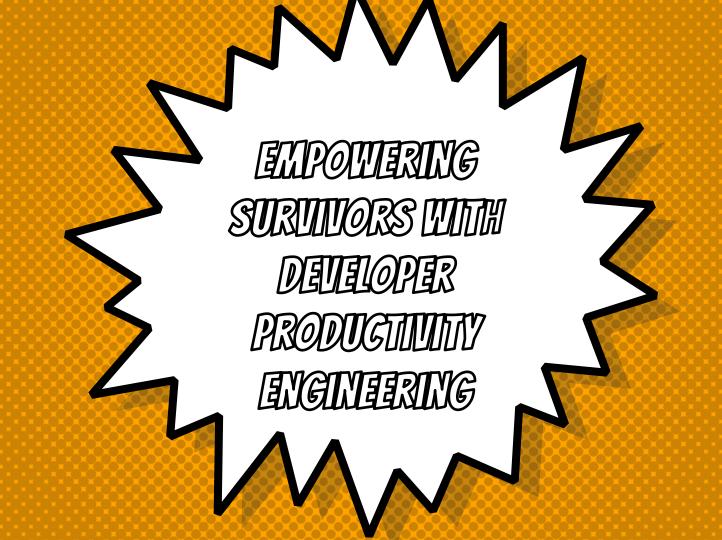
SURUMUNG THE TECHPOGNITYSE







Layoffs.fyi

1,064 tech companies w/ layoffs · 165,269 employees laid off · In 2022 V

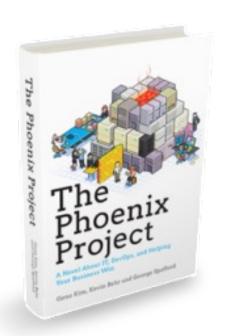
1,191 tech companies w/ layoffs · 263,180 employees laid off · In 2023 V

