Tales from the DevOps Transformation Trenches yes, you (still) need to start with culture, not containers



Holly Cummins IBM Garage @holly_cummins



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FORUM PAPERS BOOKS DEVOPS ENTERPRISE SUMMIT BLOG

Getting Your Presentation Submission Accepted For DevOps Enterprise Summit In 2017

February 1, 2017 by Gene Kim — 11 Comments

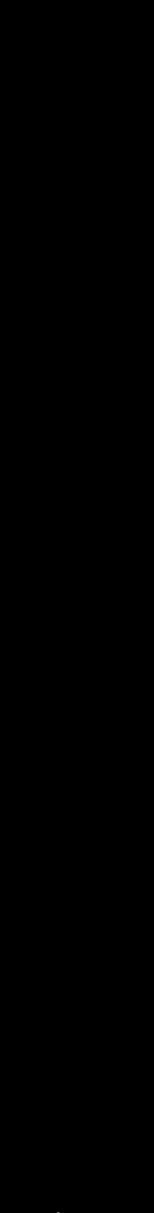


London June 5-6, 2017

Since 2013, we've reviewed nearly one thousand submissions for our Call for Presenters for DevOps Enterprise Summit. In this post, I wanted to share my top advice and tips to maximize your chance of submitting a presentation proposal that gets accepted.









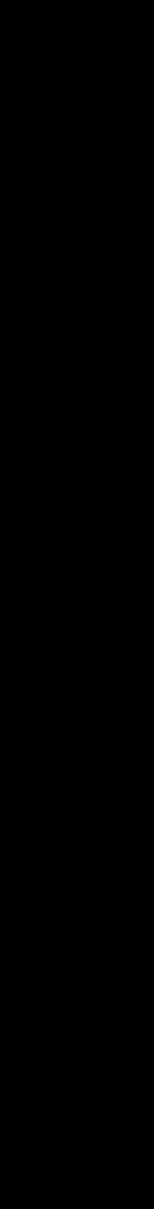
BOOKS FORUM PAPERS DEVOPS ENTERPRISE SUMMIT BLOG

IF YOU'RE A VENDOR OR CONSULTANT

Rest assured, as we joke in the CFP, we have absolutely nothing against vendors or consultants — it's not an exaggeration to say that some of our best friends are vendors and consultants. But in almost all cases, consultants and vendors should submit with their clients. Over the years, we've had some intriguing submissions come in from consultants, and for the most promising ones, I've emailed the submitter, asking to re-submit with their client. Many were not able to do so, and we had to reject the submission.

Since 2013, we've reviewed nearly one thousand submissions for our Call for Presenters for DevOps Enterprise Summit. In this post, I wanted to share my top advice and tips to maximize your chance of submitting a presentation proposal that gets accepted.







BOOKS FORUM PAPERS **DEVOPS ENTERPRISE SUMMIT** BLOG

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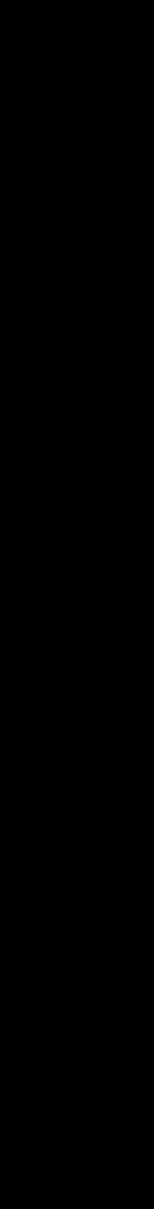
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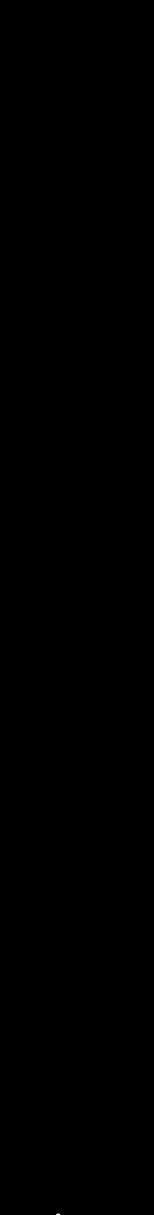
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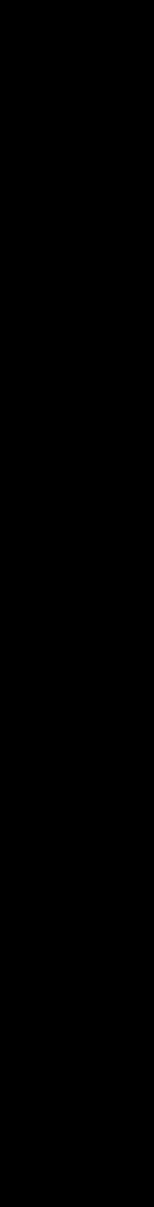


LAST ADVICE: SUBMISSIONS THAT ARE ALMOST ALWAYS REJECTED

However, rest assured that DevOps Enterprise Summit is a conference where everyone is already



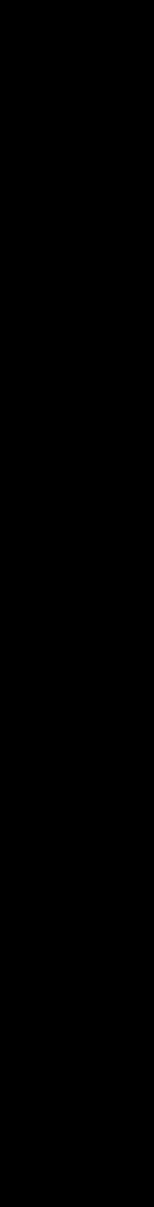
• "Why DevOps Is Important," "Why DevOps Is Needed In The Modern Digital Economy," "Why Culture Is Important For DevOps": these are "why" talks that try to convince people that DevOps is important. convinced DevOps is important. We're all at the conference to learn from people who are pioneering the



LAST ADVICE: SUBMISSIONS THAT ARE ALMOST ALWAYS REJECTED · "Why DevC ALINUJJI ALVAIJKE Important] However, re convinced] • "Why DevOps Is Important," "Why DevOps



- "Why Culture Is Important For DevOps": th
- that DevOns is important However rest as



i'm a consultant.

#IBMGarage

hi.





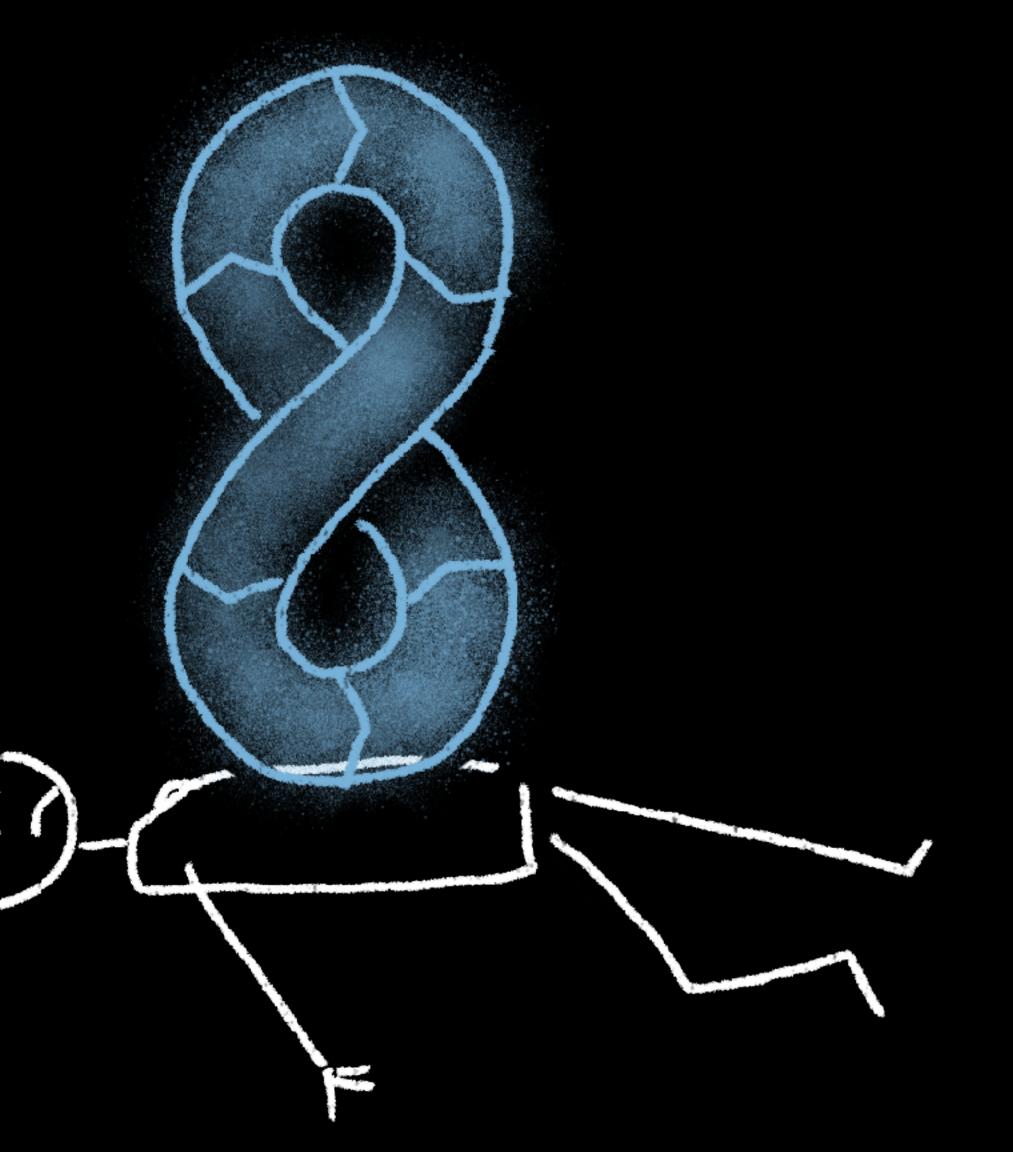


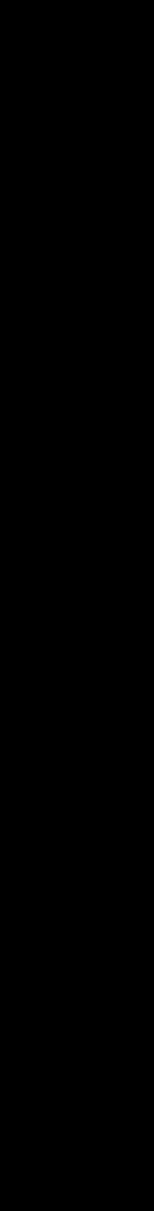


how to fail at devops



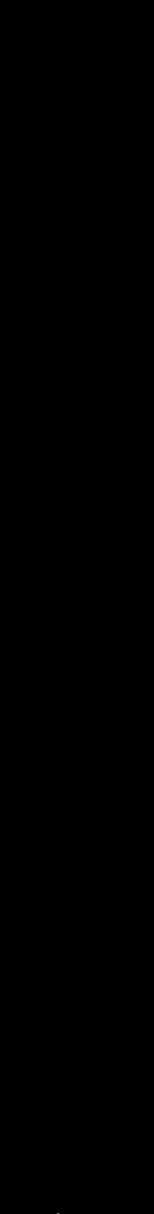






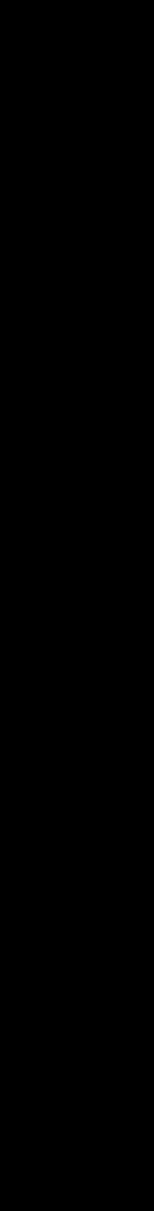
"this is our devops team"

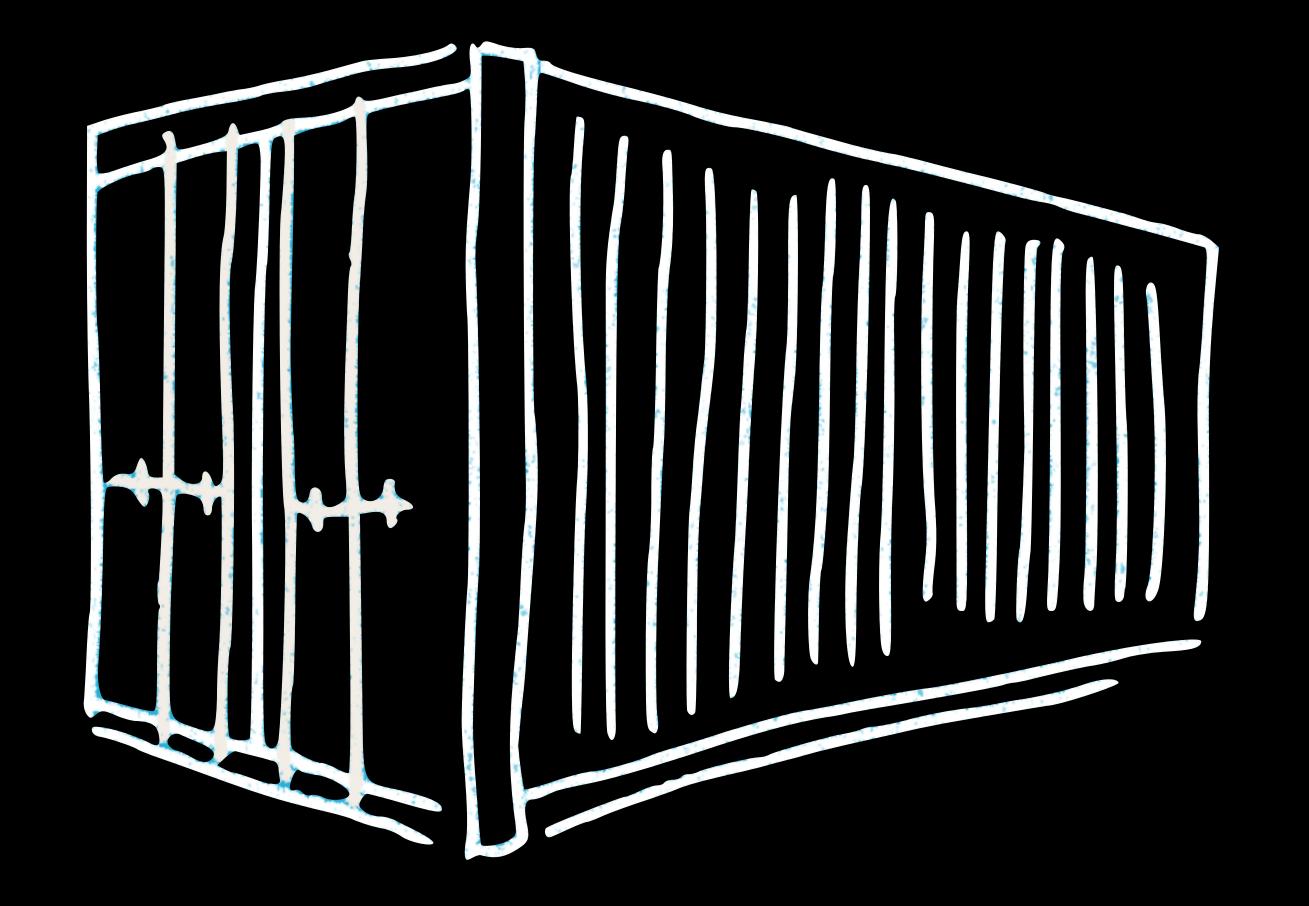




"... last year we called them the build team."

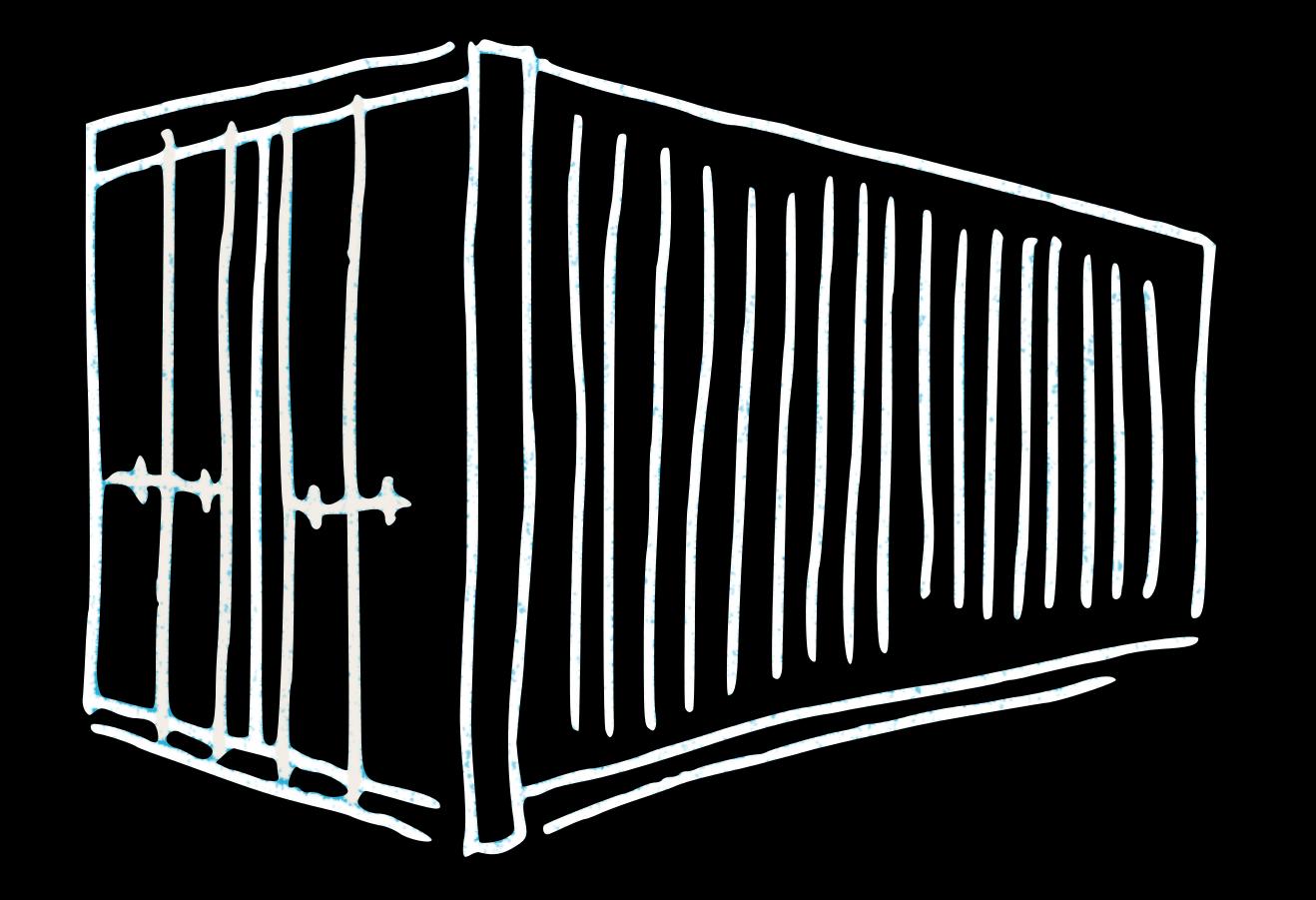






containers will not fix your broken devops culture



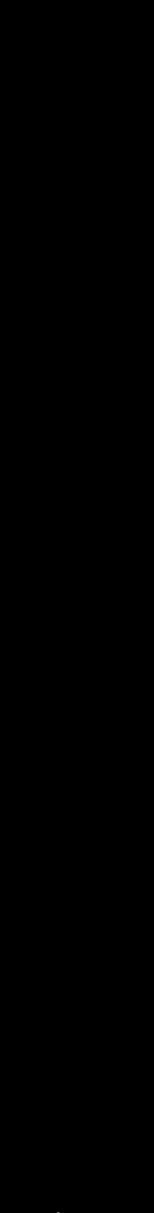


even kubernetes will not fix your broken devops culture



"we're going too slowly. we need to get rid of COBOL and make microservices!"

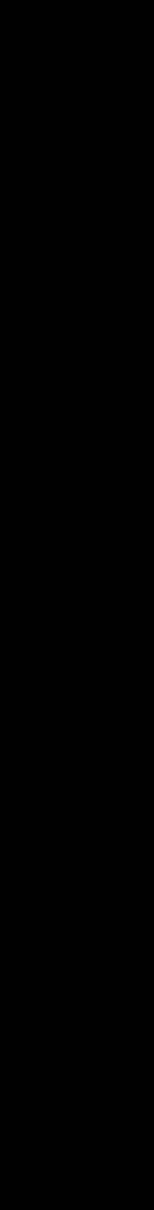


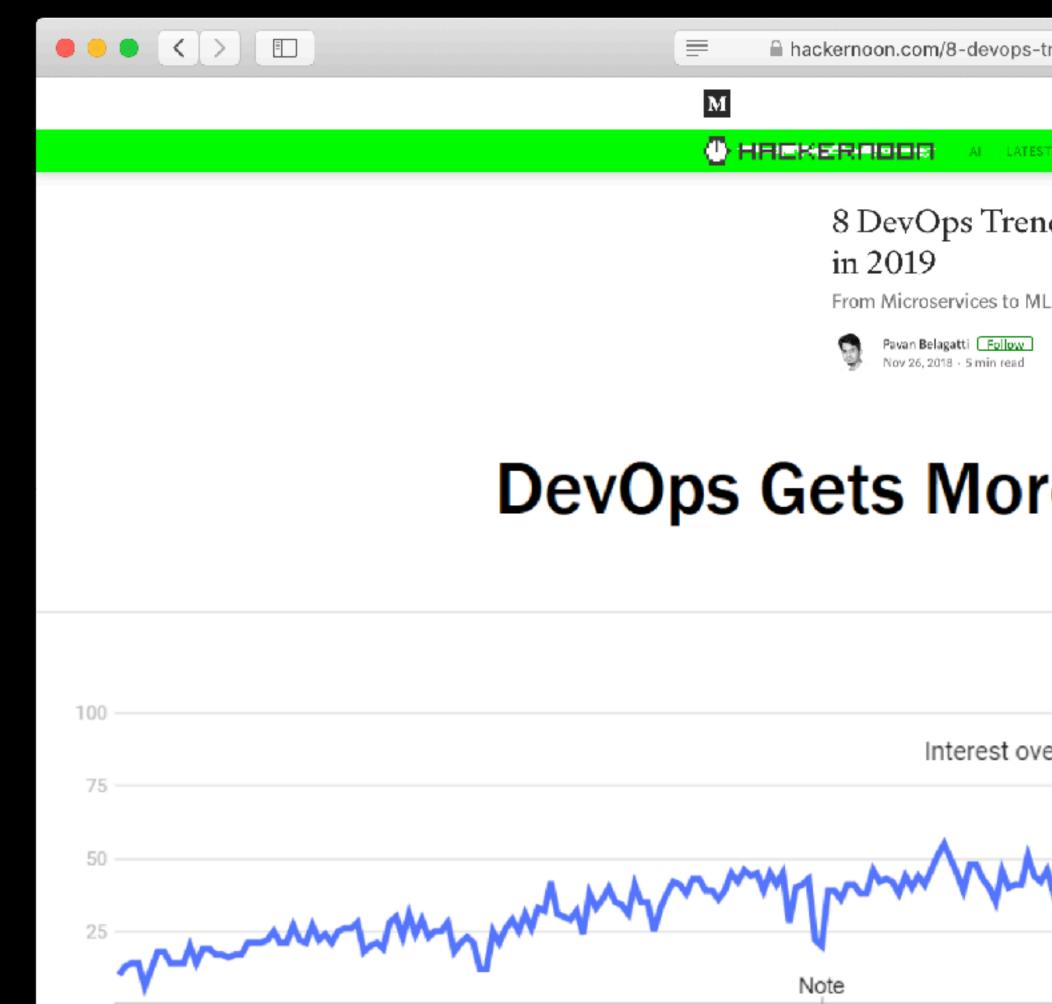


"we're going too slowly. we need to get rid of COBOL and make microservices!"

"... but our release board only meets twice a year."







Nov 24, 20 ...

May 31, 2015

Note



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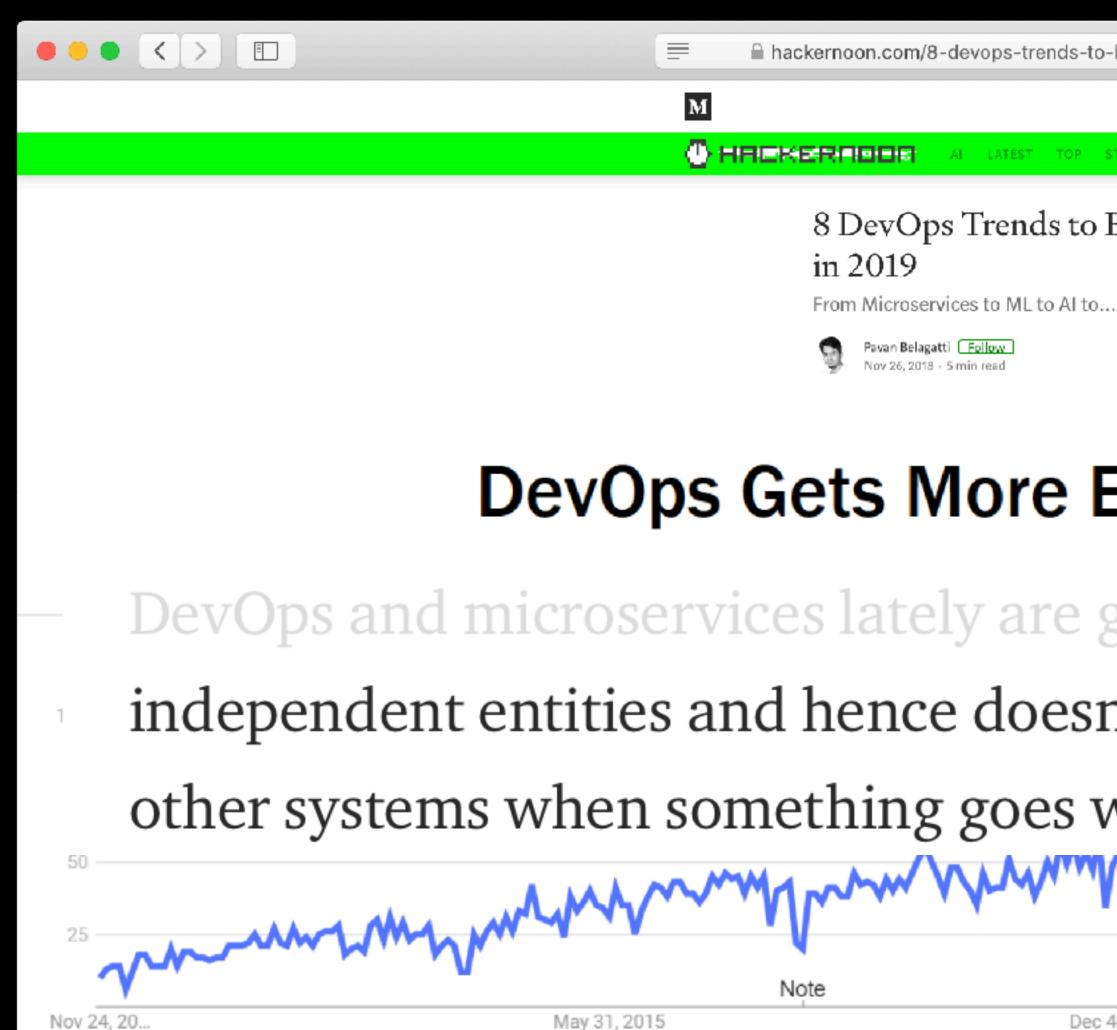
Dec 4, 2016

Jun 10, 2018

2019

https://hackernoon.com/8-devops-trends-to-be-aware-of-in-2019-b4232ac8f351







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DevOps Gets More Exciting in 2019.

