# DEVOPS FOR DEVELOPERS...

## OR MAYBE AGAINST THEM?

# CONSPIRACY THEORY?!

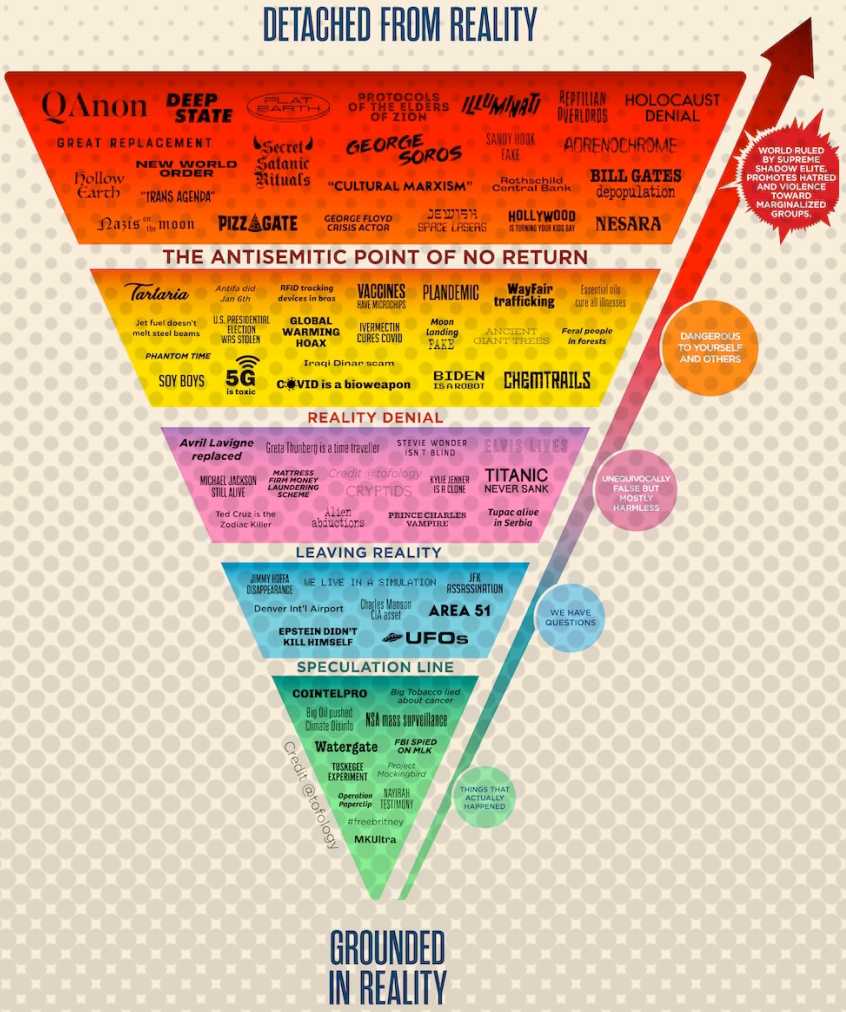
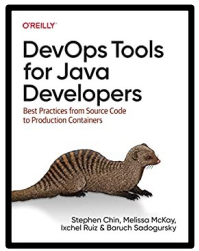
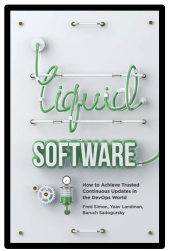


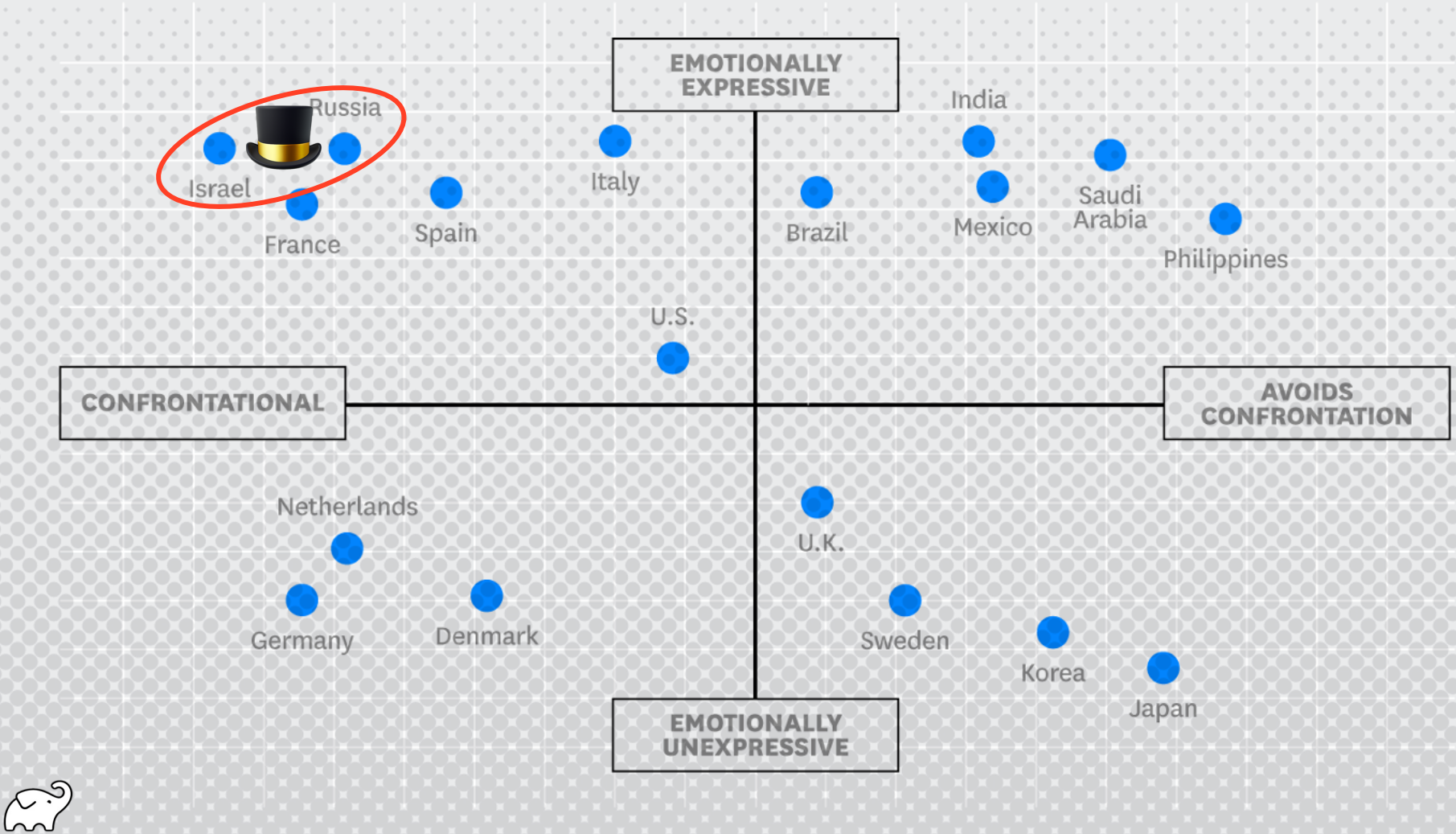

CHART BY ABBIE RICHARDS

# Baruch Sadogursky - @jbaruch

- Developer Productivity Advocate
- Gradle Inc
- Development -> DevOps -> #DPE




EMOTIONALLY EXPRESSIVE
CONFRONTATIONAL
AVOIDS CONFRONTATION
EMOTIONALLY UNEXPRESSIVE
Russia
Israel
France
Spain
Italy
U.S.
Brazil
India
Mexico
Saudi Arabia
Philippines
Netherlands
Germany
Denmark
U.K.
Sweden
Korea
Japan