470 tech companies w/ layoffs · 141,145 employees laid off · In 2024 ×

569,594

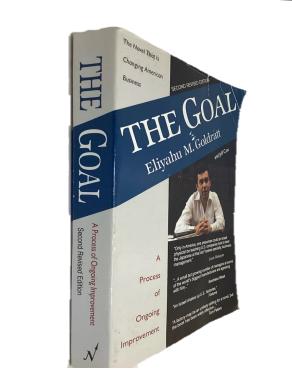








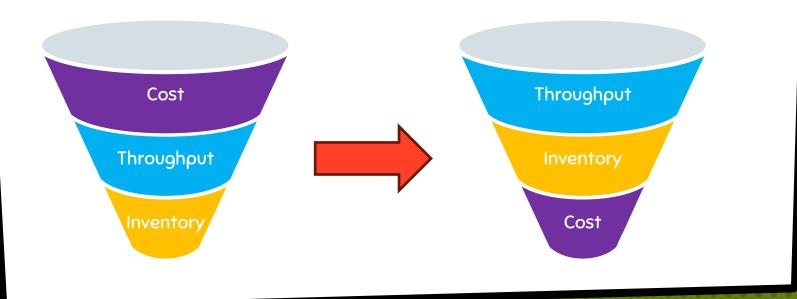






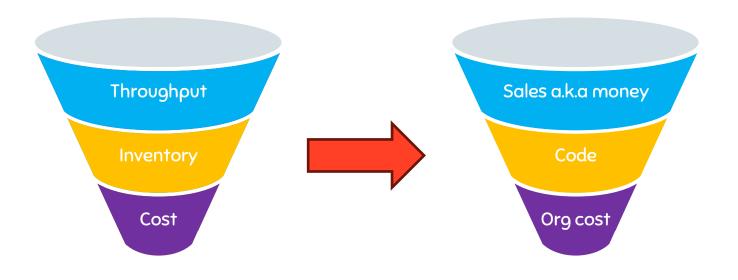


FROM COST WORLD TO THROUGHPUT WORLD

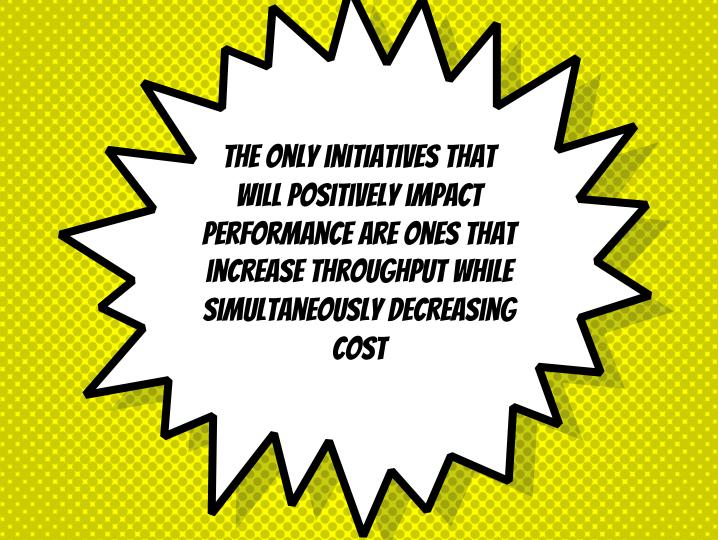


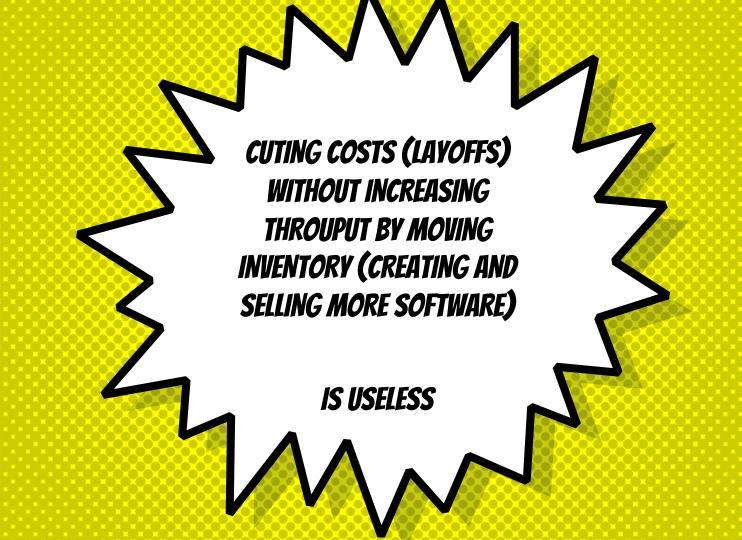


IN TERMS OF IT COMPANY









BUT WHAT ABOUT SILENT QUITTING?

GALLUP'

WORKPLACE APRIL 10, 2024

U.S. Engagement Hits 11-Year Low

4.8 million fewer U.S. employees are engaged in early 2024

BY JIM HARTER





BUT WHAT ABOUT SILENT QUITTING?





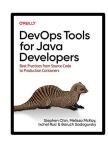
YOU'D EXPECT SELECTIVE LAYOFFS THEN?





BARUCH SADOGURSKY - @JBARUCH

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







SHOWNOTES

× speaking.jbaru.c

- × Slides
- × Video
- × All the links!





HUMAN RESOURCES ATTRITION

REGRETTUBLE	– I quit – That's a bummer!	"The leadership takes full responsibility" ^(a)
NON-REGRETTABLE	- I quit - Good riddance	- You're fired





Since the layoffs, how how would you describe your personal feelings?

Anxiety Ashamed Betrayed Brokenhearted Comficted

Agony Alone Anger

Disengaged Disgusted Dissausted Empty Exhausted Fear Purious

Grateful Guilt Hopeless Hurt Ineffective

Joyless Lonely Lucky Nothing Overworked Pessimistic Sad Upset

Worthless







Survivor guilt or survivor's guilt (but also survivor syndrome, survivor's syndrome, survivor disorder and survivor's disorder) is a mental condition that occurs when a person believes they have done something wrong by surviving a traumatic or tragic event when others did not.

W

Wikipedia
https://en.wikipedia.org > wiki > Survivor_guilt

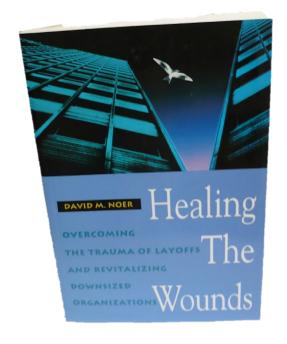
Survivor guilt - Wikipedia

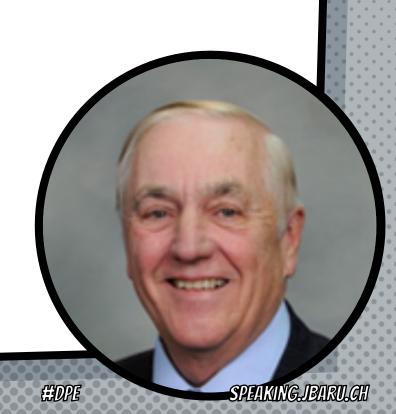






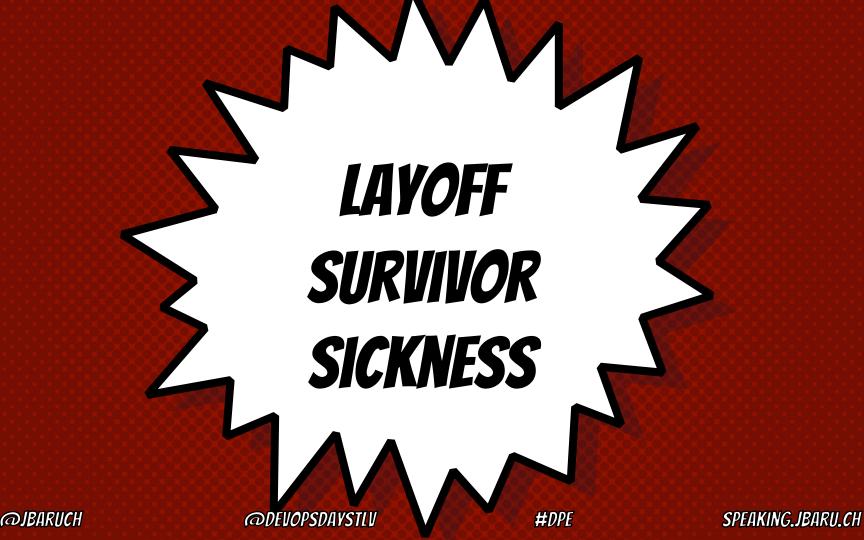








@DEVOPSDAYSTLV





Data from a survey conducted by BizReport on November 22-27 of 2162 decision-makers in layoffs, layoff victims, and layoff survivors

DECREASED 71%

22% STAY THE SAME

71%

of layoff survivors say their work motivation has declined since the layoff. **@JBARUCH ODEVOPSDAYSTLU**

INCREASED

#DPE

SPEAKING.JBARU.CH







Data from a survey conducted by BizReport on November 22–27 of 2162 decision-makers in layoffs, layoff victims, and layoff survivors

65%

of layoff survivors say they are overworked since the layoff.