DevOps and microservices lately are going hand in hand. Microservices are independent entities and hence doesn't create any dependencies and break other systems when something goes wrong. Microservices architecture helps

Dec 4, 2016

Jun 10, 2018

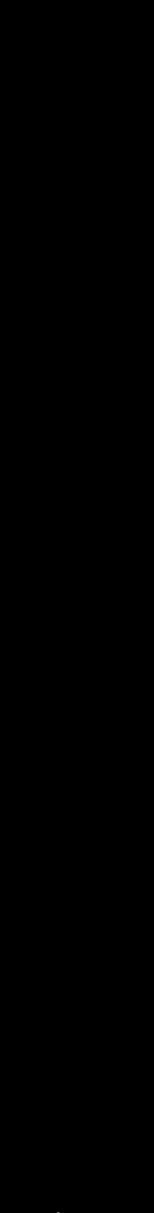
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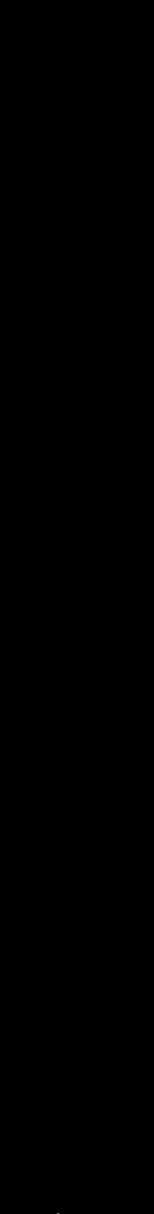
"every time we change code, something breaks"





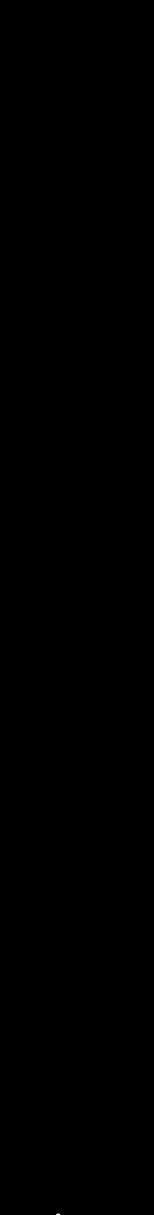
distributed monolith





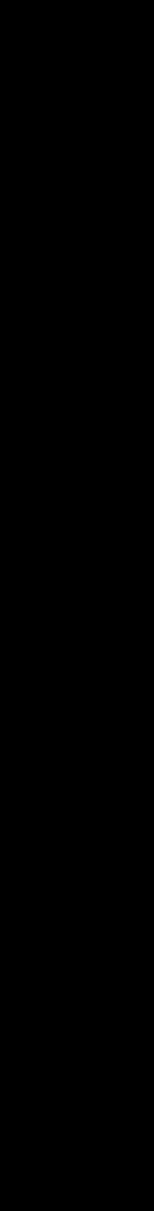


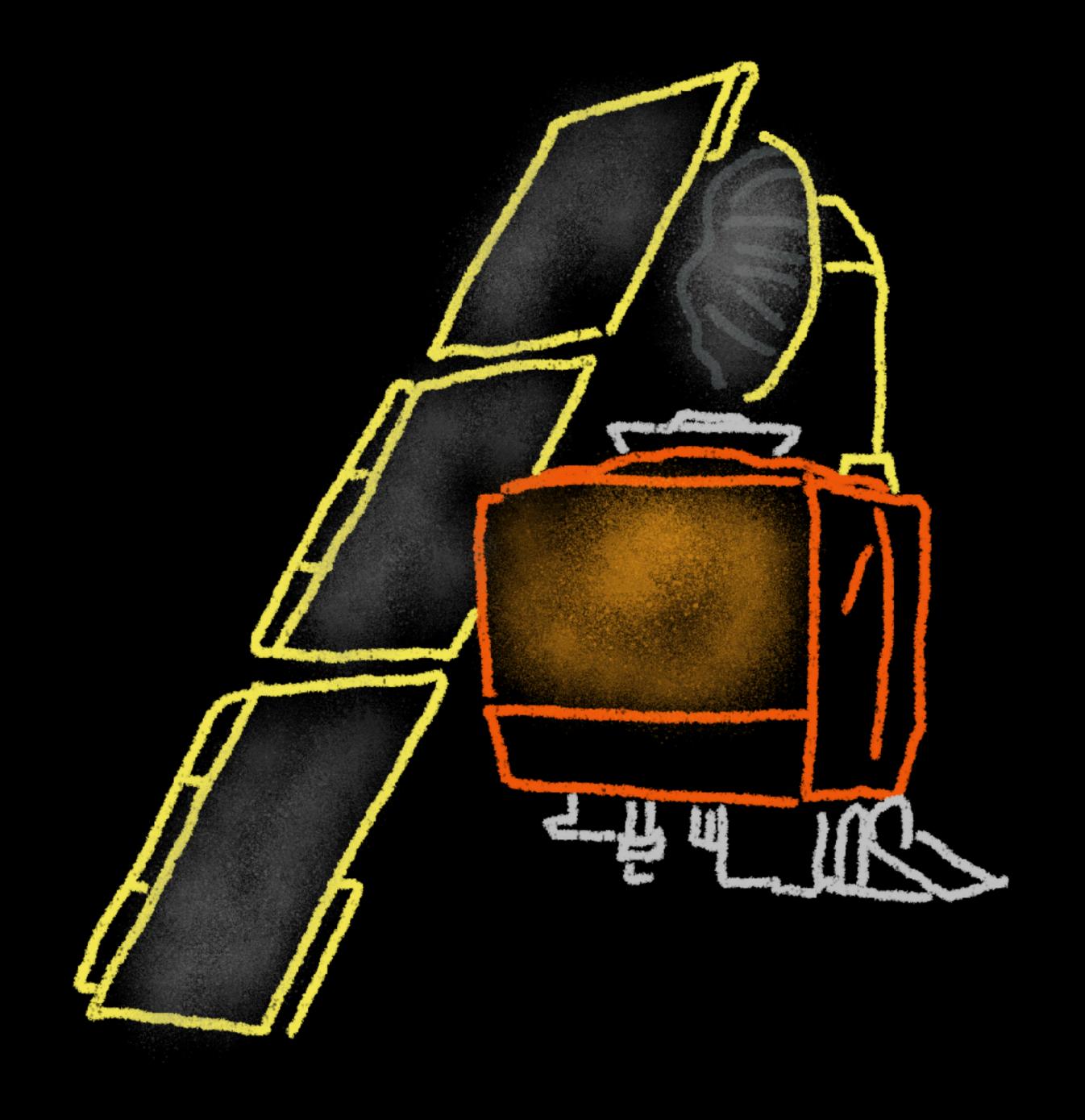
distributed monolith but without compile-time checking



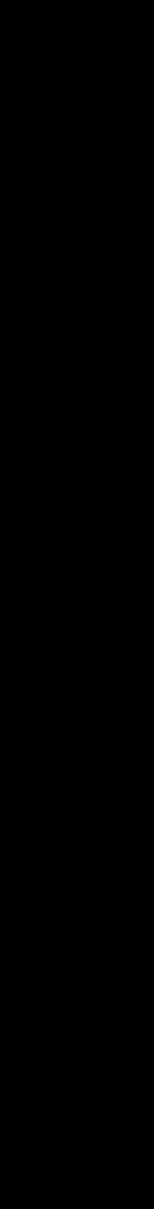


just because a system runs across 6 containers doesn't mean it's decoupled



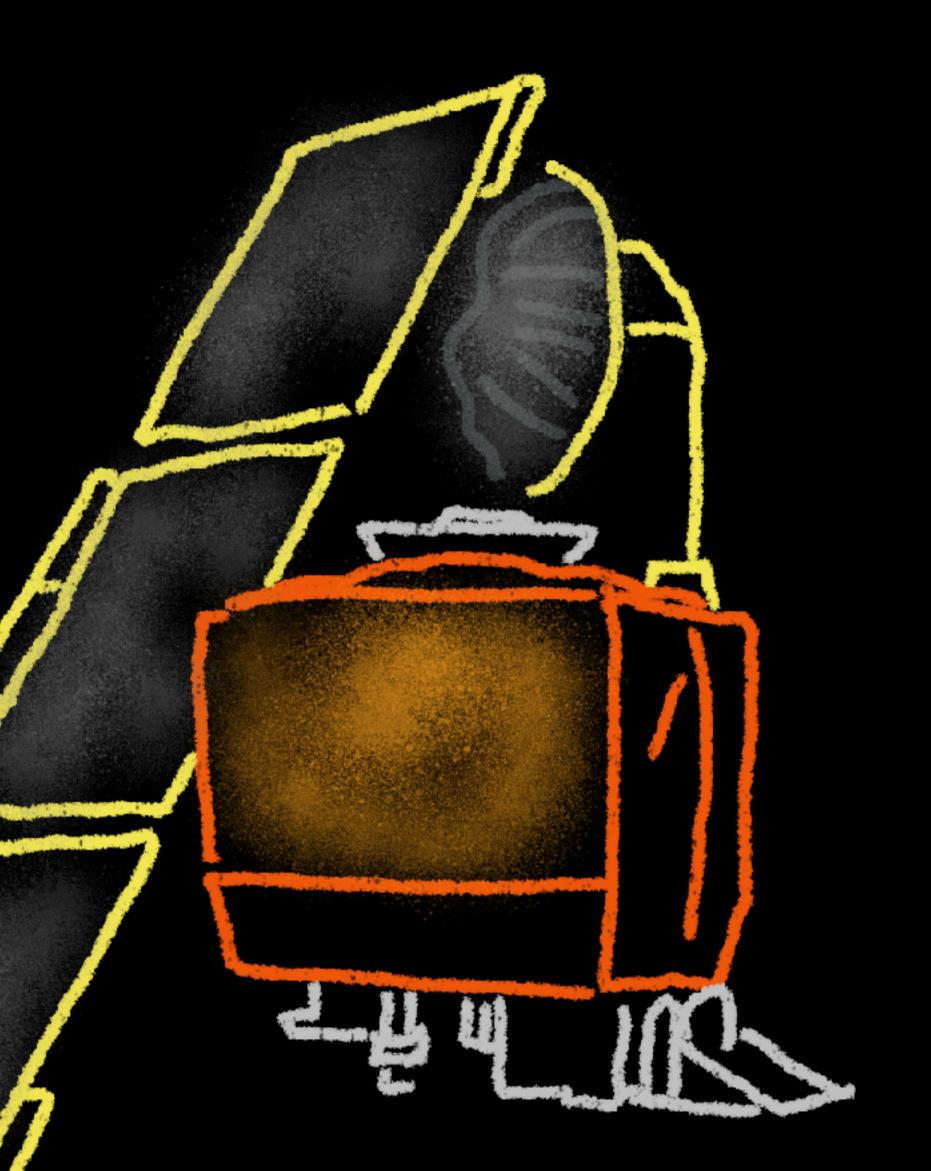


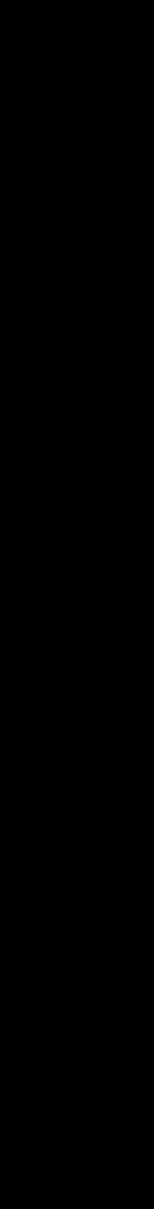


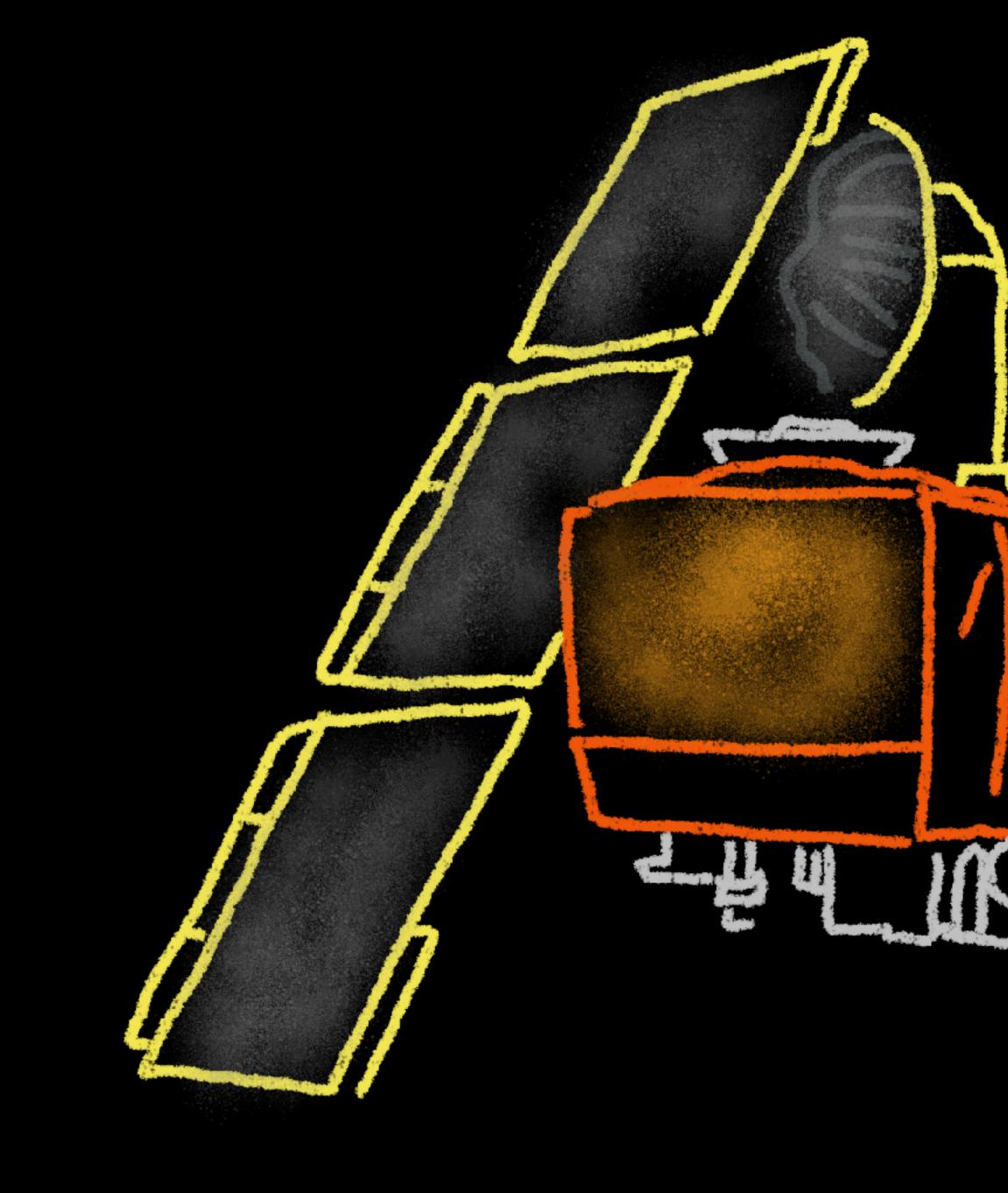


mars climate explorer









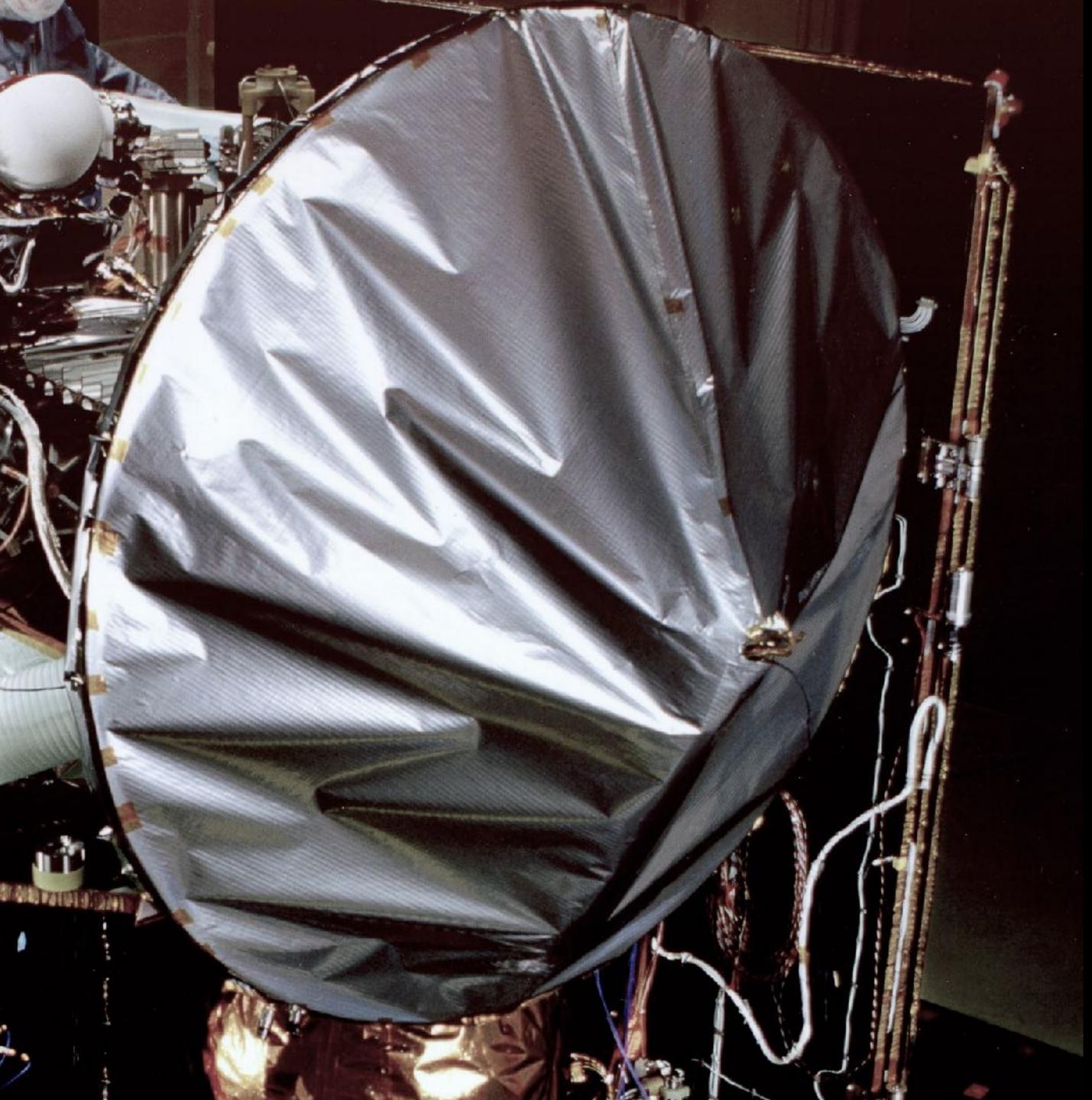


for clarity: this wasn't a client of mine.

other people's trenches

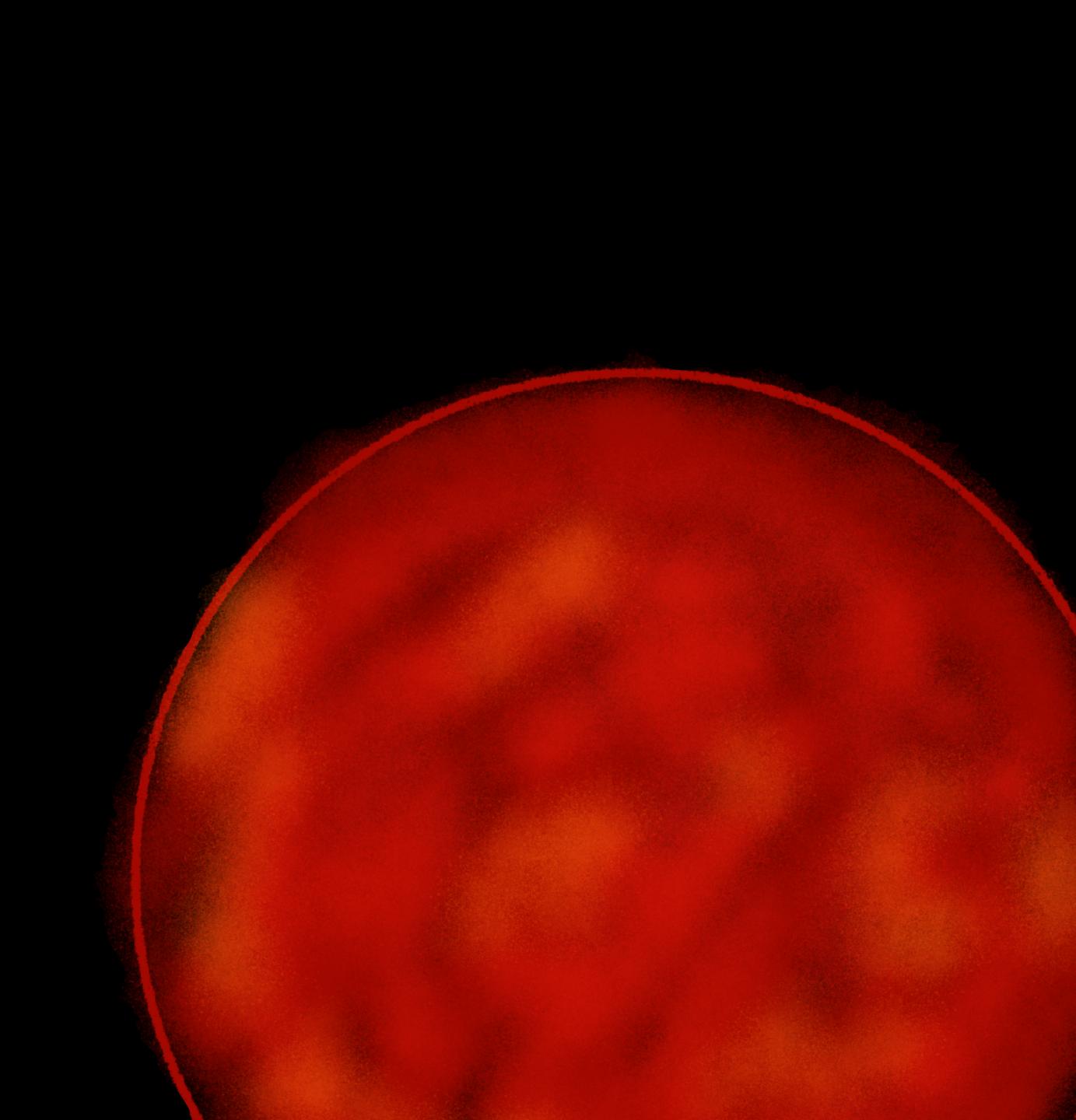


Courtesy NASA/ JPL-Caltech



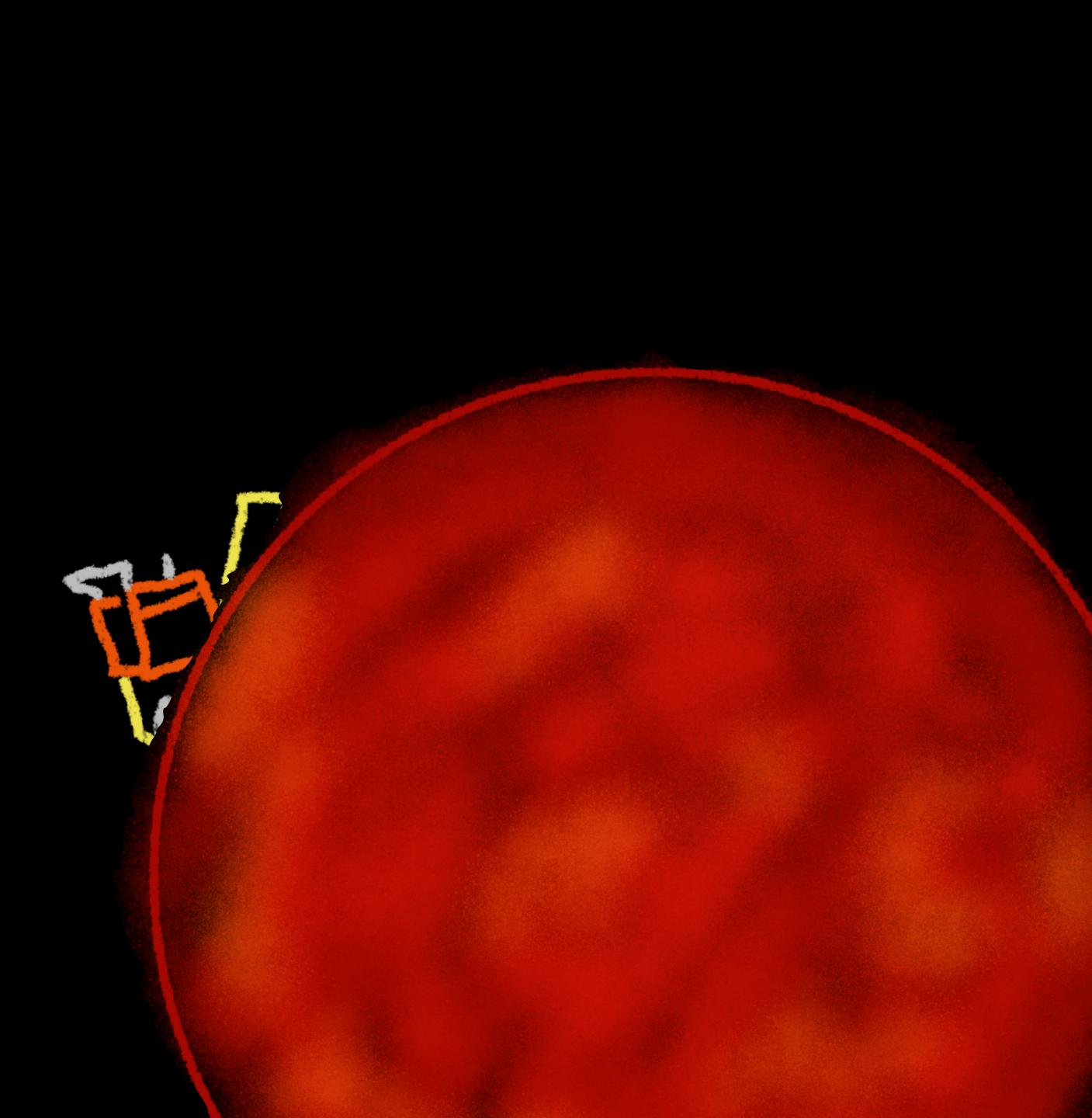


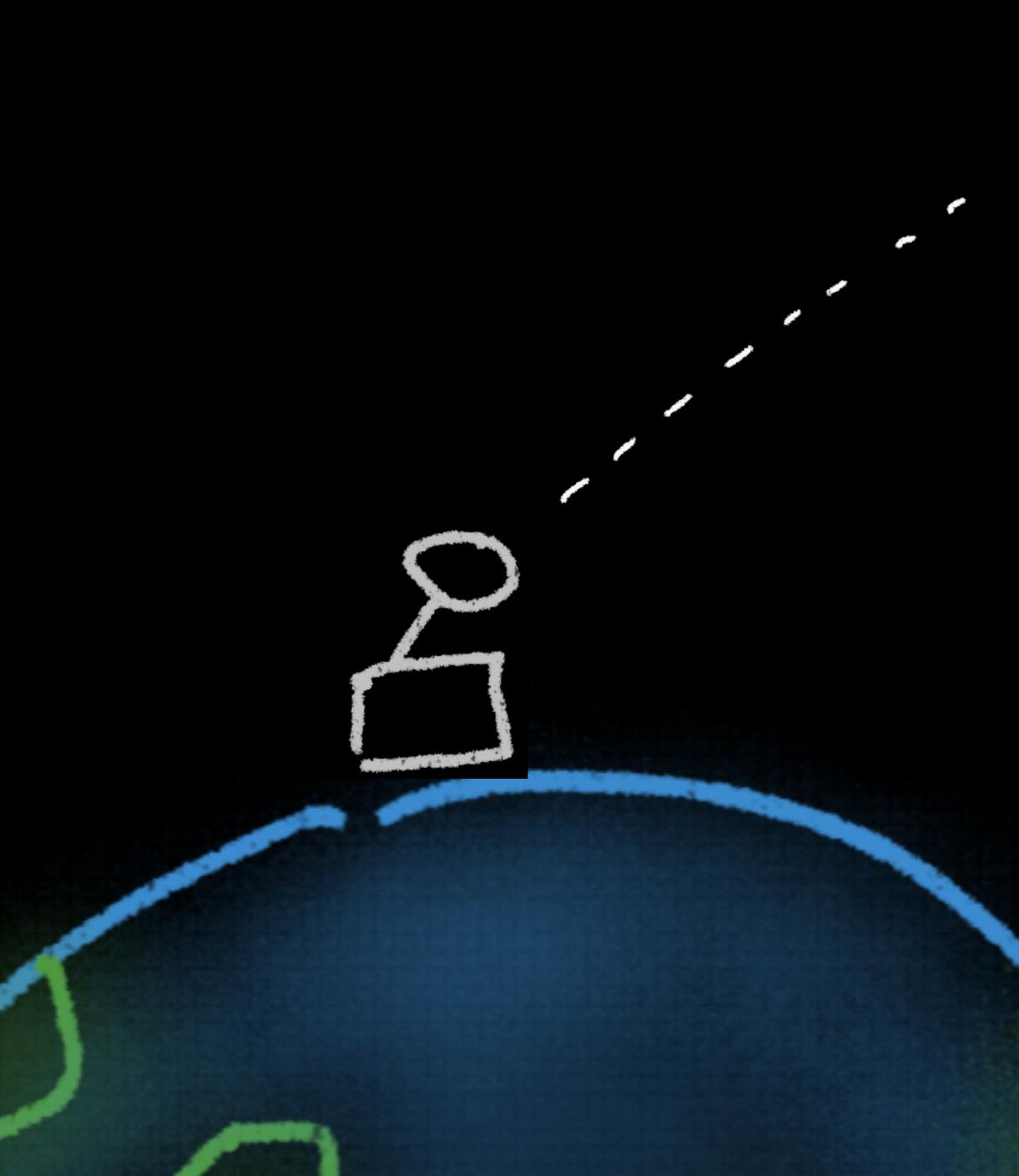




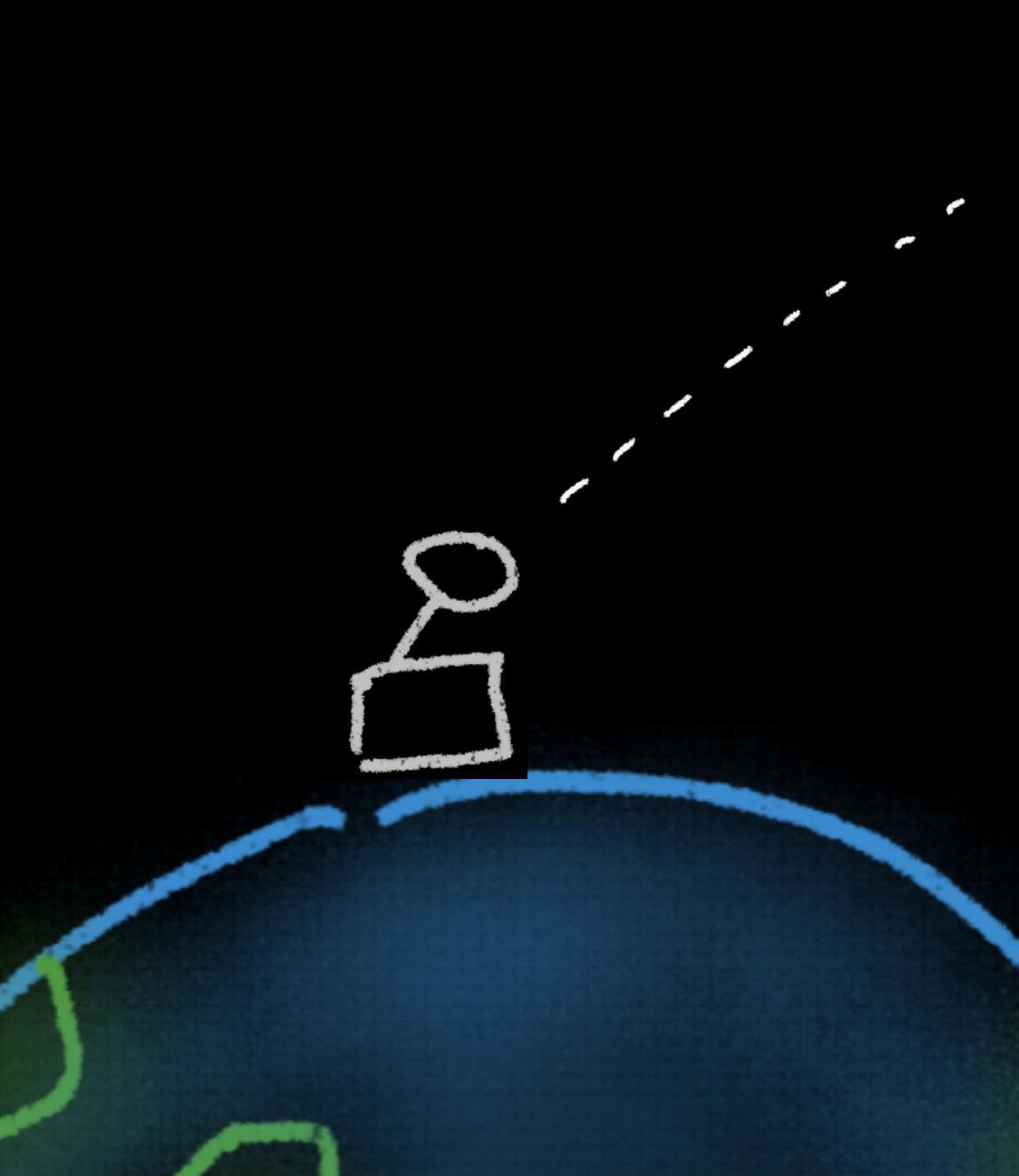








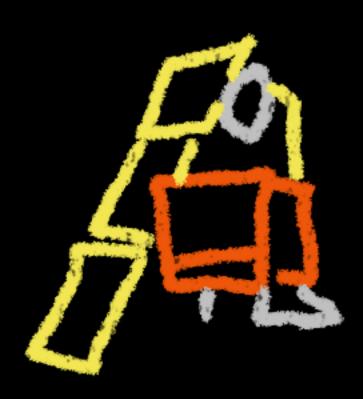






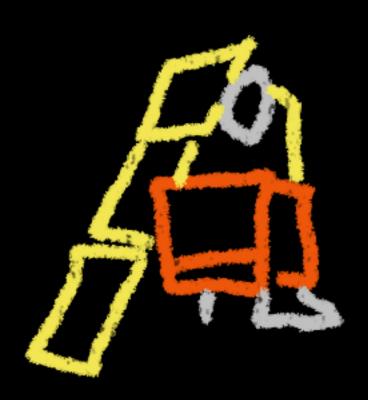
metric units

imperial units



metric units

imperial units



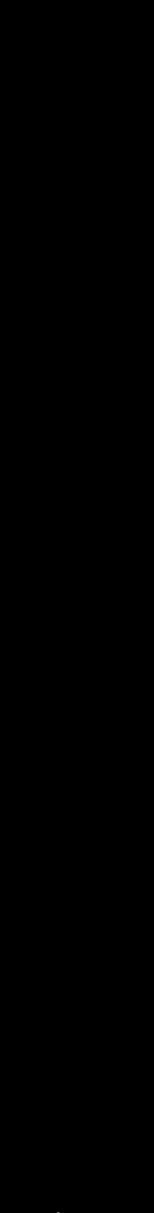
metric units

distributing did not help



microservices **need** consumer-driven contract tests





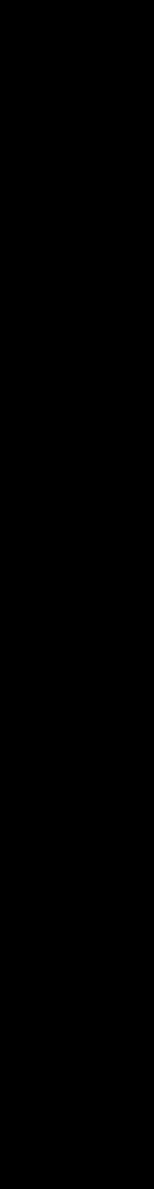






\$370 million loss

https://en.wikipedia.org/wiki/Cluster_(spacecraft)



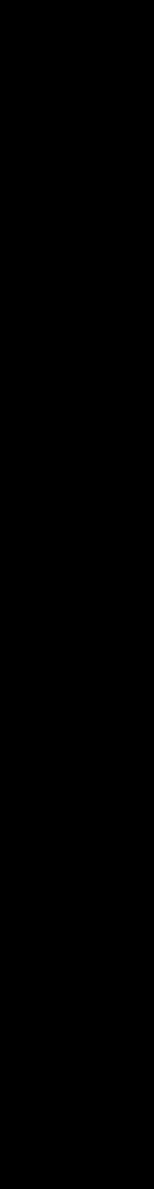
Cluster + Ariane 5



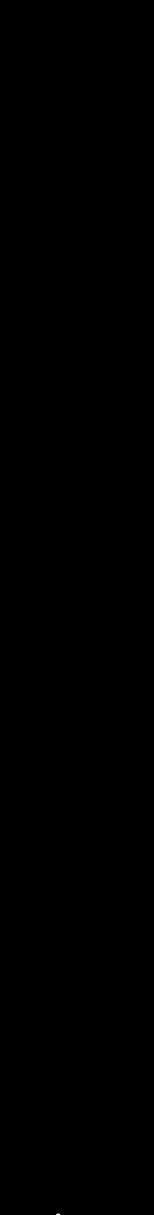


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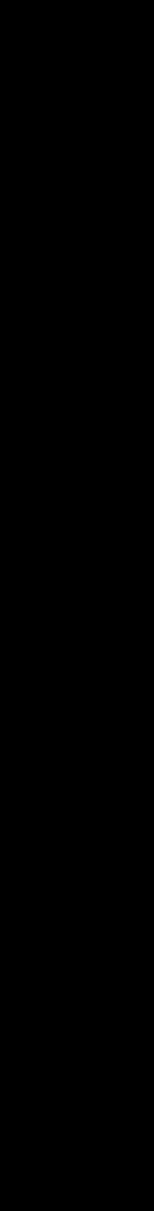






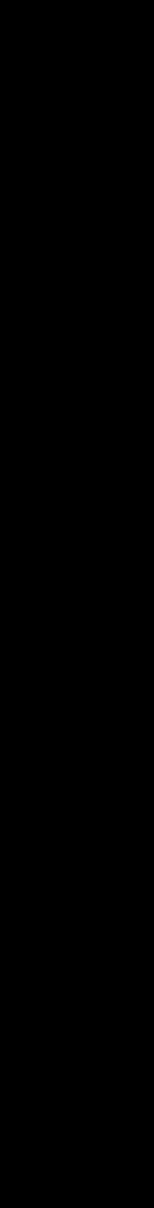
they tested it ...





