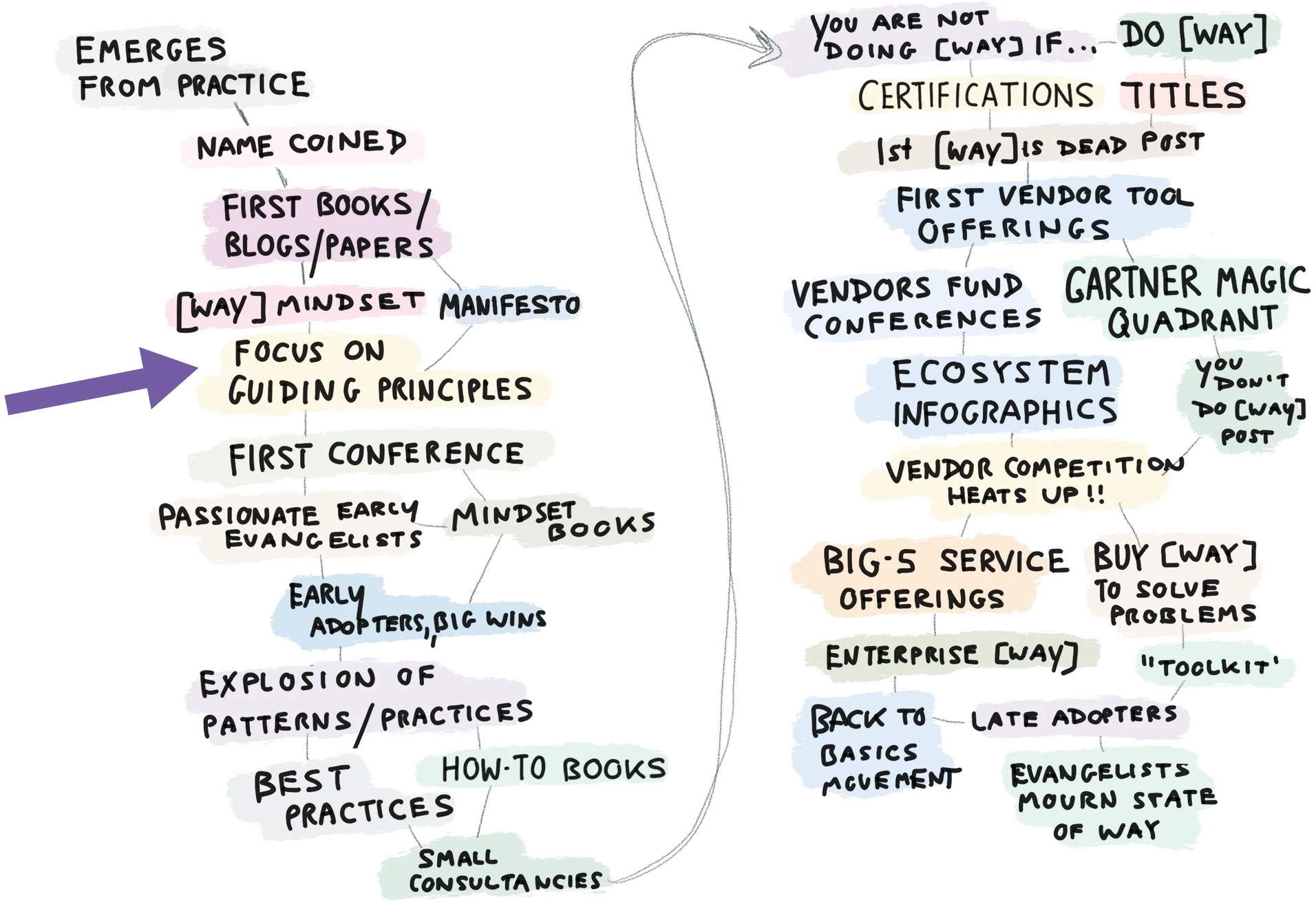
There is no official DevOps Manifesto

I've always shied away from writing this for two main reasons:

- **not setting things in stone** encourages people to keep an open mind. So they can come with their own version of the solution AND the problem. This allows our field to expand and have people re-think and re-evaluate other people's solutions.

- it often brings a sense of checklist. Do A,B,C and you have reached the final goal. **Devops does not have an end-goal**, it is **continuous journey**; whatever you change to improve, will have an impact and might require you re-think your strategy

https://www.jedi.be/blog/2015/01/05/devops-modelling-theory-practice-and-caveats/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DevOps mindset and principles

- Culture
- Automation
- Lean
- Measurement
- Sharing

https://itrevolution.com/articles/devops-culture-part-1/

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Mindset Book

IT REVOLUTION

2013

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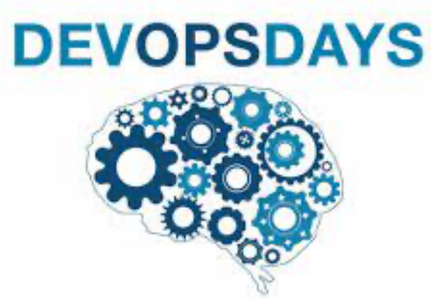
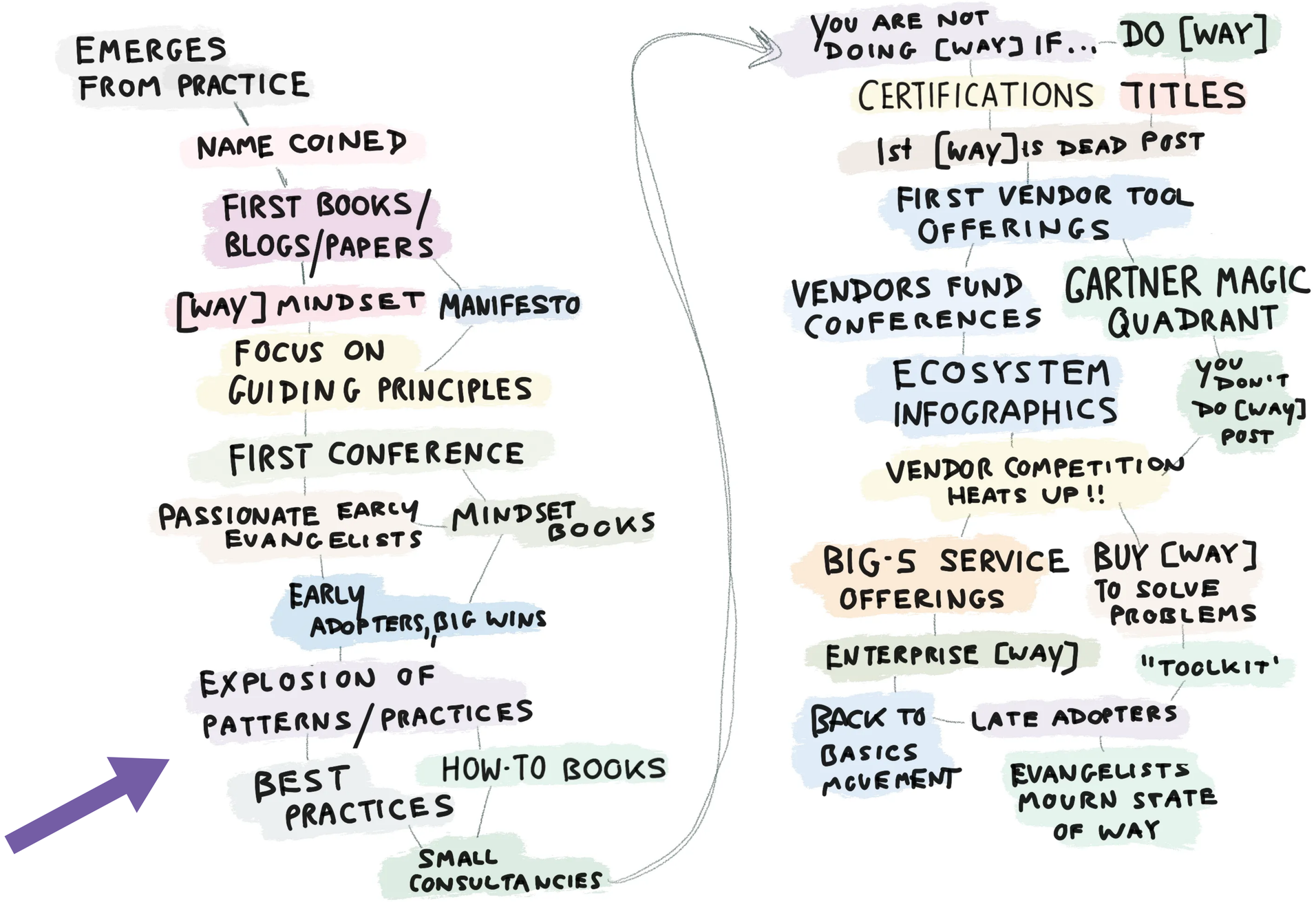
Early Adopters and Big Wins



ChefConf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Area 3: Embed Project knowledge into Operations

Area 1: Extend delivery to production

DEV

OPS

Area 2: Extend operations feedback to project

Area 4: Embed Operations knowledge into Project

"Layers per Area"

Area X

Think 'tags' of things you do in an area

Tools	Can you 'technically' do it
Process	Should you do it
People (culture)	Will you do it

Name	Area		
Provision dev/test and prod from the same src	DEV	delivery to Prod	Embed Project knowledge
	Embed Operations knowledge	feedback from Prod	OPS