# SHOWNOTES

- speaking.jbaru.ch
- Slides
- Video
- All the links!

## AlphaCSP
6 yrs 1 mo

### Training Division Manager
Jan 2007 - Oct 2010 · 3 yrs 10 mos

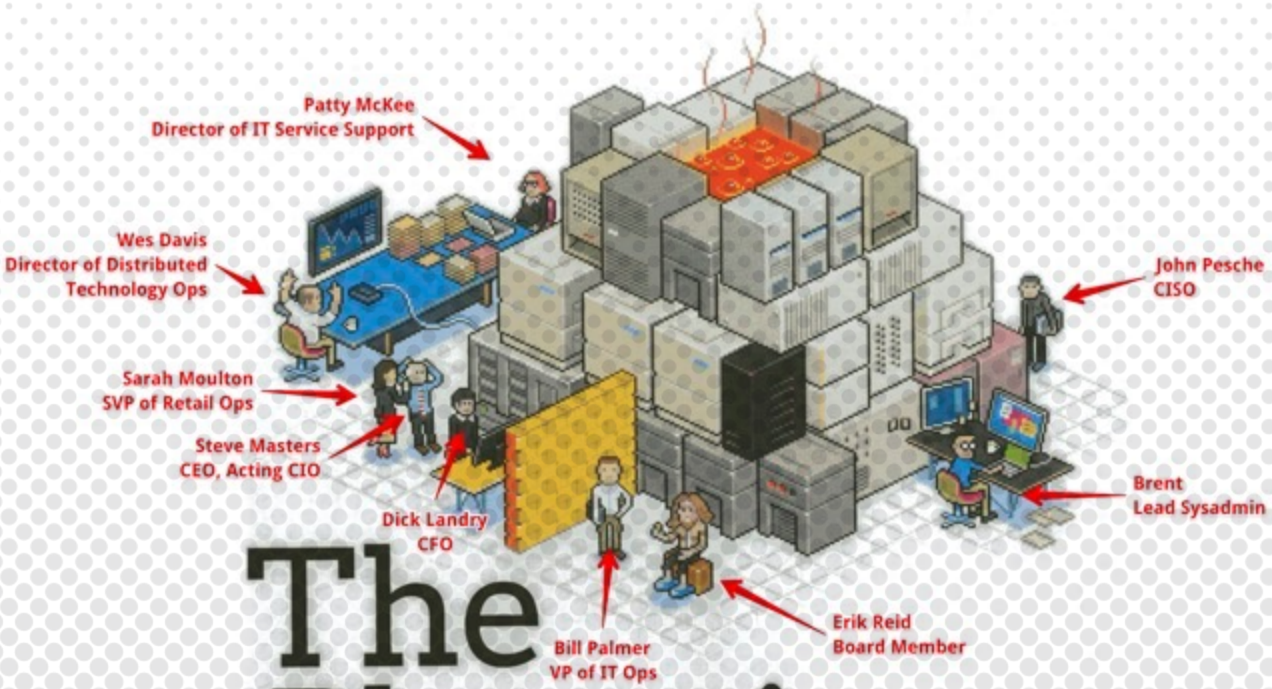
- Development and delivery of most of AlphaCSP courses on different Java-related topics and in different levels;
Among the customers: IDF, Cisco, IDI direct insurance, Rafael, PayPal, Opal, BMC, Malam, Checkpoint, HP Software and others.
- Development and delivery Artifactory training for JFrog customers world-wide;
Among the customers: Cisco, Sita, Ansys and others.
- JTeam – Extremely successful internal training program in AlphaCSP – ¼ of AlphaCSP personnel are JTeam alumni.
- Java department technical lead at MalamTeam Training Center – development and delivery of all Java courses.
- Named one of the best speakers in all AlphaCSP events through the years.

### Consultant & Architect
Jan 2007 - Oct 2010 · 3 yrs 10 mos

Consulting, building architectures and design, mentoring, and developing in various Java-related projects on the topics, described in Specialties section above;
Among the customers: BMC, Logia, IDF, Starhome (Comverse), Malam, Cisco, IDI, IDIT, Isracard, Virtual Tweens, Amobee, SolarEdge, Checkpoint, Cadence, Evolven, ExLibris, Retalix, Schema, Time To Know and others.

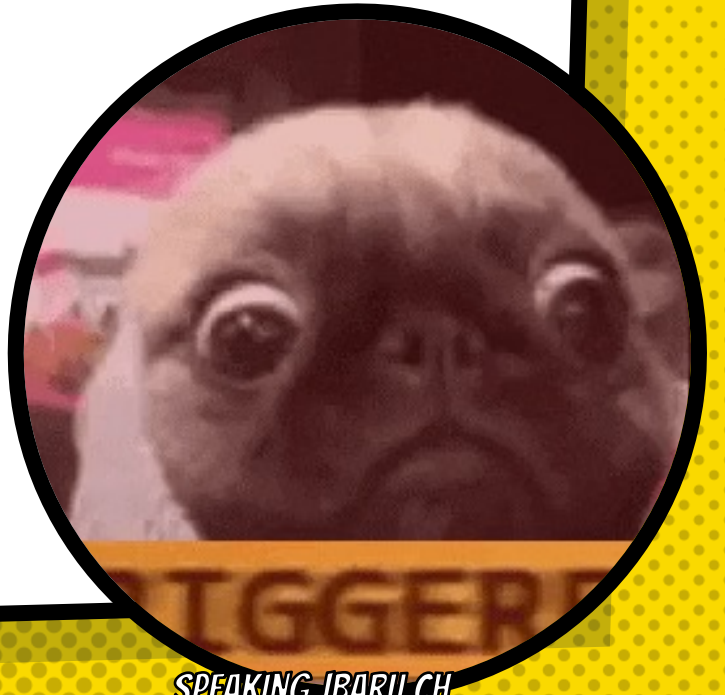
### Senior Developer
Oct 2004 - Jan 2007 · 2 yrs 4 mos

Working on various projects in BMC Software Israel




# The Phoenix Project

# NOT A SINGLE DEVELOPER!



Google

what is devops

About 350,000,000 results (0.40 seconds)

Amazon.com
https://aws.amazon.com › devops › what-is-devops

## What is DevOps? - DevOps Models Explained

DevOps is **the combination of cultural philosophies, practices, and tools that increases an organization's ability to deliver applications and services at** ...