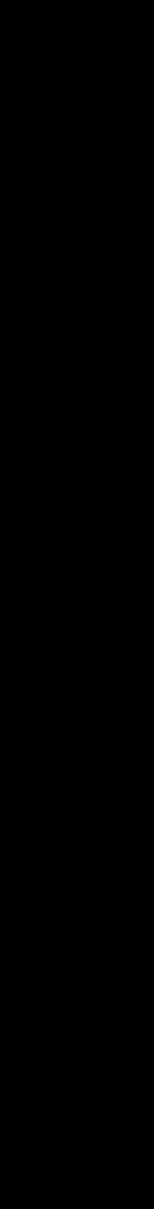
they tested it ... but stubbed out one component.





they tested it ... but stubbed out one component. that component was the one that broke.





"Had we done end-to-end testing, we believe this error would have been caught."

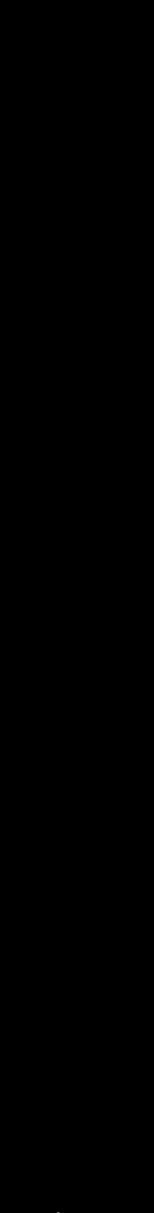


Arthur Stephenson Chief Investigator



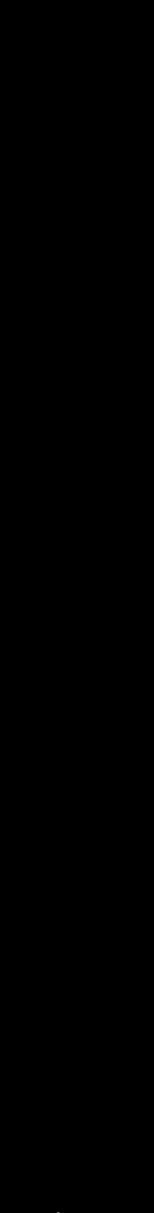
microservices **need** automated integration tests





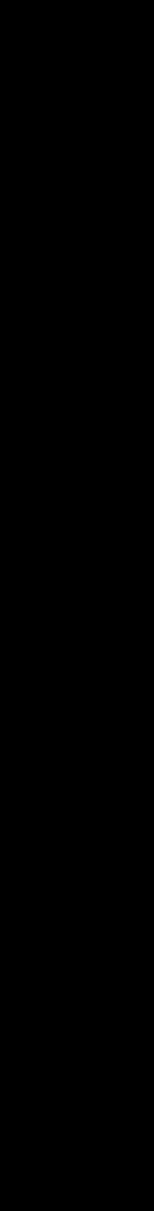


"we have a CI/CD"



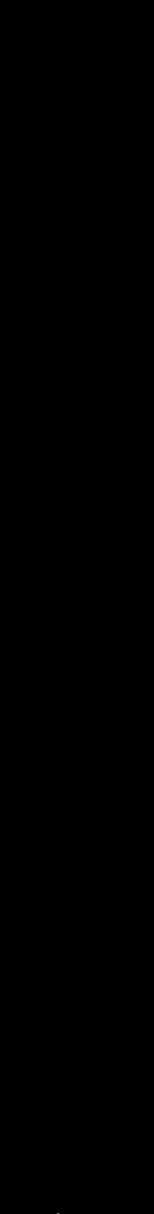
CI/CD is something you **do**, it's not a tool you buy





"i'll merge my branch into our CI next week"

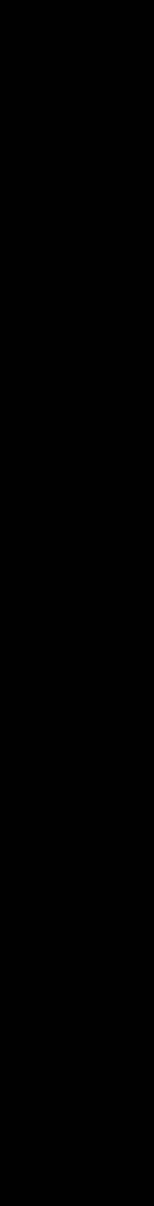




"CI/CD CI/CD CI/CD we release every six months

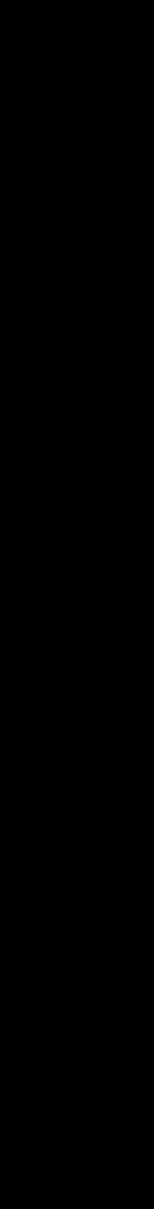
CI/CD "



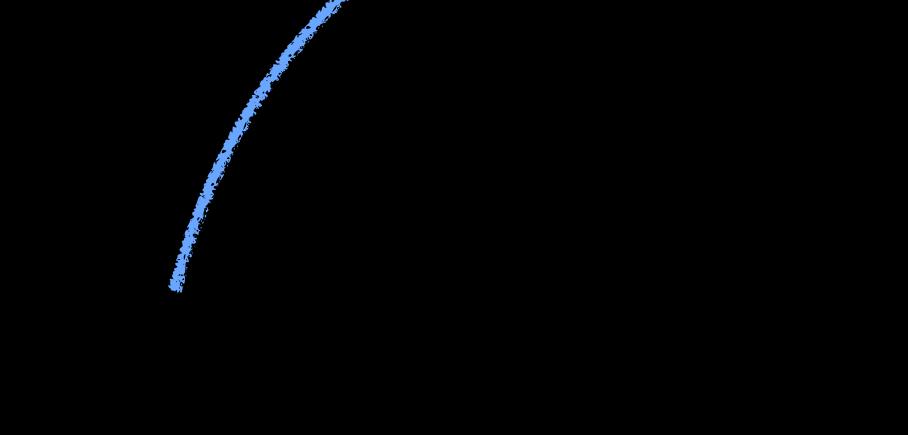


CONTINUOUS. I don't think that word means what you think it means.

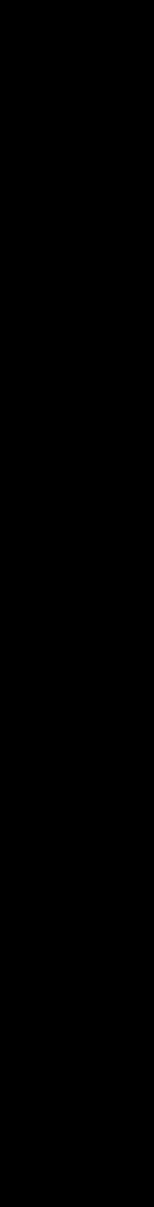


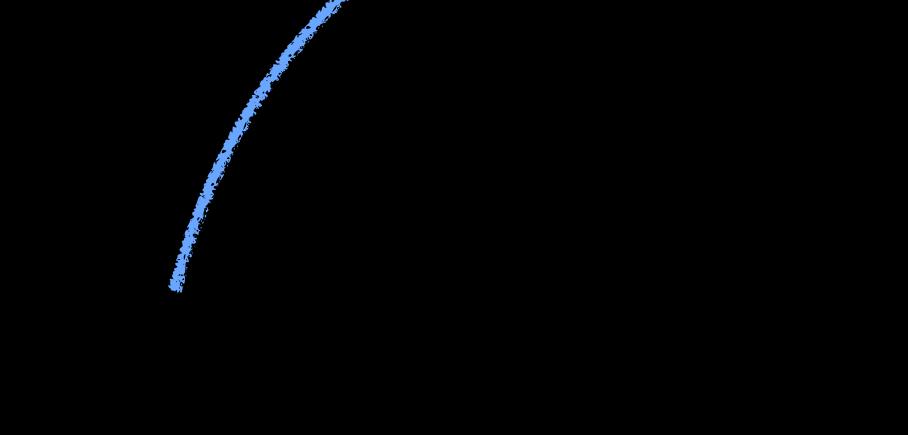


how often should you push to master?

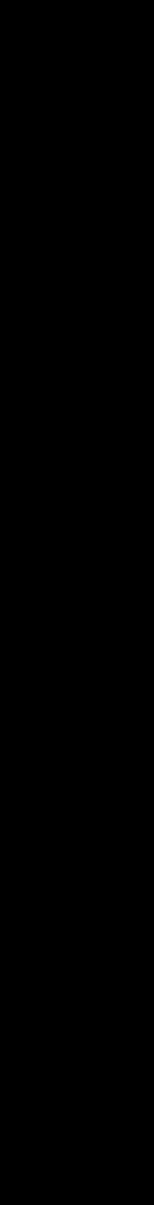






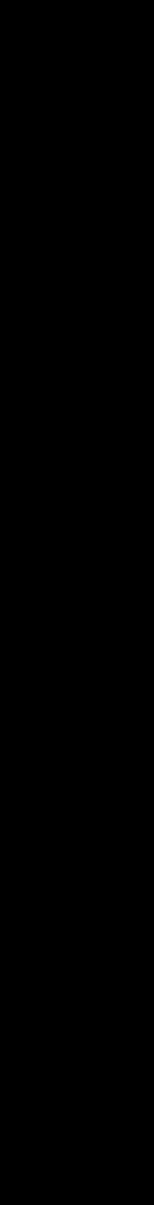






every character

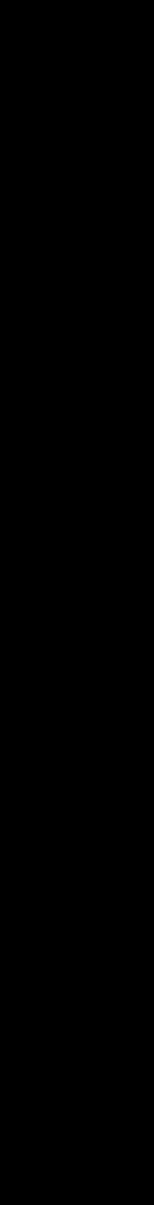




every character

actually continuous ... but stupid



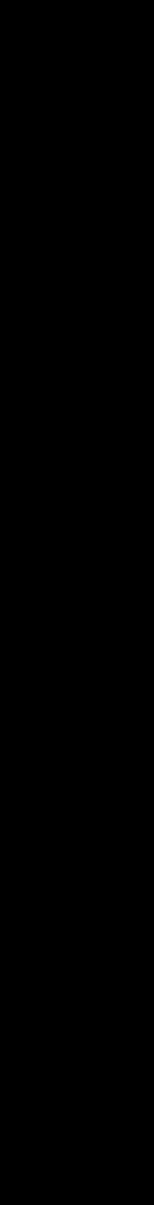


every character

every commit (several times an hour)

actually continuous ... but stupid





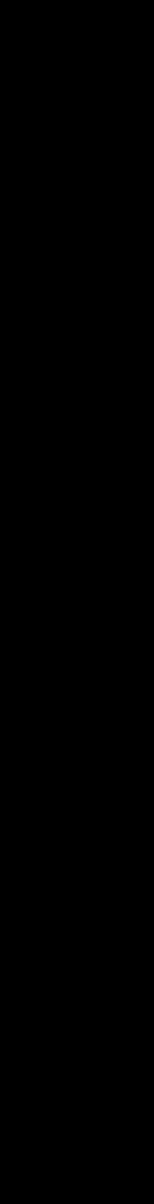
every few commits (several times a day)

every character

every commit (several times an hour)

actually continuous ... but stupid





every few commits (several times a day)

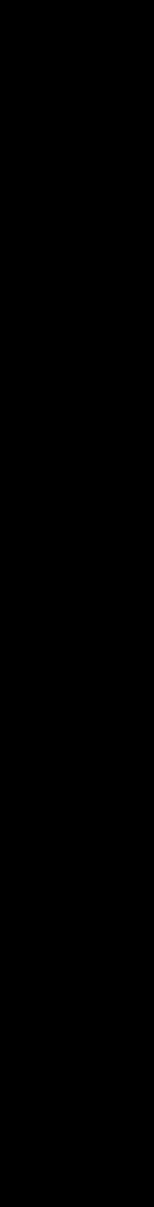
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actually continuous ... but stupid



once a day



every few commits (several times a day)

every character

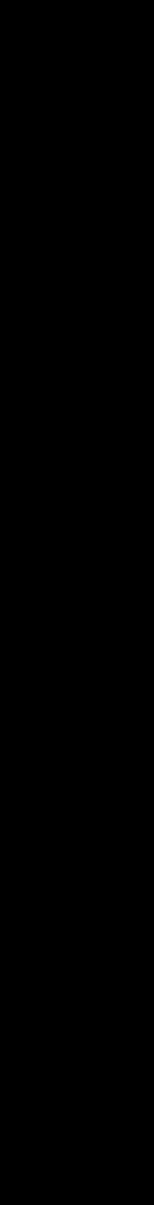
every commit (several times an hour)

actually continuous ... but stupid



once a day

once a week



every few commits (several times a day)

every character

every commit (several times an hour)

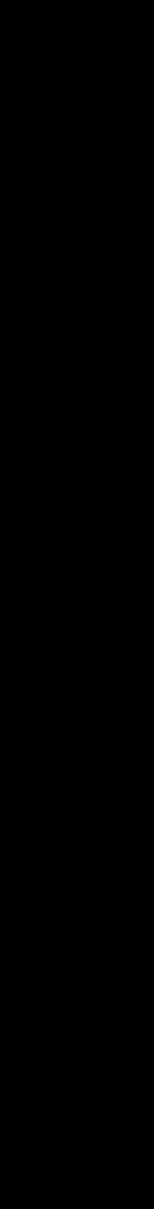
actually continuous ... but stupid



once a day

once a week

once a month



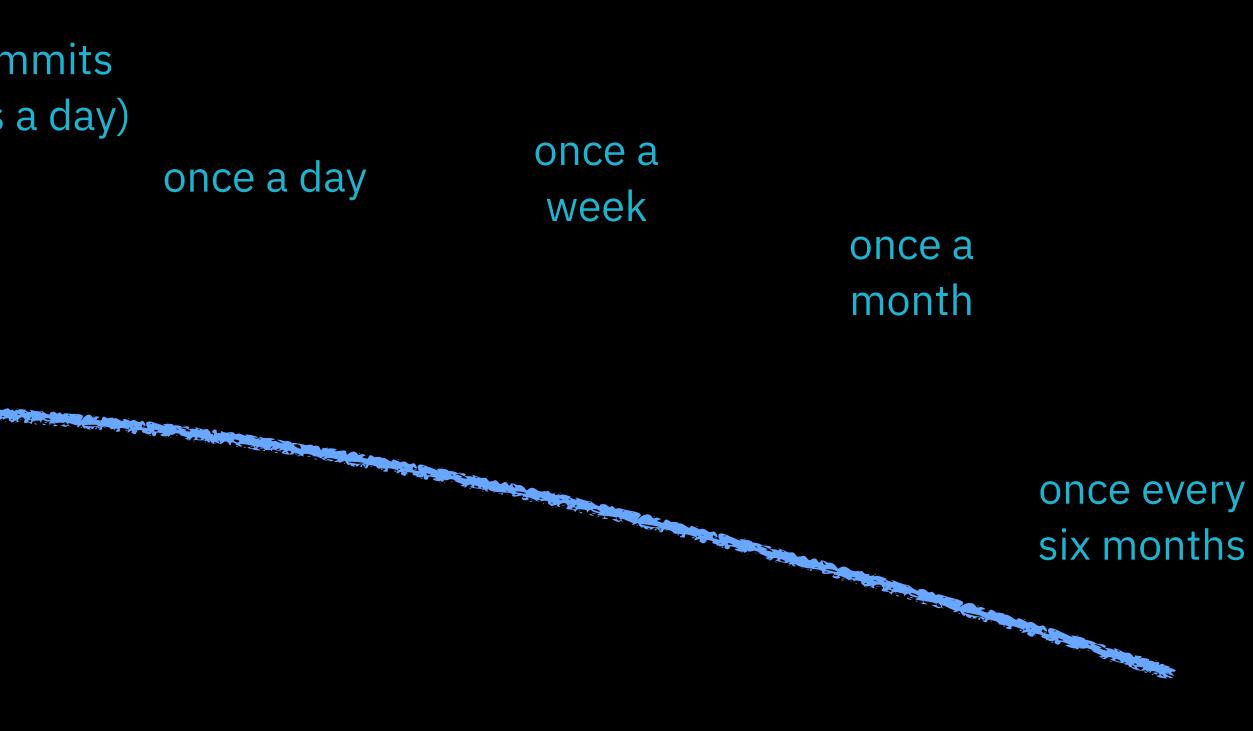
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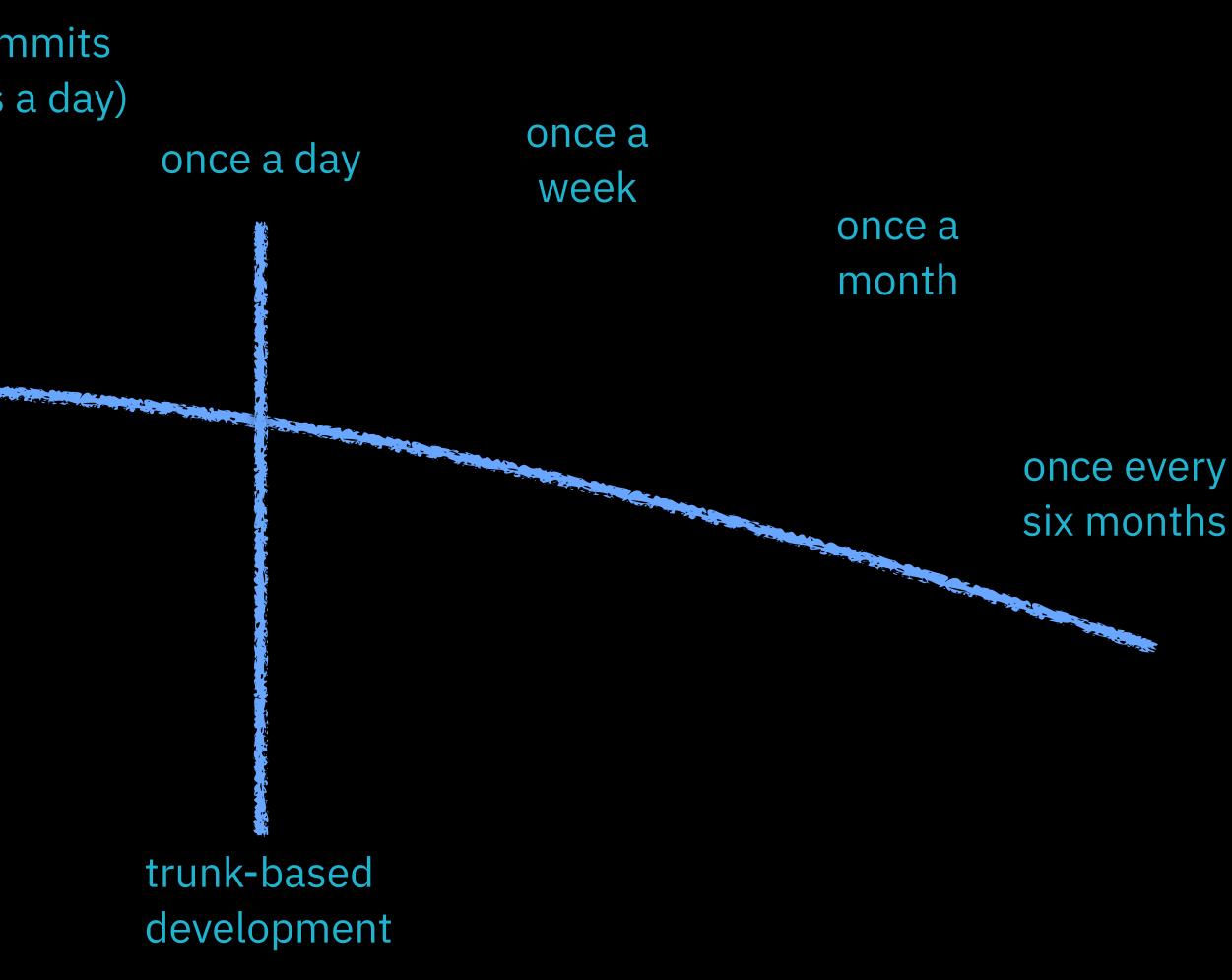
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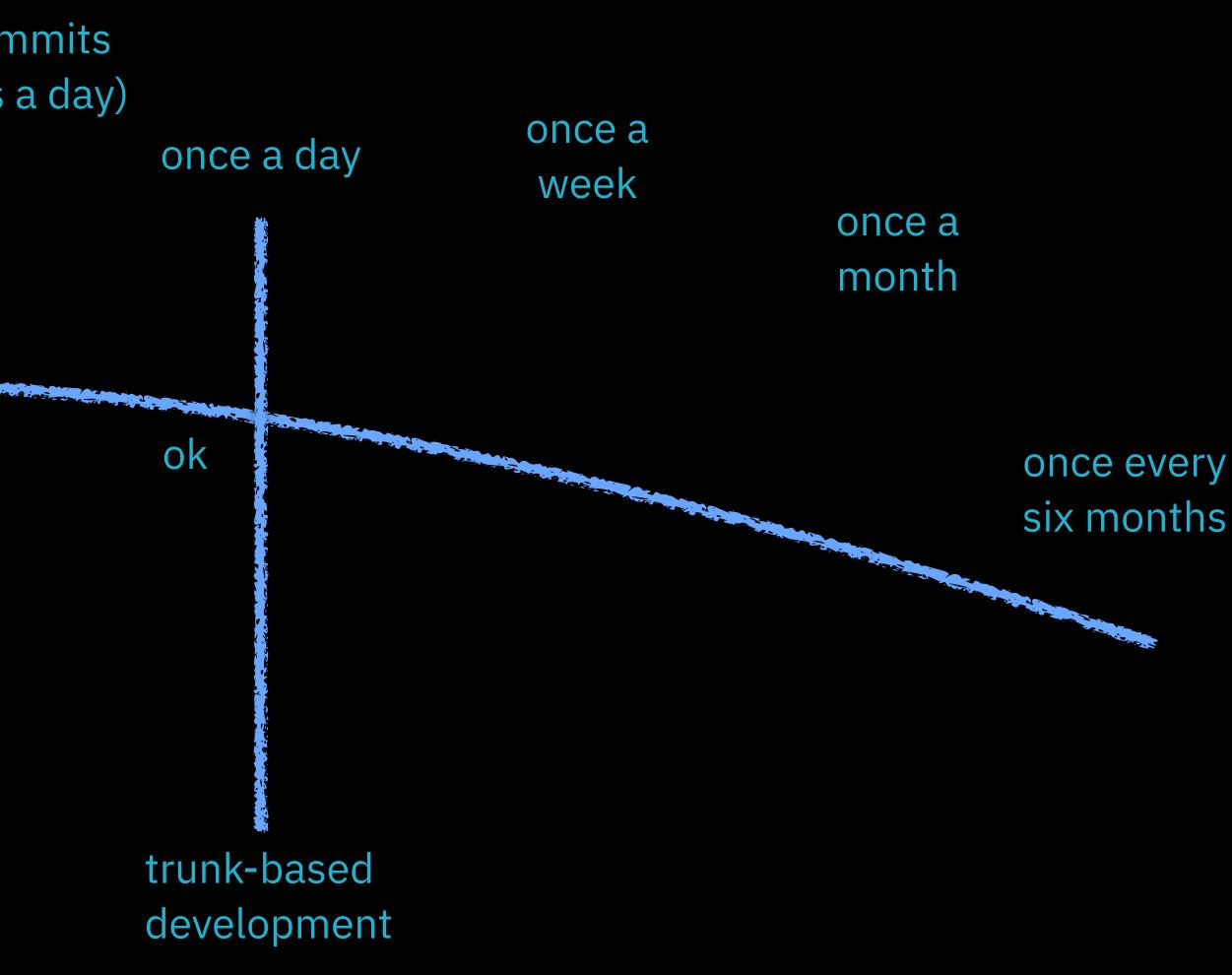
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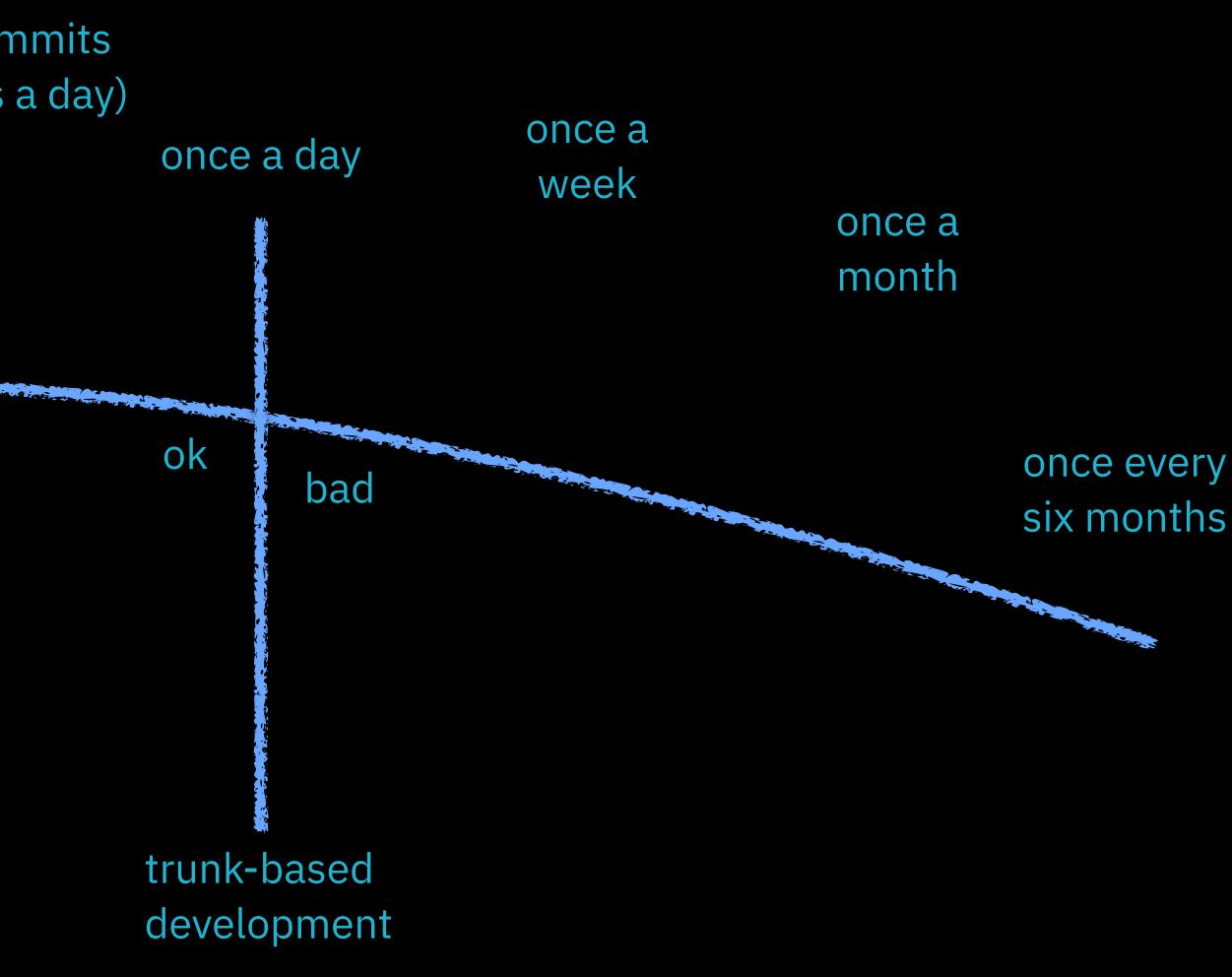
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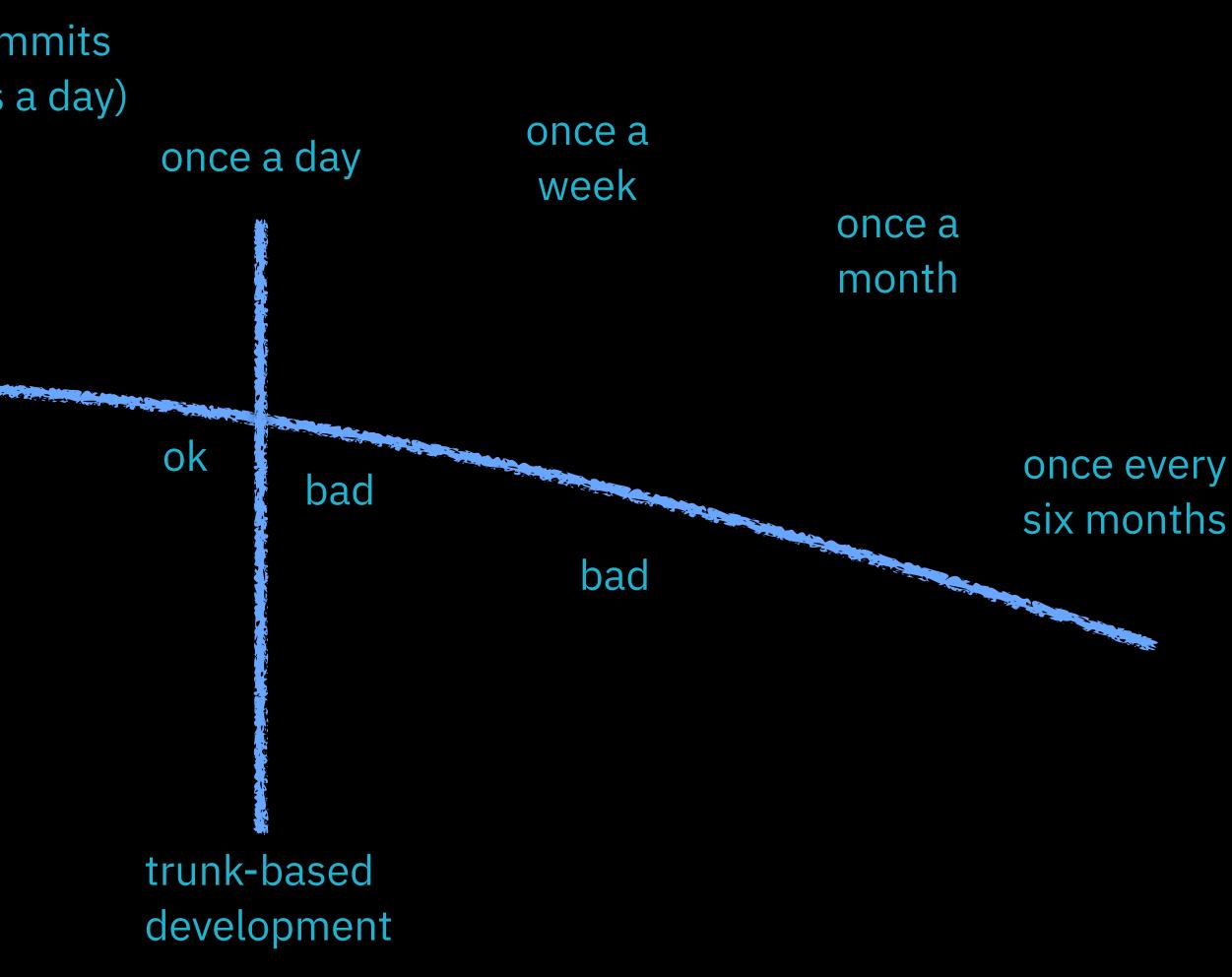
every few commits (several times a day)