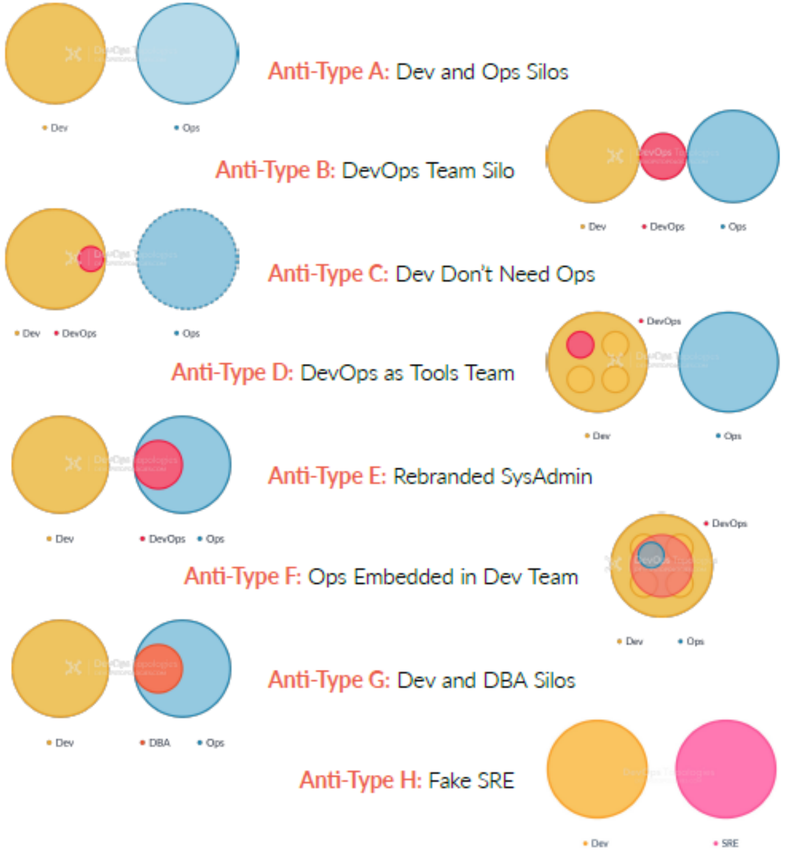
Layer Tools **Level** Intro

Practice:	Use a configuration mangement system like chef/puppet to provision dev,test and prod from the same source
Pattern:	Automation, reuse of code
Principles:	By reusing the code it gets tested more often and special snowflake machines are avoided