AWS DevOps Competency · What is Continuous Integration?

Atlassian
https://www.atlassian.com › devops

## What is DevOps?

DevOps is **a set of practices, tools, and a cultural philosophy that automate and integrate the processes between software development and IT teams**.

GitLab
https://about.gitlab.com › topics › devops

## What is DevOps?

DevOps is **a combination of software development (dev) and operations (ops)**. It is defined as a software engineering methodology which aims to integrate the work ...

Continuous Delivery (CD): Continuous deliver…
Agile: Agile development means taking iter…
Continuous Integration (CI): The practice of re...
Version control: The fundamental practice o…

DevOps explained · The four phases of DevOps · The DevOps lifecycle and how...

Microsoft
https://learn.microsoft.com › en-us › what-is-devops

## What is DevOps?

Jan 25, 2023 — DevOps **enables coordination and collaboration between formerly siloed roles like development, IT operations, quality engineering, and security**.

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DEVOPS?
OPS!

# Y THO...

# As a Linux system administrator, how do I shift my career to DevOps?

**Disha Rathod**
DevOps Online Trainer (2013–present) · 5y

Hi,

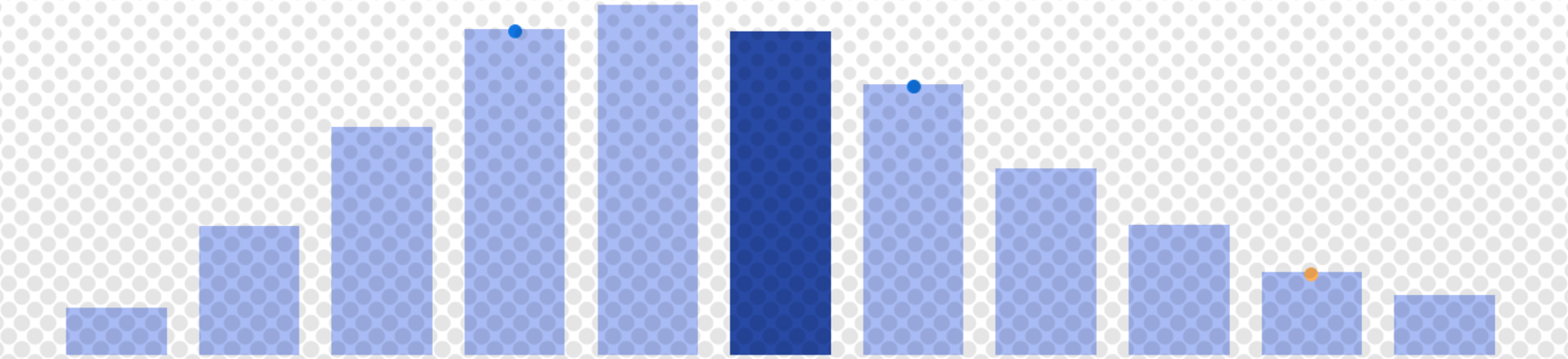
Being a Linux administrator will help you to easily get started with DevOps because it starts with learning Linux fundamentals, DevOps also includes cloud computing concepts like AWS. More importantly DevOps is all about tools, it comes with hundreds of tools. Gits, Chef, Maven, Jenkins, Puppet, Docker are modern and most popular DevOps tools.

So in order to move into DevOps industries you should have prominent knowledge following concepts

1. Linux Fundamental; Shell Scripting
2. Cloud Computing (AWS)
3. DevOps Fundamentals
4. Software Development Life Cycle
5. Continuous Integration, Deployment, and Delivery.
6. DevOps Tools Maven, Jenkins, Puppet, Docker etc.