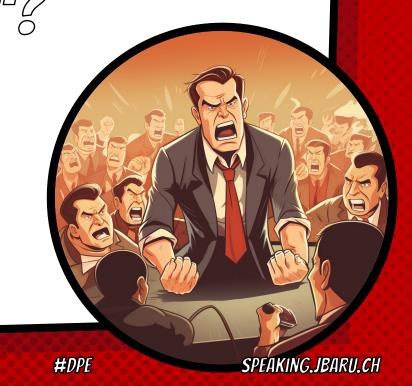


@DEVOPSDAYSTLV

#DPE

SPEAKING.JBARU.CH

PLEAN AND MEAN'S
MORE UNE
SAD AND ANGRY





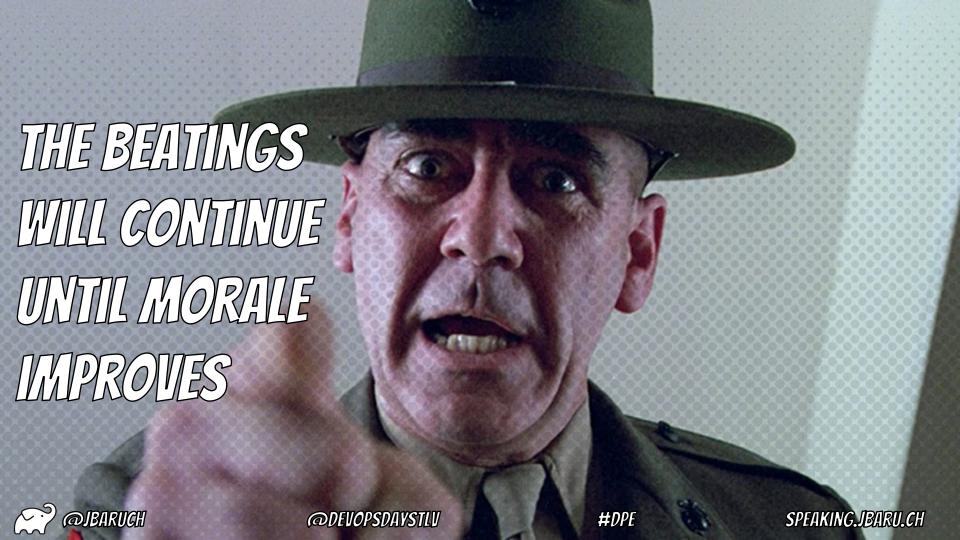
@DEVOPSDAYSTLV

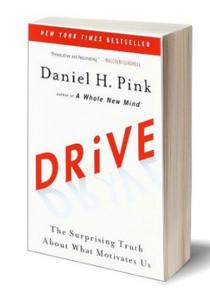




@BIRUGI

DAE SPEINING JEARU.GI

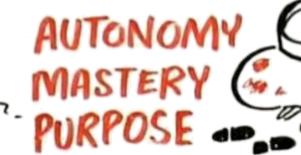








3 FACTORS LEAD TO BETTER PERFORMANCE & PERSONAL SATISFACTION...







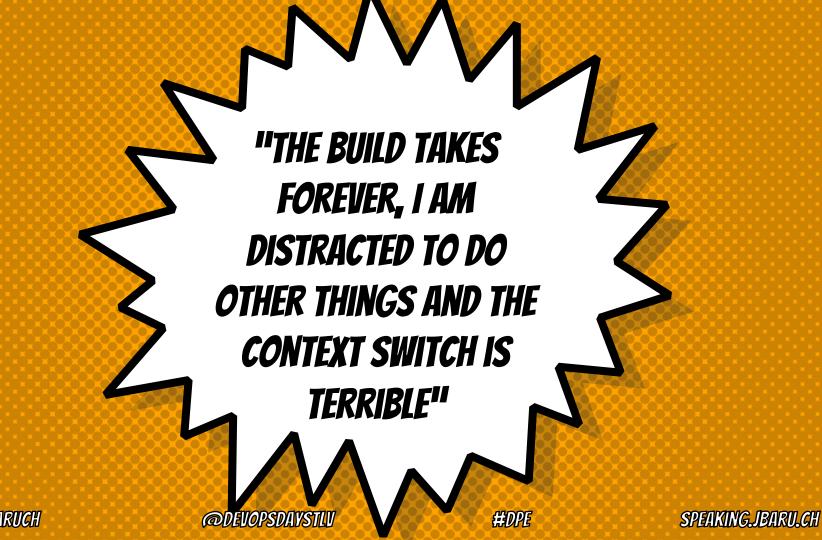


DON'T RUIN THE FLOW



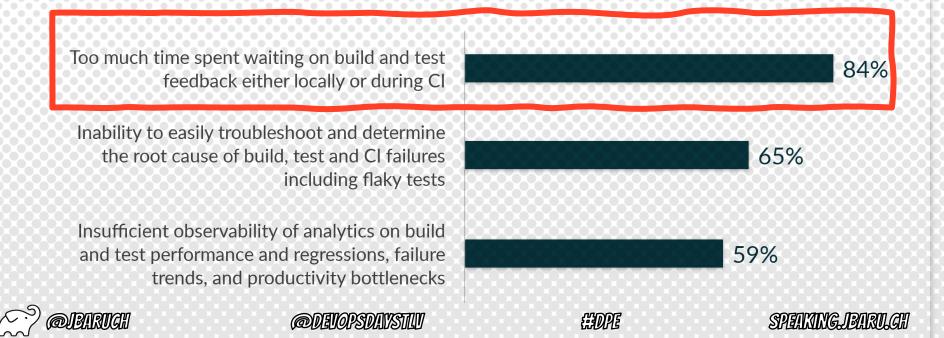
#DPE

SPEAKING JBARU CH



Development Pains are Widespread

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

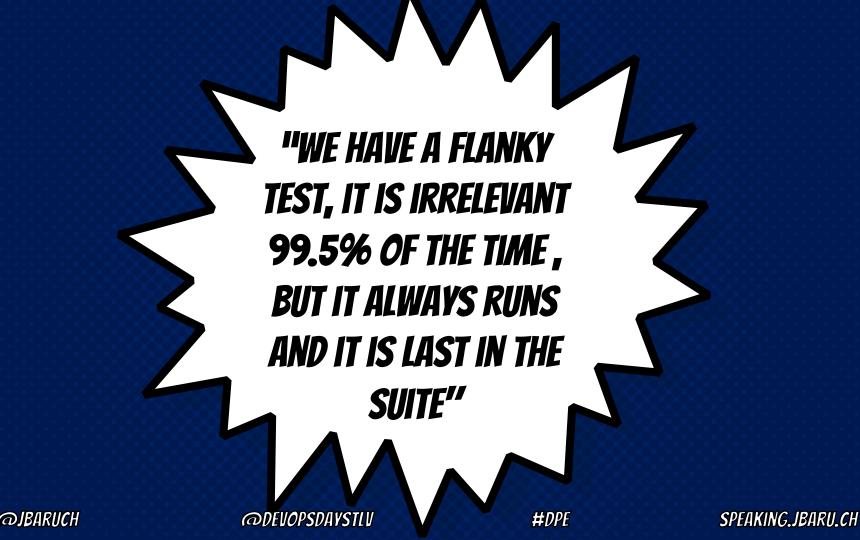


DON'T FRUSTRATE THE DEVELOPERS