https://www.jedi.be/blog/2012/05/12/codifying-devops-area-practices/

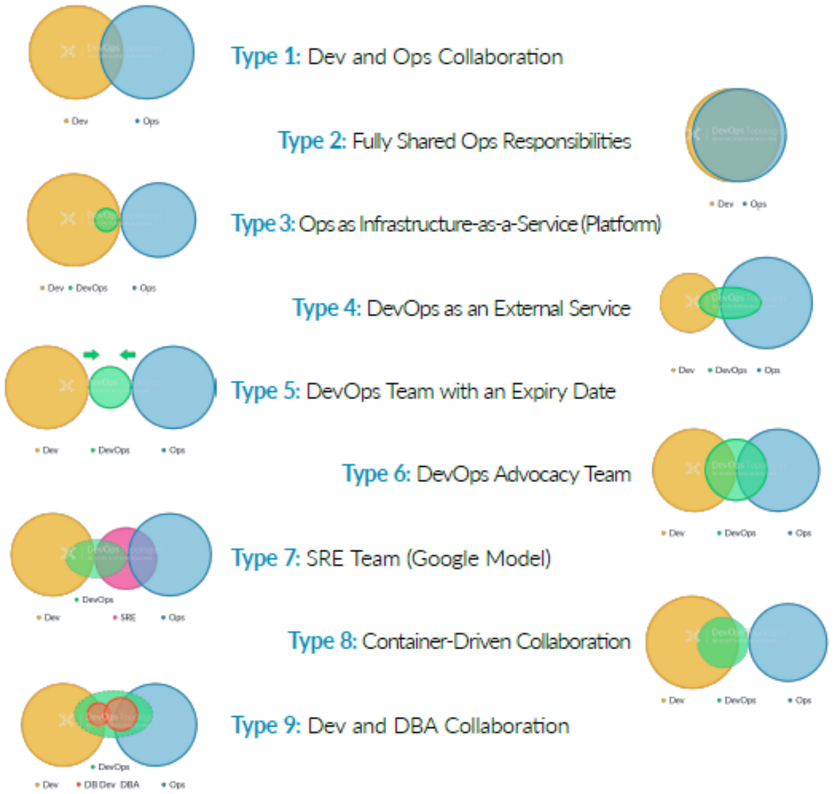
DevOps Topologies

DevOps Anti-Types

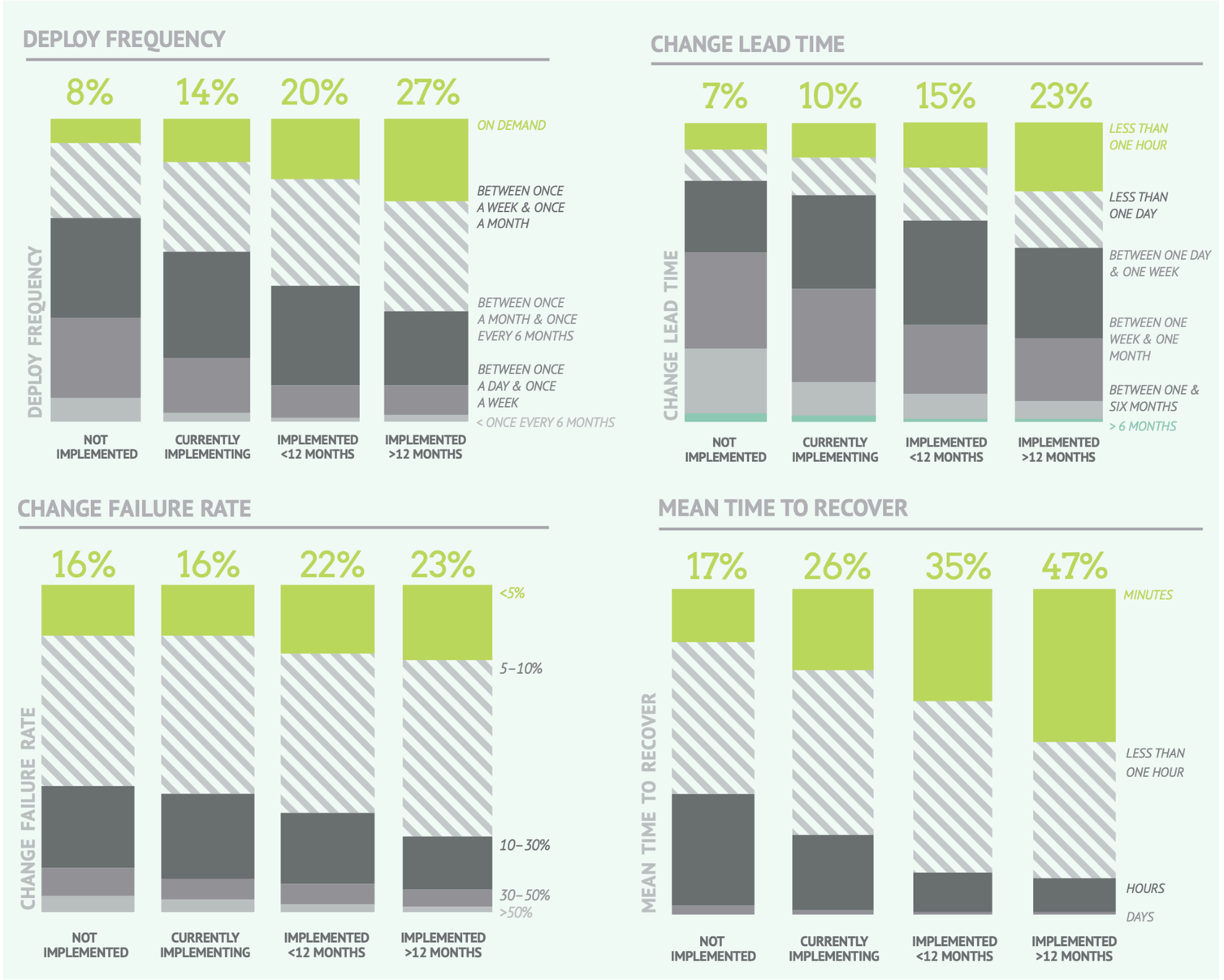


DevOps Topologies

DevOps Team Types



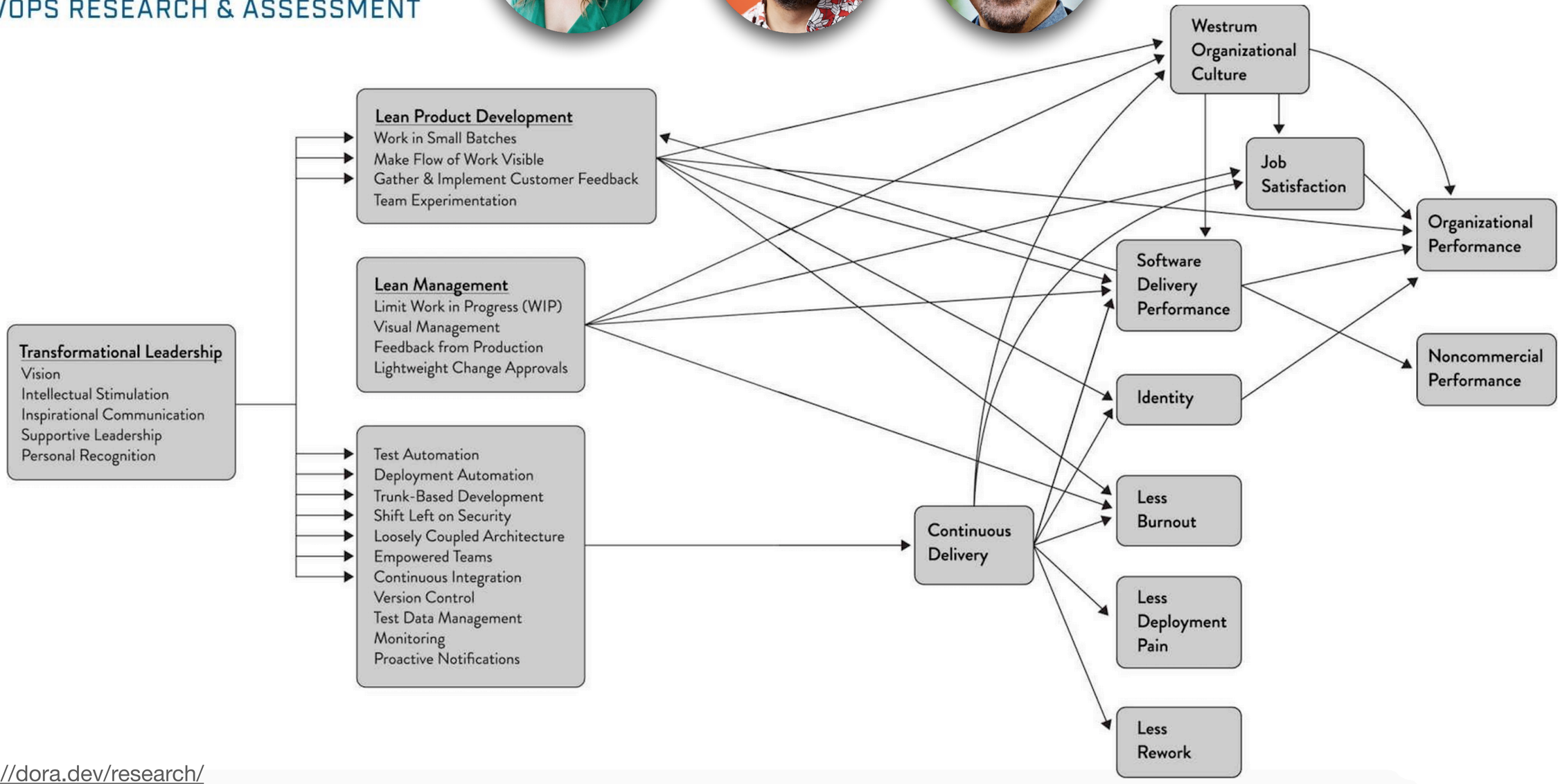
https://devopstopologies.com/



https://abinoda.com/dora_reports/2013-State-of-Devops-Report.pdf

DORA

DEVOPS RESEARCH & ASSESSMENT



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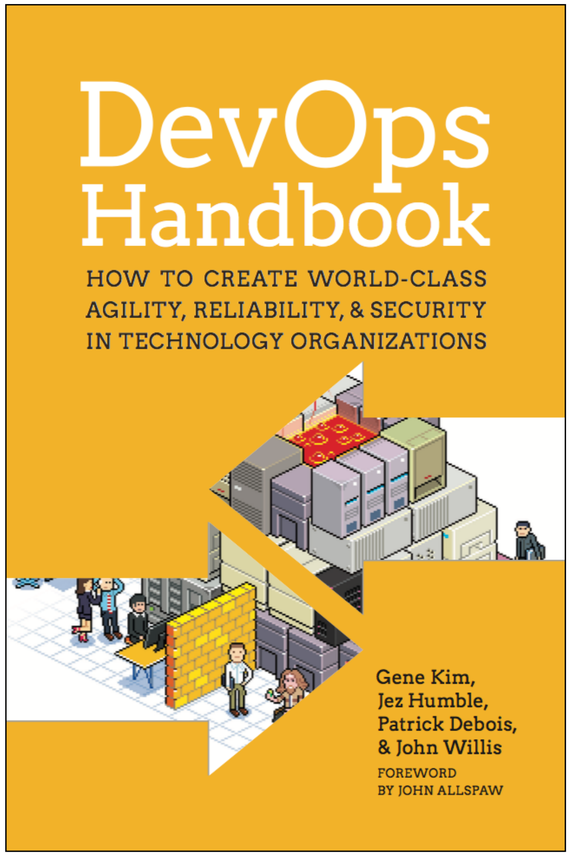
How-to Books



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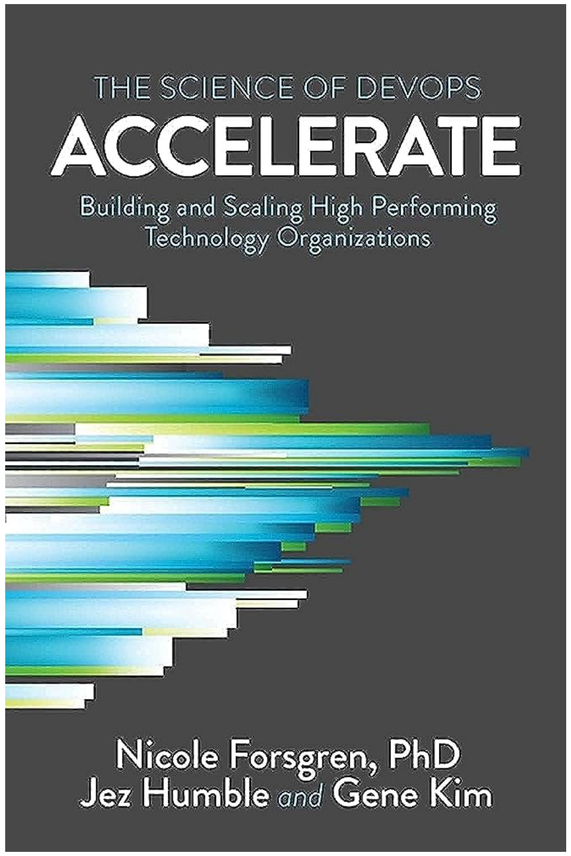

2018

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DevOps Certifications

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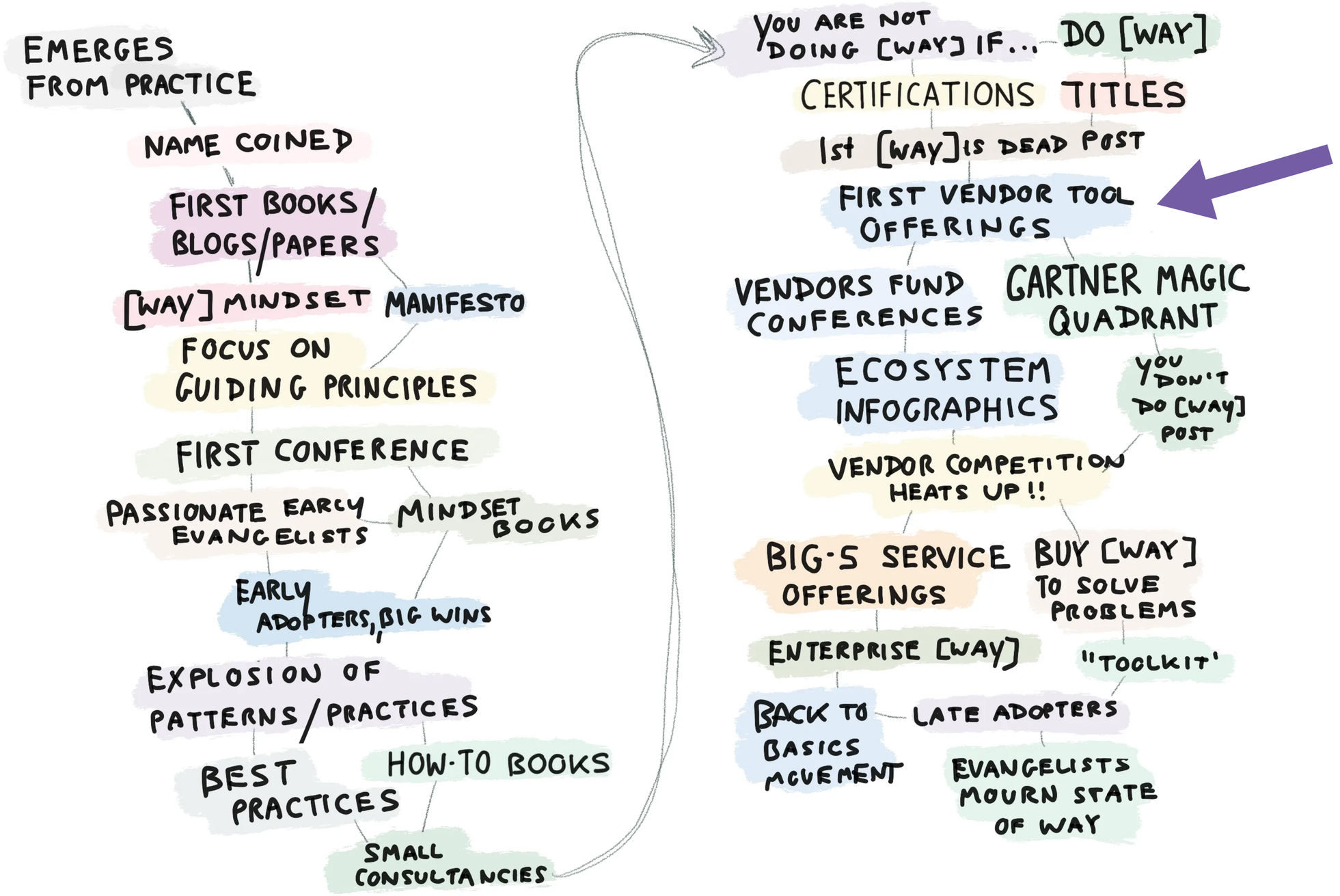
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MINDSET BOOKS
EARLY ADOPTERS, BIG WINS
EXPLOSION OF PATTERNS/PRACTICES
BEST PRACTICES
HOW-TO BOOKS
SMALL CONSULTANCIES
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DO [WAY]
CERTIFICATIONS
TITLES
1st [WAY] IS DEAD POST
FIRST VENDOR TOOL OFFERINGS
VENDORS FUND CONFERENCES
GARTNER MAGIC QUADRANT
ECOSYSTEM INFOGRAPHICS
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VENDOR COMPETITION HEATS UP!!
BIG-5 SERVICE OFFERINGS
BUY [WAY] TO SOLVE PROBLEMS
ENTERPRISE [WAY]
"TOOLKIT"
BACK TO BASICS MOVEMENT
LATE ADOPTERS
EVANGELISTS MOURN STATE OF WAY

DevOps as a Platform

- Azure DevOps is an end-to-end software development platform
- GitLab is The DevOps platform …
- XebiaLabs DevOps Platform
- Atlassian Open DevOps
- JFrog as a DevOps Platform
- AWS, GCP, VMware, Red Hat, CloudBees, GitHub, JetBrains, …

EMERGES FROM PRACTICE
NAME COINED
FIRST BOOKS/ BLOGS/PAPERS
[WAY] MINDSET
MANIFESTO
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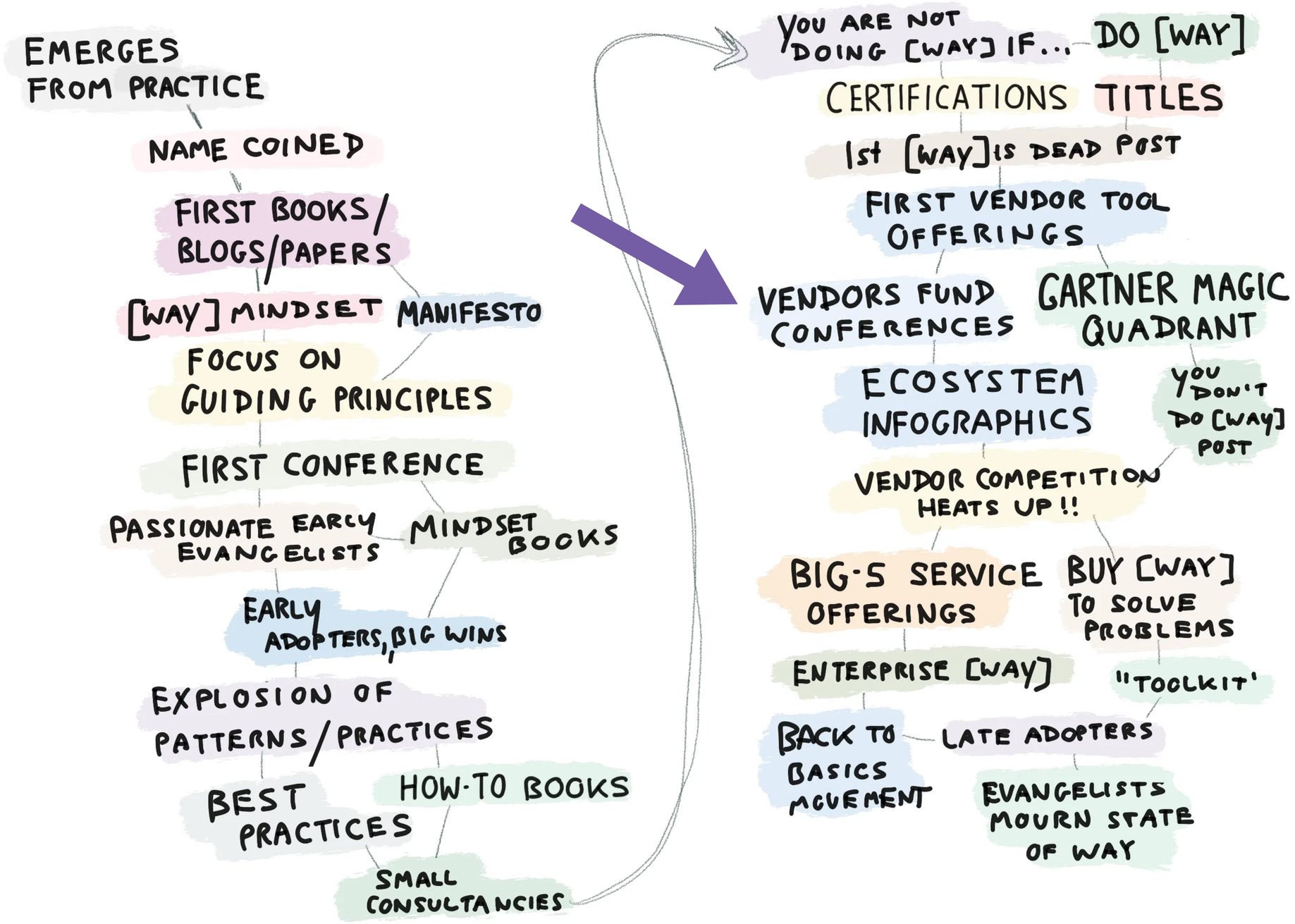
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2019