every character

every commit (several times an hour)

actually continuous ... but stupid





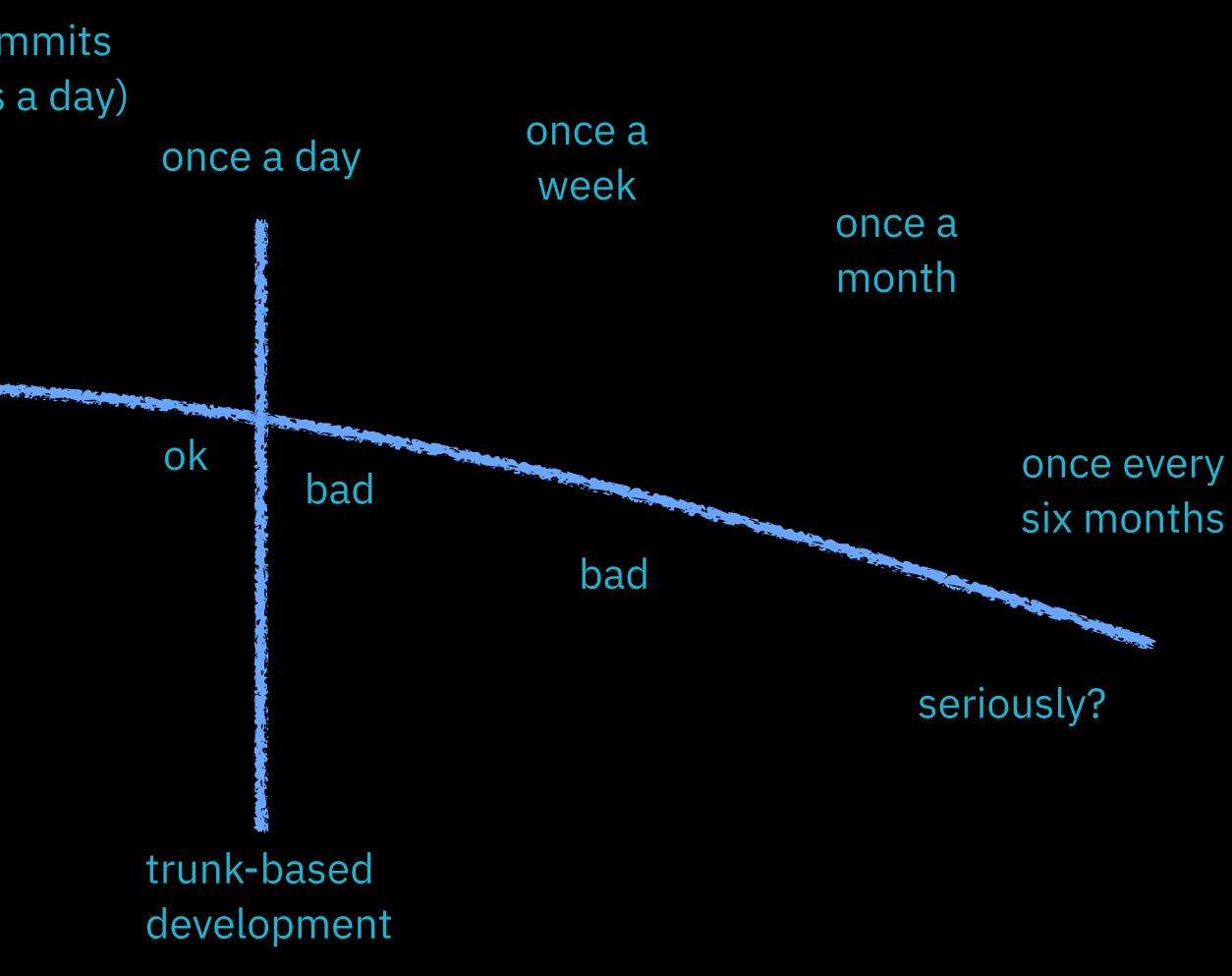
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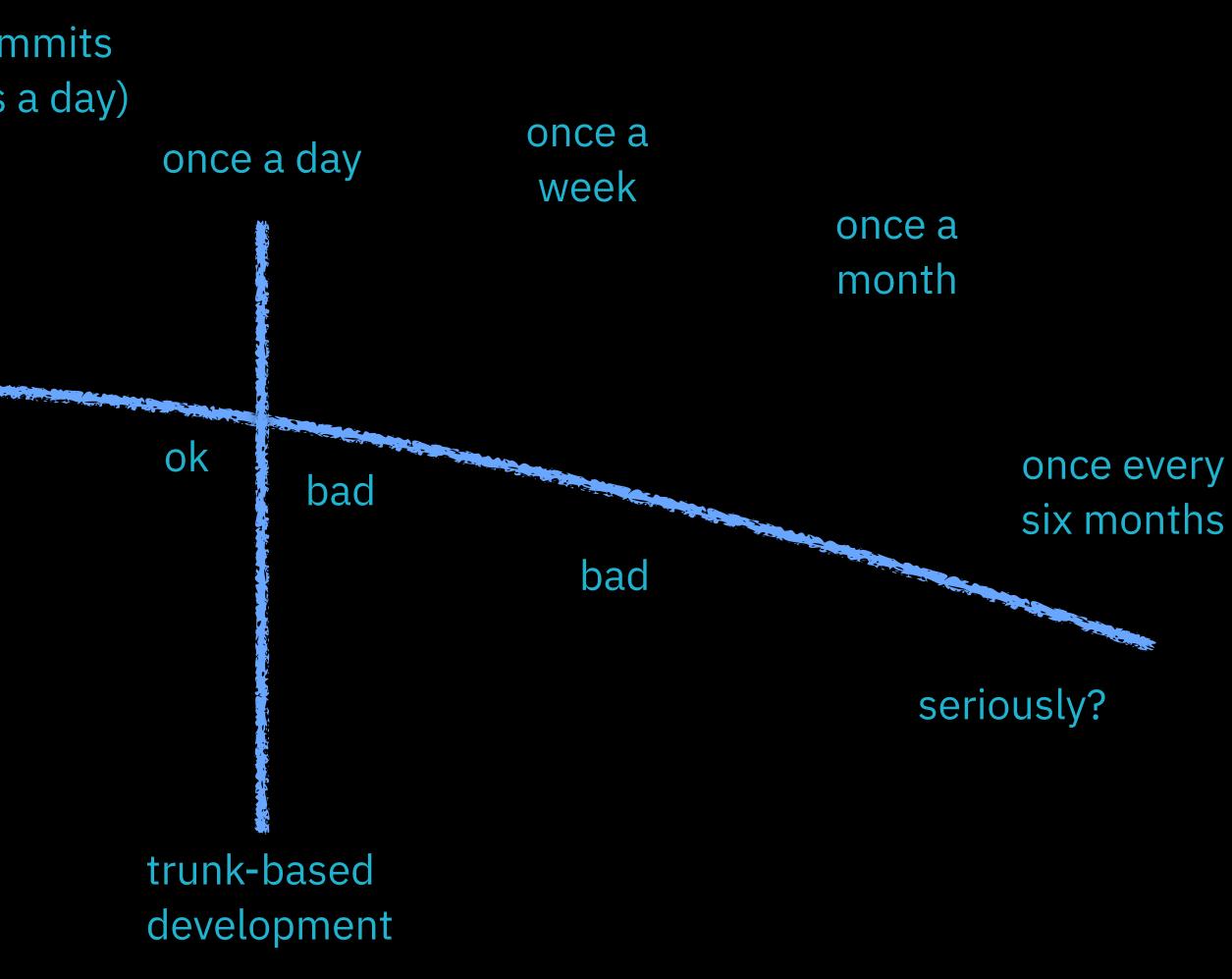
every character

every commit (several times an hour)

my favourite

actually continuous ... but stupid







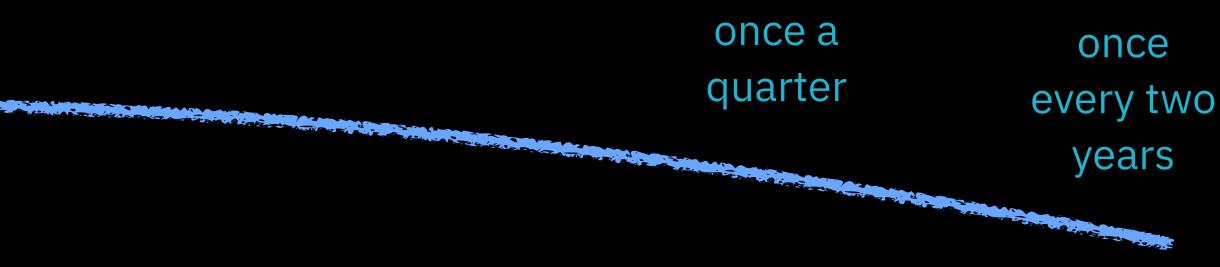
how often should you release?

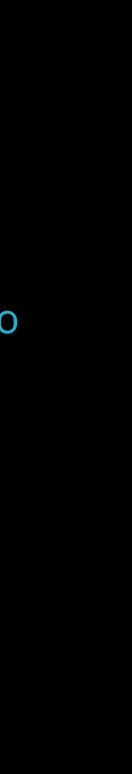
every push (many times a day)

every user story



once a sprint every epic



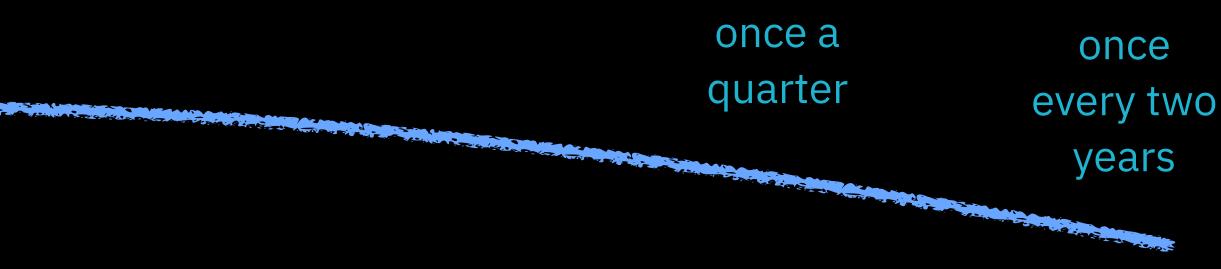


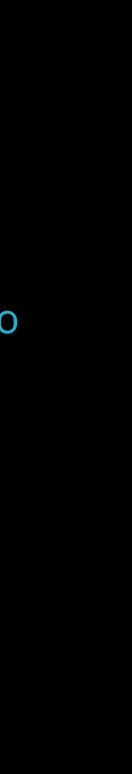
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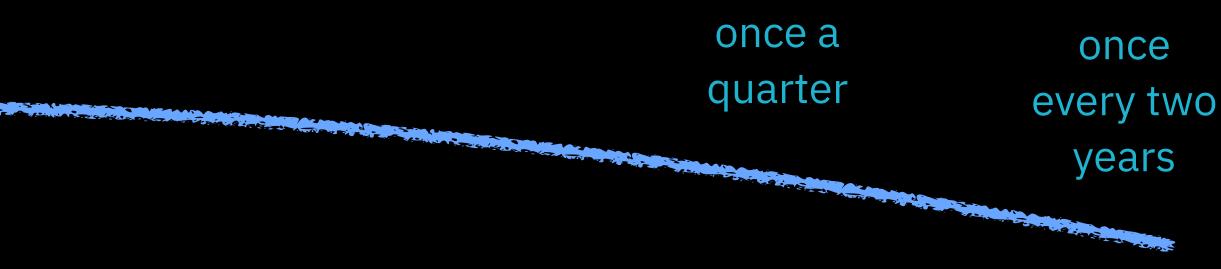
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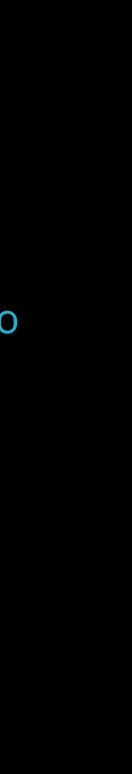
every user story

(need a good handle on feature flags)



every epic once a sprint





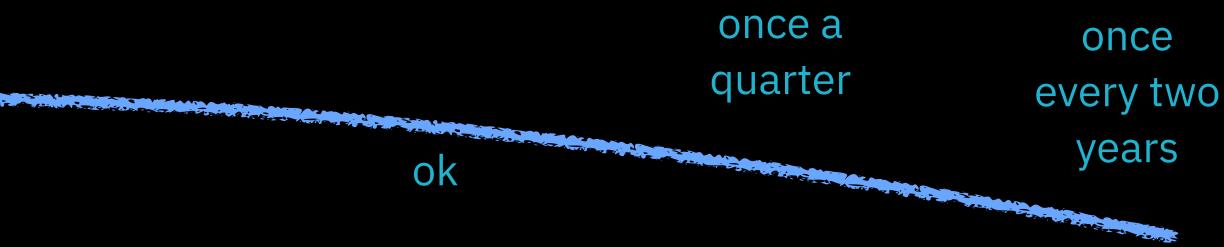
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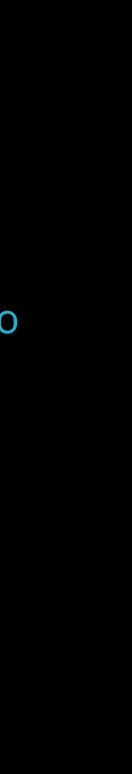
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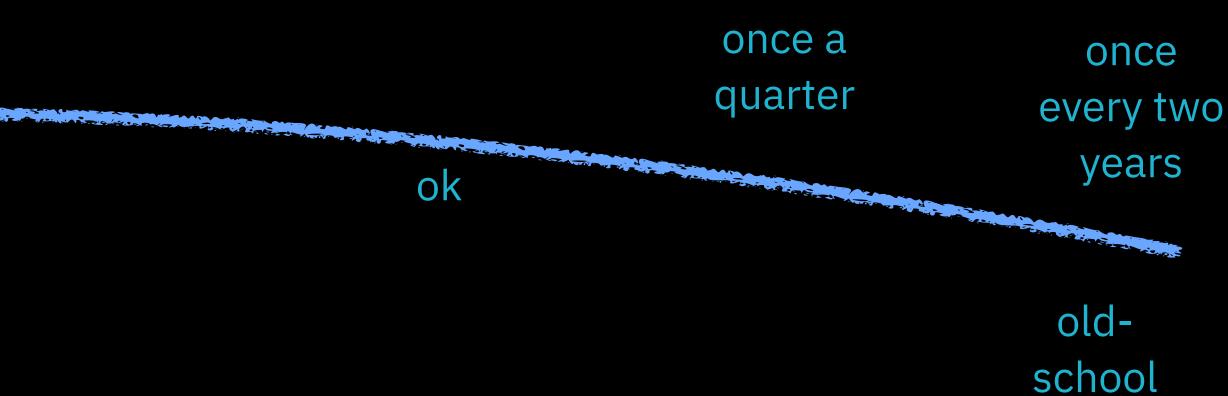
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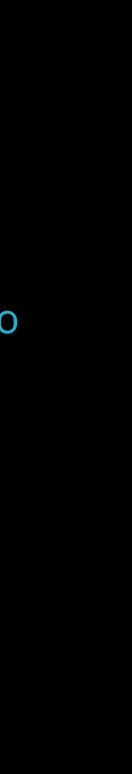
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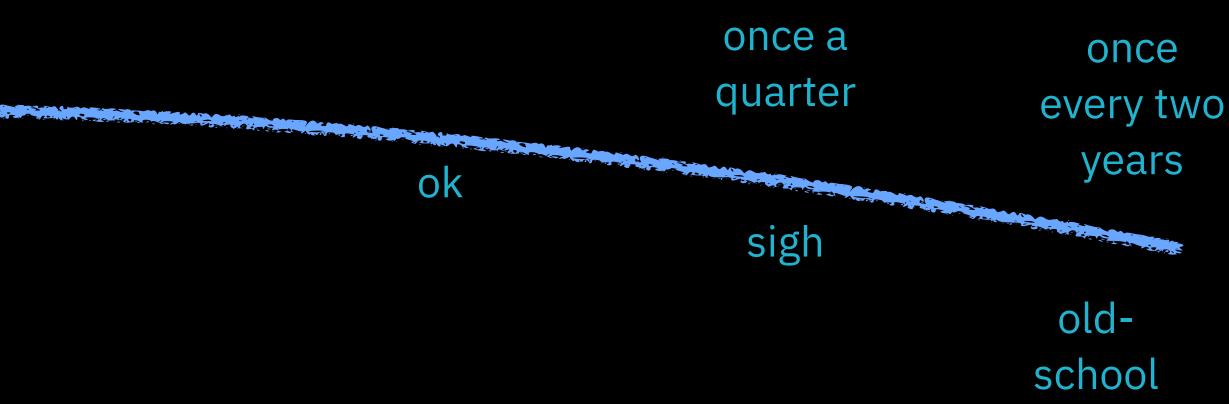
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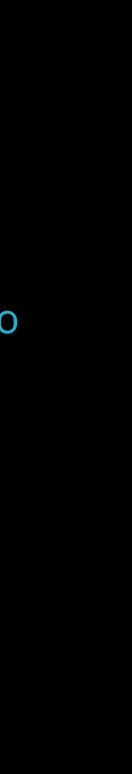
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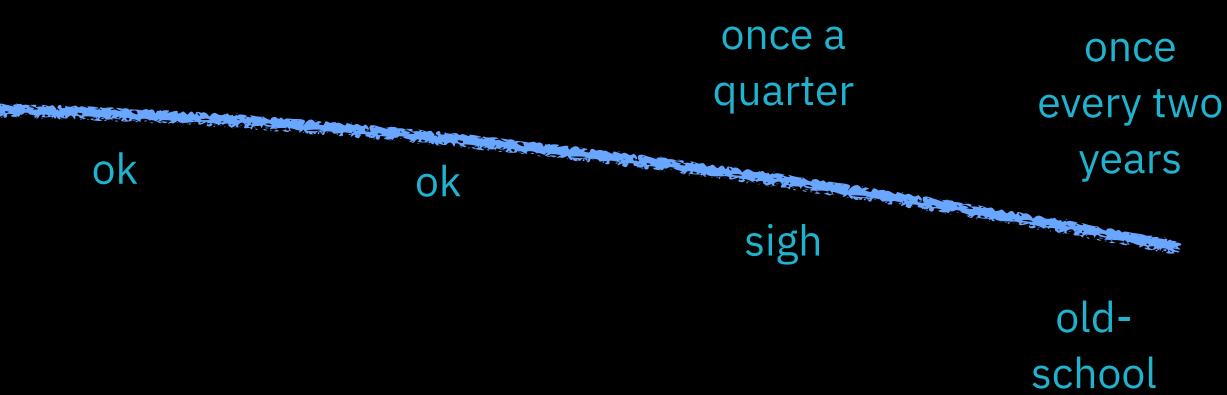
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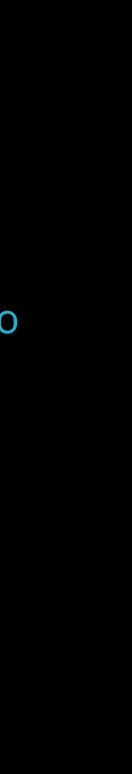
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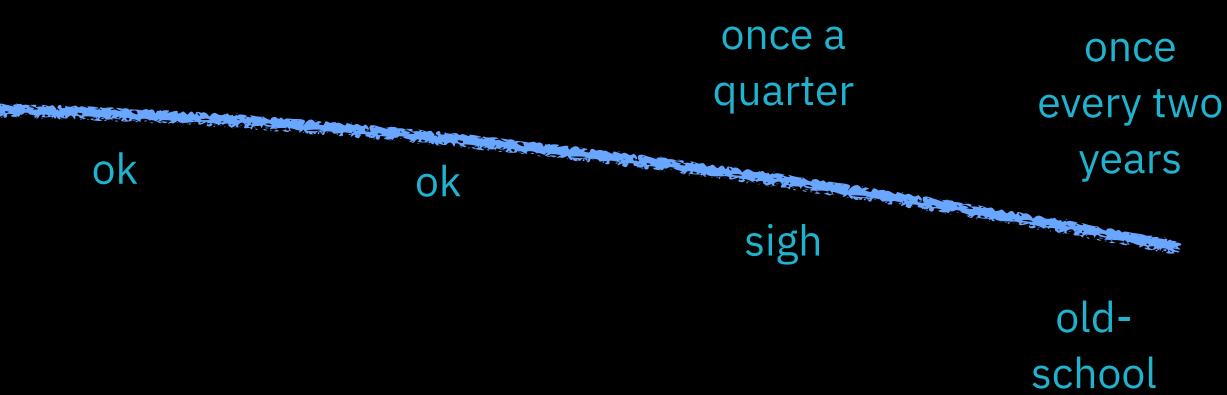
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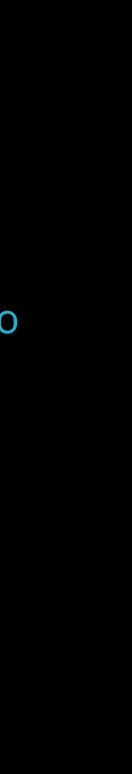
hardcore

(need a good handle on feature flags)



once a sprint every epic





every push (many times a day)

every user story

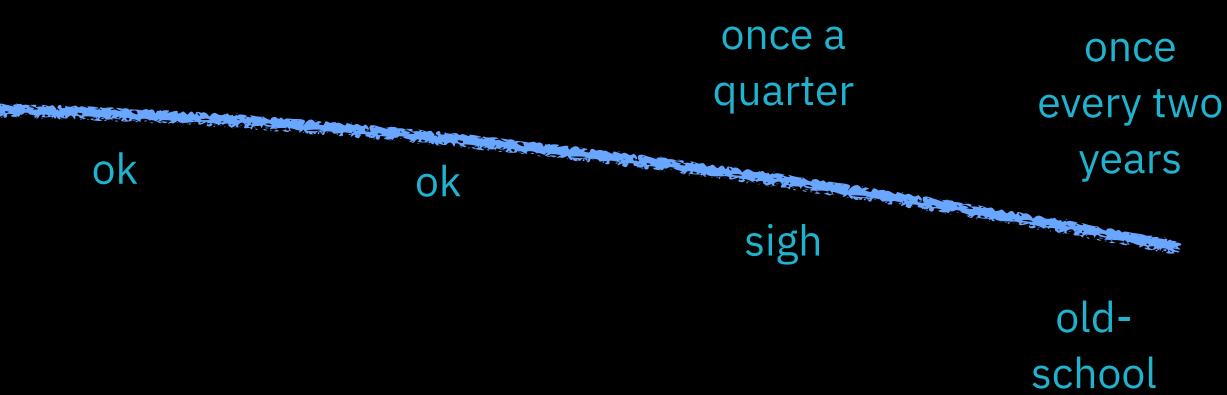
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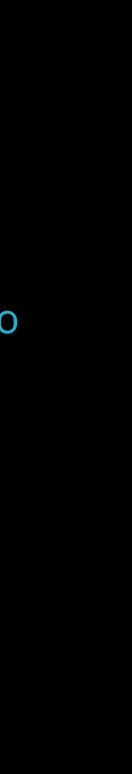
my favourite

(need a good handle on feature flags)



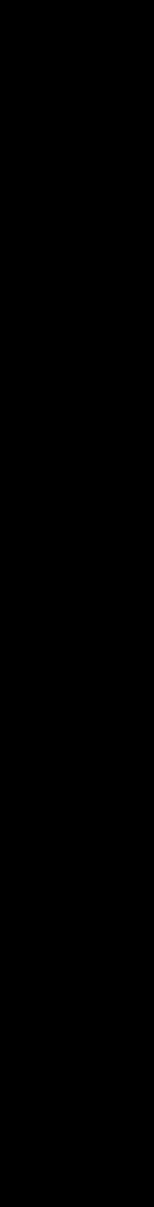
once a sprint every epic





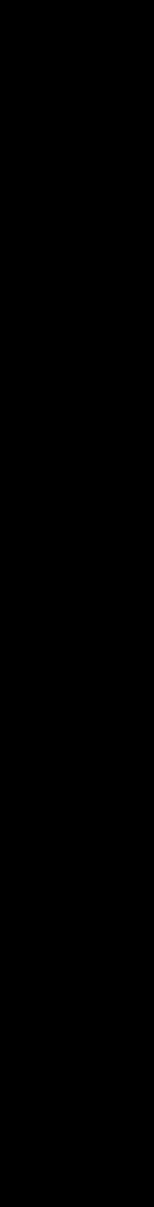
how often should you test in staging?

#IBMGarage



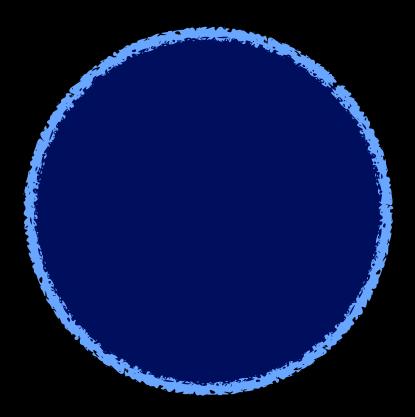
how often should you deliver?

