

Introducing The Reliability Map

r9y.dev



Steve McGhee
Reliability Advocate, SRE

This is a Call for Participation in a community around reliability.

(Definitely not a Google product)



Fred Foostone

Chief Foo, FooCorp

Hit the brakes Wait, What?

"SRE, Reliability, DevOps, Platforms"???

- Monitoring, Capacity Planning, Incident Response, Automation, Scaling, Chaos Testing, IaC ...

This is a **LARGE** space, which part exactly?

Can't you just **TELL** me what to do?



Best Practices

"Please tell us the Best Practices for Operations".

"Please provide some Best Practices for Monitoring"

"Please show some Best Practices for Reliability"

"Please provide a workshop for SRE Best Practices."



Context Matters

Best practices are

A Solution to a problem

In Context

Without knowing the context ...

We can only guess at which solution to offer!



How to Help?

Need to first extract the missing context.

Then we can attack
each problem
with a set of known
solutions

(buy/adopt), or develop something new (build).





Analogy Time



Your Platform

A team already runs on a platform, (whether they know it or not)

How does your code get to prod? All those things, that's the platform.

Hint: It may be **socio-technical**! (i.e. not just tech)



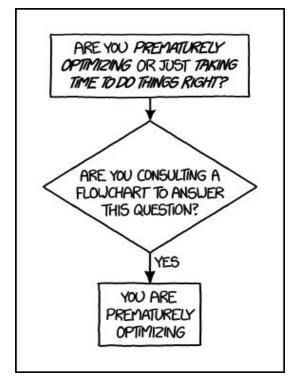
Where to Focus

"Premature Optimization is the root of all evil"

Don't try to build a detailed 4 year plan.

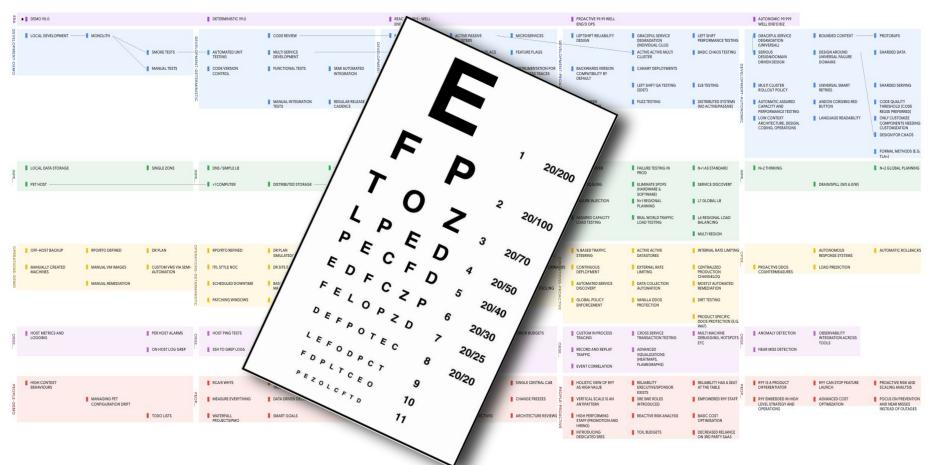
Do ask: "What do we need next?"

Consult a map of the space.



https://xkcd.com/1691

Brace Yourself

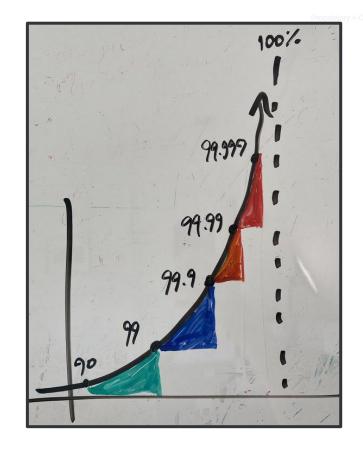


Choose Your Destination

Ease up, Turbo!

Not everything needs 99.999% availability.

Each era (column) costs ~10x as much as the last one



the asymptote of 9s: y-axis: cost x-axis: return

Choose Your Destination

What is the capability, why is it needed?

CODE REVIEW

A part in your winner only green that enrices the inquirement of enrolled enrich registered sign of the inquirement of enrolled enrich production and enrolled en

How you can get it? (adopt, build, buy)



Any prerequisites (previous required capabilities)? Related capabilities or terms?