Is DevOps dead?

Patrick Debois

2022

2022-09-09 | A devops walks into the Metaverse and Learns

2022-05-09 | 13 years of devops and 130 presentations later - how my devops mental model changed

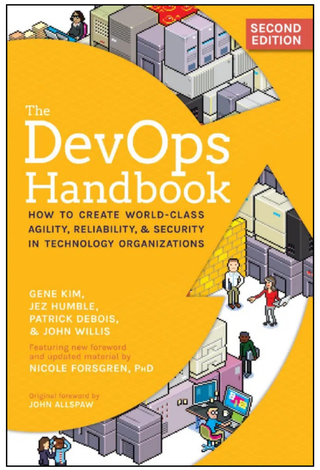
2022-03-21 | DevSecOps - Developer motivation vs Business Prioritisation

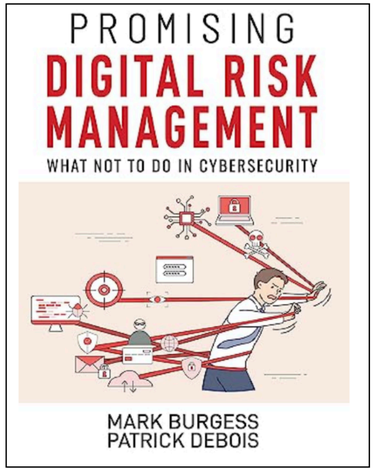
2022-02-23 | In depth research and trends analyzed from 50+ different concepts as code

2022-02-18 | Devops and Digital Twins similarities, a first pass

2022-02-11 | Shades of DevOps - Related Job titles

2022-02-11 | This blog is back on - migration in a nutshell





2016

2016-02-29 | How is Native App operations different from Web operations?

2016-02-28 | Mobile Delivery with a Devops mindset

2015

2015-01-05 | Devops Modelling (Theory, Practice and Caveats)

Patrick Debois • 1st

Dev(Sec)Ops Advisor Public Speaker, exploring the impact of ai native ...

2yr •

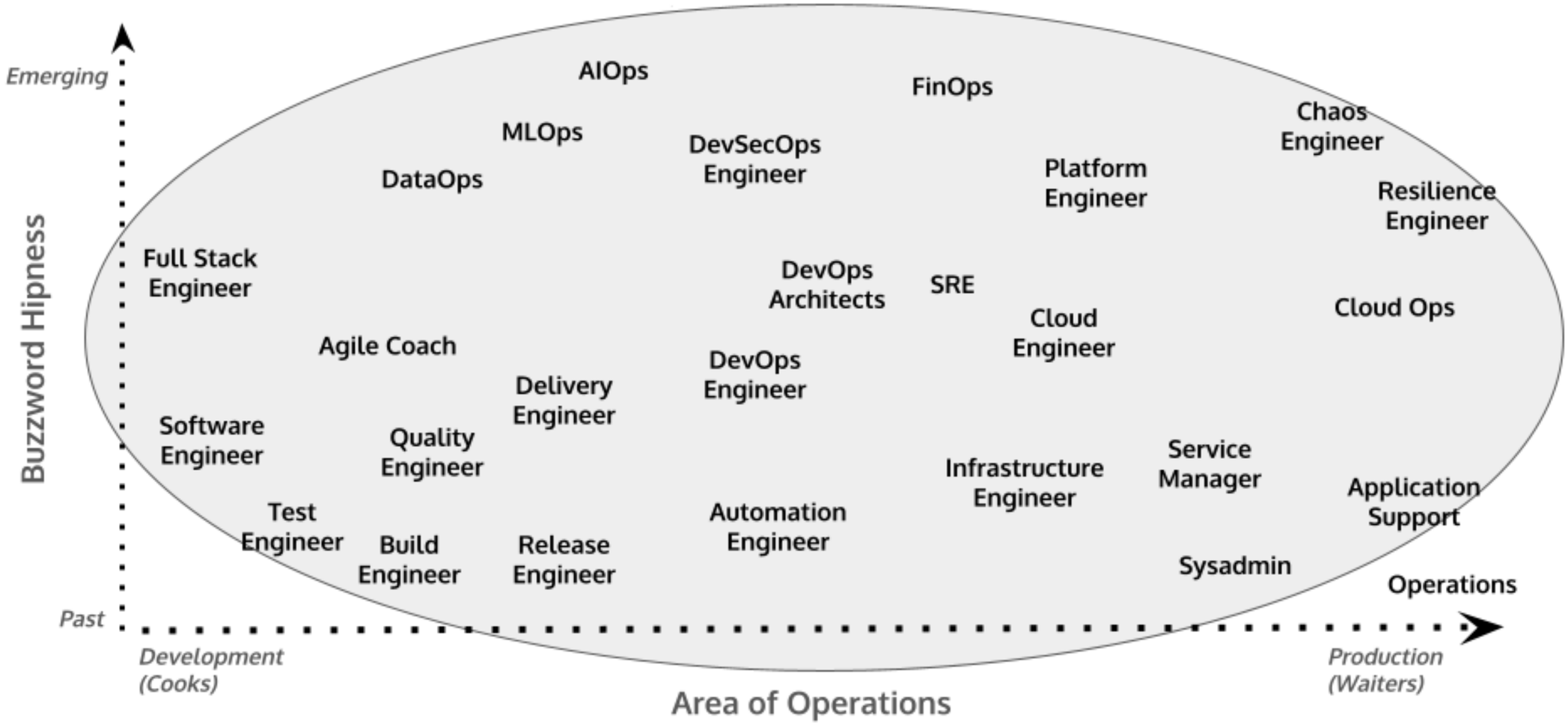
My current definition of Dev*Ops: everything you do to overcome the friction created by silos ... All the rest is plain engineering.

320

23 comments • 35 reposts

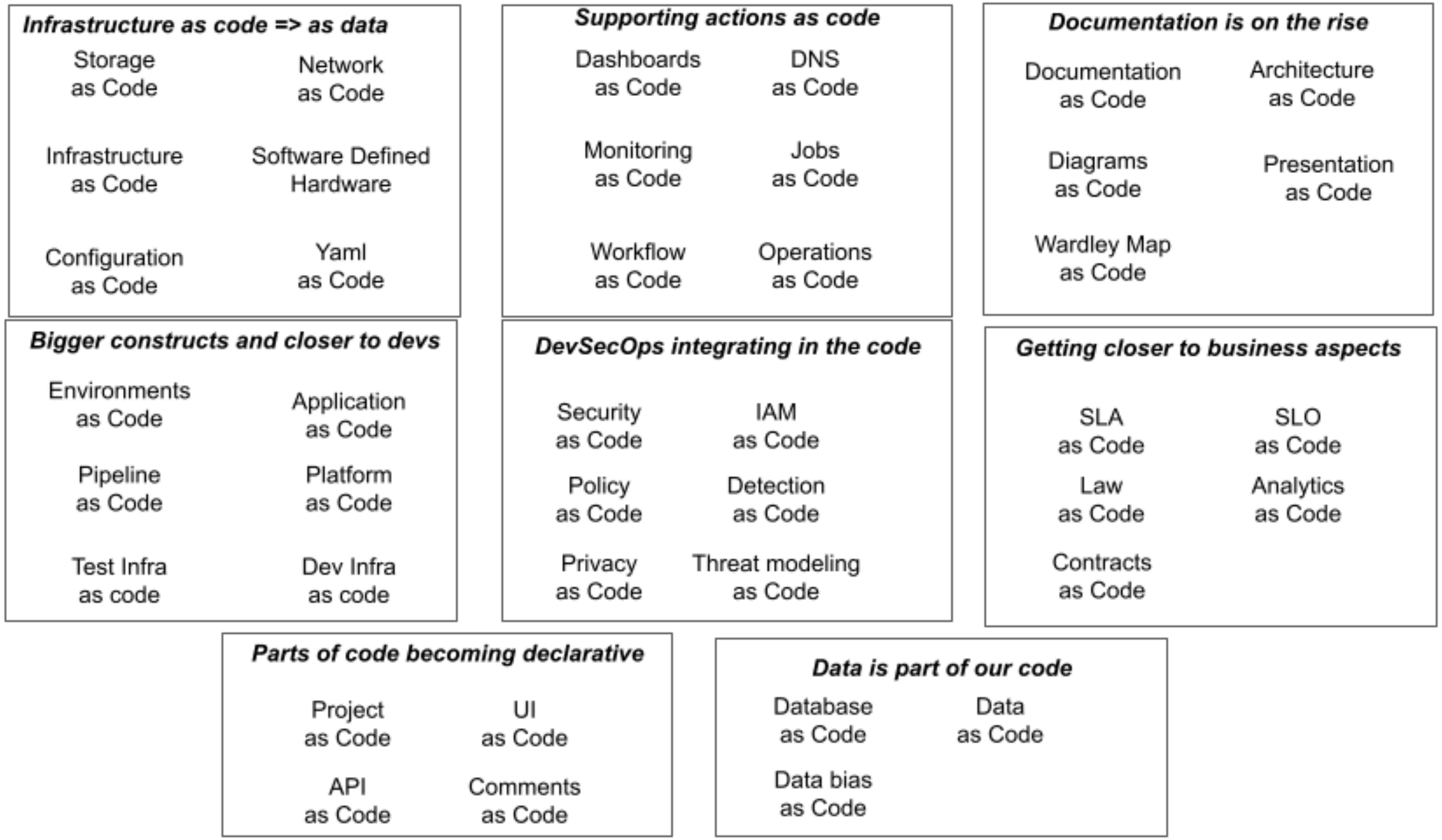
https://www.jedi.be/blog

Shades of DevOps



https://www.jedi.be/blog/2022/02/11/shades-of-devops-roles/

Trends from analyzing over 50+ concepts as code



https://www.jedi.be/blog/2022/02/23/trends-and-inventory-of-50-as-code-concepts/

DevOpsDays

2009-2023:

- 450+ events
- 60 events in 2023
- Core (Active, Advisory, Emeritus)

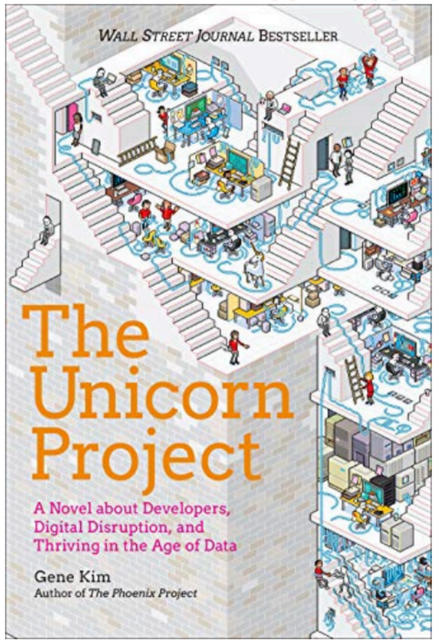
https://devopsdays.org/blog/2022/10/10/is-devopsdays-still-relevant

Gene Kim

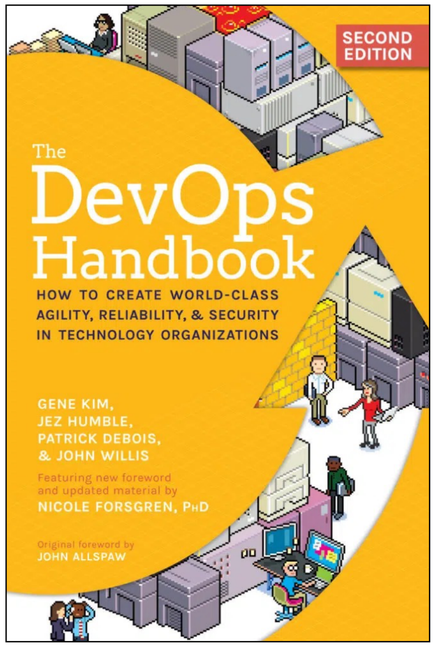
IT REVOLUTION

DEVOPS ENTERPRISE SUMMIT

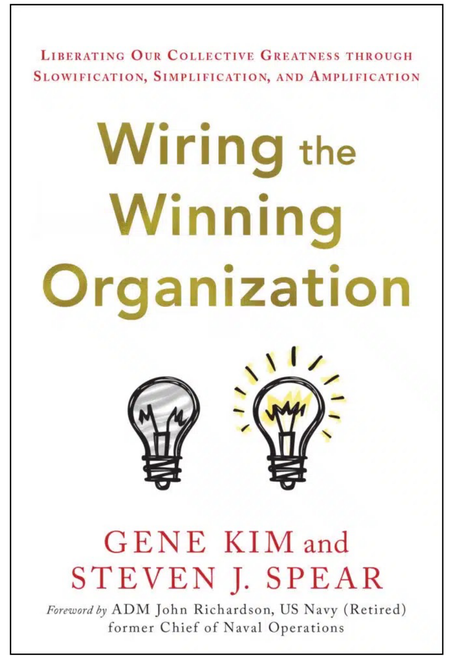
GeneCon



2019

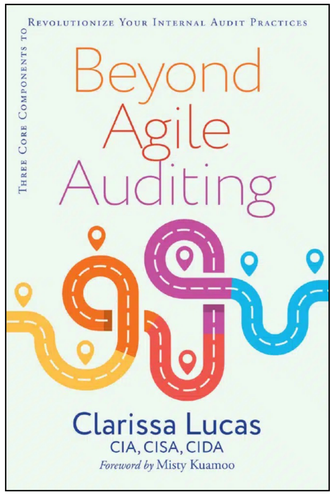


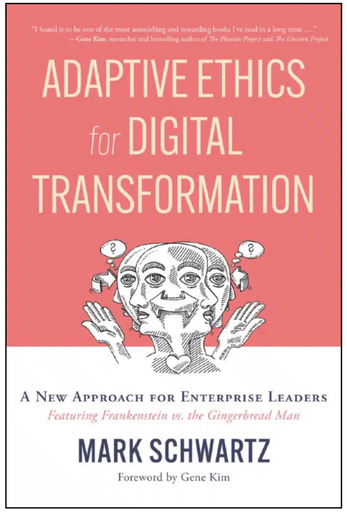
2021

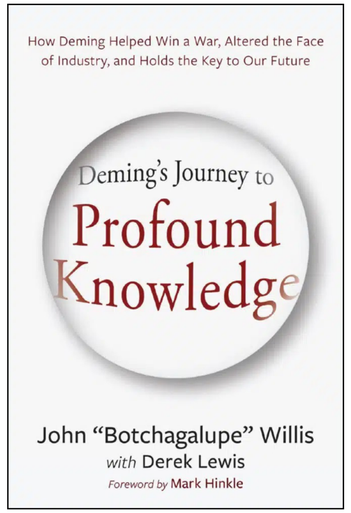


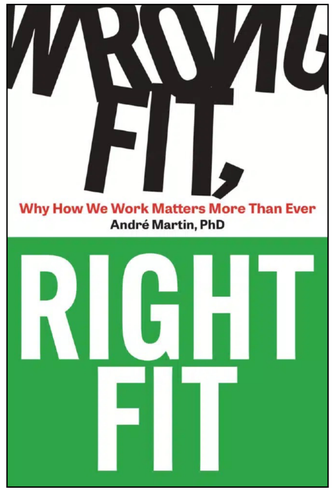
2023

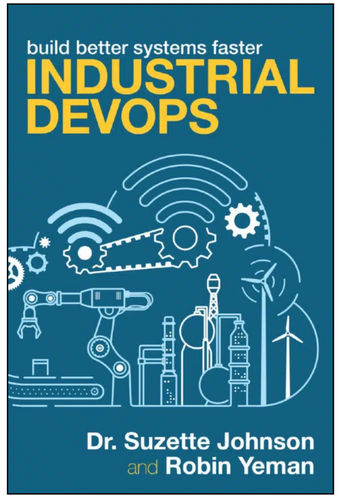
IT Revolution Books

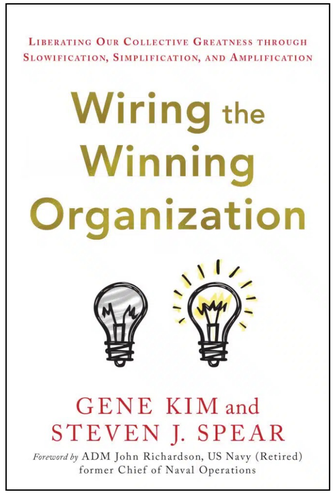










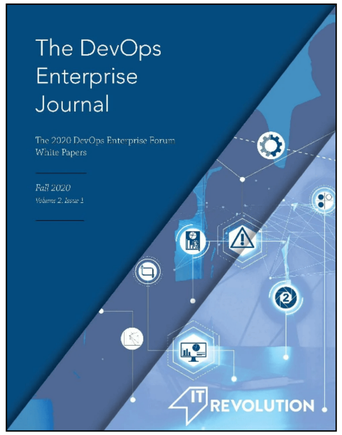


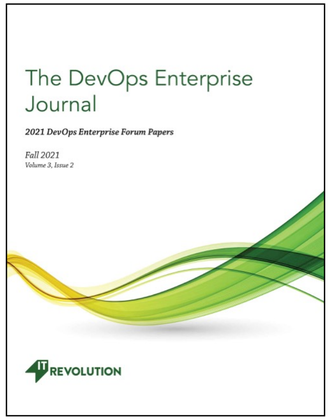
https://itrevolution.com/books/

DevOps Enterprise Summits

2014-2023:

- 17 Summits
- 1000+ talks
- 1500+ speakers
- 500+ companies





https://itrevolution.com/articles/speaker-title-analysis/

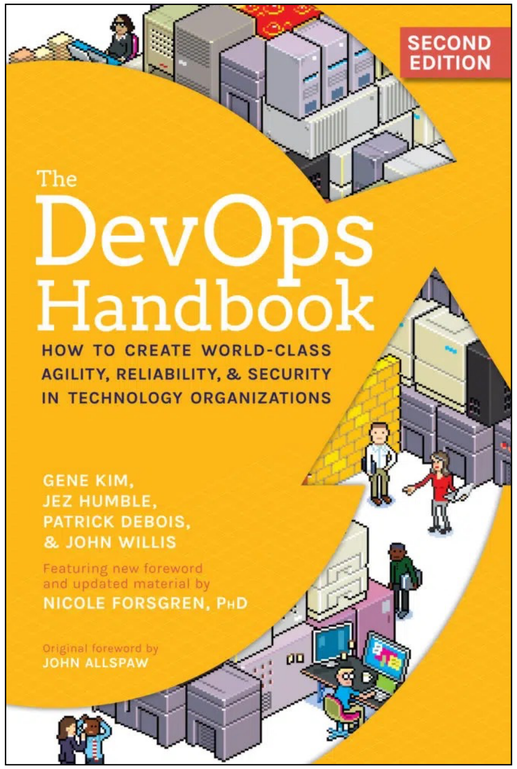
Jez Humble

Site Reliability Engineering

Google

Dec 2018 - Present · 4 yrs 8 mos

San Francisco, California

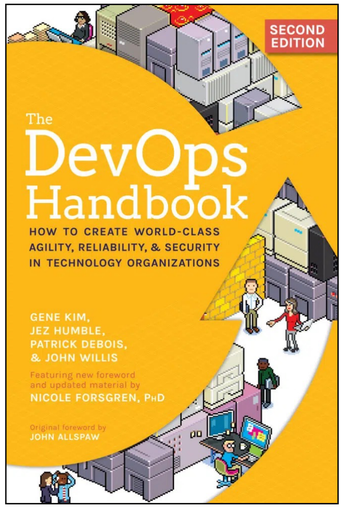


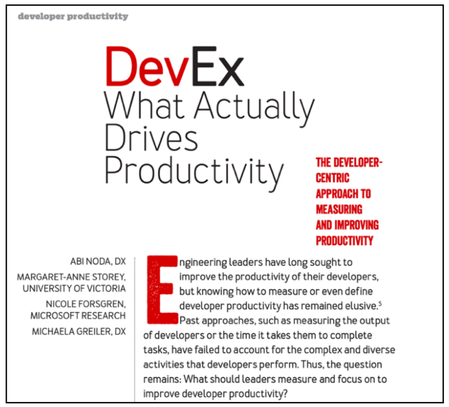
Nicole Forsgren

Google

GitHub

Microsoft Research



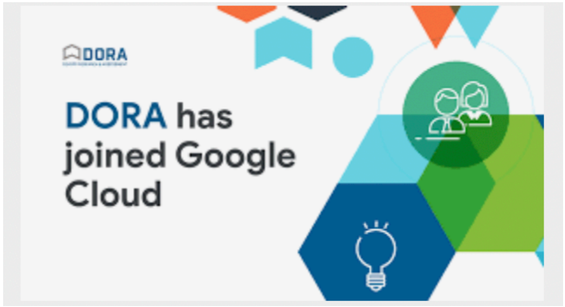


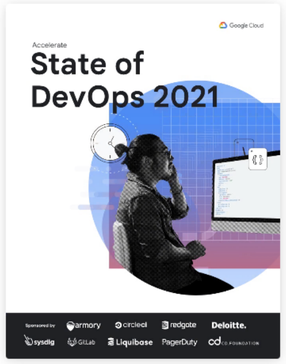
Developer Experience Lab

DX

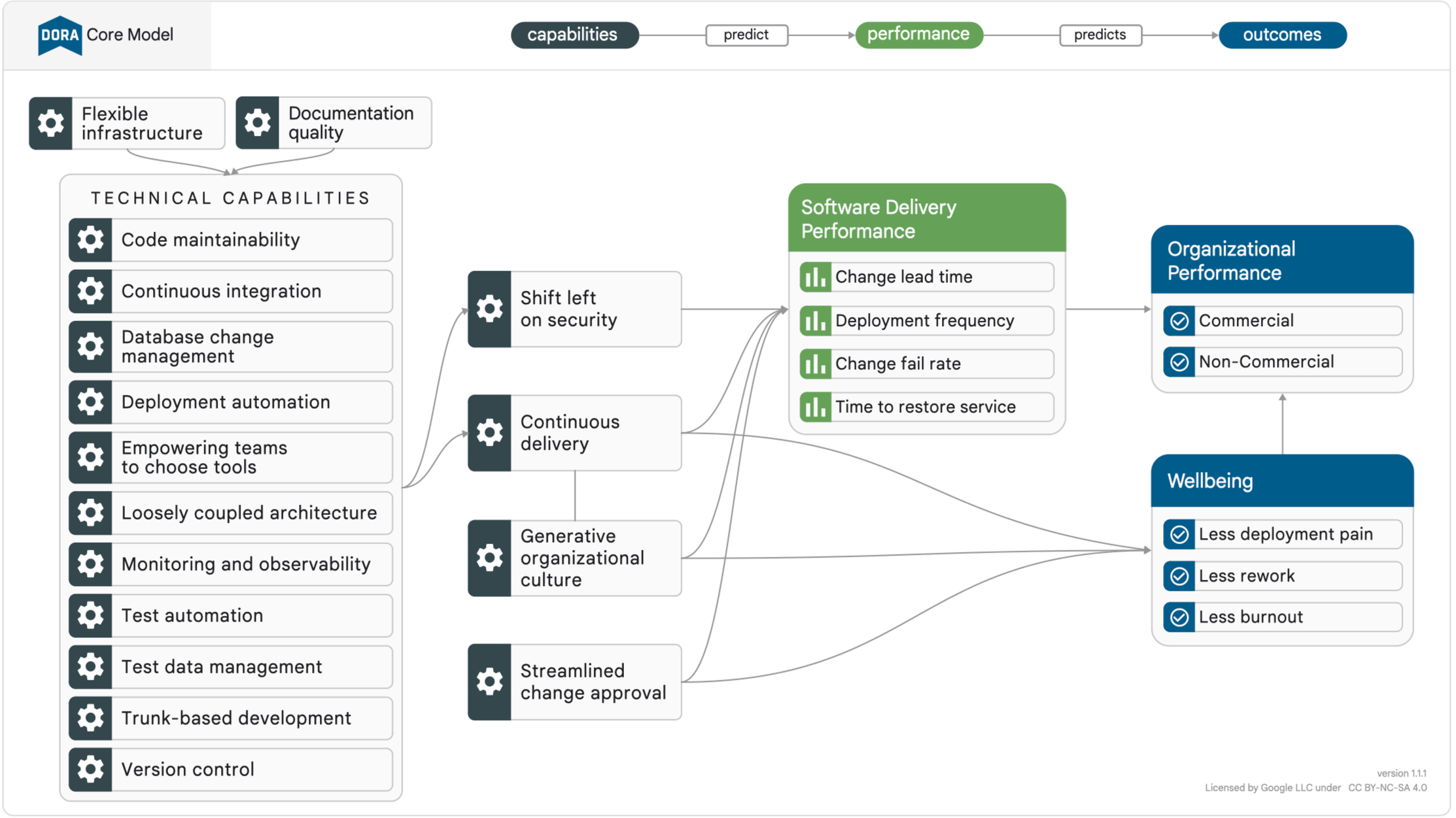
https://www.researchgate.net/profile/Nicole-Forsgren/research

DORA



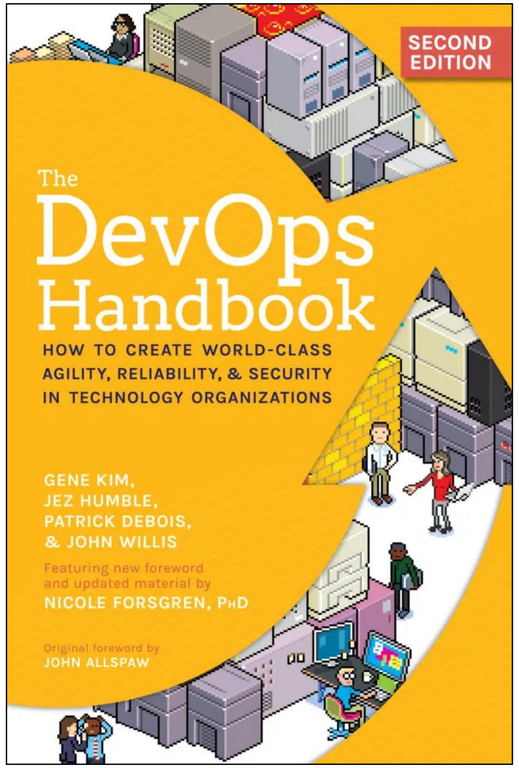


https://dora.community/



https://dora.dev/research/

John Willis



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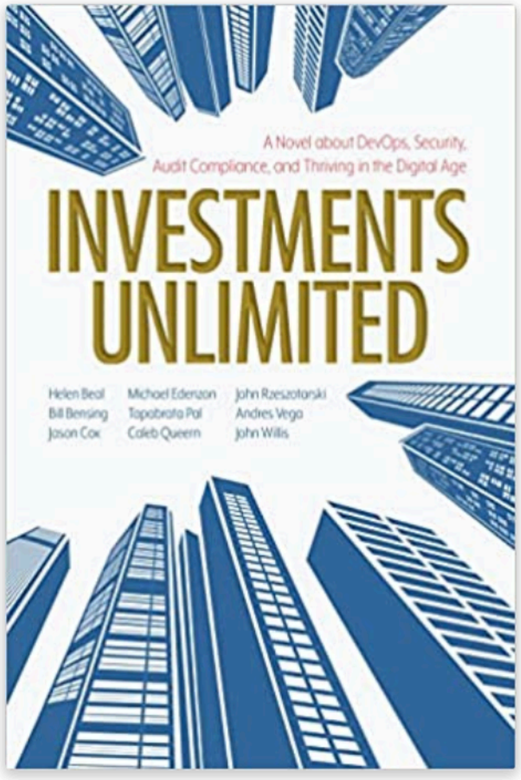

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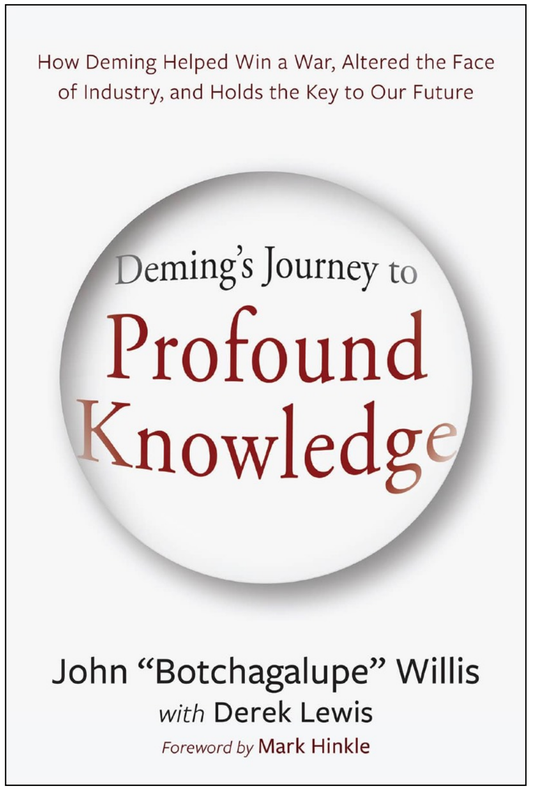
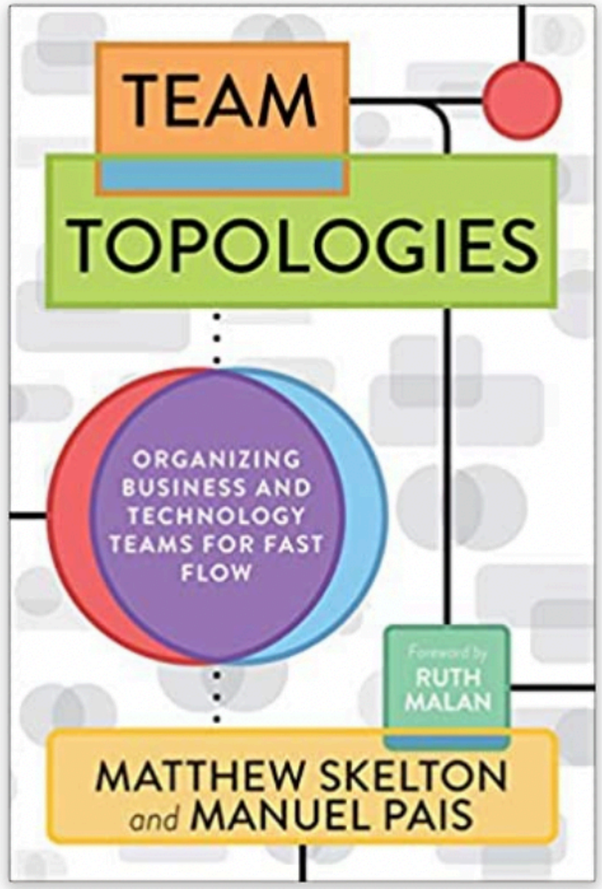