# System Administrator Salary

Yearly | Monthly | Weekly | Hourly | Table View



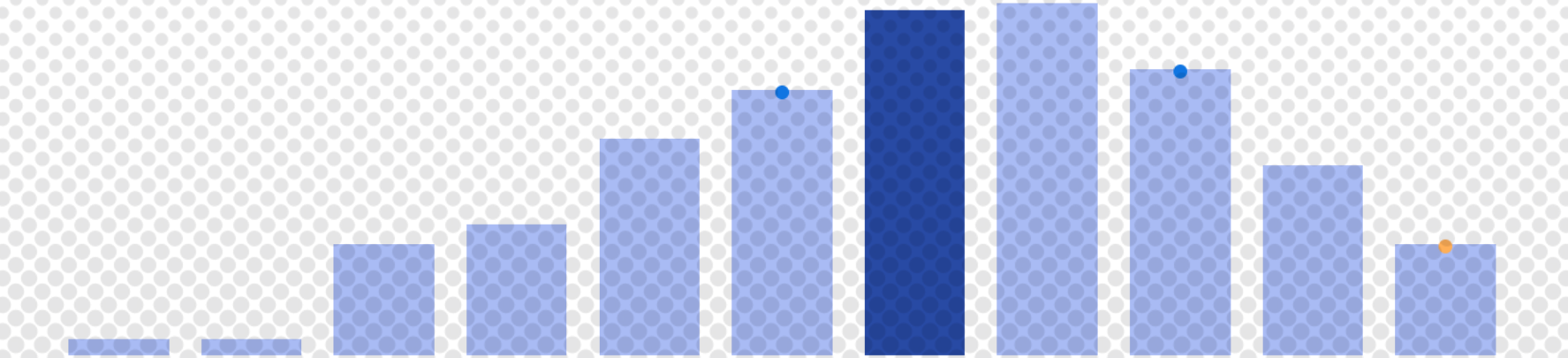
$33,000 National Average $121,000

$76,644 /year

$37 /hour

# Devops Engineer Salary

Yearly | Monthly | Weekly | Hourly | Table View




$127,036 /year

$61 /hour

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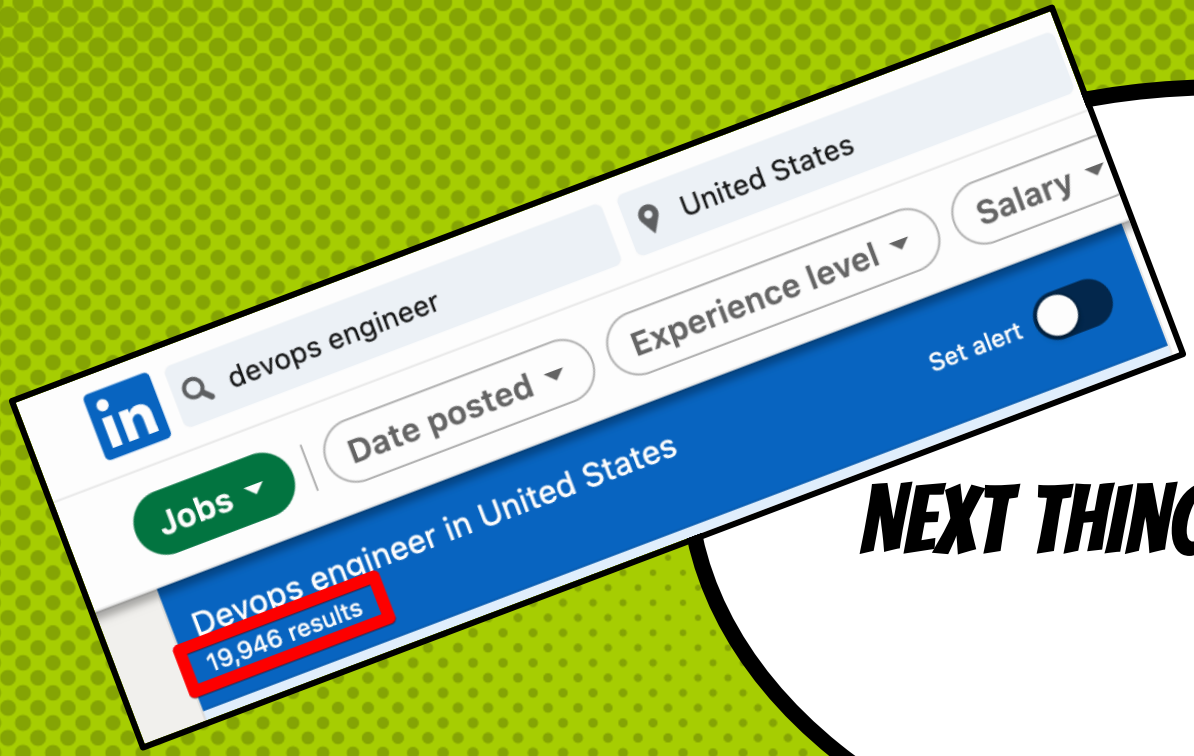


NEXT THING YOU KNOW...

aws
Products
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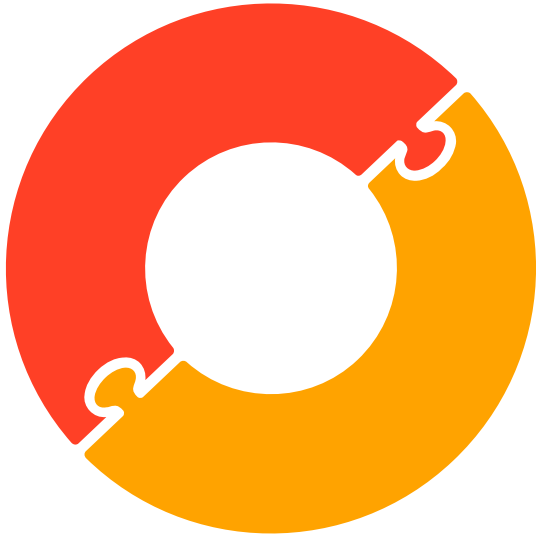
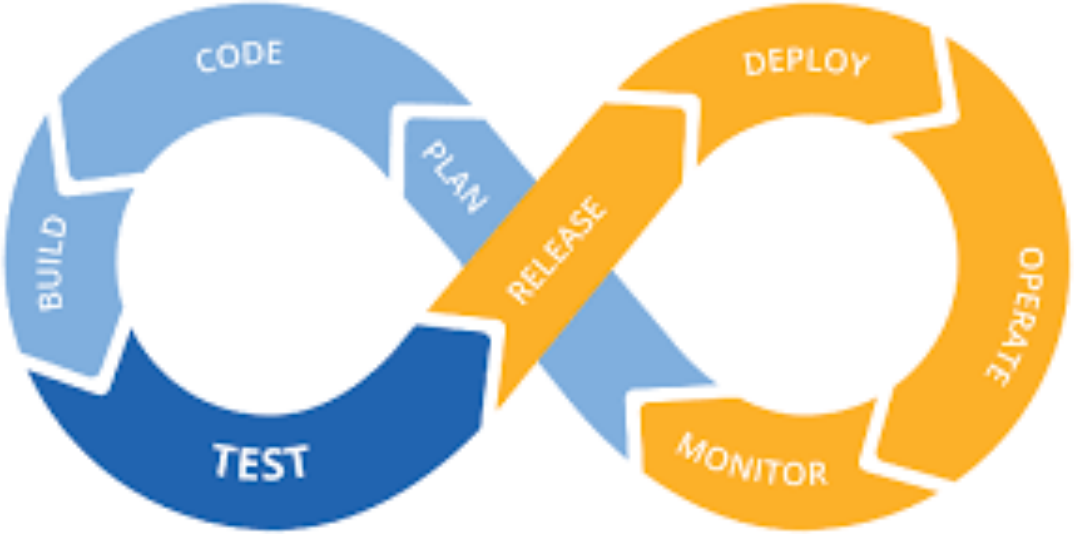
Pricing
Documentation
Learn
Partner Network
AWS Marketplace
Customer Enablement
Events
Explore More
Contact Us
Support
Training and Certification
Get Trained
Get Certified
Develop Your Team
AWS Partner Training
AWS Certified DevOps Engineer - Professional
Learn more about this certification and AWS resources that can help you prepare
Schedule an exam
Explore exam prep

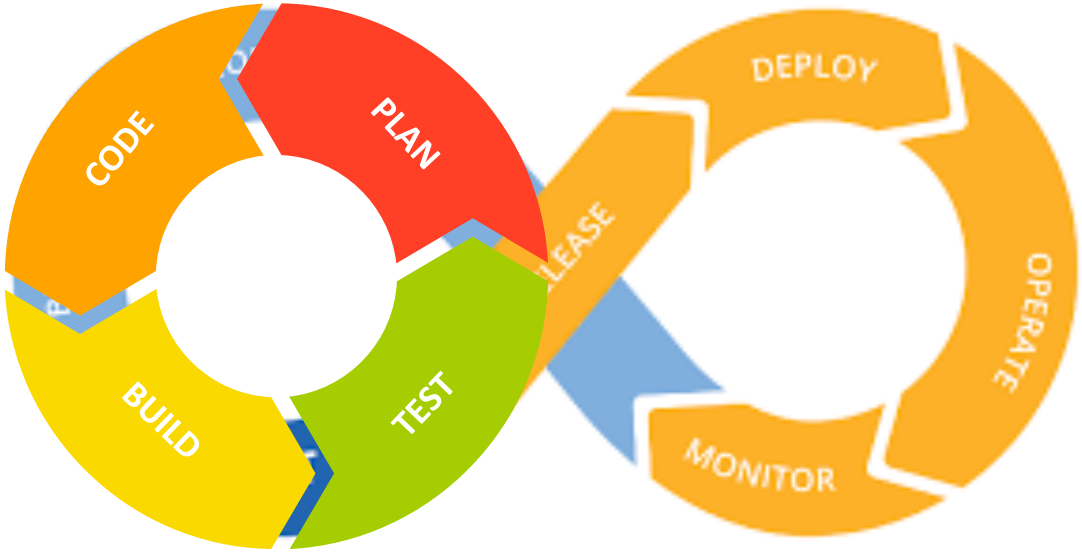
AND THIS:

# CAUSE AND EFFECT?




CODE
PLAN
BUILD
TEST
RELEASE
DEPLOY
OPERATE
MONITOR

# AGILE!


CODE
PLAN
BUILD
TEST
RELEASE
DEPLOY
OPERATE
MONITOR

Google Cloud DORA

# 2022 ACCELERATE

## State of DevOps Report

| Time Spent | Elite | High |
| --- | --- | --- |
| NEW WORK | 50% | 50% |
| Unplanned work and rework | 19.5% | 20%[a] |
| Remediating security issues | 5% | 5%[b] |
| Working on defects identified by end users | 10% | 10%[c] |
| Customer support work | 5% | 10% |

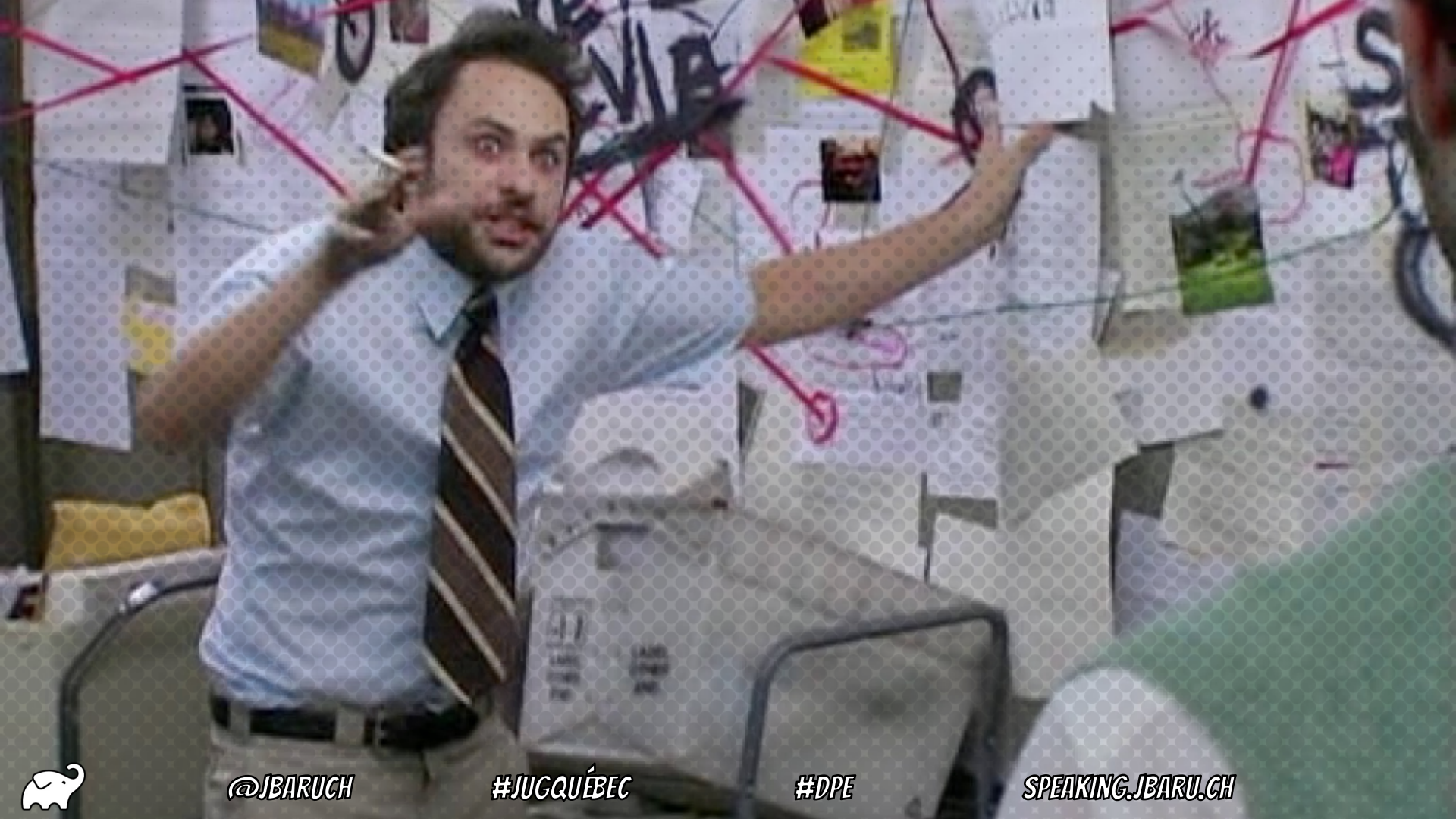
# Types of work according to DevOps

| | |
|---|---|
| Planned Work | Business projects or new features |
| Internal Projects | Server migrations, software updates and so on |
| Changes | Driven by feedback on completed work |
| Unplanned Work | Support escalations and emergency outages |

# SO FASCINATING...

# Types of work according to developers

| | |
|---|---|
| New Features | Writing code |
| Refactoring | Writing code |
| Bug Fixes | Writing code |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# Manifesto for Software Craftsmanship

**Raising the bar.**

As aspiring Software Craftsmen we are raising the bar of professional software development by practicing it and helping others learn the craft. Through this work we have come to value:

Not only working software,
but also **well-crafted software**

Not only responding to change,
but also **steadily adding value**

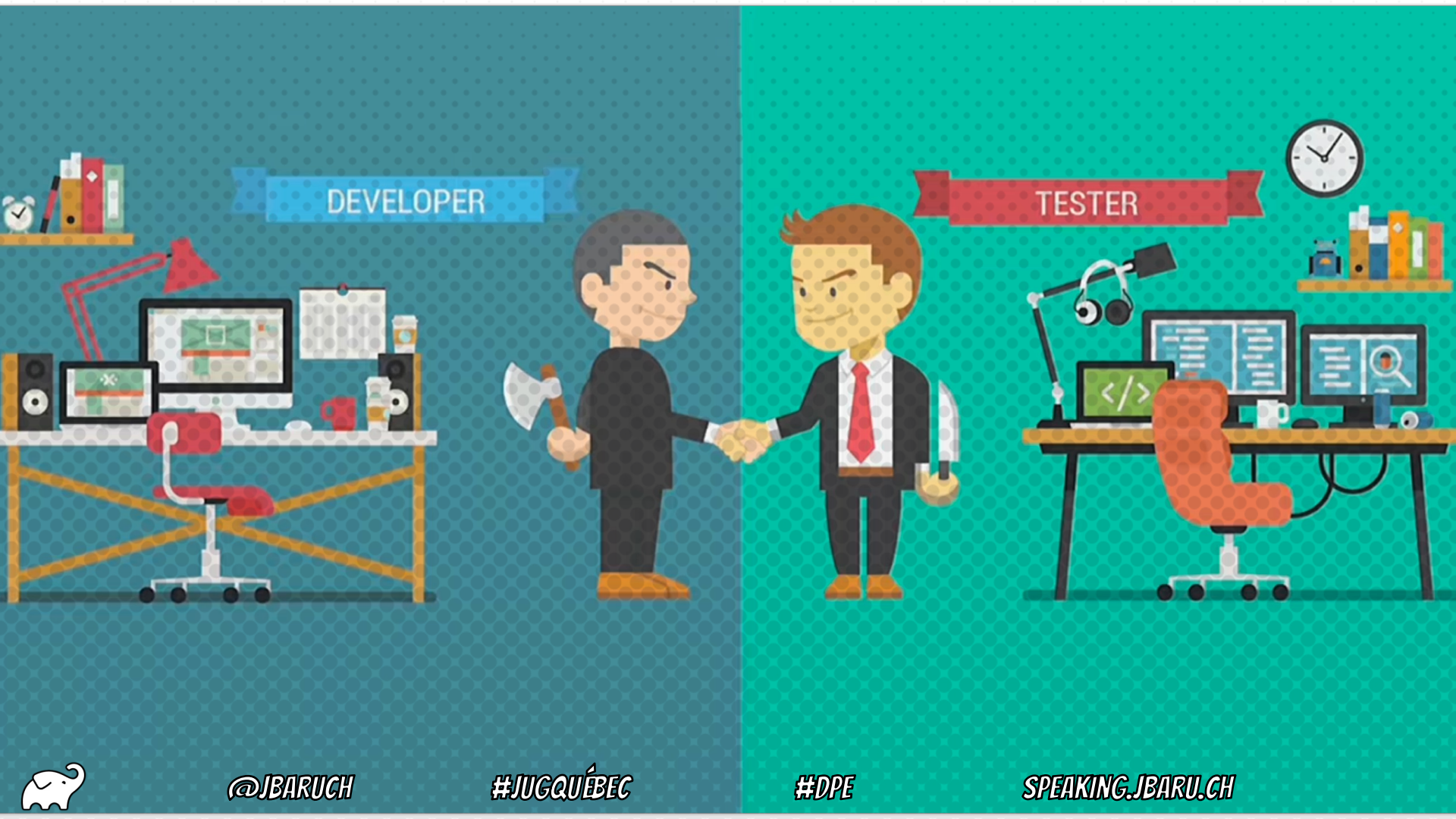
Not only individuals and interactions,
but also **a community of professionals**

Not only customer collaboration,
but also **productive partnerships**

That is, in pursuit of the items on the left we have found the items on the right indispensable.

# Software craft-person definition of done

- × We got what they want
- × Clear code
- × Easy to deploy
- × Non-func reqs – ✓
- × No new tech dept
- × Tests – ✓
- × QA are happy
- × Team lead is happy
- × Product owner is happy – (i.e. customer is happy)


DEVELOPER
TESTER

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TRACTORMEN, IMPROVE THE QUALITY OF TRACTOR-TRAILER TRACKING!

INTERNET ARCHIVE

# WayBack Machine

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CHASE

You could win $10,000 simply by logging on to Chase.com. Details

Find ATM / Branches | Co

Start banking online now

Get a User ID

GO

Get the Details

Returning Users: Log On

User ID:

Password:

Remember my User ID

Forgot User ID/Password?

Log On

**Personal Banking**

- Checking
- Credit Cards
- Savings
- CDs
- Debit Cards
- Online Banking & Bill Pay

**Business**

- Business Banking Revenues up to $10MM
- Commercial Banking Revenues over $10MM
- Business Credit Cards

**Personal Lending**

- Home Equity Loans & Lines
- Mortgage
- Auto/Vehicle Loans
- Student Loans

**Insurance & Investing**

- Insurance
- Investing
- Retirement Planning

**Tell me about...**

- Premier Platinum Banking Exclusive banking and investment benefits for clients with higher balances

**News & Announcements**

- U.S. Armed Forces Overseas Please contact us if you need assistance with your Chase accounts.
- Chase offers Zero-Fees! For academic year 2007-2008 the origination fee will be paid on all Federal Stafford Loans that Chase funds directly to students.
- Fair Lending & HMDA Data
- Chase Clear & Simple Expands

**Security Center Highlights**

Chase helps keep you safe and informed.

- Enhanced online security to help prevent fraud.
- Scams involving advance fees and cashier's check.
- Online fraud and e-mail scams
- Ways we protect you
- How you can protect yourself

Enter the Chase "Log On to Cash In" Sweepstakes.

DETAILS

GET MORE CASH BACK.

Click to LEARN MORE.

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FOR WEBSITE UPDATE
TO ENSURE QUALITY