#IBMGarage TEM



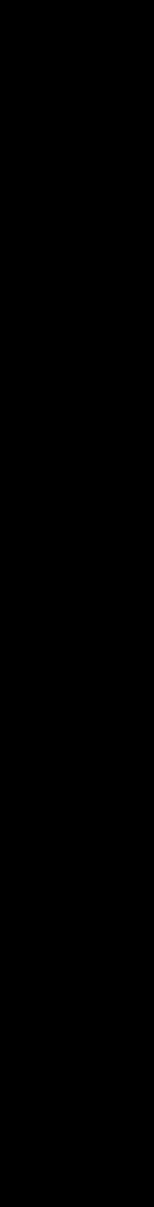
how often should you deliver?

every push



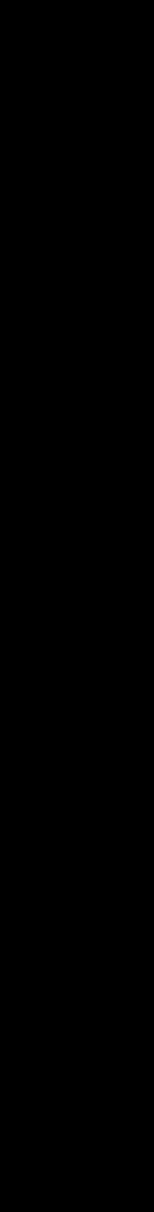
my favourite

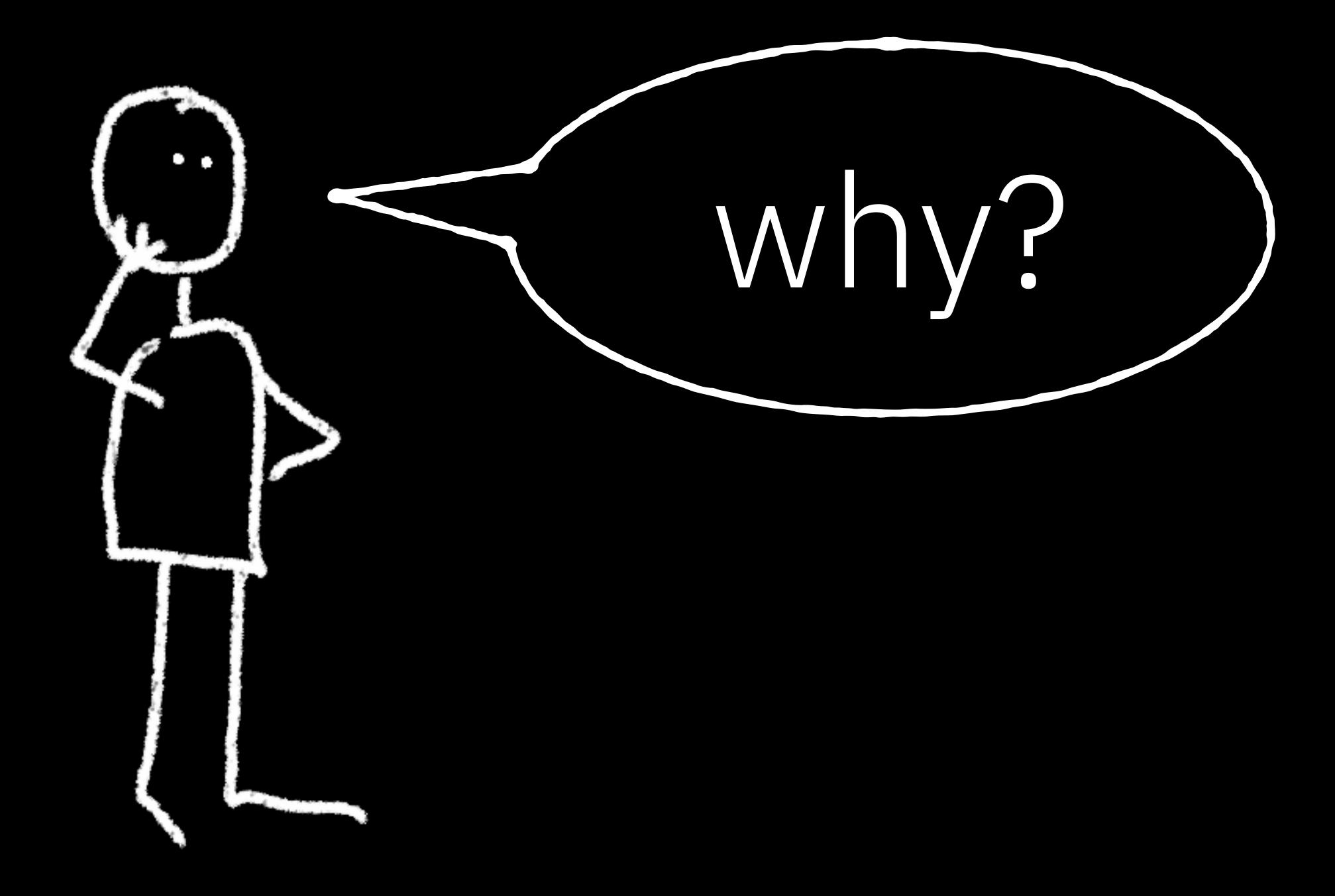




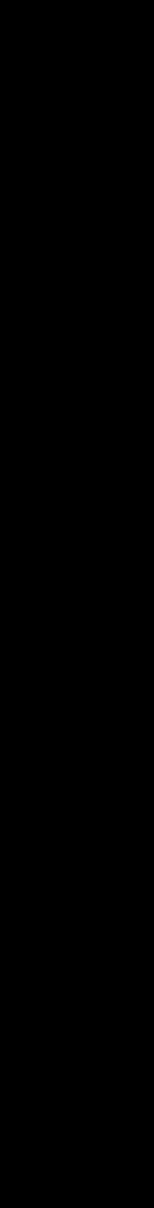
"we can't actually release this."





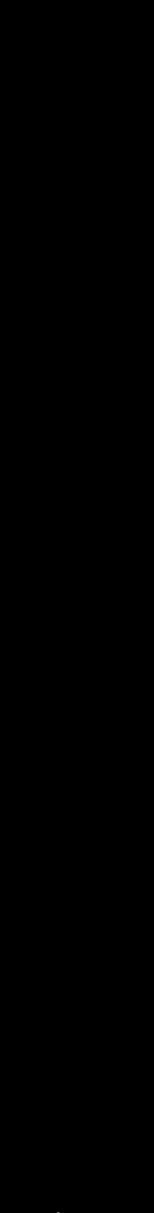






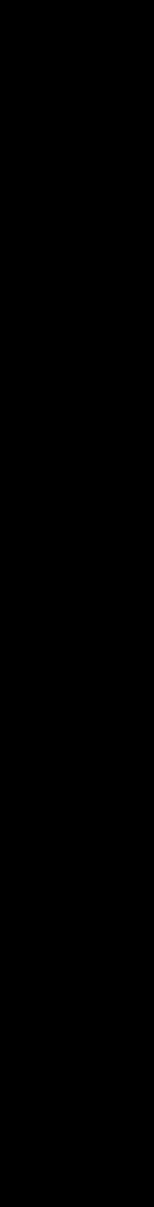
what's stopping more frequent deploys?





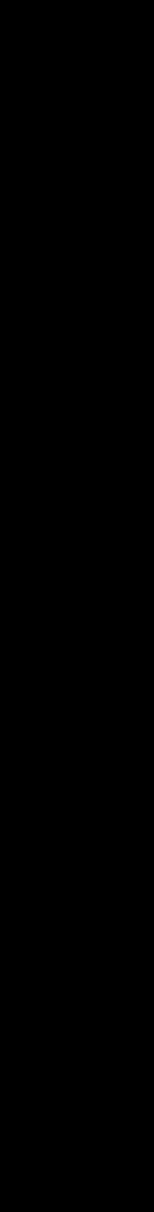


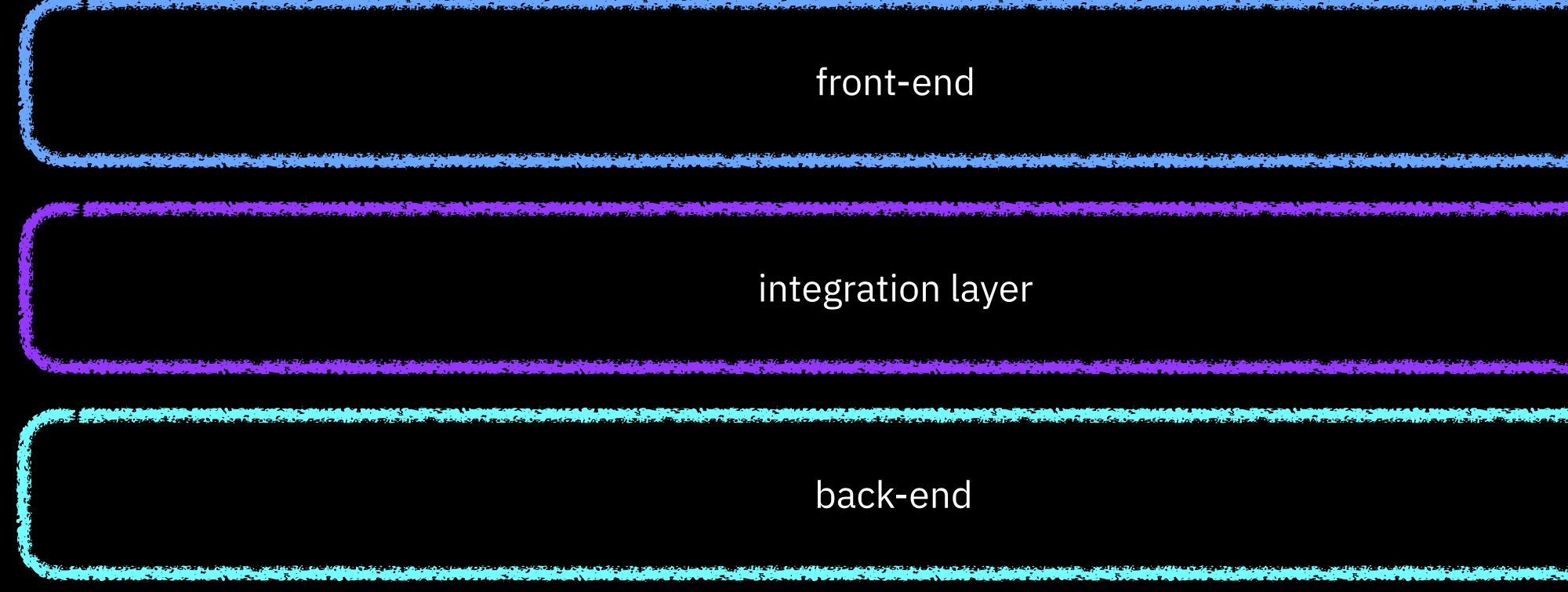
"we can't release this microservice... we deploy all our microservices at the same time."



"it **looks** like it's complete ... but nothing works if you click on it."









integration layer

back-end

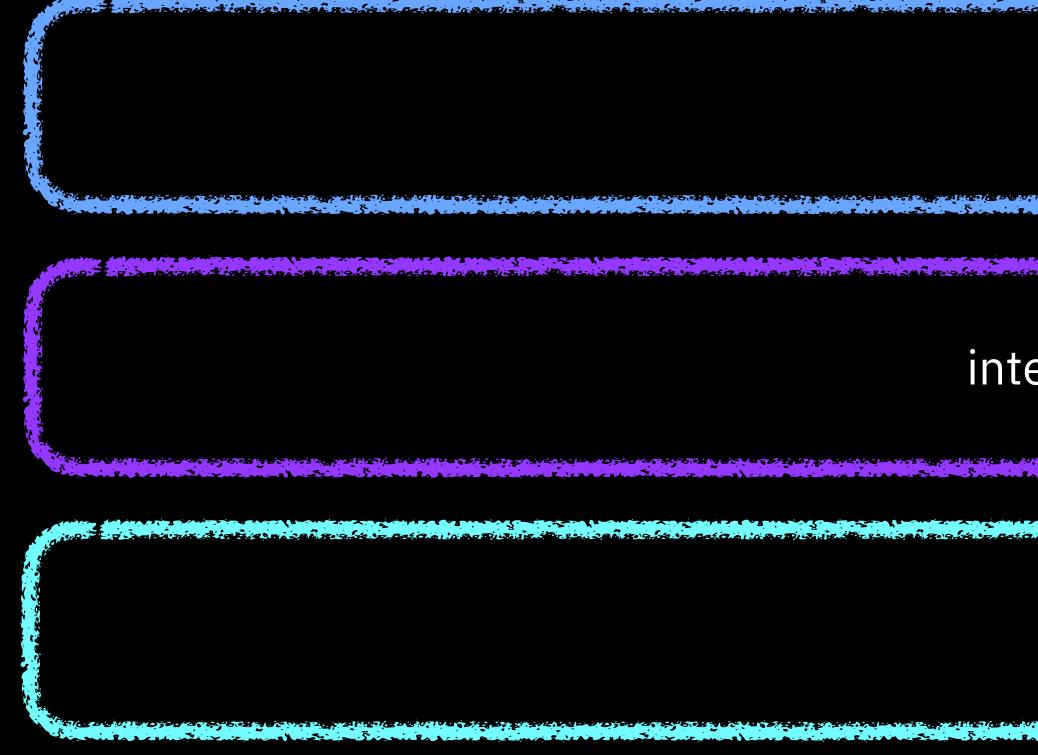


- Same Roder and Roder and Roder and Same











integration layer

back-end



1. S. A.



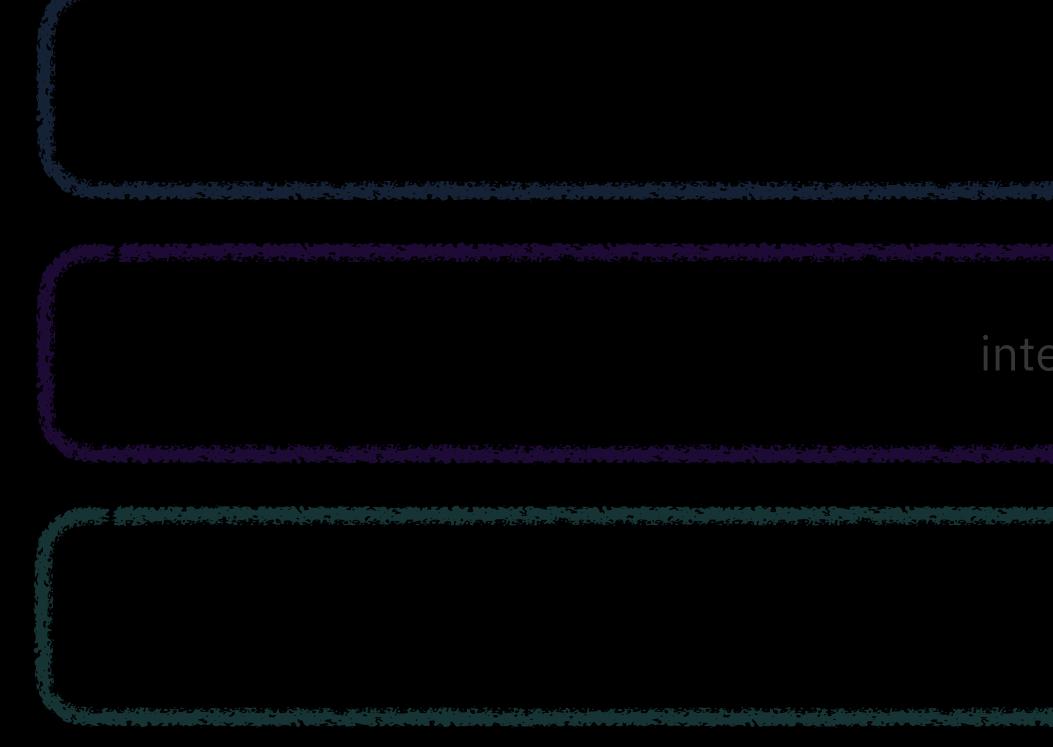
Tores and good in

and See











integration layer

back-end

user story

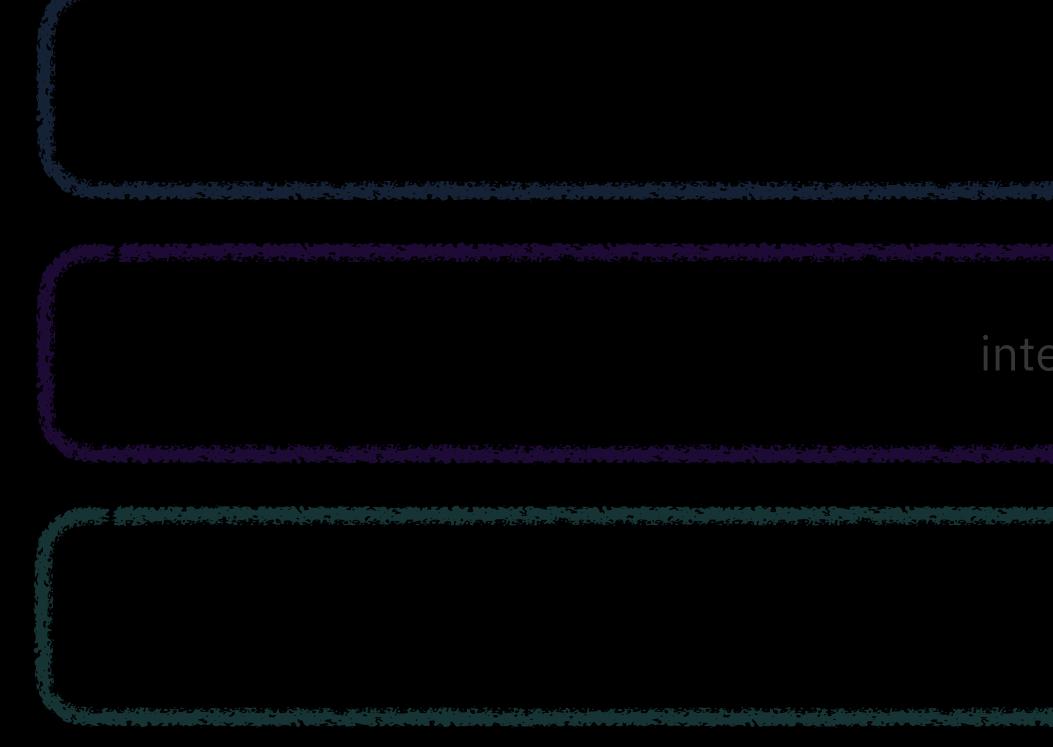
frontend

int. layer

backend









integration layer

back-end

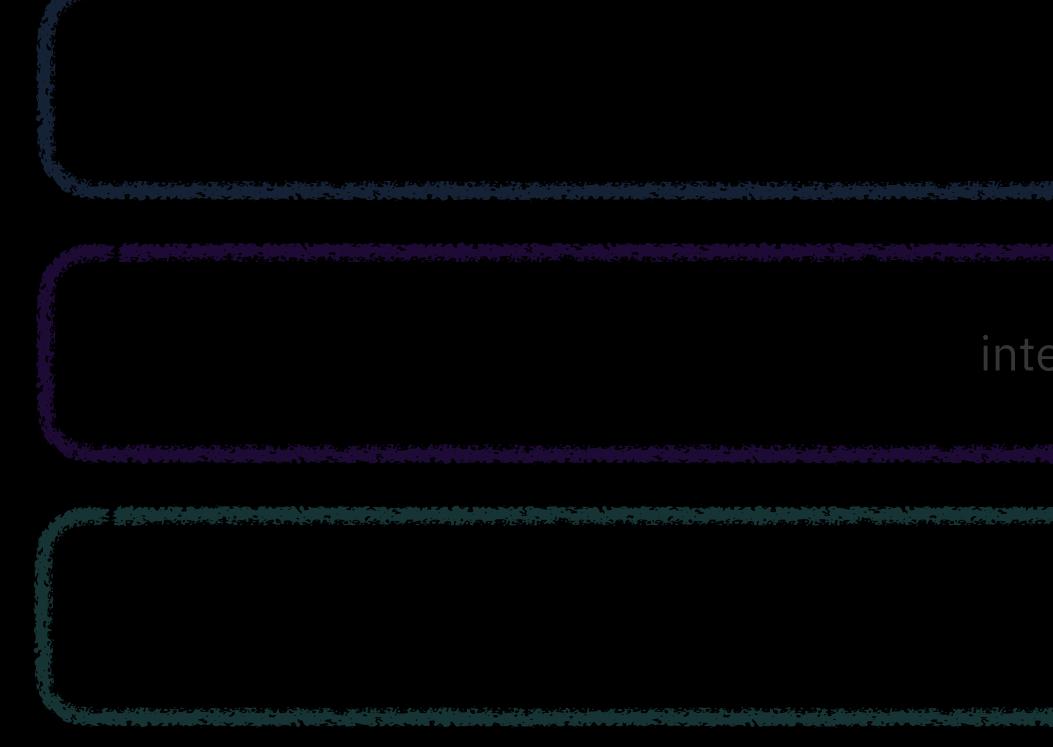
user story

frontend

10.0









integration layer

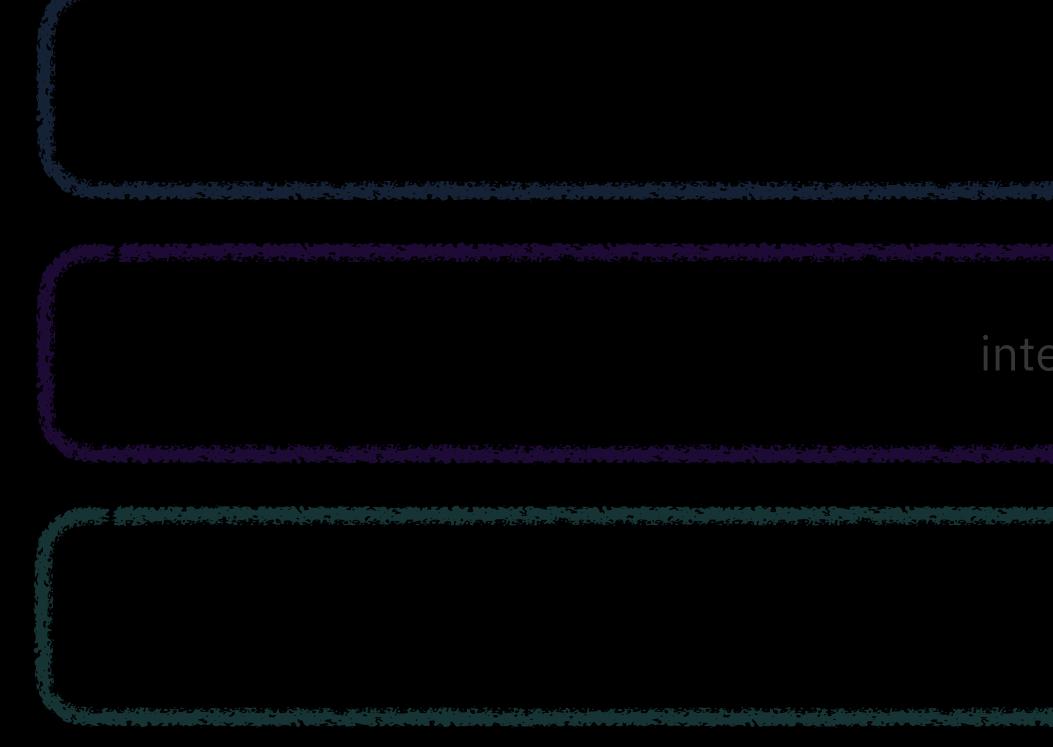
back-end













integration layer

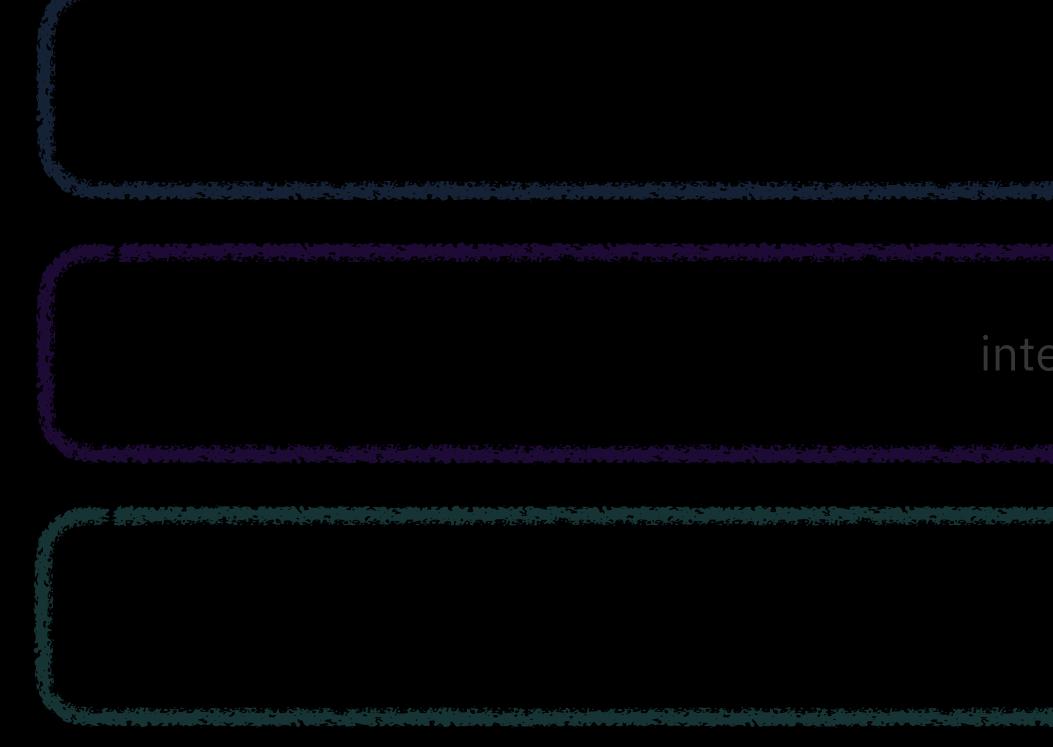
back-end













integration layer

back-end



int. layer

Construction of the second

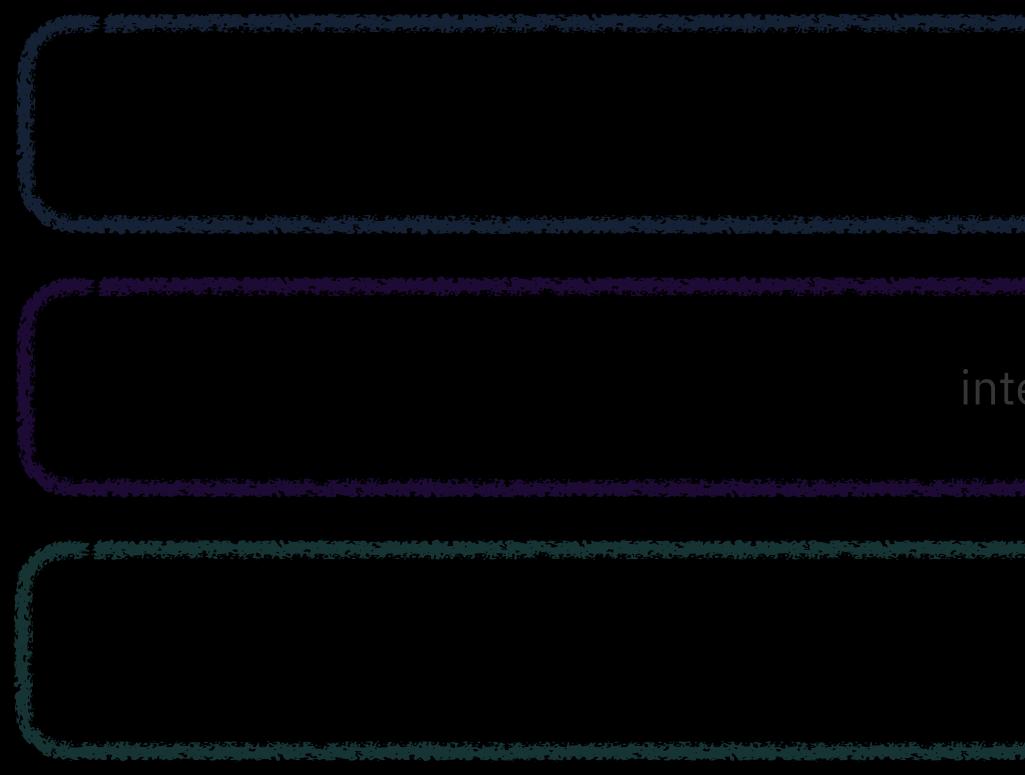
backend

State Providence





\checkmark it works by the time anyone sees it



stakeholders need to be careful what they incentivise



front-end

integration layer

back-end

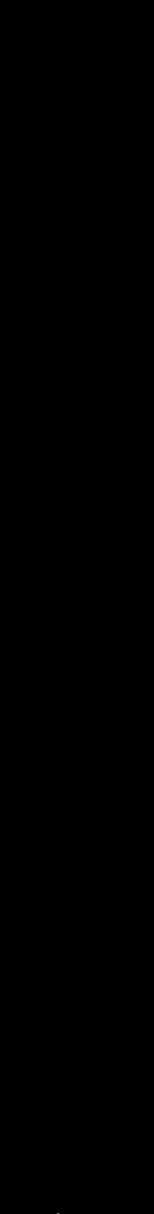






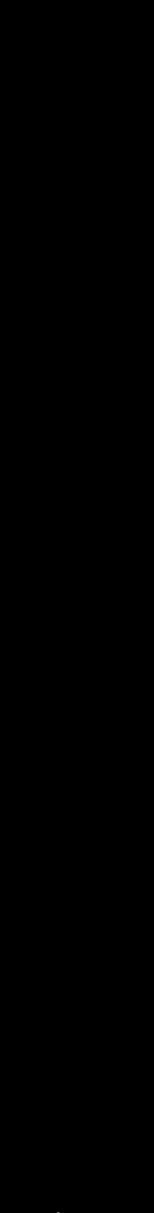
vertical slices





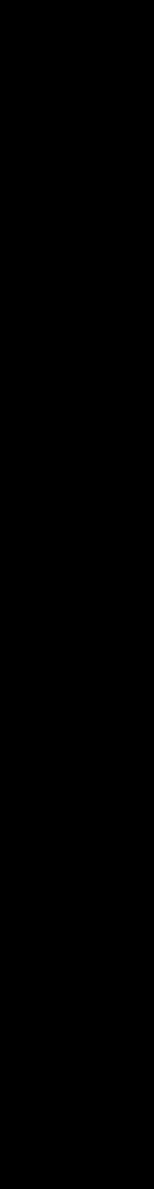
back-out development





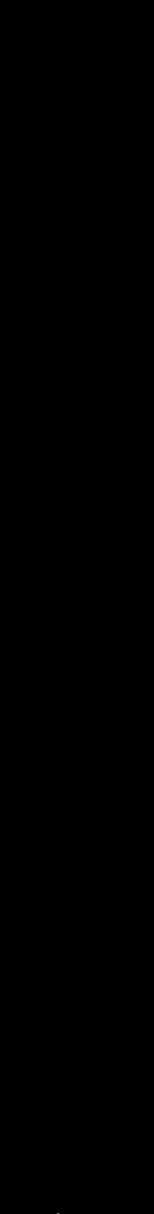
back-first development development





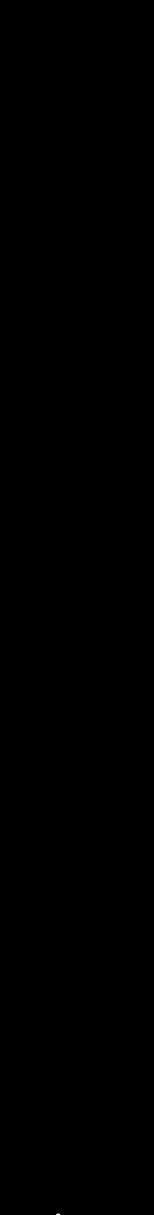
deferred wiring





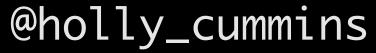
feature flags

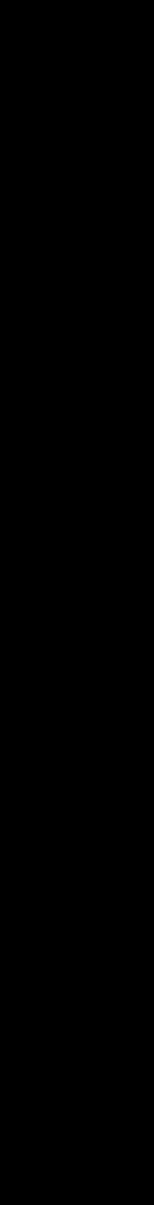


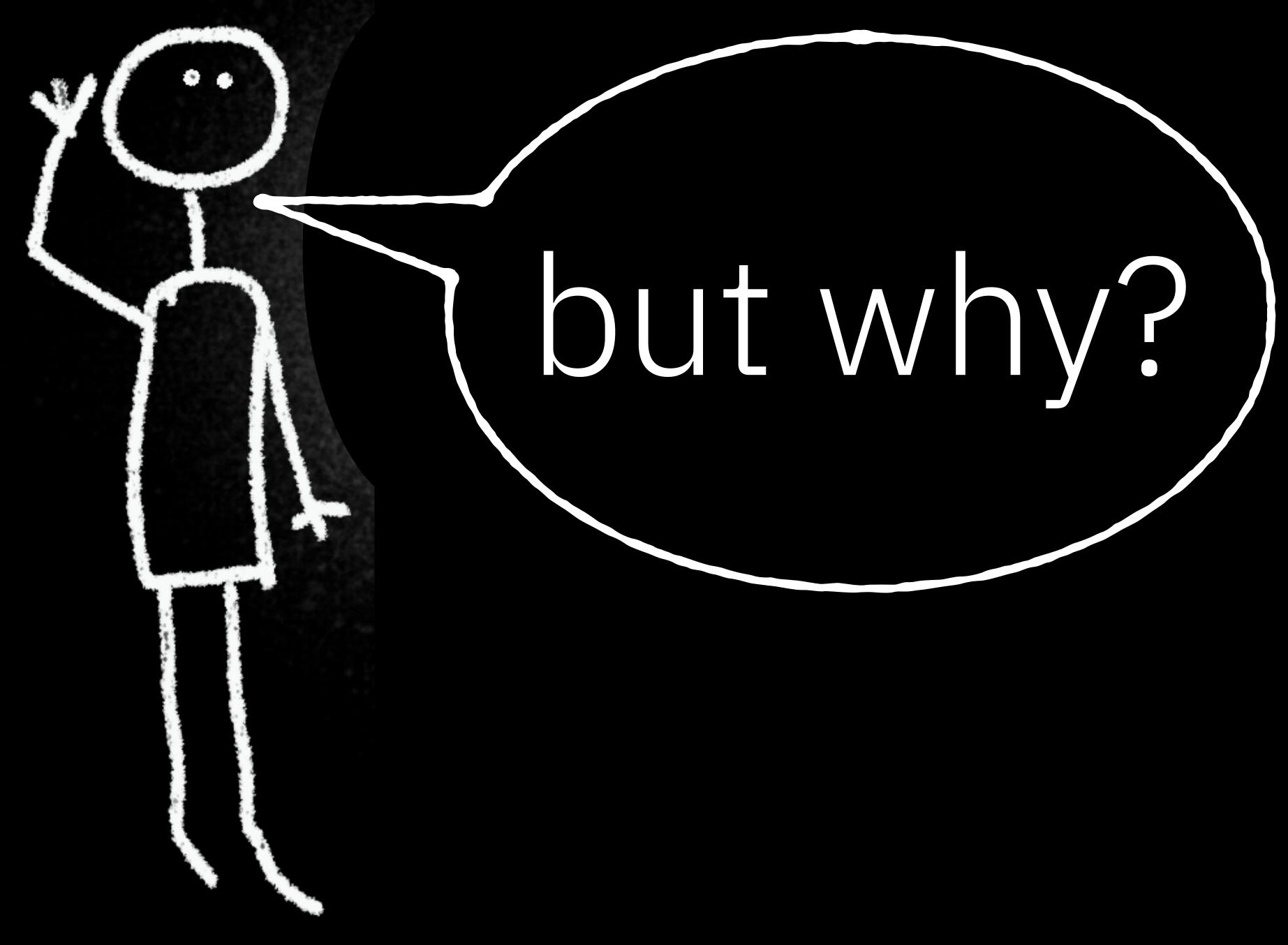




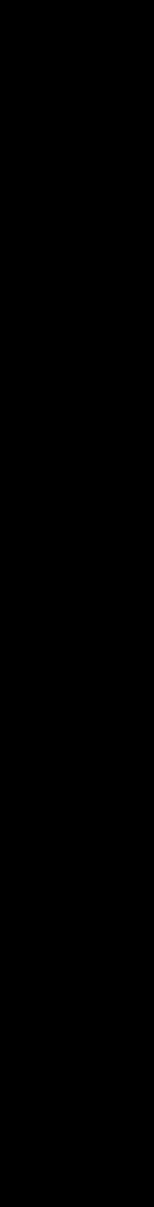
"we can't ship until every feature is complete"