What was that ?!



You can find (and read!) the reliability map on <u>r9y.dev</u>



It's not done (lotso lorem ipsum) It's not perfect!



It might not even be ... right?



Based on "tech trees" from video games (eg: Civ)

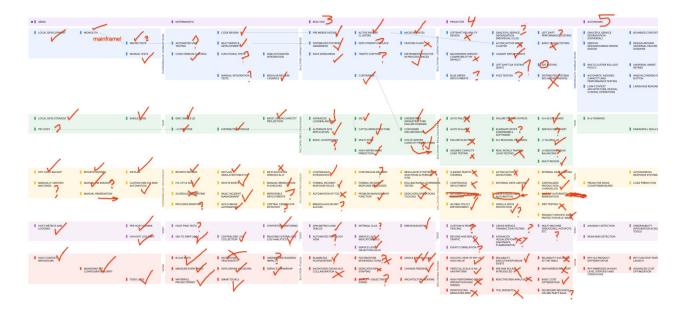
Sales Pitch goes here?

- Capabilities themselves are Cloud/Vendor Agnostic
- But Product/Tool/Vendor explicit mentions and links are welcome in details page!



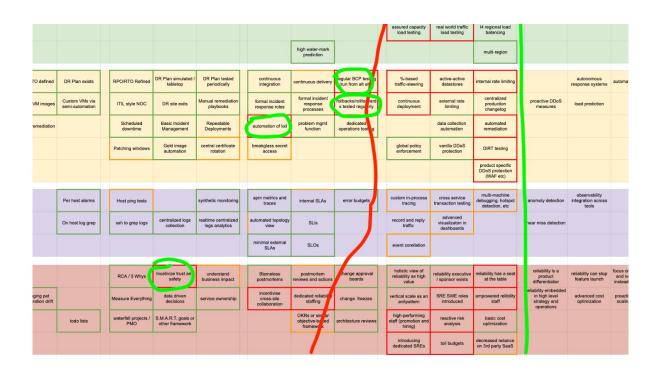
OK, so how do I use it?

- Set your context, Starting
 Point "You are here"
- What are we already capable of in our platform, today?



OK, so how do I use it?

- Set your context, Starting
 Point "You are here"
- What are we already capable of in our platform, today?



So What?

The map can provide two types of insights:

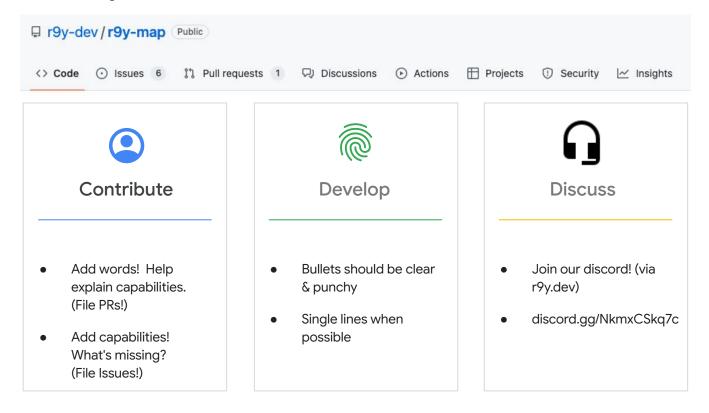
- Tactical: what to work on now, today, to move toward appropriate reliability
- **Strategic**: a roadmap, which will evolve over time
 - Prevent future re-architecting
 - Rationalize costs, prevent waste

What's Next?

- Inverse Map: if I adopt X, what capabilities do I get?
 - Or: Overlays drawn over map
- Paths: known-good progressions
- "Purchase Order + OKRs" Mode output my plan
- Self-assessment mode no more pen on paper



How Can I Help?



Hey Vendors

We want to hear from Vendors, too!

What capabilities does your solution provide? Please add yourself!

(note: please do not delete your competitors, :P)



Photo by <u>Jason Goodman</u> on <u>Unsplash</u>

In Conclusion

Reliability is a big space, it deserves a big map.

- Don't expect to "buy some nines" it's a journey!
- Not sure where to turn? Consult the map!
 - Figure out where you are
 - Decide where you're going
 - Take the next turn!



Thank you.