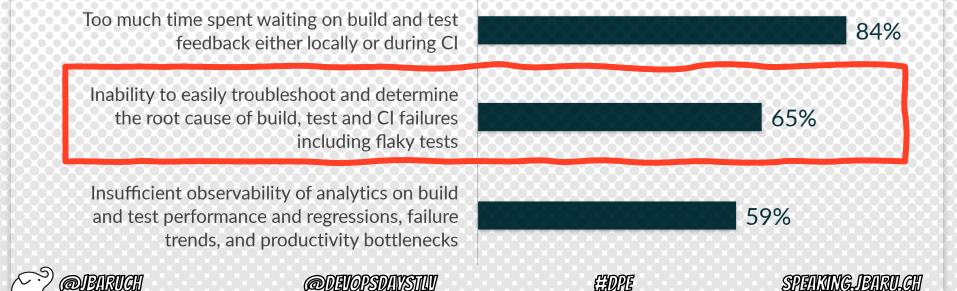


@DEVOPSDAYSTLV



Development Pains are Widespread

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



DON'T BOIL THE FROG



@DEUOPSDAYSTLU

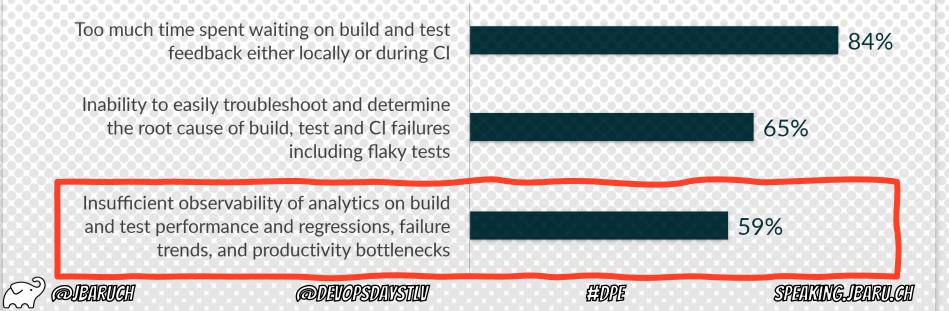


#DPE



Development Pains are Widespread

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



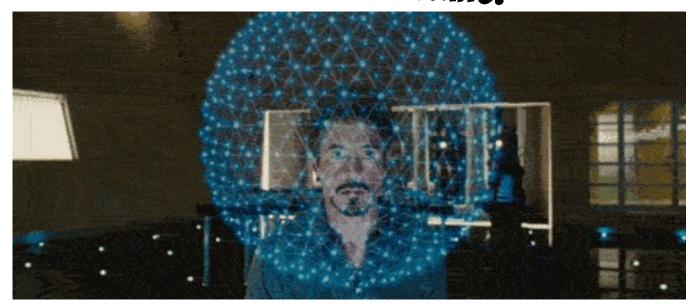
DEVELOPER PRODUCTIVITY == A/M/P == MOTIVATION

Autonomy - Tools and people aren't in my way

Mastery Tools and processes help me to excel

Purpose I want to be *product*ive, i.e. create the product

DEVELOPER PRODUCTIVITY ENGINEERING!



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

TALK IS CHEAP. SHOW ME THE GOODS!