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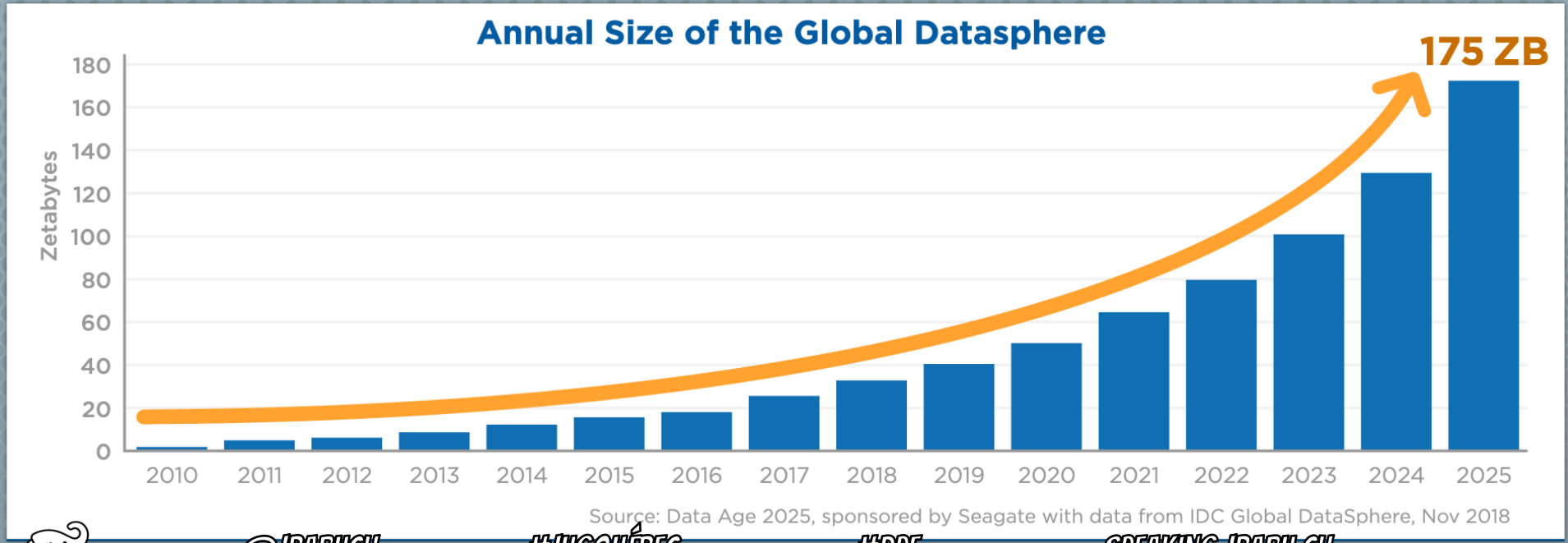
# CODE QUALITY IS NOT ENOUGH



STAGING SERVER
JOLLY WHERE THE TIMES
WHEN WE COULD TEST EVERYTHING
BEFORE DEPLOYING TO PRODUCTION
1985 - 2015

# WHAT DO WE DO?!

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PRODUCTION STEAMS ITS WAY TO THE DEVELOPERS!

WELCOME TO ON-CALL!

# Software craft-person definition of done

- × We got what they want
- × Clear code
- × Easy to deploy
- × Non-func reqs – ✓
- × No new tech dept
- × Tests – ✓
- × QA are happy
- × Team lead is happy
- × Product owner is happy – (i.e. customer is happy)
- × It's DevOps ready

# DevOps-ready software (a.k.a. cloud-native)

- × Clear deployment plan
- × Stable and fast build
- × Stateless code
- × Fast startup and stop
- × Observability
- × Feature flags
- × Backwards and forward-compatible
- × Event streaming

# 10 YEARS OF TRYING... AND DEVELOPERS STILL AREN'T EXCITED ABOUT DEVOPS

WELCOME TO DEVOPS!
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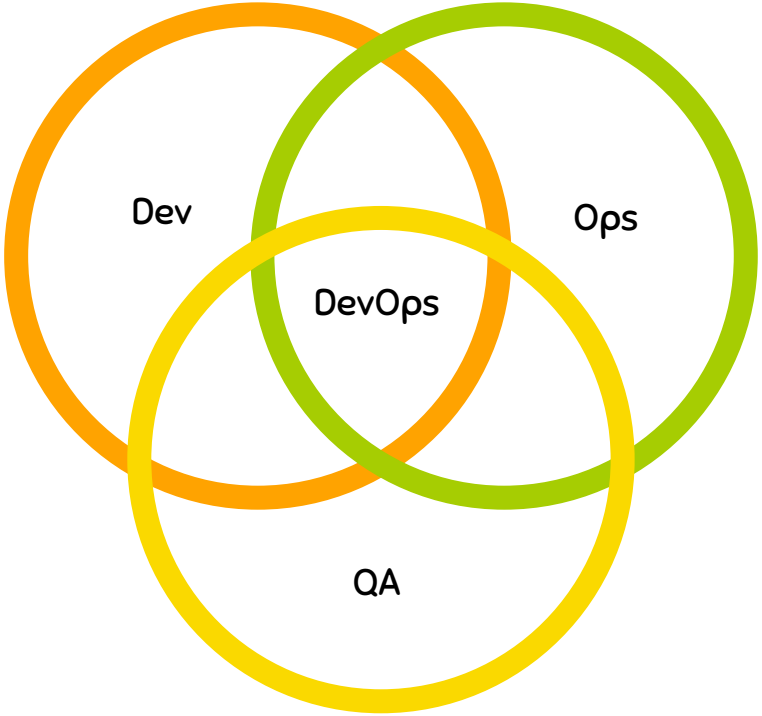
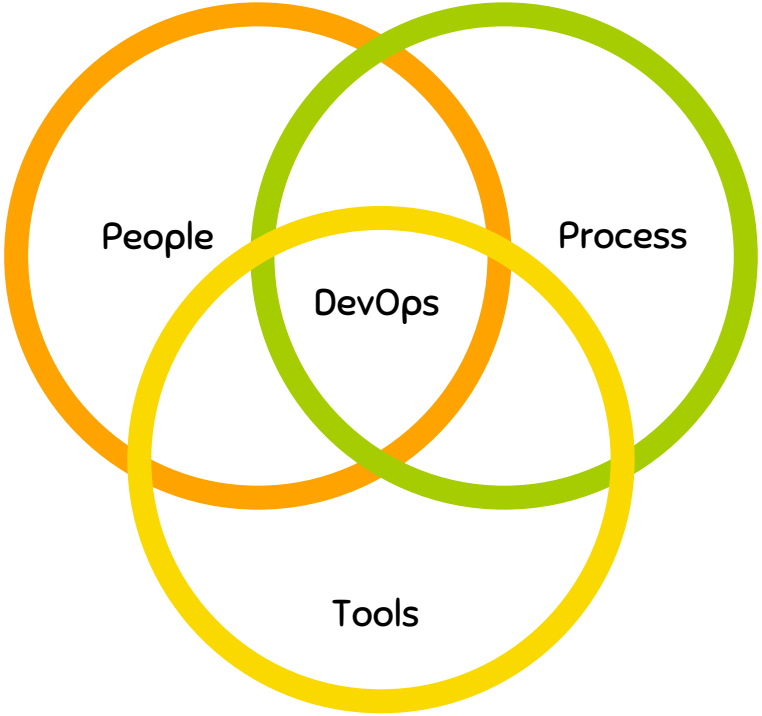
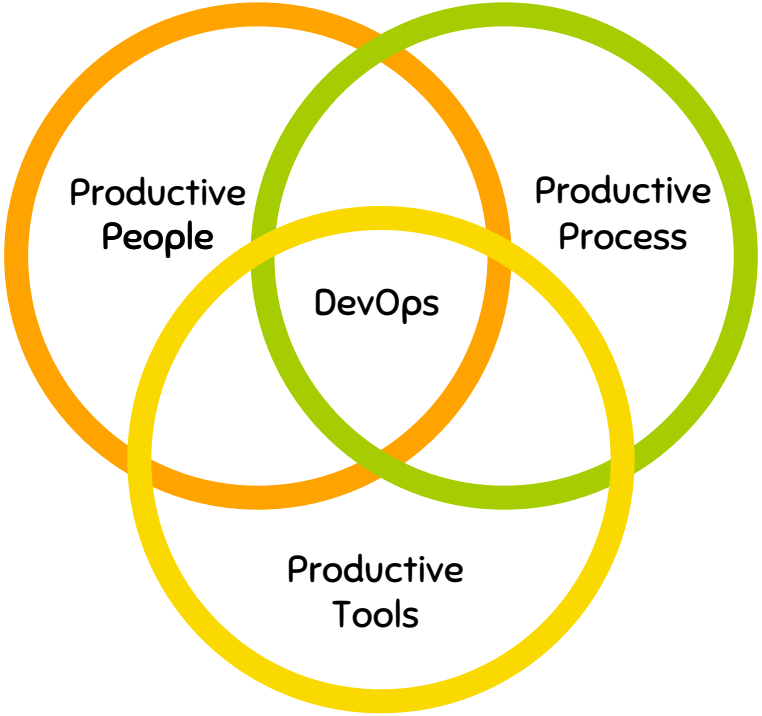
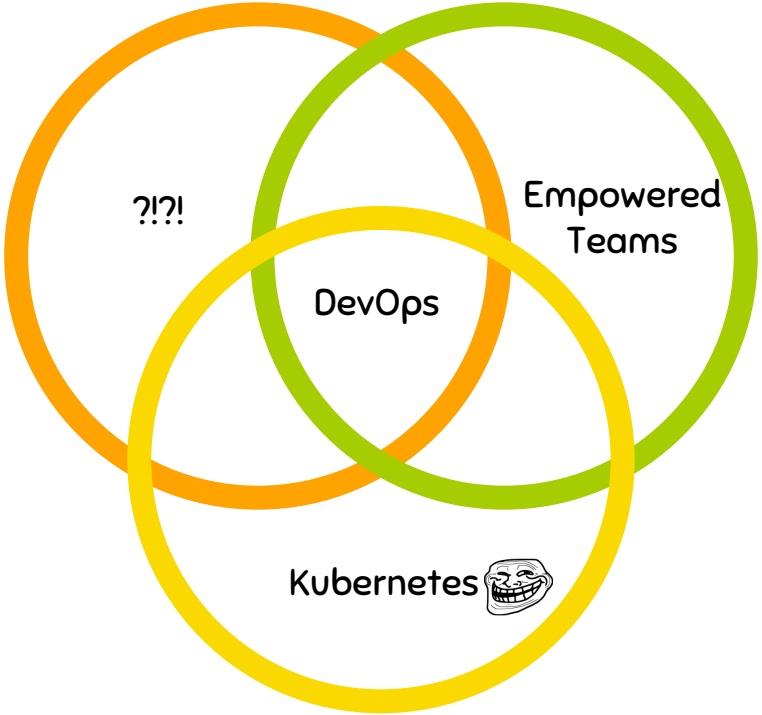
# HOW DO WE GO FROM 😕 TO 😁 ?!