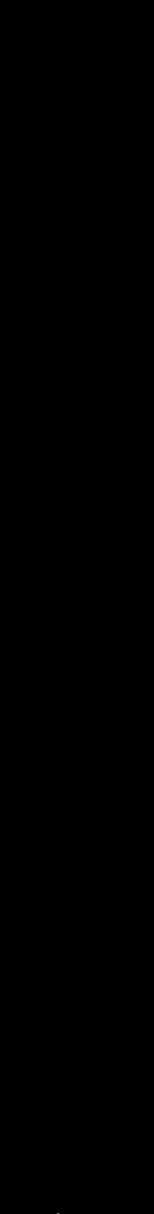






"users won't find it compelling enough if we release now"

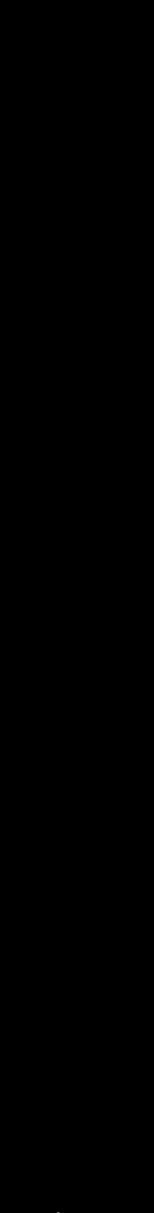




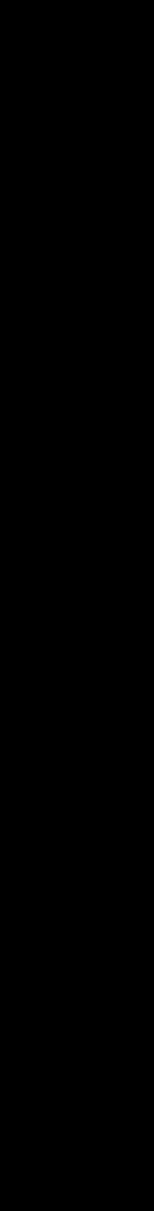
if you're not embarrassed by your first release it was too late



- Reid Hoffman

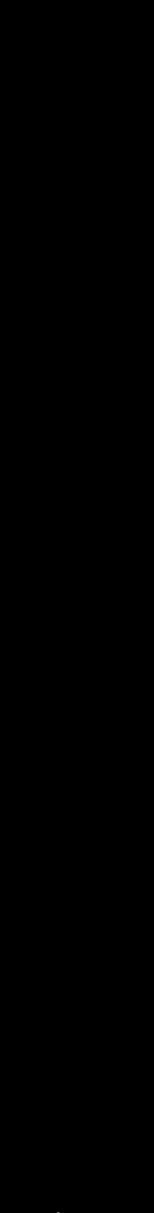






"we only get one chance to get it right"

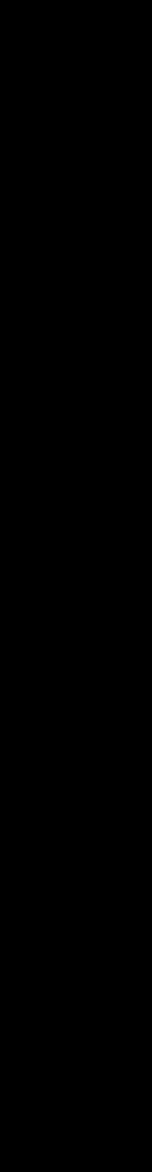




the ariadne failed in 36 seconds

you can't a/b test a \$370 million rocket

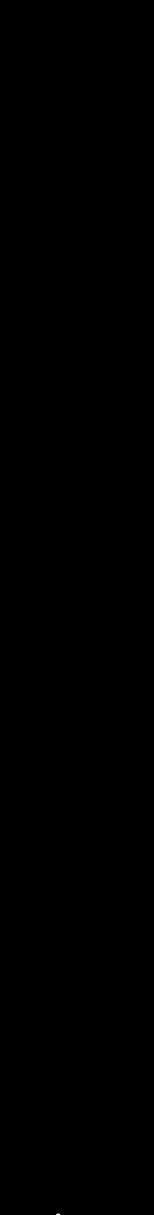








AN1

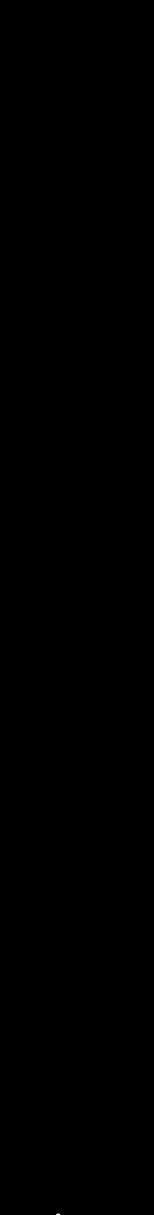


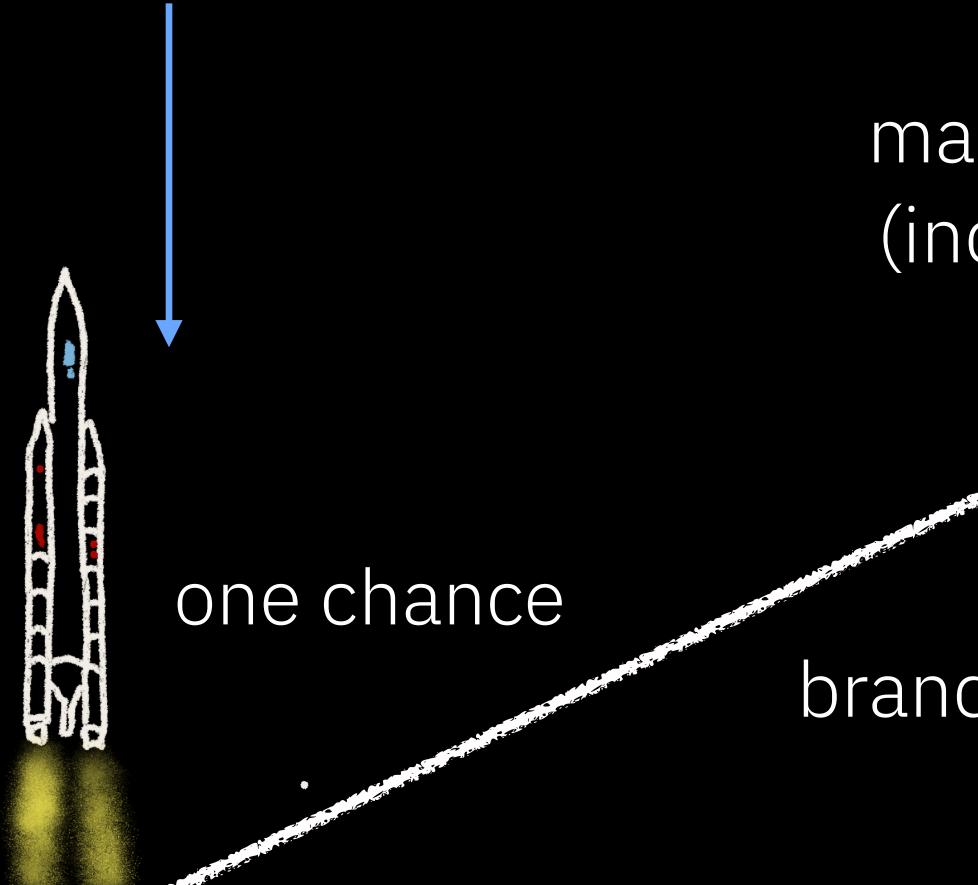




M

brand damage

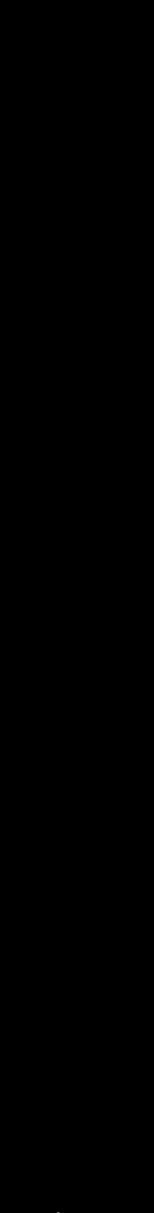


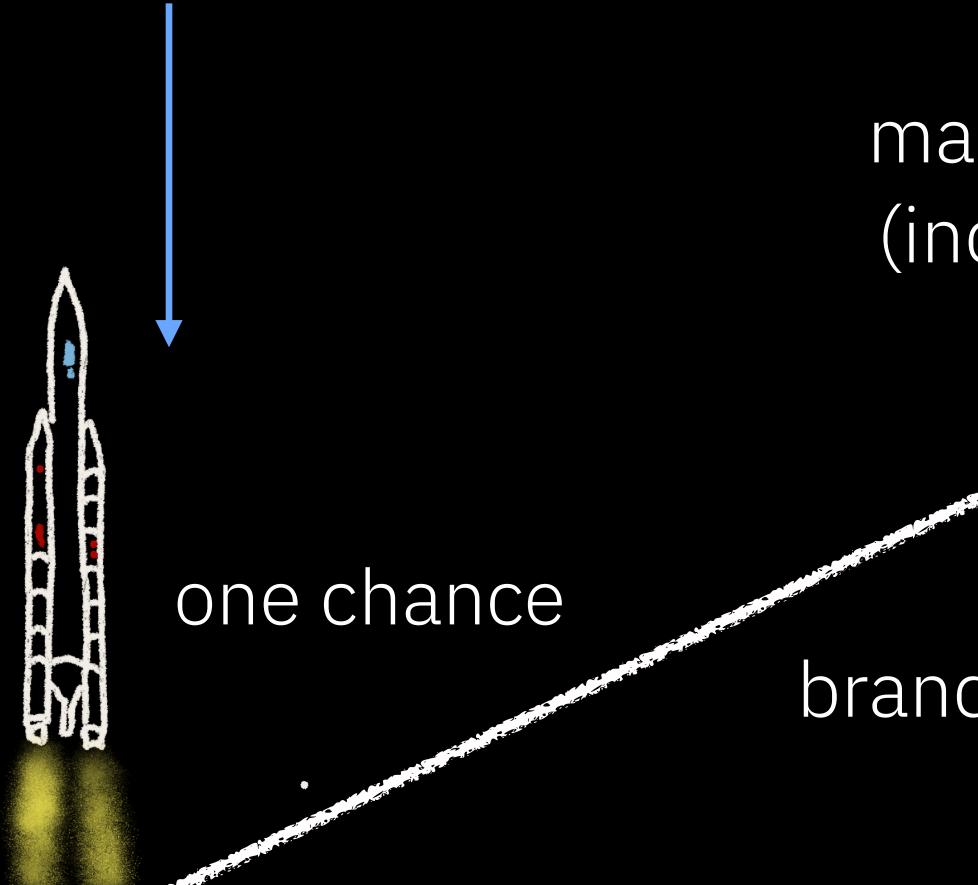




market failure (indifference)

brand damage



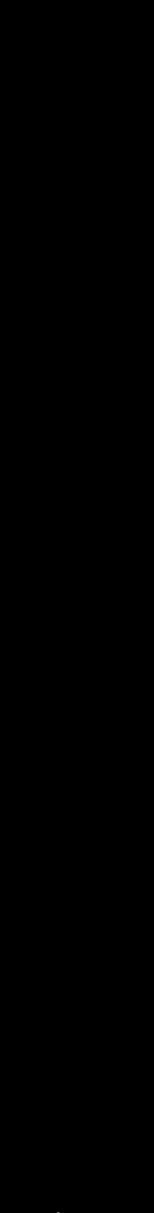


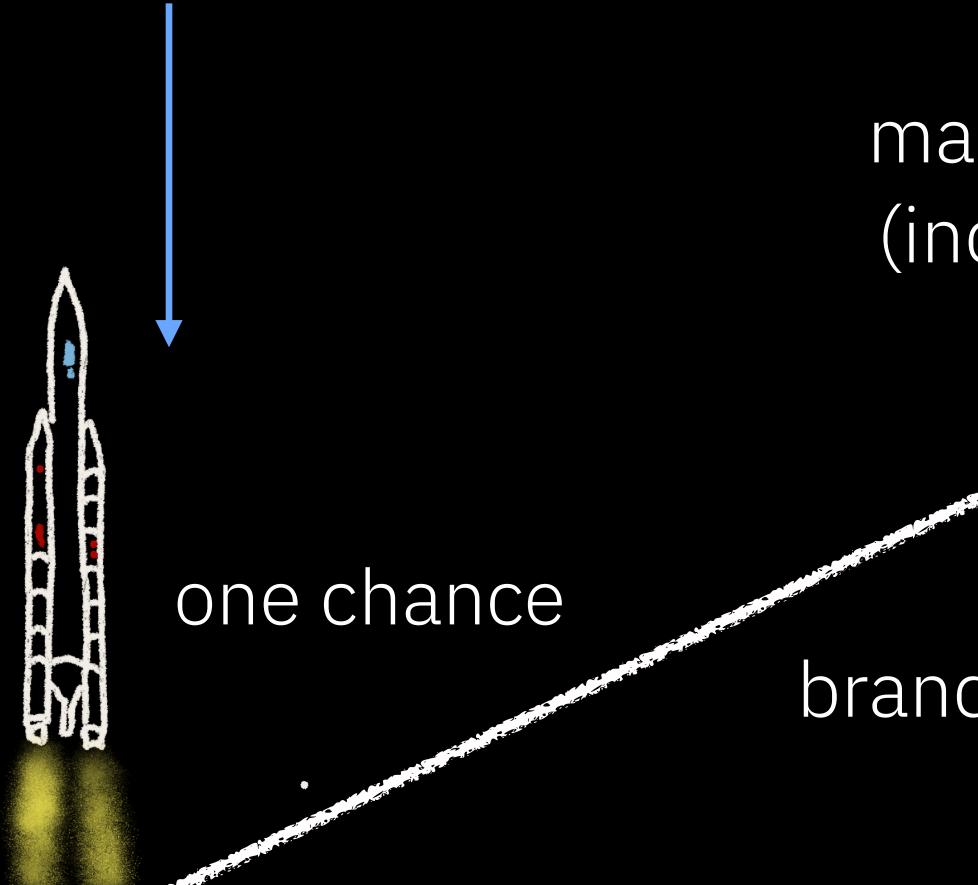


market failure (indifference)

continuous improvement delights growing user base

brand damage







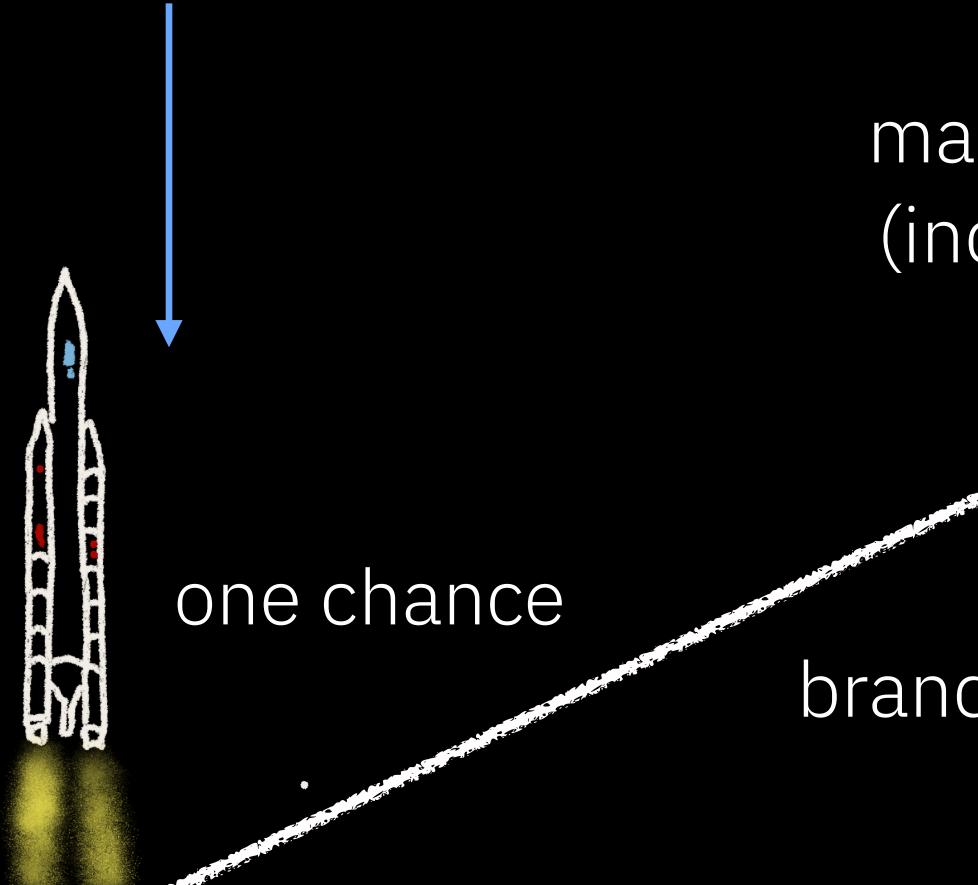
market failure (indifference)

a/b testing

continuous improvement delights growing user base

brand damage







could we be here?

market failure (indifference)

a/b testing

continuous improvement delights growing user base

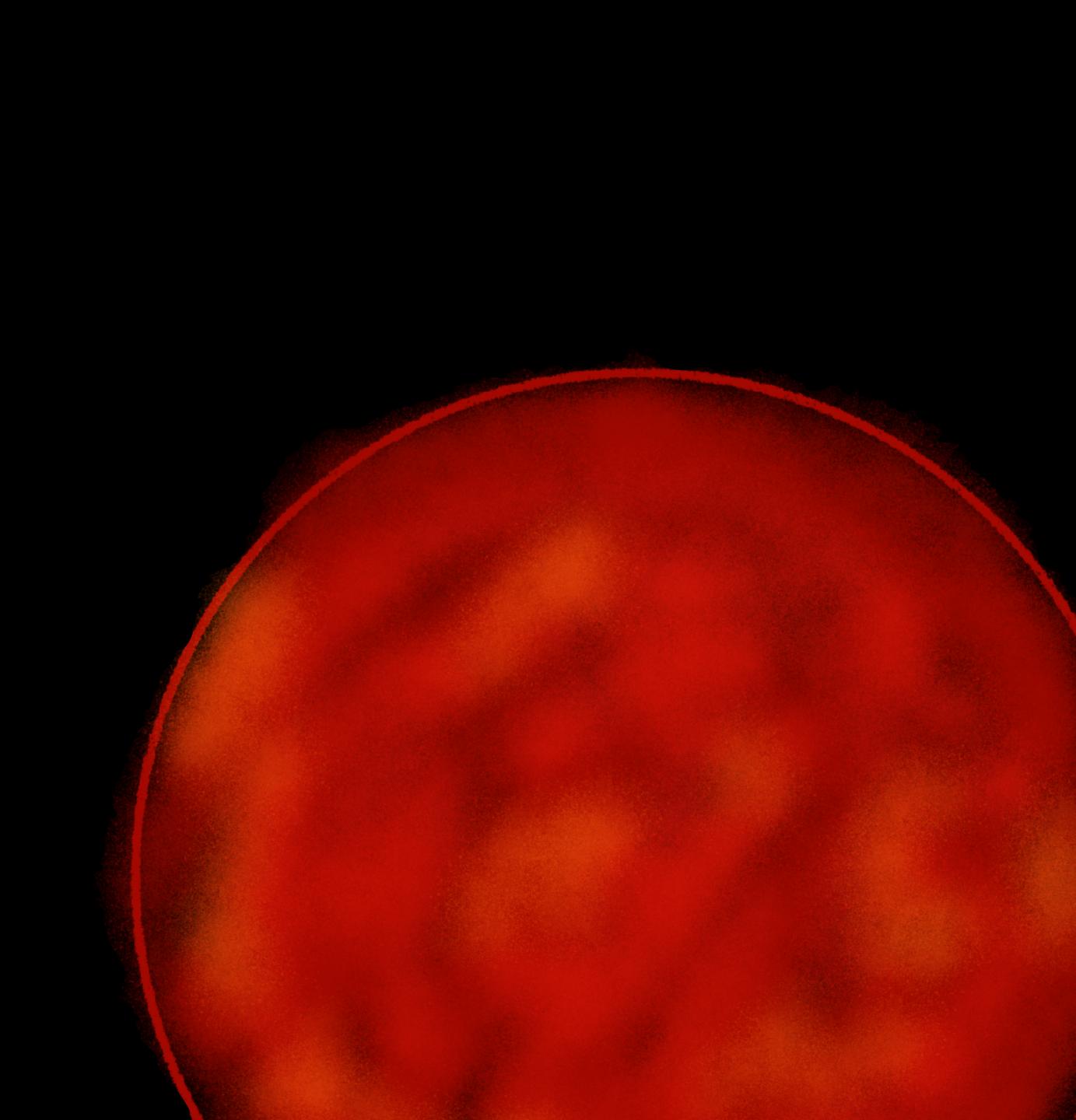
brand damage

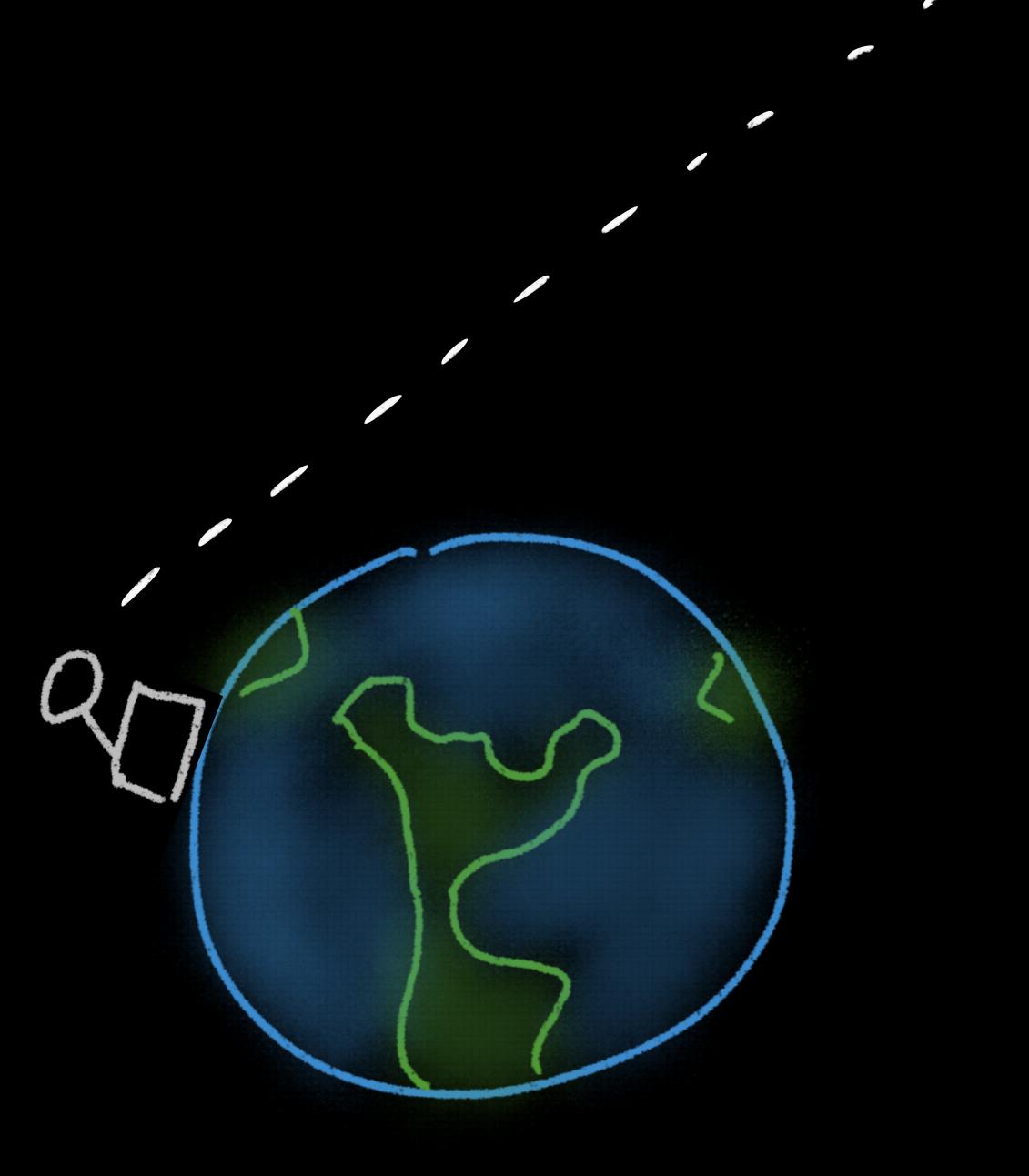




feedback is good engineering







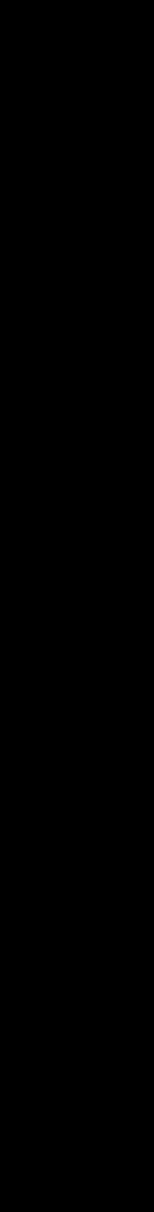


they often couldn't see the explorer



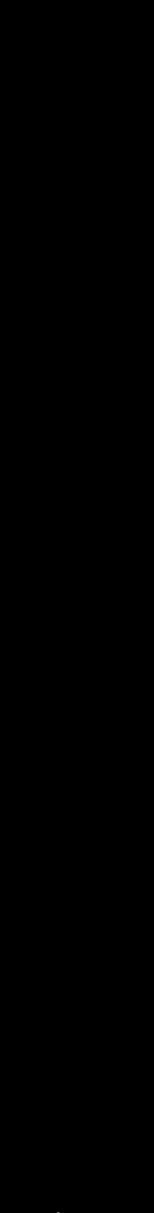
"but our change control process ..."