2023

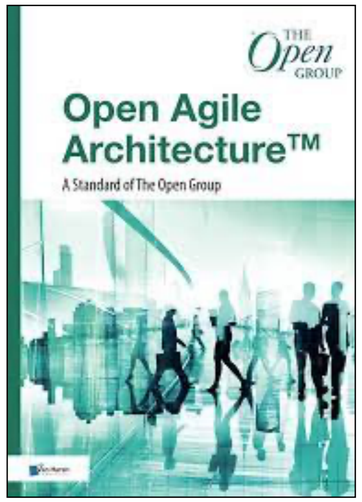
Matthew Skelton, Manuel Pais

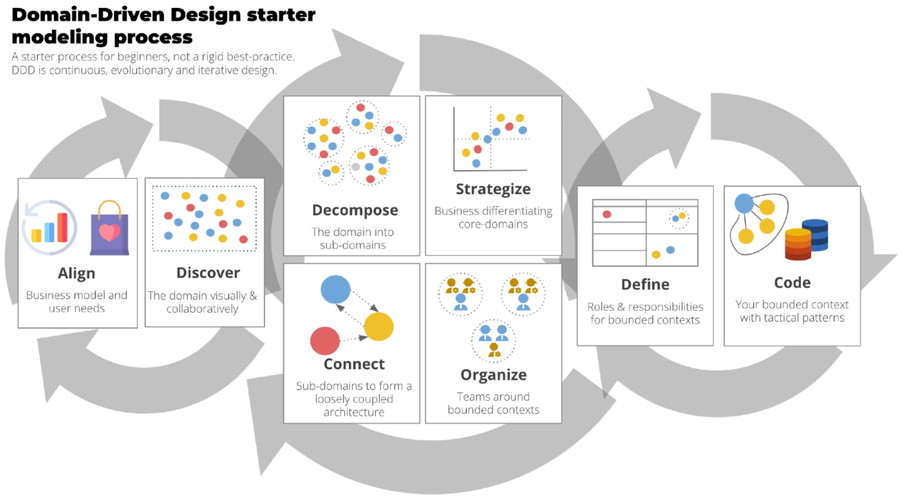


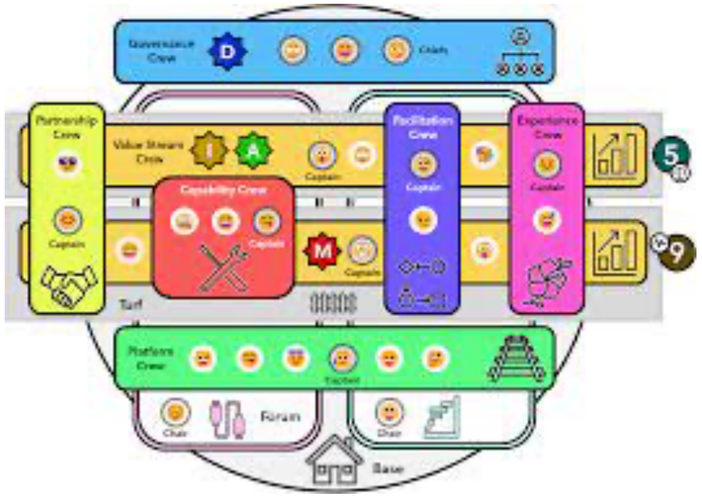
2019

https://confluxhq.com/

Team Topologies

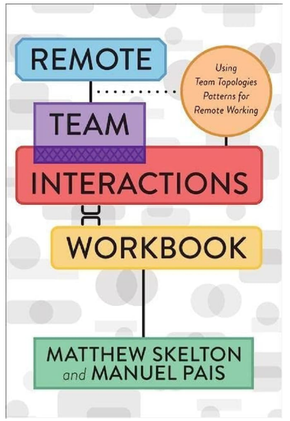


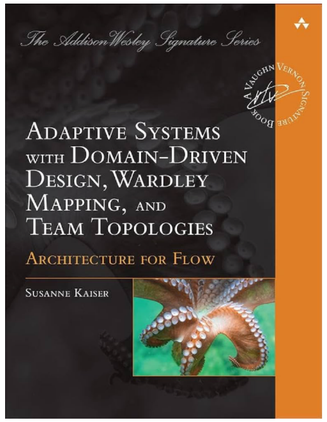




Team Topologies

ACADEMY



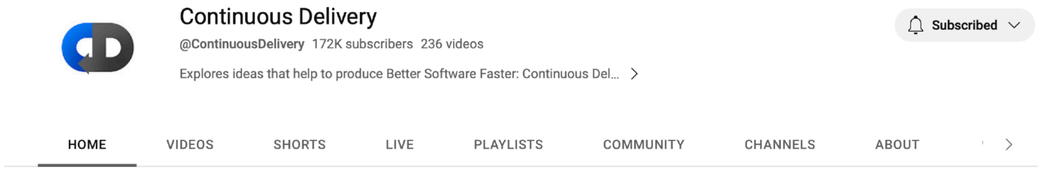


https://teamtopologies.com/

Dave Farley

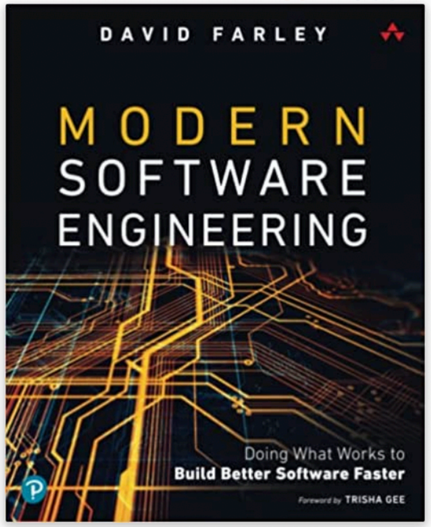
Founder and Director
Continuous Delivery Ltd
Feb 2015 - Present · 8 yrs 8 mos
http://www.continuous-delivery.co.uk

LEARNING
CONSULTANCY
CD MEDIA



MinimumCD.org

Minimum Viable CD



2021

https://www.continuous-delivery.co.uk/

Ansible, Chef, Puppet

redhat. | ANSIBLE

Progress® + CHEF™

Movement -> Communities

DevOps Enterprise Community

DevOpsDays Community

DORA Community

Team Topologies Community

Continuous Delivery Community

Linux Foundation

CD.FOUNDATION

CLOUD NATIVE COMPUTING FOUNDATION

FinOps Foundation

RISC-V®

O3DF OPEN 3D FOUNDATION

LF EDGE

FINOS

AUTOMOTIVE GRADE LINUX

OpenSSF OPEN SOURCE SECURITY FOUNDATION

LF NETWORKING

Hyperledger FOUNDATION

OpenJS Foundation

https://www.linuxfoundation.org/projects

Cloud Native Computing Foundation (CNCF)

164
CNCF Projects

215K+
CNCF Project Contributors

814
CNCF Members

64K+
Cloud Native Community Members

22 GRADUATED PROJECTS

34 INCUBATING PROJECTS

104 SANDBOX PROJECTS

CKA
Certified Kubernetes Administrator

CKAD
Certified Kubernetes Application Developer

CKS
Certified Kubernetes Security Specialist

KCNA
Kubernetes and Cloud Native Associate

PCA
Prometheus Certified Associate

KCSA
Kubernetes and Cloud Security Associate

KubeCon | CloudNativeCon

ArgoCon

GitOpsCon

Backstage CON

envoycon

https://www.cncf.io/about/who-we-are/

CNCF TOC and TAGs

The Technical Oversight Committee (TOC) is the technical governing body of the CNCF. The TOC has approved the formation of Technical Advisory Groups (TAGs):

- TAG-Security
- TAG-Storage
- TAG-App-Delivery
- TAG-Network
- TAG-Runtime
- TAG Contributor Strategy
- TAG Observability
- TAG Environmental Sustainability

https://github.com/cncf/toc

CD Foundation

CD.FOUNDATION

cd.foundation
Take the 2024 State of DevOps Survey - CD Foundation
We're excited to announce we're partnering with Puppet again to bring you the 2024 State of DevOps Survey for the upcoming State of ...

Continuous Delivery Best Practices

Learn More

Learn about how best practices for continuous delivery can help you to develop, build, and deliver software faster, more reliably, and more securely.