Dev
Ops
DevOps
QA


People
Process
DevOps
Tools


Productive
People
Productive
Process
DevOps
Productive
Tools


?!?!
Empowered Teams
DevOps
Kubernetes

# THE PAIN IS REAL

GRADLE ENTERPRISE CUSTOMER STATISTIC

## Builds and Tests are Slow!

92% of surveyed IT organizations experienced challenges with too much time spent waiting on build and test feedback.

Source: TechValidate survey of 26 users of Gradle Enterprise

Validated Published: Mar. 31, 2023 TVID: C42-7D4-678

Gradle Enterprise TechValidate

GRADLE ENTERPRISE CUSTOMER RESEARCH

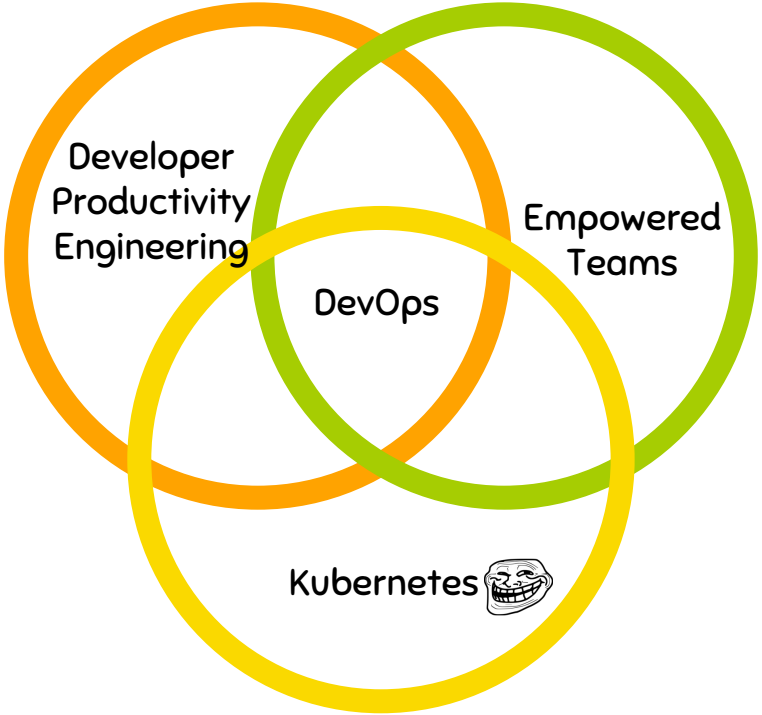
## Developer Pain Points

Which of the following challenges or pain points did your organization experience prior to implementing Developer Productivity Engineering?

Source: TechValidate survey of 20 users of Gradle Enterprise

Validated Published: Nov. 1, 2021 TVID: BAF-C0D-A05

Gradle Enterprise TechValidate


Developer
Productivity
Engineering
Empowered
Teams
DevOps
Kubernetes

# DEVELOPER PRODUCTIVITY ENGINEERING

Foster Faster Feedback

Collaborate through Effective Tooling

Embrace Rigorous Observability for Proactive Improvement

Eliminate Toil for Developers

Prioritize Automation and Eliminate Bottlenecks

Dedicated Organizational Mindset

Outcomes Over Output

# DevOps against developers?

- DevOps mainly solves Ops' concerns by making processes and ops tools more productive
- Developer Productivity Engineering makes devs more productive
- This is how we bring developers into the fold of DevOps

# LEARN MORE AND TRY IT TODAY!

- Take the Gradle/Maven Speed Challenge
- Be DPE Agent of Change!
- Read the DPE Handbook
- Watch the DPE Summit videos (published soon!)

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# THANKS!

Q&A and ~~Twitter~~ X/Bsky/Mastodon/LinkedIn ads:

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