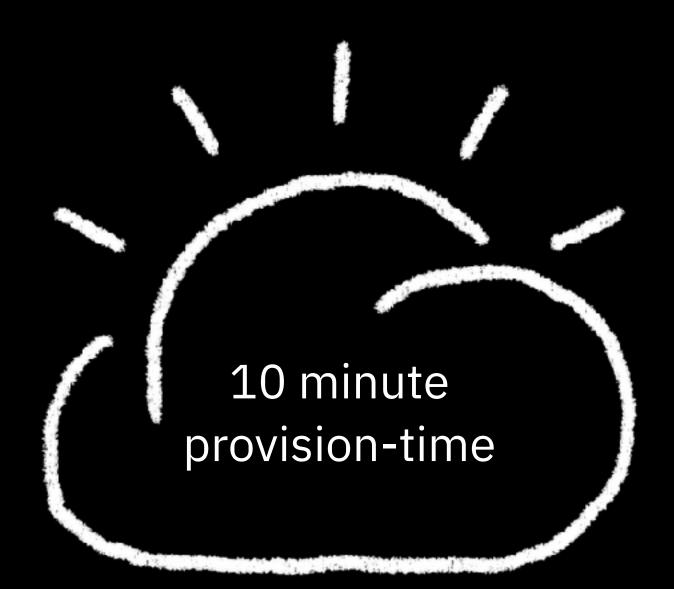




"this provisioning software is broken"



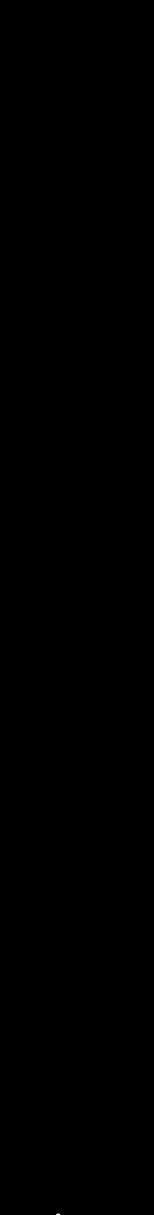


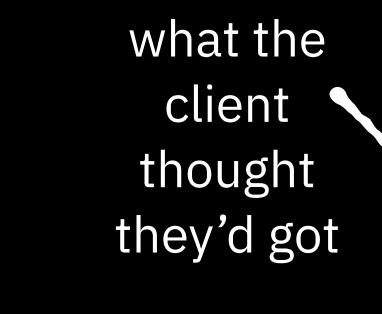


what we sold

"this provisioning software is broken"







10 minute provision-time

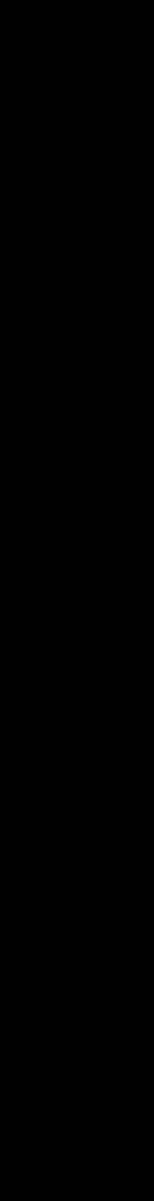
what we sold

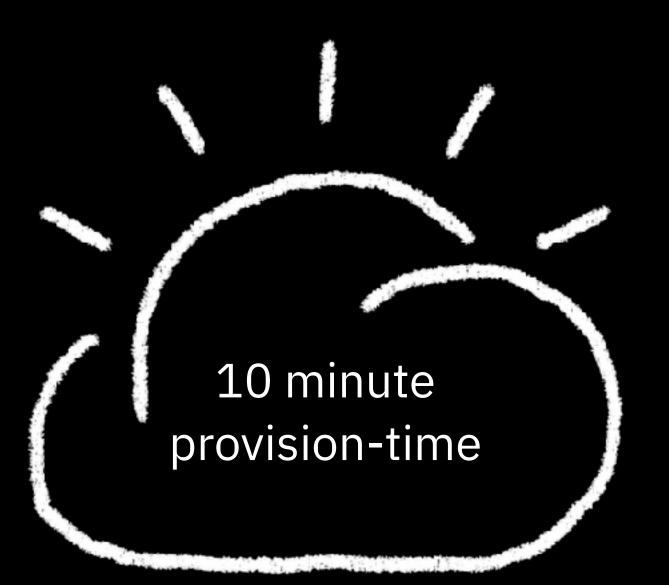
"this provisioning software is broken"













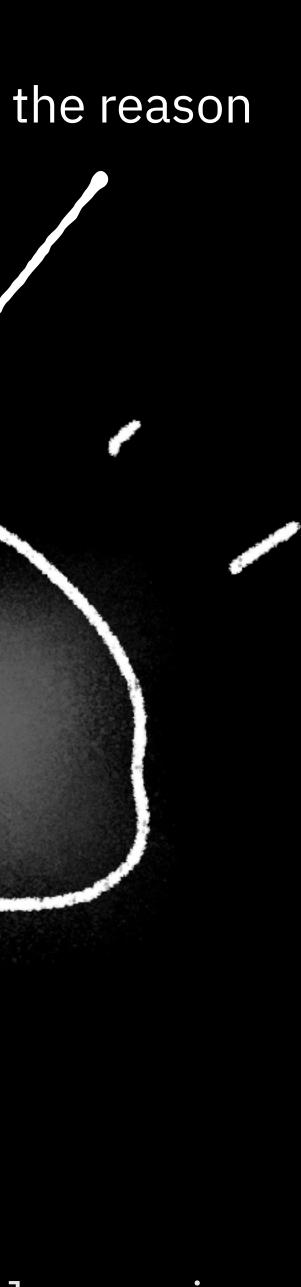
what we sold

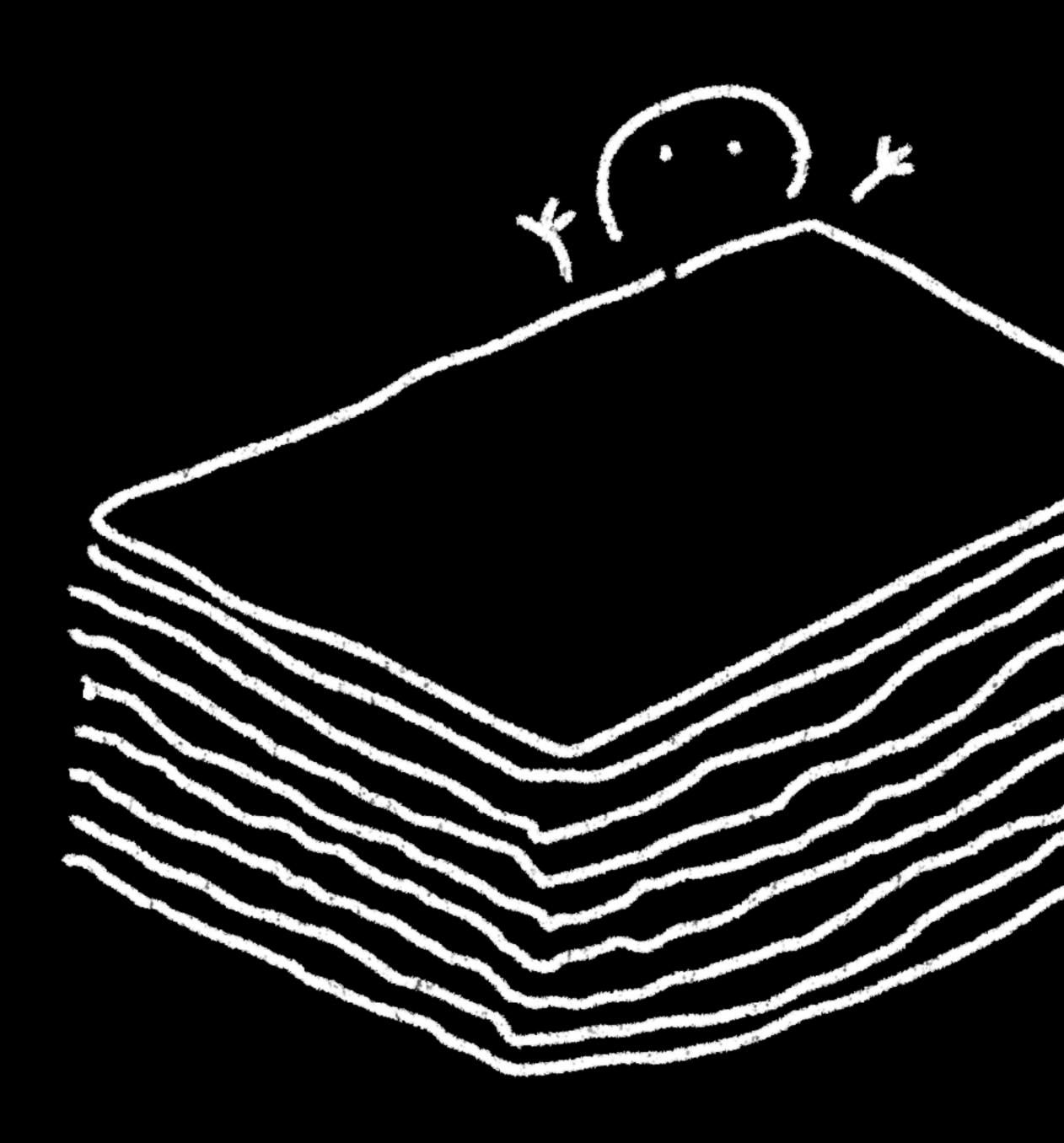
"this provisioning software is broken"



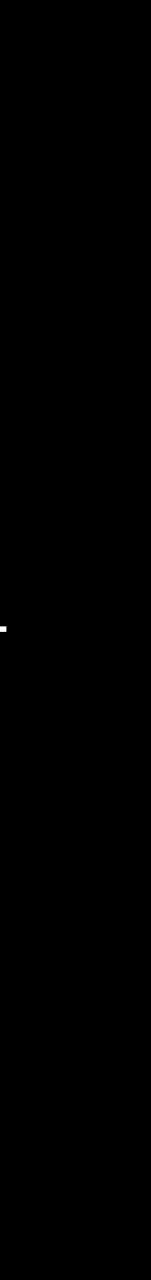
3 month provisiontime

84-step pre-approval process



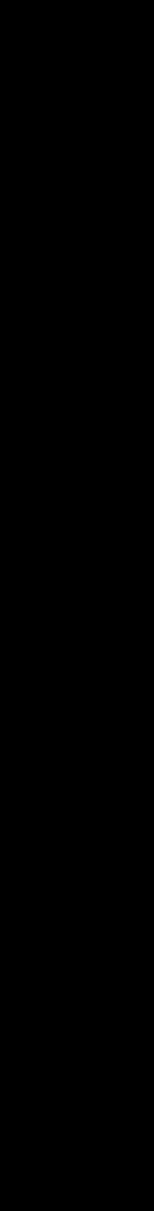


"we've scheduled the architecture board review for a month after the project ships"

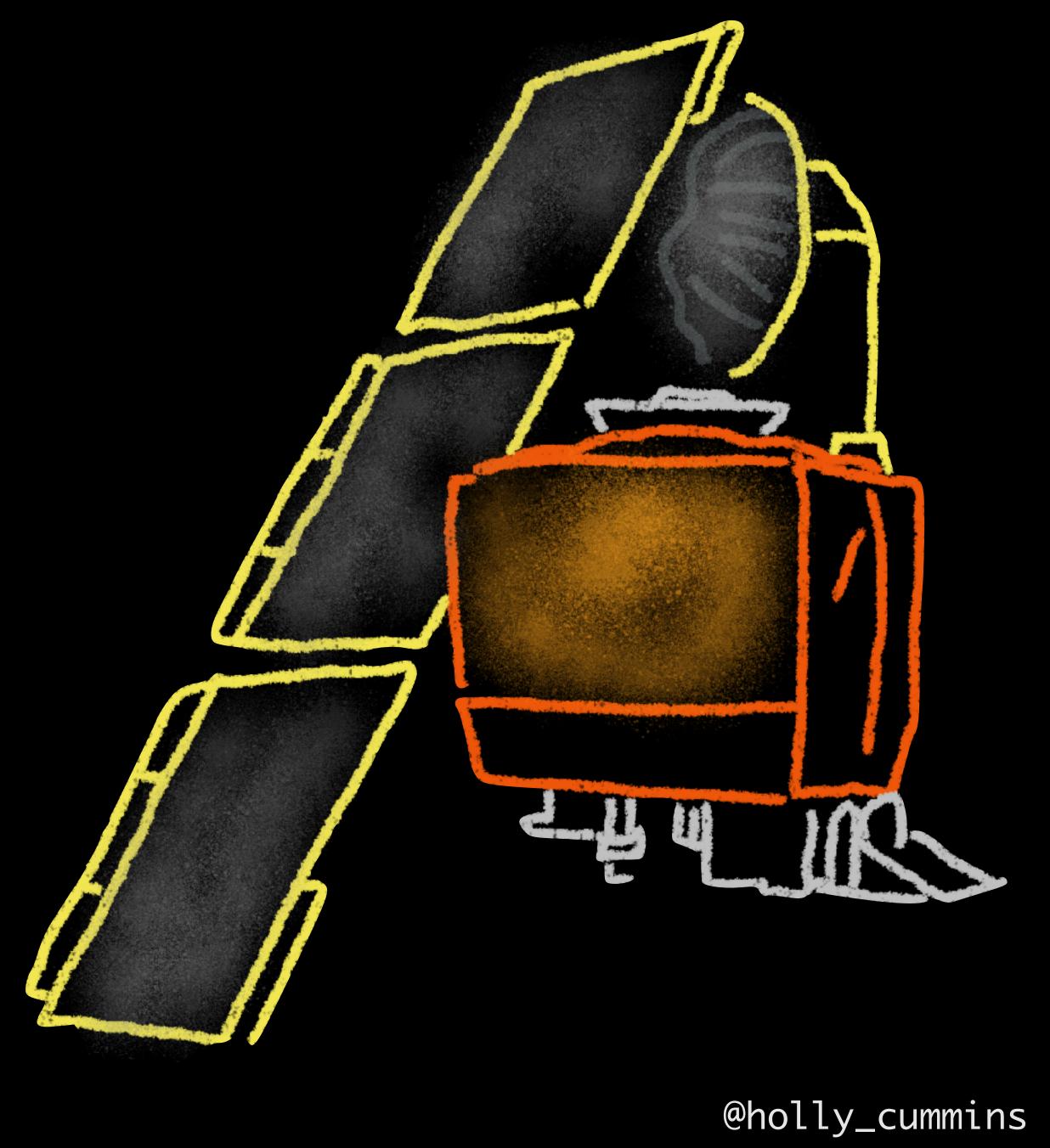


does the process add value?



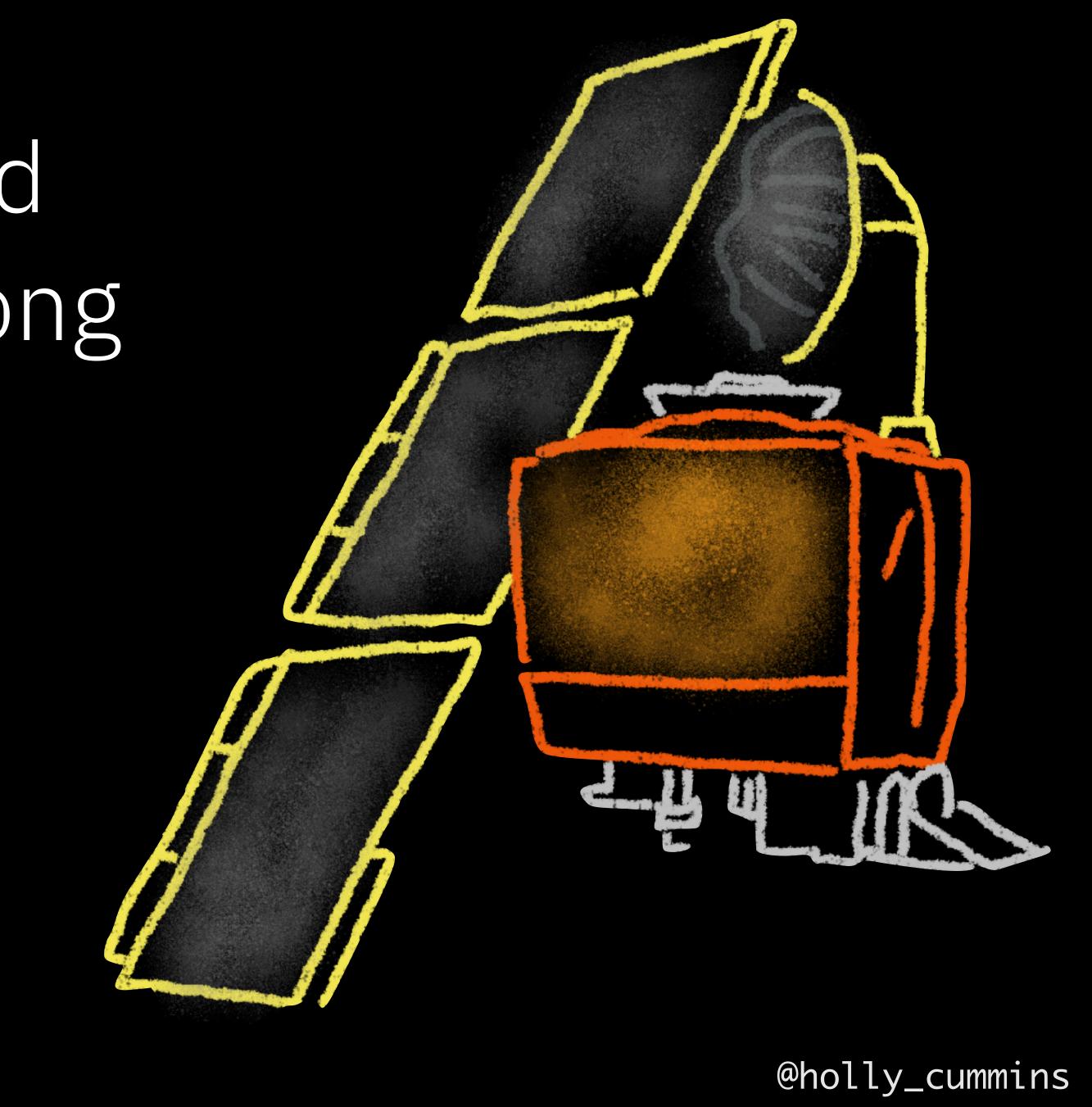






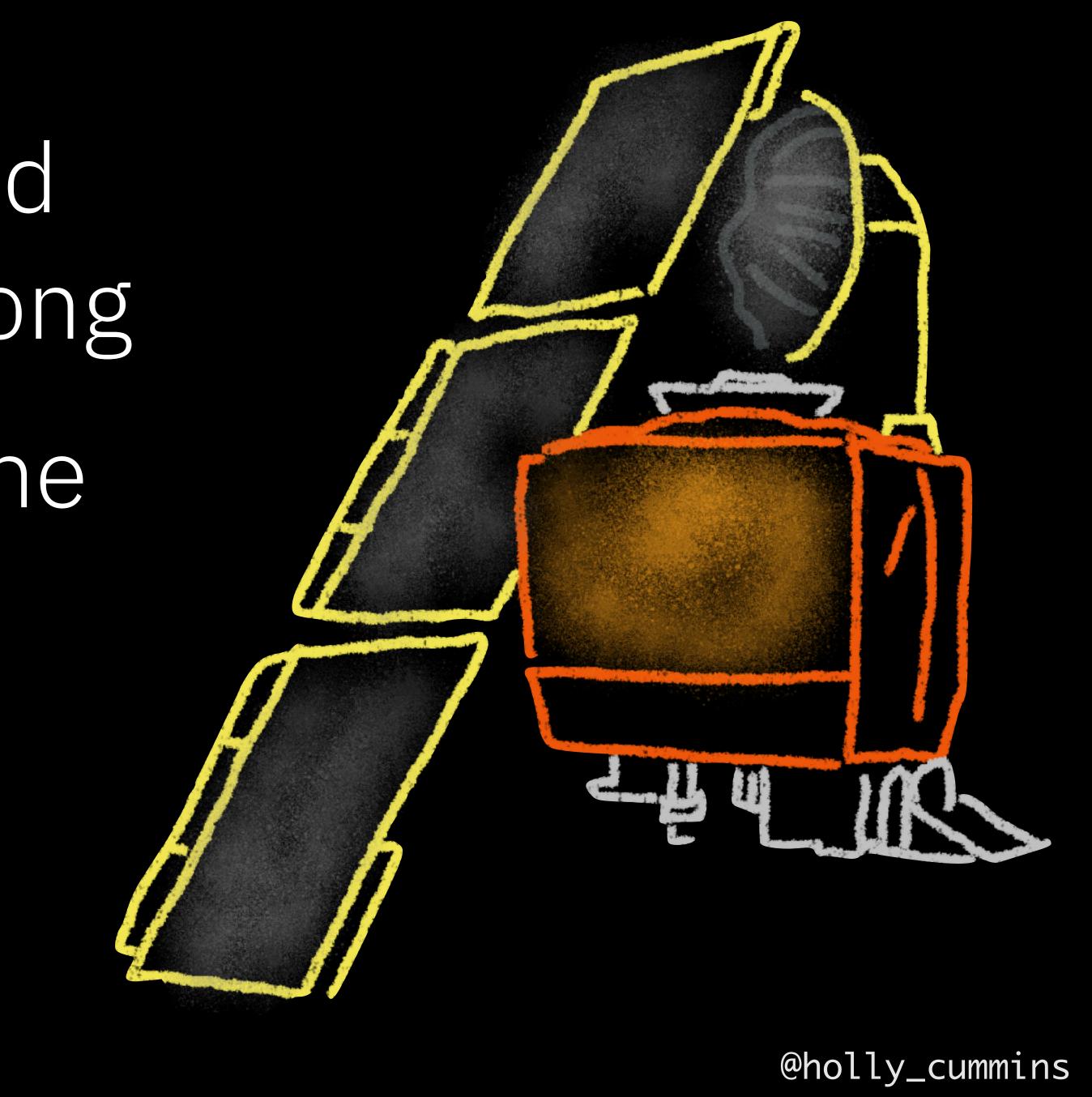
navigators warned something was wrong





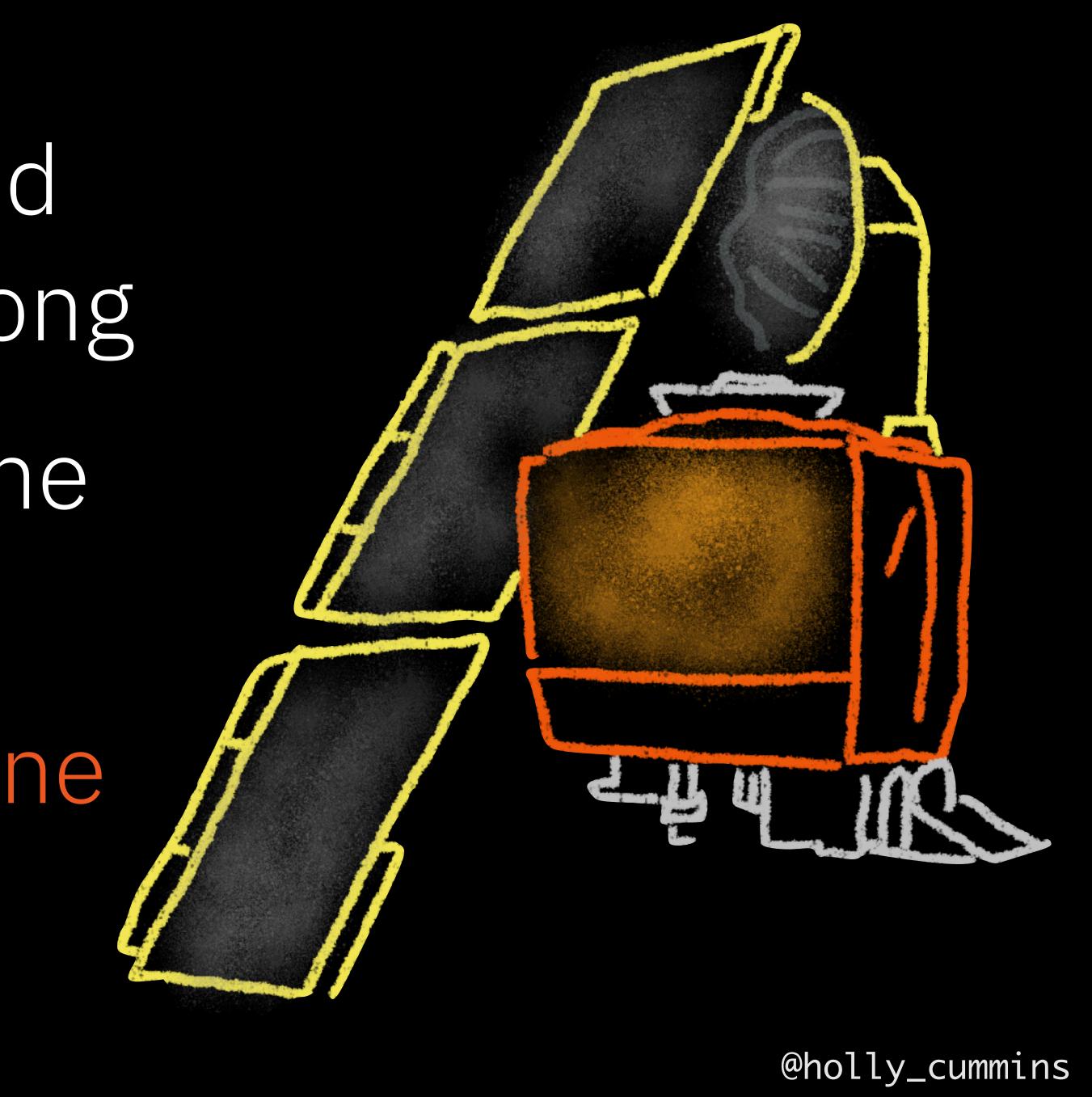
navigators warned something was wrong they didn't fill in the right form

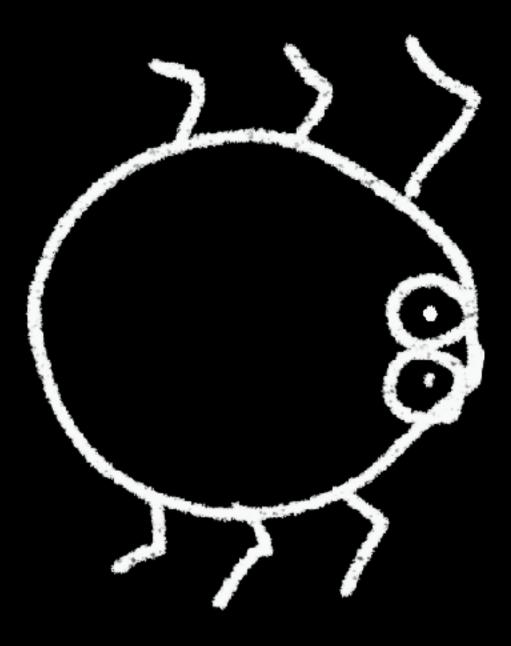




navigators warned something was wrong they didn't fill in the right form so nothing was done



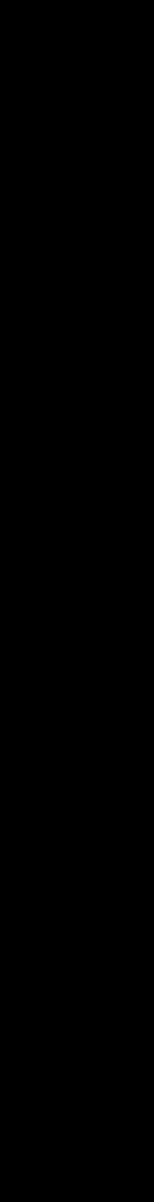






"we can't ship until we have more confidence in the quality"



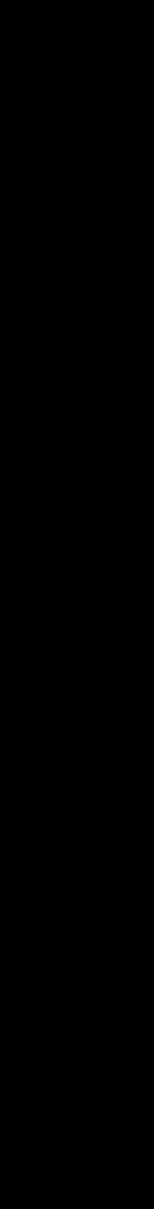


"we can't ship until we have more confidence in the quality"

you can fix that

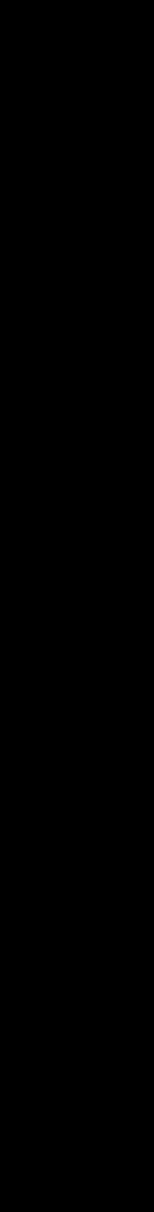
2777

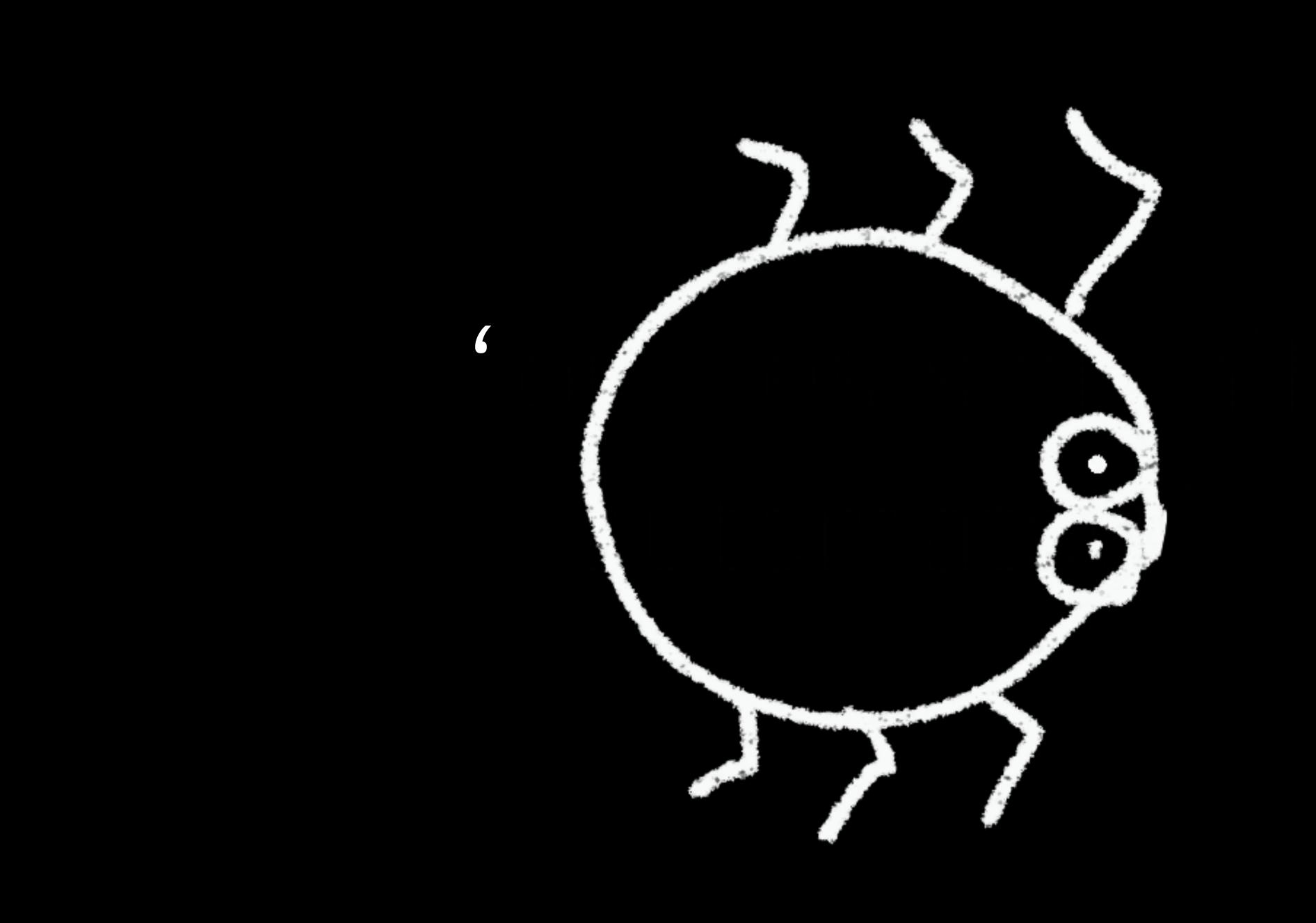




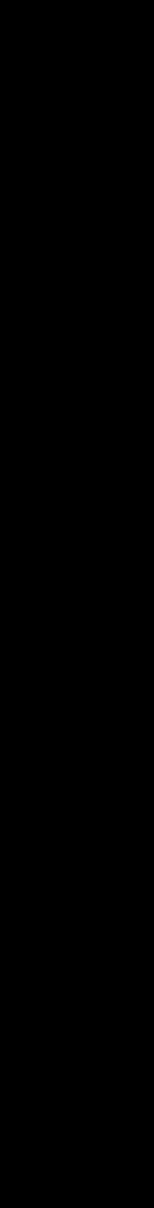


"this is the test team ... who don't have the skills to automate their tests."