Open Source Projects

cd events

Jenkins

JENKINS X

ORTELIUS

PYRSIA

Screwdriver.cd

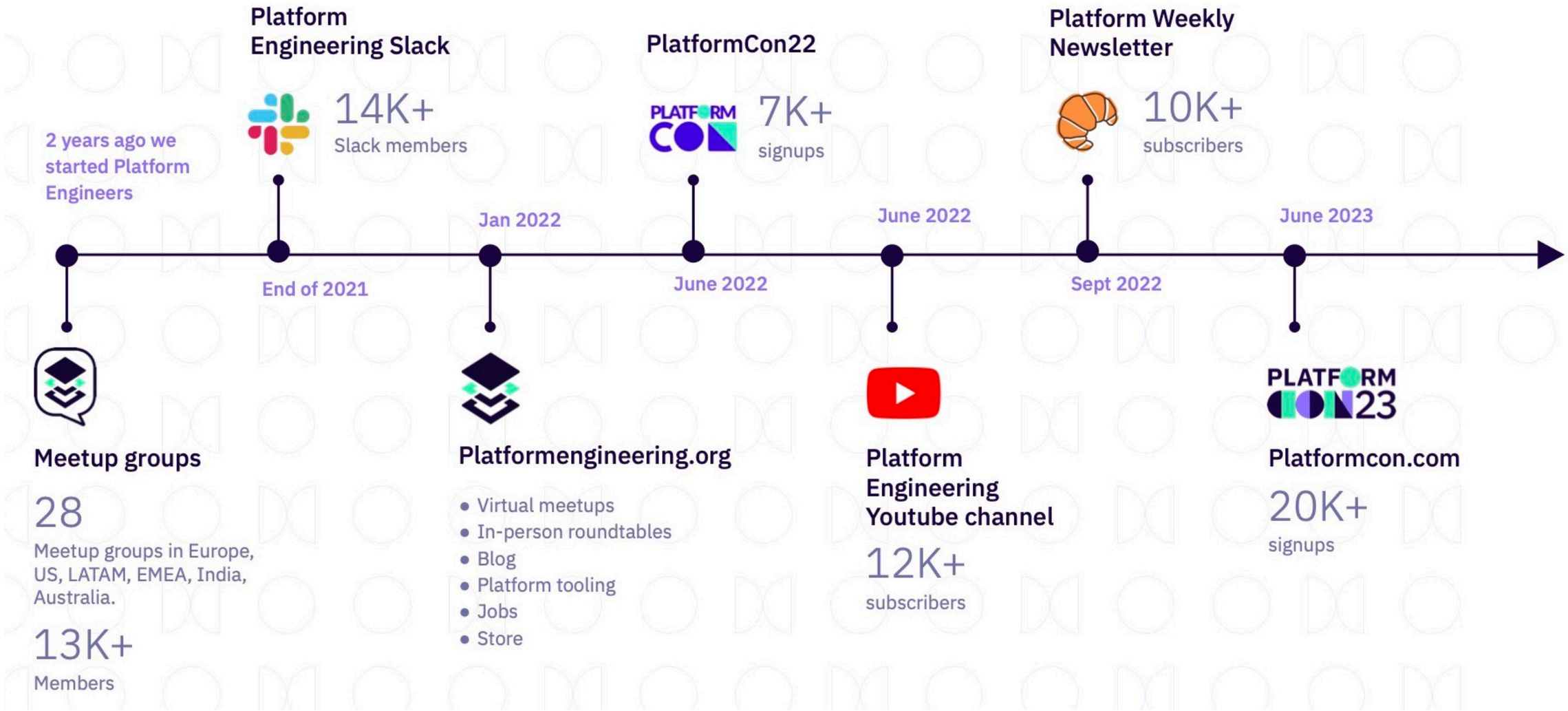
Spinnaker

SHIPWRIGHT

TEKTON

https://cd.foundation/

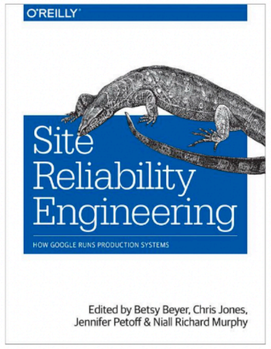
Platform Engineering Community

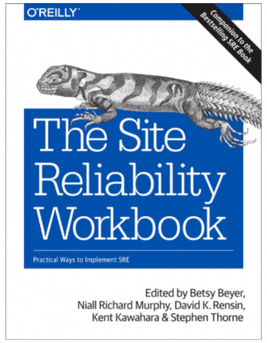


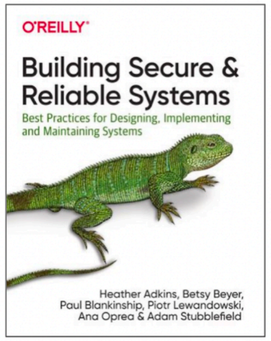
https://platformengineering.org/

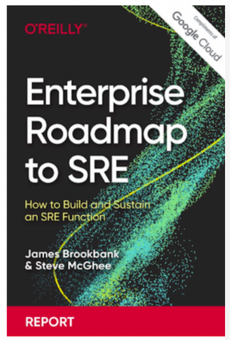
Reliability Engineering

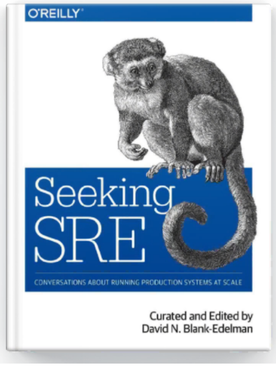
usenix SRECON

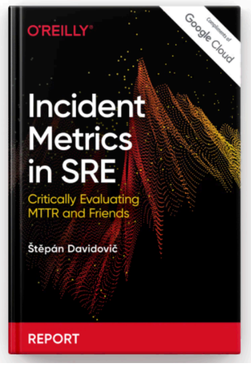


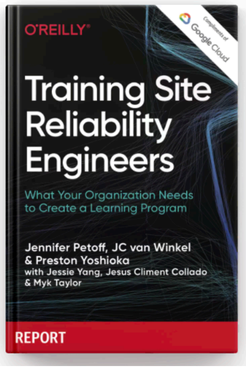


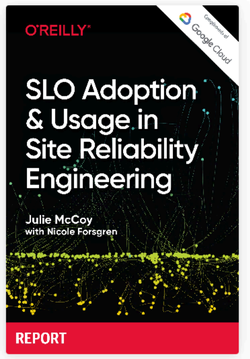




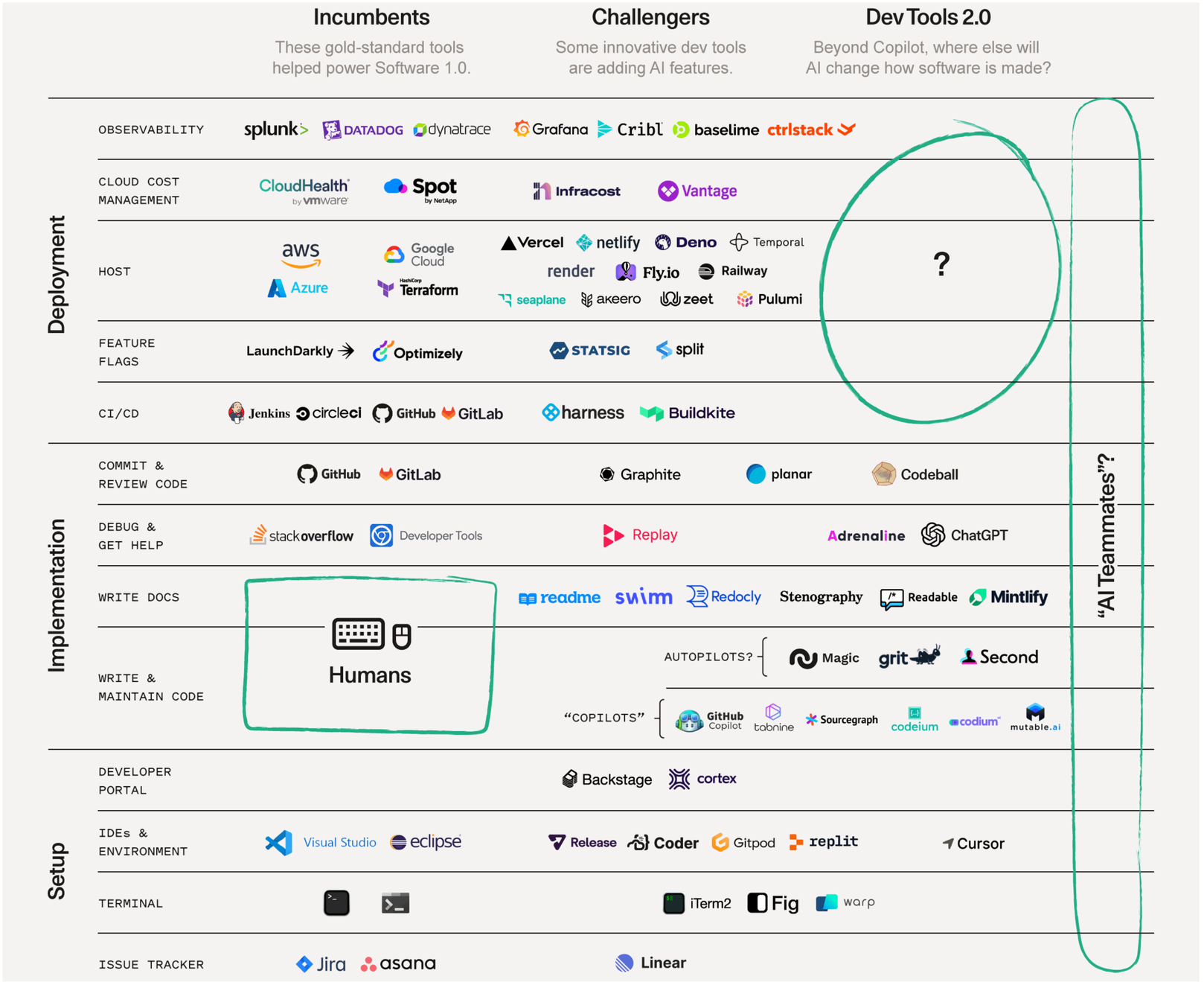








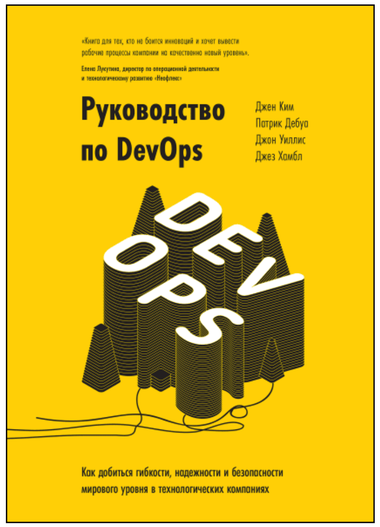
https://sre.google/books/

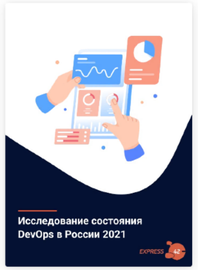


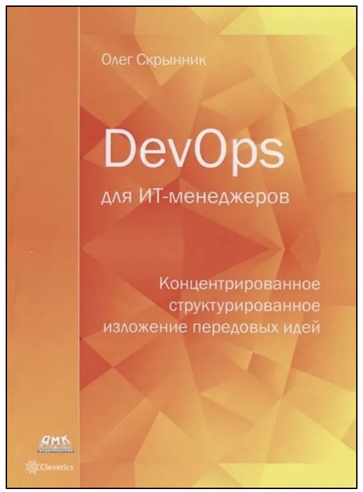
https://www.sequoiacap.com/article/ai-powered-developer-tools/

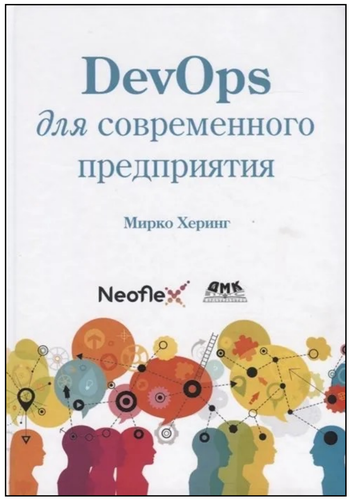
DevOps in Russia

Books and Reports









Local communities

- Telegram channels:
  - DevOps Moscow, …
- DevOps certifications
- DevOps conferences:
  - DevOops, DevOpsConf, Highload
- Internal DevOps communities

Insights

- DevOps as a movement
- The Way of Ways
- Is DevOps dead?
- What next?
- DevOps in Russia

- DevOps Enterprise Community
- DORA Community
- Team Topologies Community
- Continuous Delivery Community
- DX Movement
- Linux Foundations (CNCF, CDF, …)
- Platform Engineering Community
- Reliability Engineering
- AIOps, ClickOps, DevTools 2.0, …

References

1. DevOps для CTO
2. От DevOps к Platform Engineering
3. Состояние DevOps в России 2020
4. Как нарисовать DevOps?
5. 40+ slides with links

Q&A

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DevOops