SMALL DPE IMPROVEMENTS MAKE A HUGE DIFFERENCE

- Generate code faster: Better IDE
- × Test better: Testcontainers
- × Enforce better code: Sonar
- × Test more reliably: Flaky test detection
- × Foster Faster Feedback:

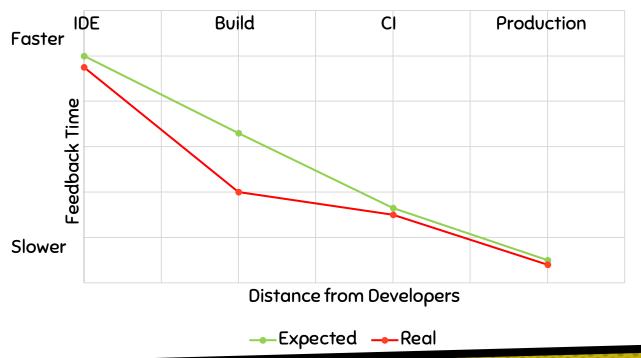




FEEDBACK EFFICIENCY

- × IDE: Sub-seconds (I type, it marks it red)
- × Build: Seconds
- × CI: Minutes
- × Production: Hours/Days

REVERSE DEPENDENCY ON DISTANCE FROM DEVELOPERS

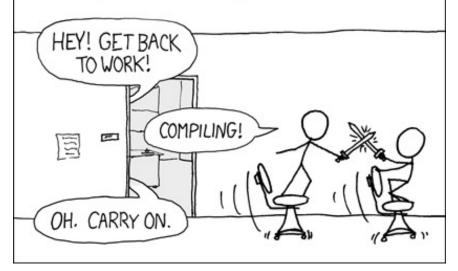






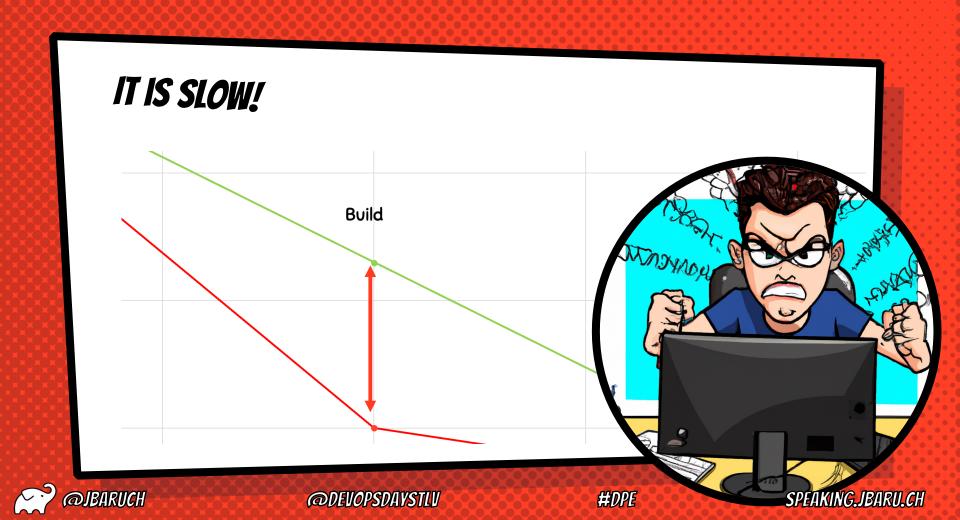
THE #1 PROGRAMMER EXCUSE FOR LEGITIMATELY SLACKING OFF:

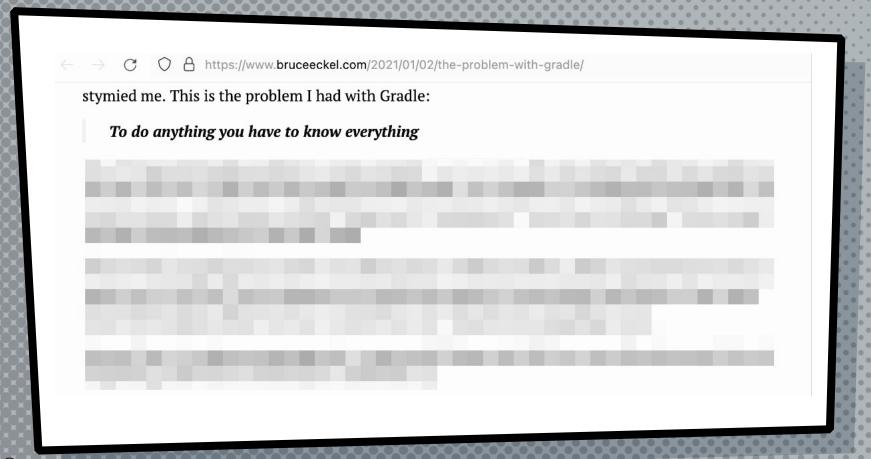
"MY CODE'S COMPILING."



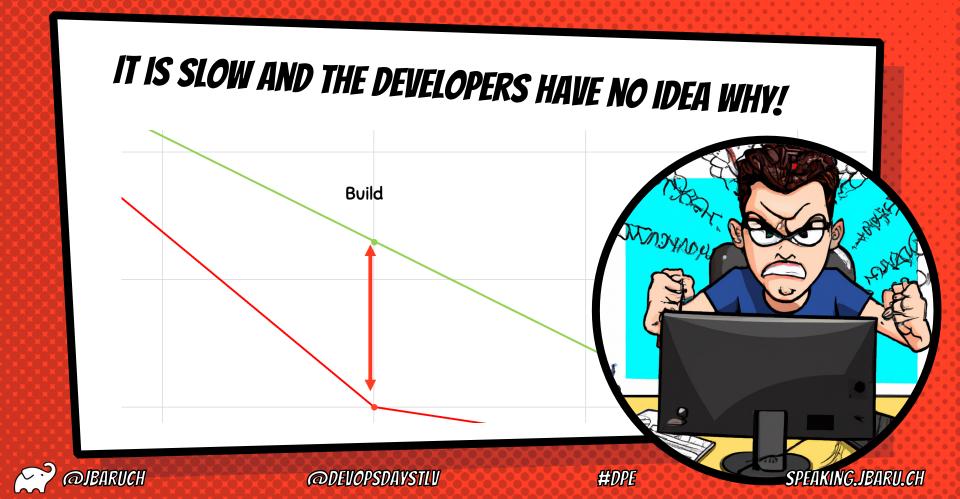












WHAT IS BUILD?