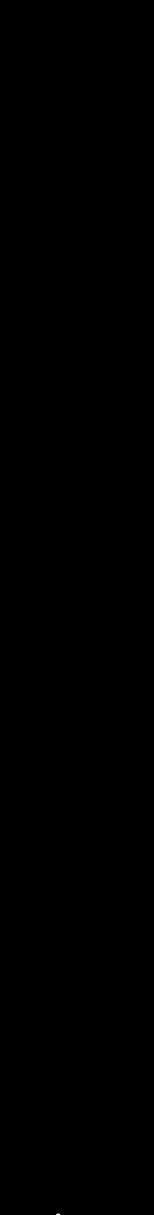
"in the standaren't automated"





"we don't know if our code currently works"





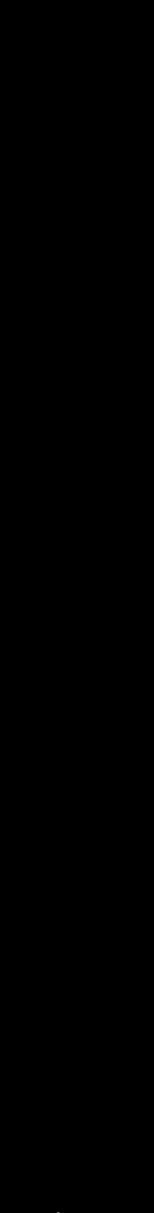
"we don't know if our code currently works"





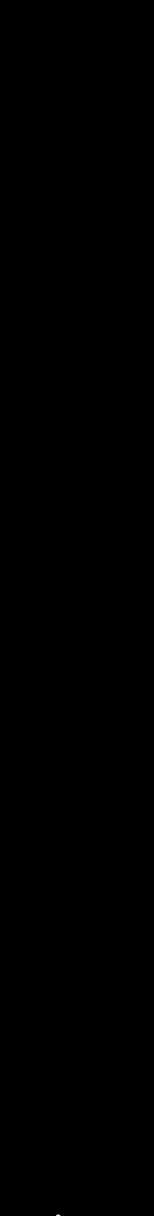
"it costs too much to release"

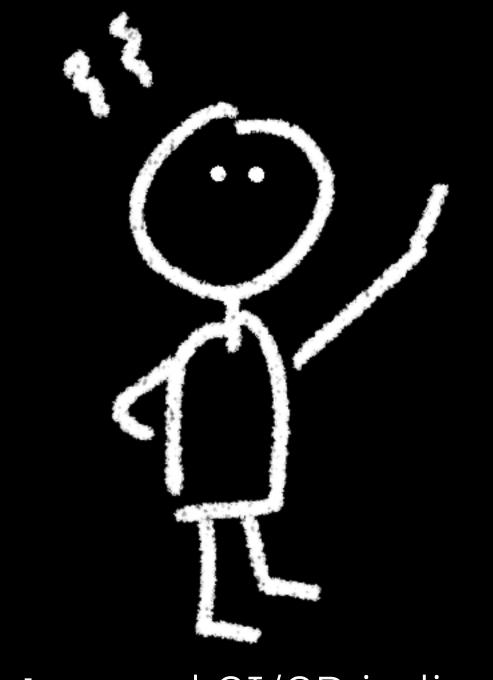




"it costs too much to releas can fix that





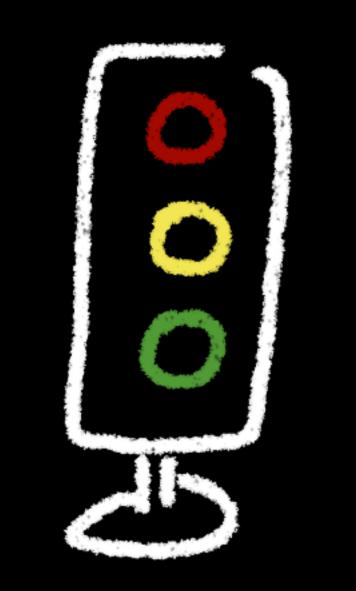


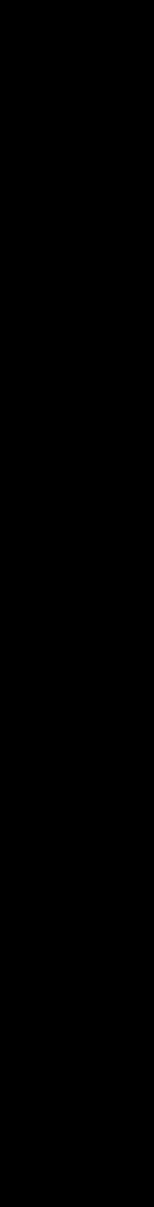
not a good CI/CD indicator

"we don't know when the build is broken"



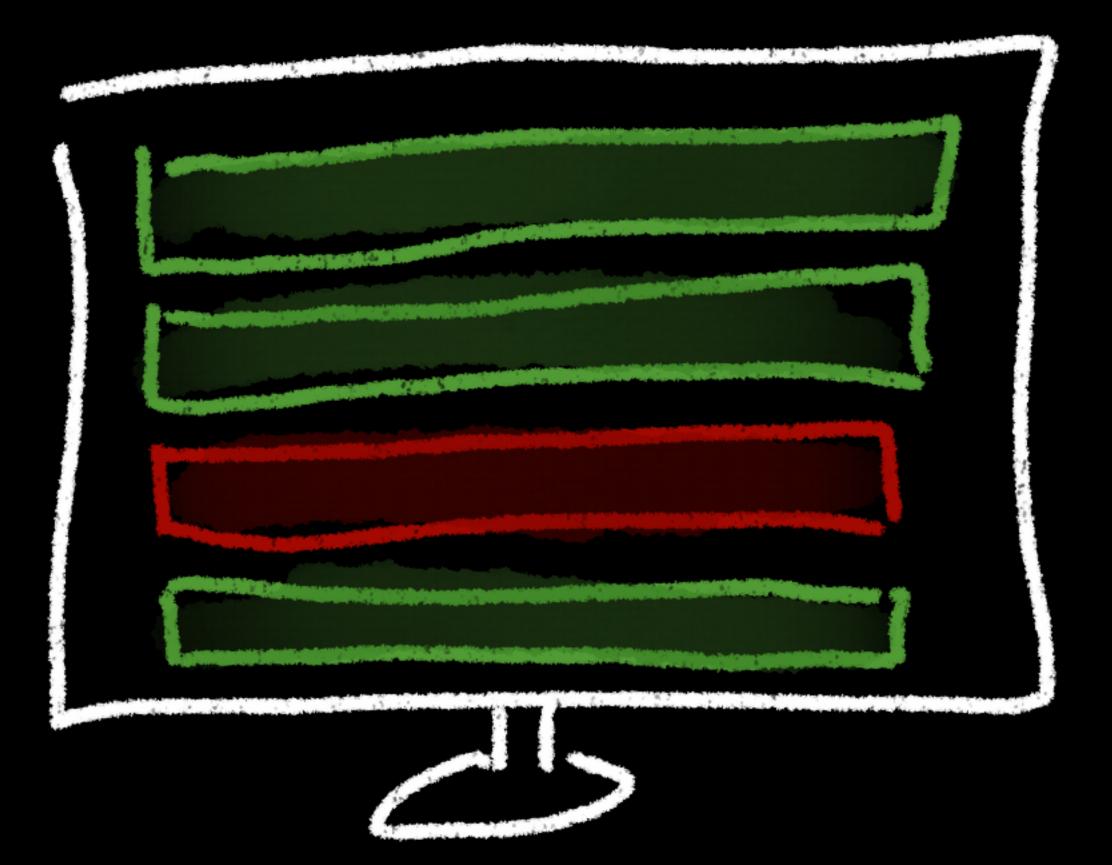
a good CI/CD indicator

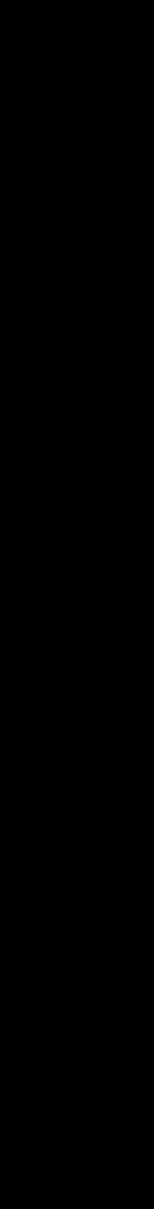




get the pipeline status into the physical spaces

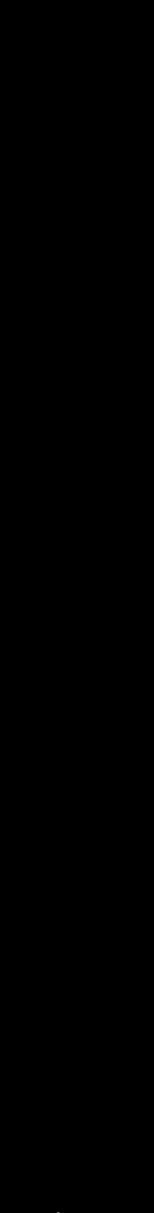


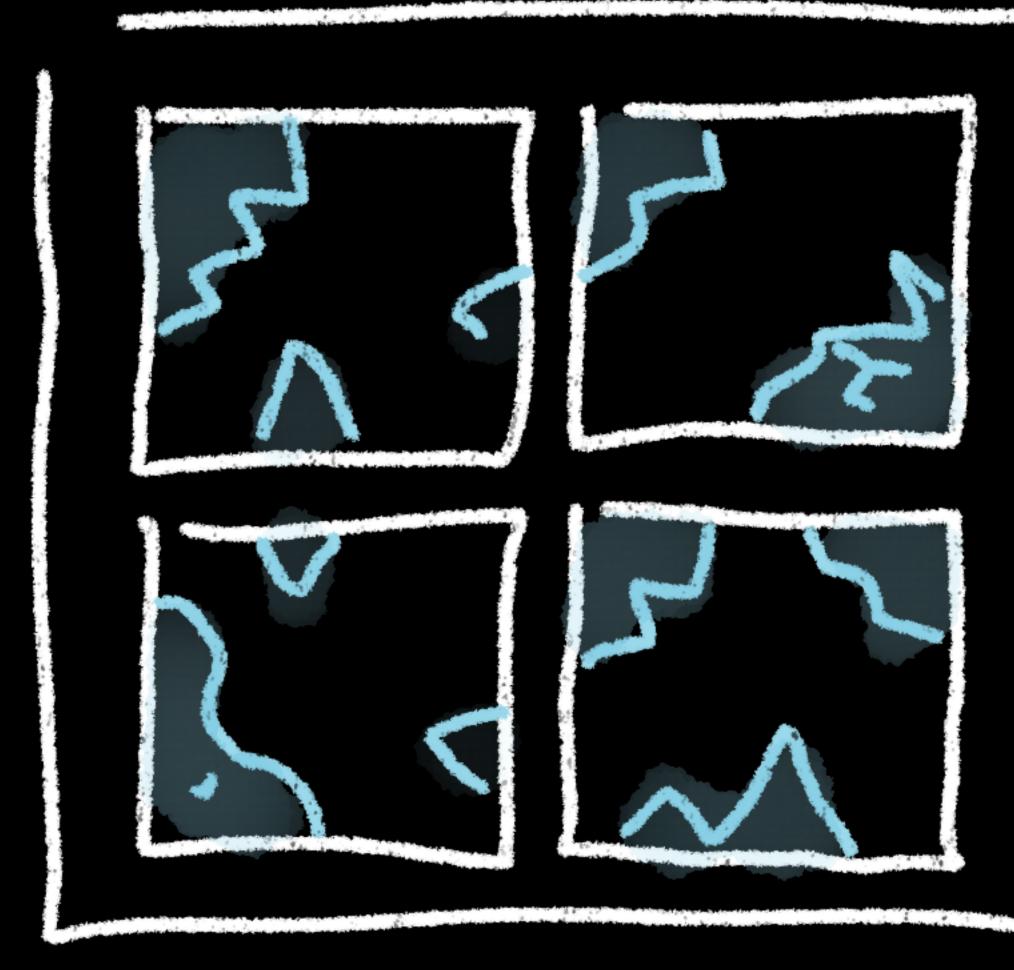




"only Bob can change Jenkins"

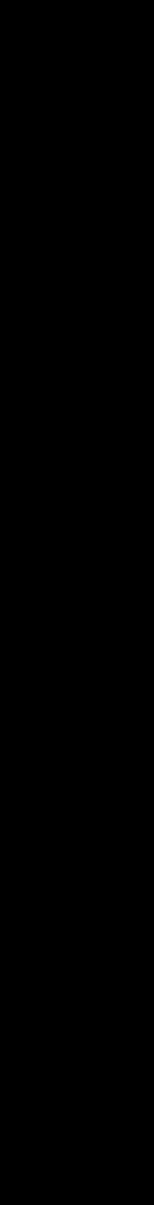


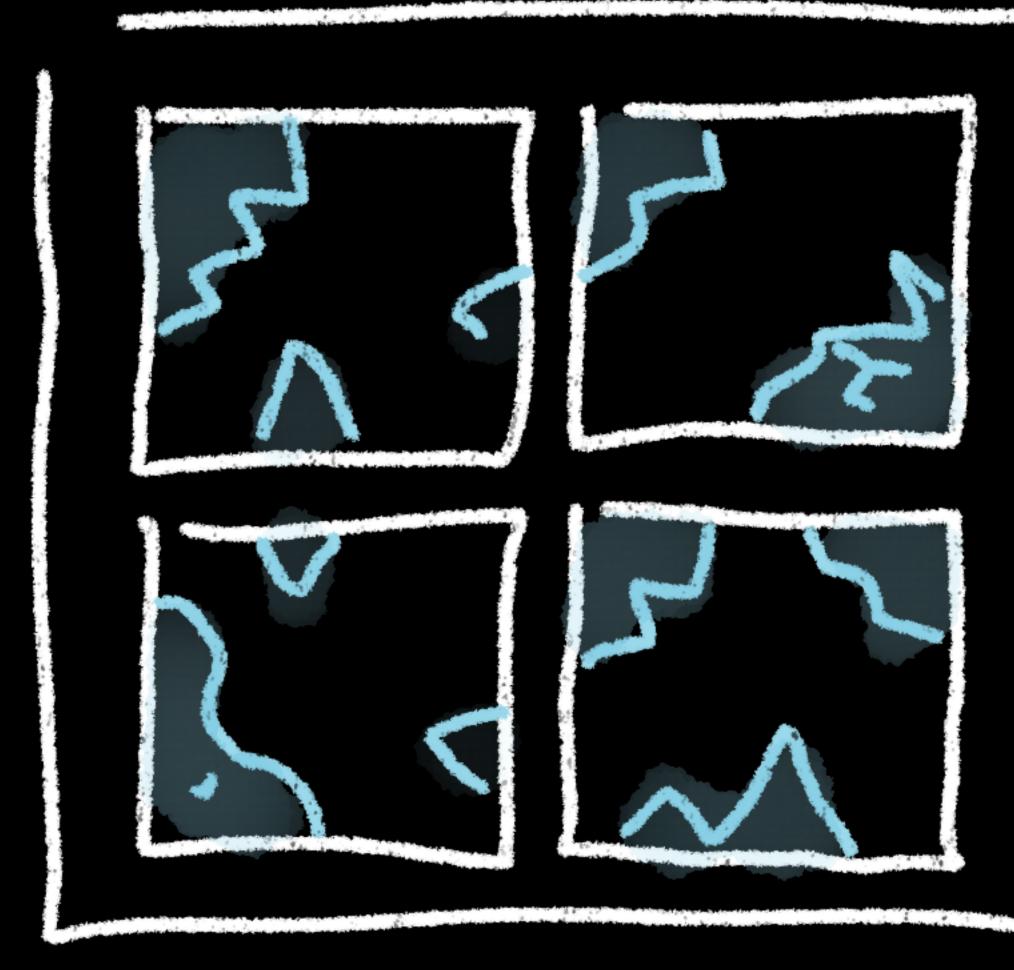






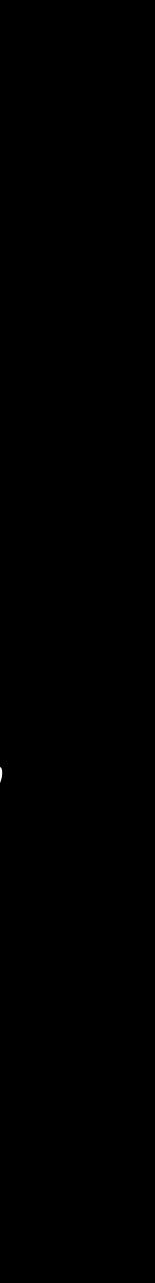






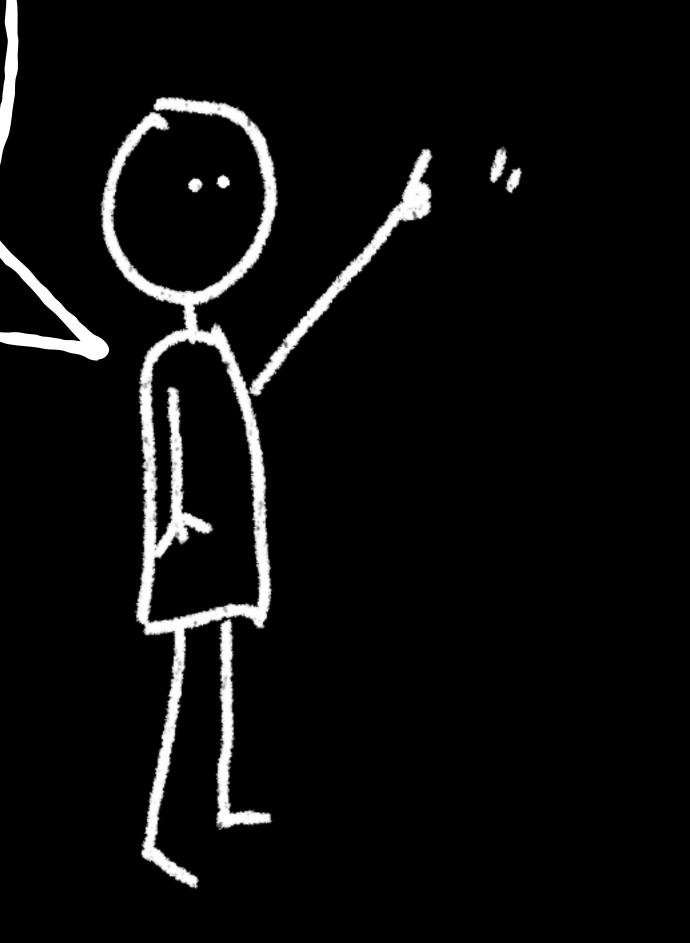


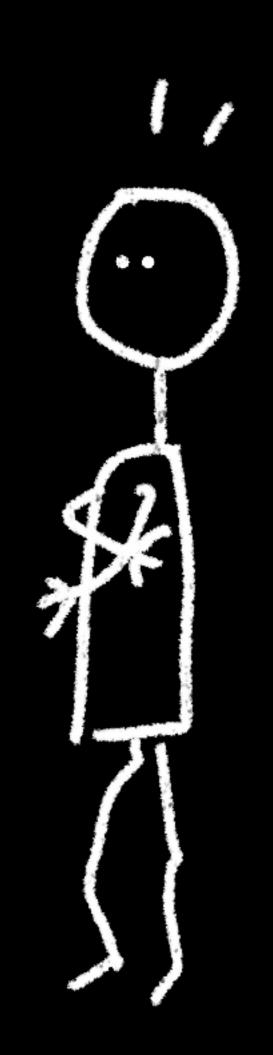
"oh yes, that build has been broken for a few weeks..."

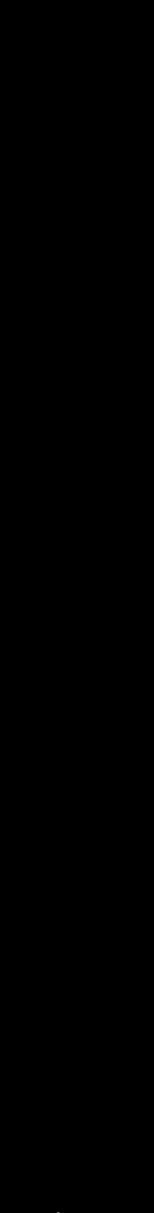


judge judge judge judge









modern devops

many, single-tenant toolchains

hybrid and multicloud toolchains and deployments

toolchains and processes reflect cloud native apps and cultural transformation

> toolchains support lean delivery processes and business agility

heritage devops

toolchains and processes reflect heritage apps and cultural inertia

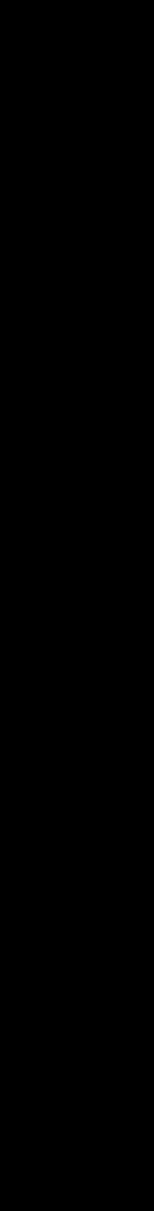
shared, multi-tenant toolchain "backbone"

on-premise automation tools release management and dependency coordination are hard



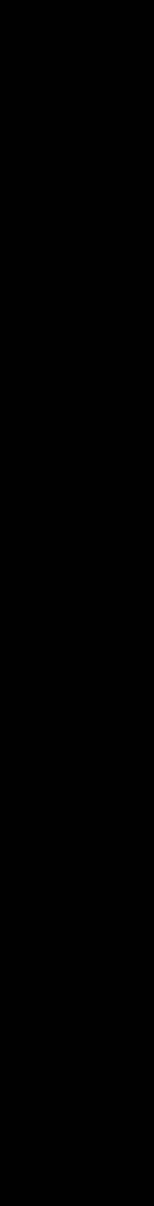


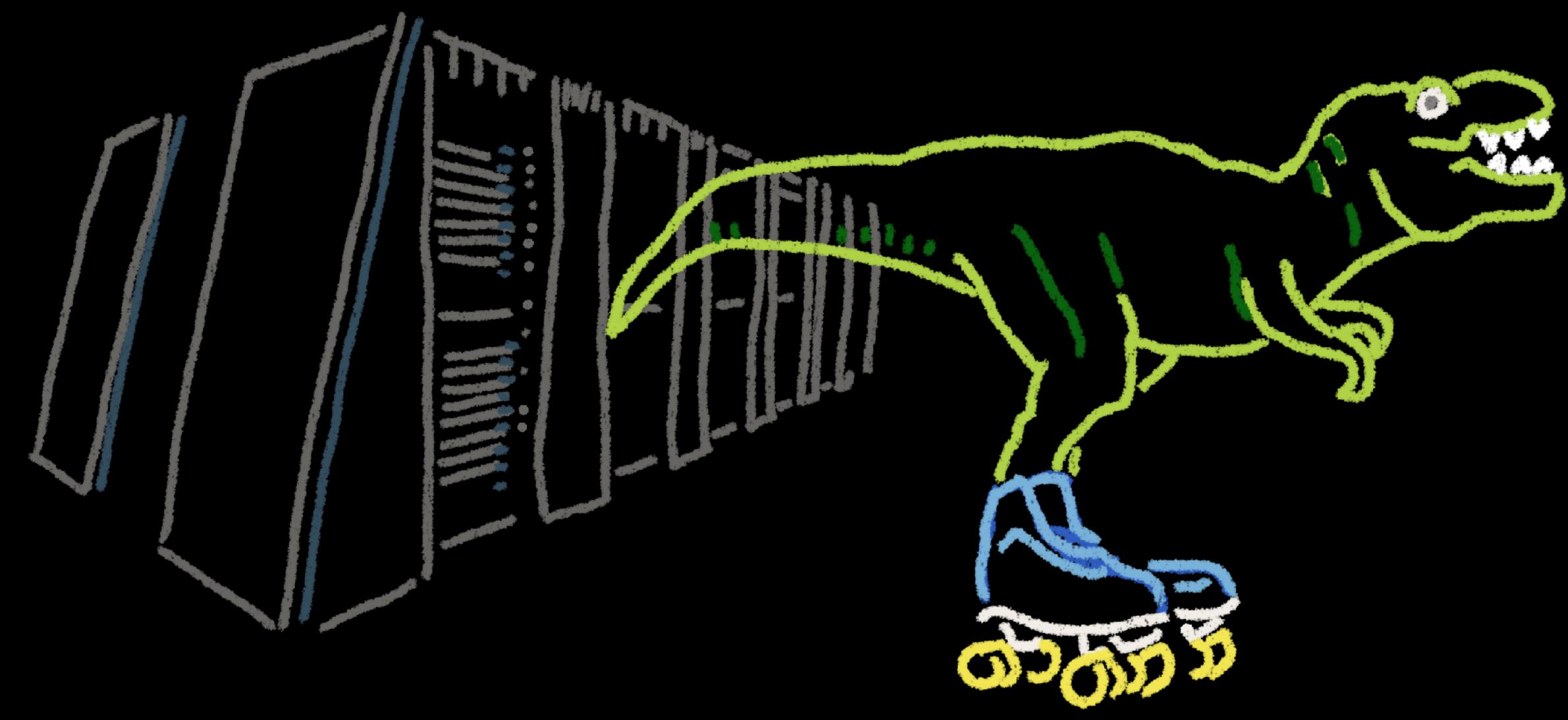
"you'll be coding on the mainframe"



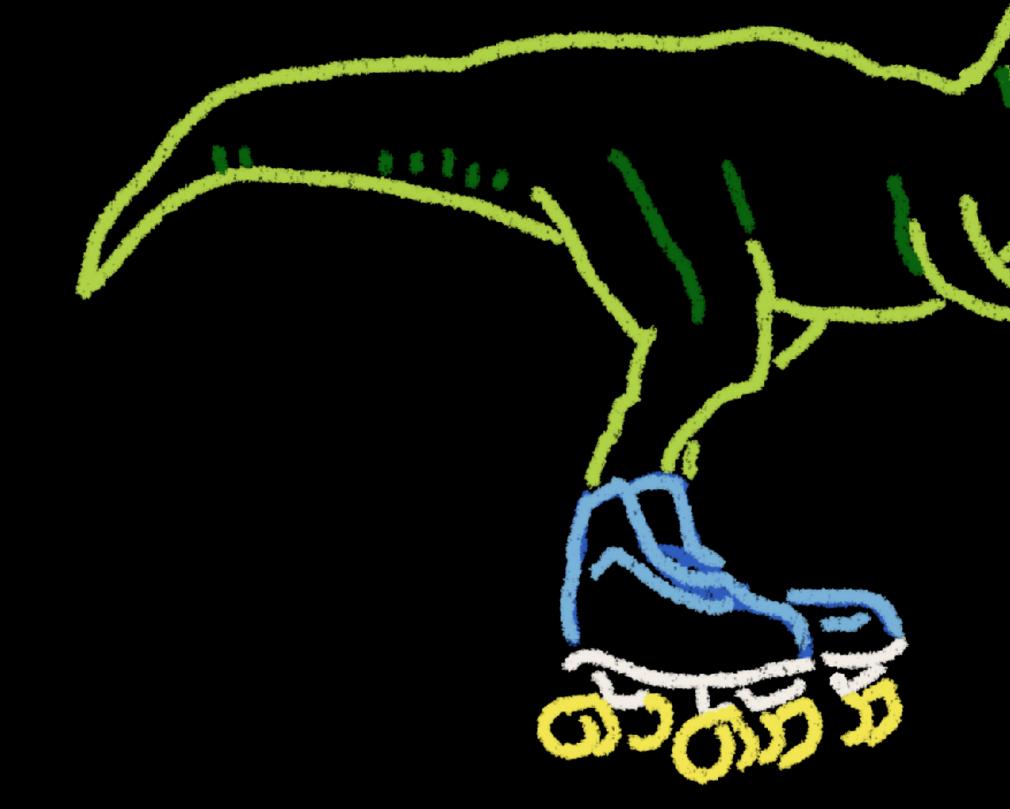






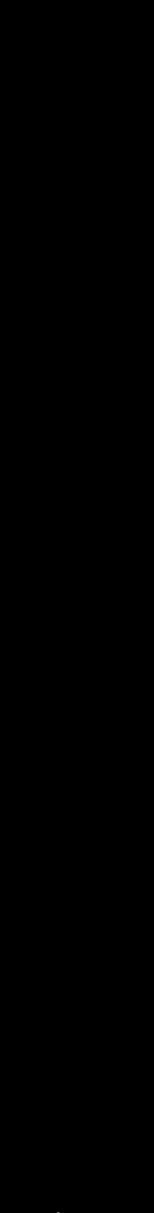






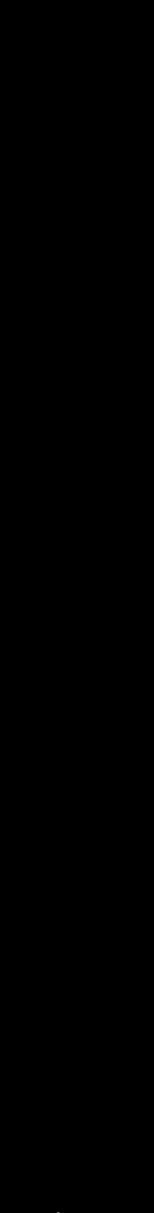


this can get tiring



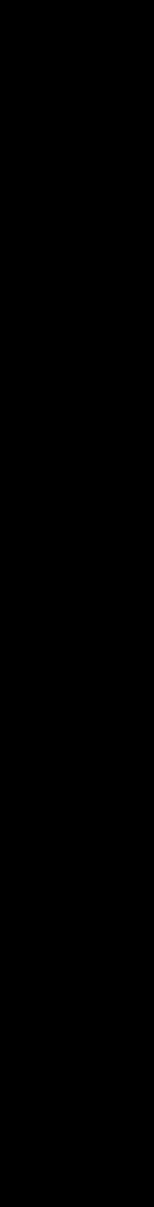
transformation endurance





remember the why





@holly_cummins IBM Cloud Garage