- Project setup
- Downloading the Internet
- × Artifact generation: Compilation, packaging, etc
- × Tests
- Artifact deployment

WHAT CAN GO WRONG?

- Project setup
- × Downloading the Internet
- × Artifact generation: Compilation, packaging, etc
- × Tests
- Artifact deployment

WHEN CAN IT GO WRONG?

AT ANY TIME.





THE BUILD FRUSTRATES
THE DEVELOPERS



LET'S ASK CHATGPT



What techniques can I use to speed up a Maven build?



Sure, here are some quick tips to speed up a Maven build:

- 1. **Skip Tests**: Use `-**DskipTests**` to skip running tests.

E.g., `-T 4` for 4 threads.

- 3. Offline Mode: Use `--offline` to avoid checking for updates.
- Incremental Build: Use `mvn -am -p1` to build only changed modules and their dependencies.
- 5. Profile: Use Maven profiles to conditionally enable plugins.
- 6. Resource Filtering: Limit resource filtering to only necessary files.
- 7. **Use a Mirror**: Set up a local Nexus or Artifactory mirror.

Hope that helps! Got a preference for Gradle, but these should give your Maven build a boost.



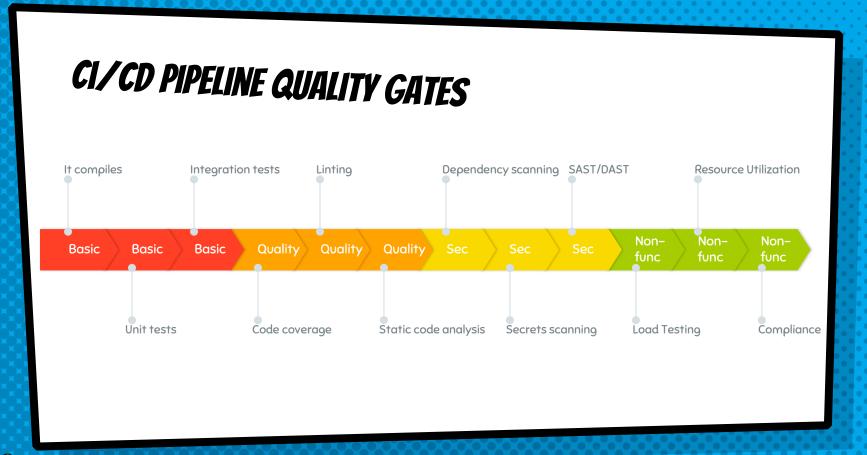


WHAT THE ACTUAL F*CK?!

- × Skipping tests defeats the purpose of the build!
- × How about skipping compilation?
- We want faster feedback, not less feedback











CI/CD? NOT GREAT, NOT TERRIBLE.

@DEVOPSDAYSTLV

#DPE

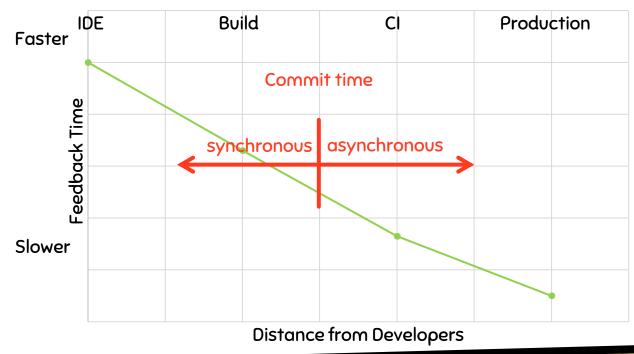
SPEAKING.JBARU.CH

TWO TYPES OF FEEDBACK

ASYNGHRONOUS	x e.g., CI/CDx we never wait for itx results are distracting
SYNGHRONOUS	x e.g., buildx we'll wait for it in the flowx we'll be pissed off when it's slow

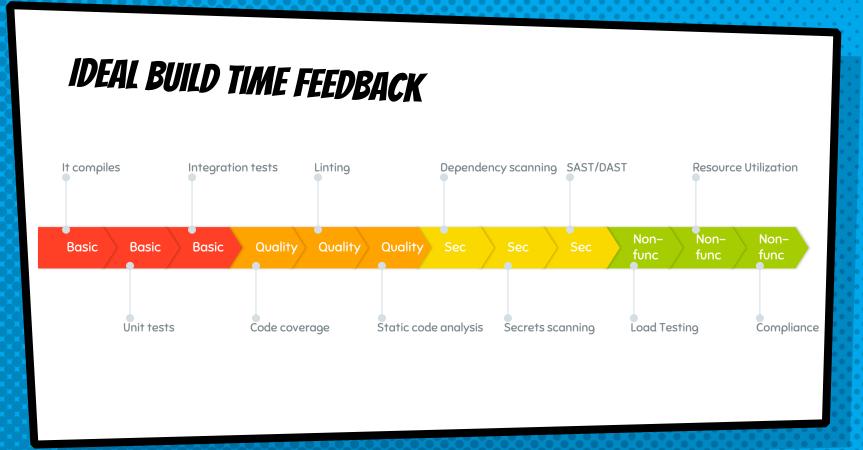


REVERSE DEPENDENCY ON DISTANCE FROM DEVELOPERS













BUT WON'T IT SLOW DOWN THE BUIDEL





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#DPE

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DELIGHTFUL BUILD (PICK TWO):



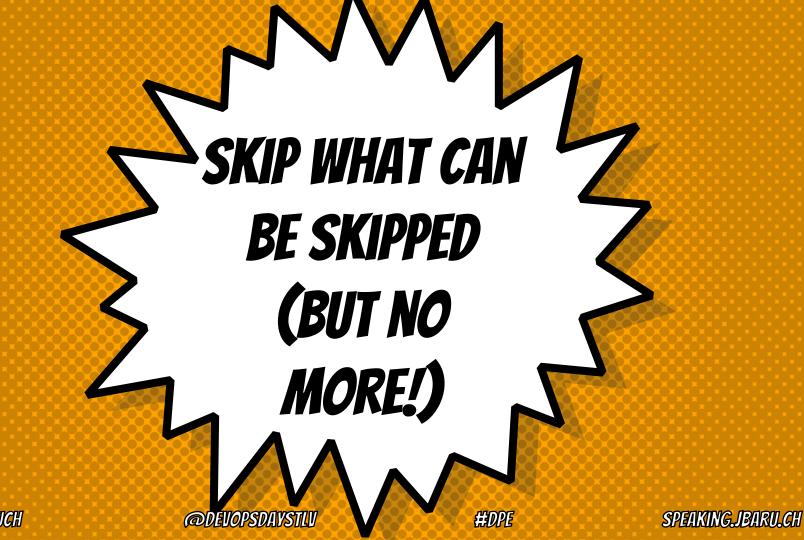
PROVIDES MAX FEEDBACK











AVOIDANCE: INCREMENTAL BUILD

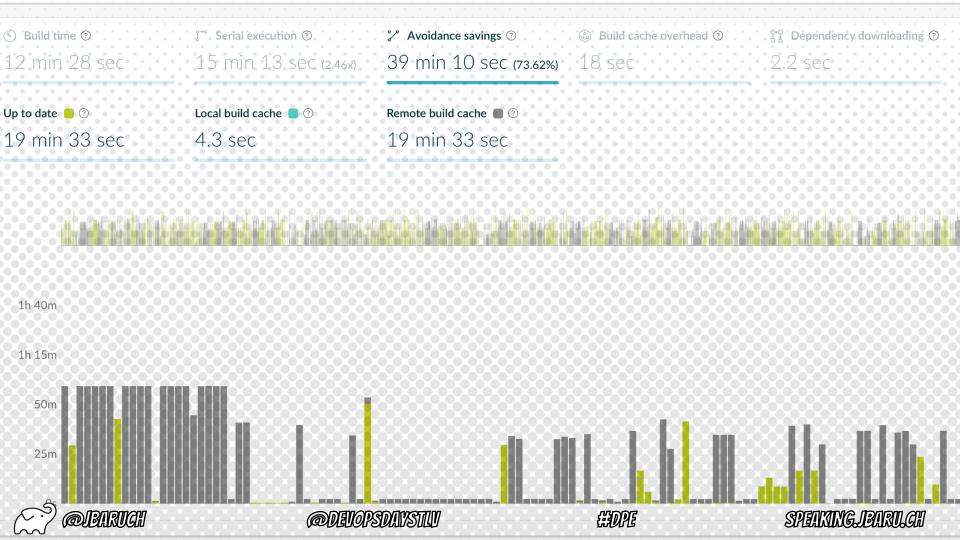
- Don't build what didn't changed
- × Don't build what isn't affected

AVOIDANCE: INCREMENTAL BUILD SHORTCOMINGS

- × Relies on produced artifacts
- × Relies on architectural decisions

AVOIDANCE: CACHING

- × Makes the build faster
- × Makes the build faster for everybody
- Makes the build faster always
- × Makes all parts of the build faster



AVOIDANCE: PREDICTIVE TEST SELECTION

- × Learns code changes effects de-facto
- Skips tests with high degree of confidence

HOW TEST PREDICTION WORKS

- Code changes and test results are thrown into learning model
- After a while, the model predicts which changes fail which tests







#DPE

TEST PREDICTION

What changed Where it changed

Correlate with observed test failures

Predictions
which
changes
will fail
which tests

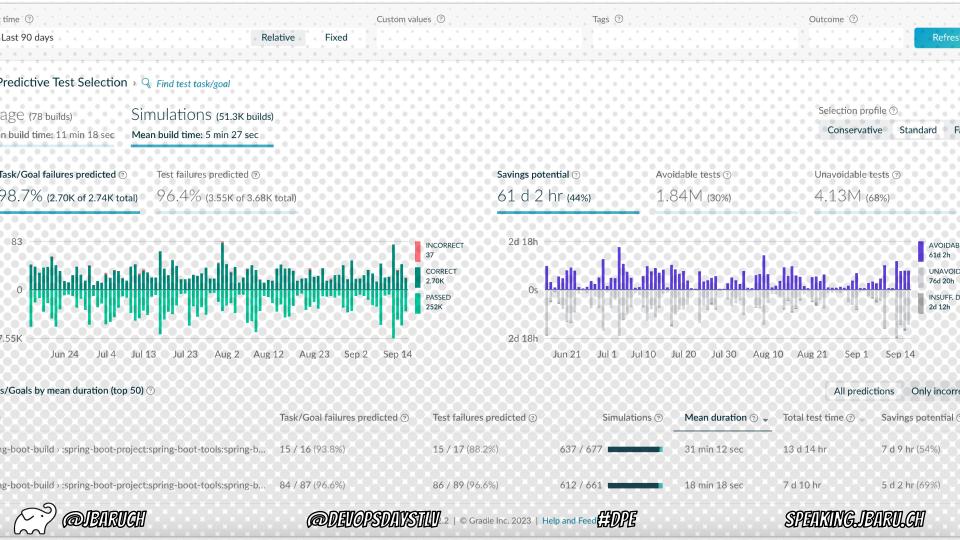


BLACK MAGIC IN ACTION

* The more tests a project has, the less they break

 Refactorings in Java break tests less than in JavaScript







TEST PARALLELIZATION

- Use max power of local machine
- Yes, your boss should buy you the bleeding edge)

Task path	Started after ?	Duration ②
:clean	0.499s	0.053s
:compileJava	0.553s	0.146s
:processResources NO-SOURCE	0.699s	0.001s
:classes	0.700s	0.000s
:jar	0.701s	0.040s
:assemble	0.741s	0.000s
:compileTestJava	0.741s	0.242s
:processTestResources NO-SOURCE	0.984s	0.000s
·testClasses	0 984s	0.001s
:test	0.985s	1m 59.135s
:спеск	2m 0.120s	0.001s
:build	2m 0.121s	0.001s

Task path	Started after ?	Duration ?
:clean	0.416s	0.048s
:compileJava	0.465s	0.085s
:processResources NO-SOURCE	0.550s	0.000s
:classes	0.550s	0.000s
:jar	0.551s	0.040s
:assemble	0.591s	0.000s
:compileTestJava	0.592s	0.212s
:processTestResources NO-SOURCE	0.804s	0.001s
:testClasses	0.805s	0.000s
:test	0.805s	10.553s
:check	11.359s	0.000s
:build	11.359s	0.000s

```
tasks.test { this: Test!
  onlyIf { true }
  useJUnitPlatform()
  maxParallelForks = Runtime.getRuntime().availableProcessors()
  testLogging } this: TestLoggingContainer
```







TEST DISTRIBUTION

- Cluses fan-out to speed-up tests
- × Shouldn't you enjoy it for local tests?
- × Use the cloud to distribute test load
- × RUN ALL THE TESTS!

WHY NOT JUST USING CI FAN-OUT?

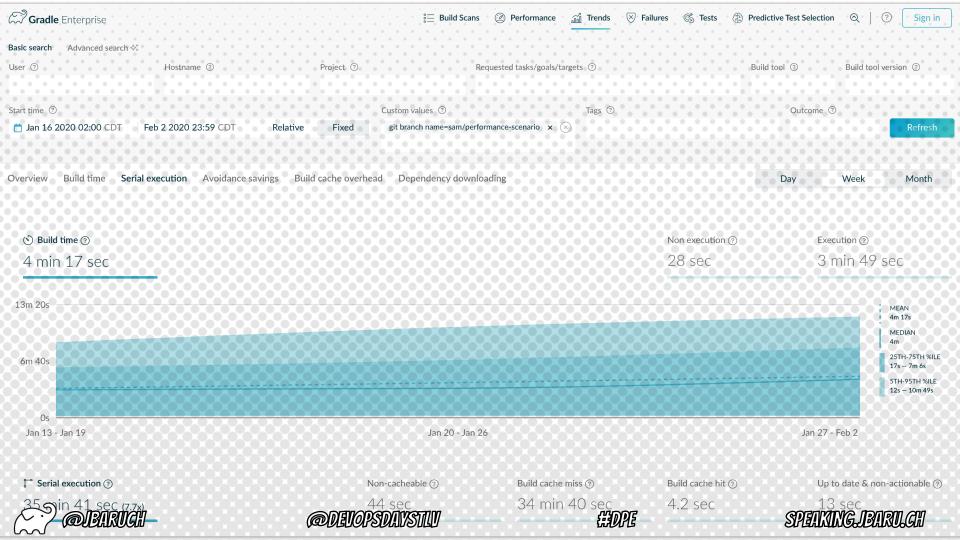
- Relying on shared CI infrastructure
- × Cl infrastructure is not optimized for real-time feedback!
- × Are the agents as fast as they can be?





OBSERVE AND IMPROVE

- Measure local build times across time and environments
- Detect downfacing trends
- × Find root causes and improve



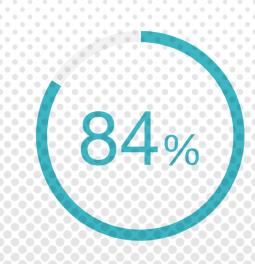
THE GAINS ARE REAL!





DPE Dramatically Improves Productivity

Almost every surveyed IT organization agreed that "Since integrating Developer Productivity Engineering into our development process, the time savings we experienced on build and test cycle times have dramatically improved developer productivity."







DPE Fosters Developer Joy

84% of surveyed users agree that DPE's impact on their toolchain makes their job more enjoyable.









BUT DPE IS NOT MY JOB!





BUT DEVOPS IS NOT MY JOB!





@DEVOPSDAYSTLV

DEVOPS US DPE

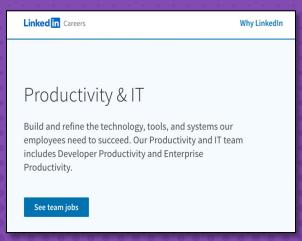
	DEVOPS	DPE
OUTGOME	The product	More productive work
URGENCY	On everybody's minds	Slips away
ORG STRUCTURE	Organizational culture	Specialized team

























FIGHT DOWNSIZING SURVIVOR GUILT WITH DPE

- × It improves morale
- It covers productivity gaps
- * It's the right thing to do for both the employees and the business
- » But it requires an organizational mindset and a dedicated effort!





LEARN MORE AND TRY IT TODAY!

- X Take the Gradle/Maven Speed Challenge!
- ➤ Be DPE Agent of Change!
- × Read the DPE Handbook!
- × Watch the DPE Summit videos!



SPEAKING.JBARU.CH





CEAIND SOCIAL ADS 2



- × @JBARUCH
- × @DEVOPSDAYSTLV
- × SPEAKING_JBARU_CH

