I Can Sell You Observability...



But You Can't Buy It.



Who Am I?

Austin Parker

Principal Developer Advocate



@austinlparker



austin@lightstep.com



Co-Author, Distributed Tracing in Practice (O'Reilly, 2020)





Observability is the process and practice of understanding your system.



Monitoring vs. Observability

Monitoring, as a discipline, requires you to predefine *normal* and then freeze it, with ruthless efficiency, suborning agility and humanity and adaptiveness in the sake of producing a steadystate system.

THENEWSTACK

There's too many unknowns in modern software to just throw together some dashboards and call it a day.

Think about the things you might need or want to know...

- "Why does a particular type of user account have worse response times?"
- "What's correlated with this particular failure?"
- "When did this error start occuring?"









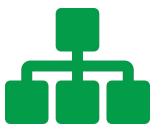
The 'Three Pillars'







Log Aggregation and Indexing



Distributed Tracing

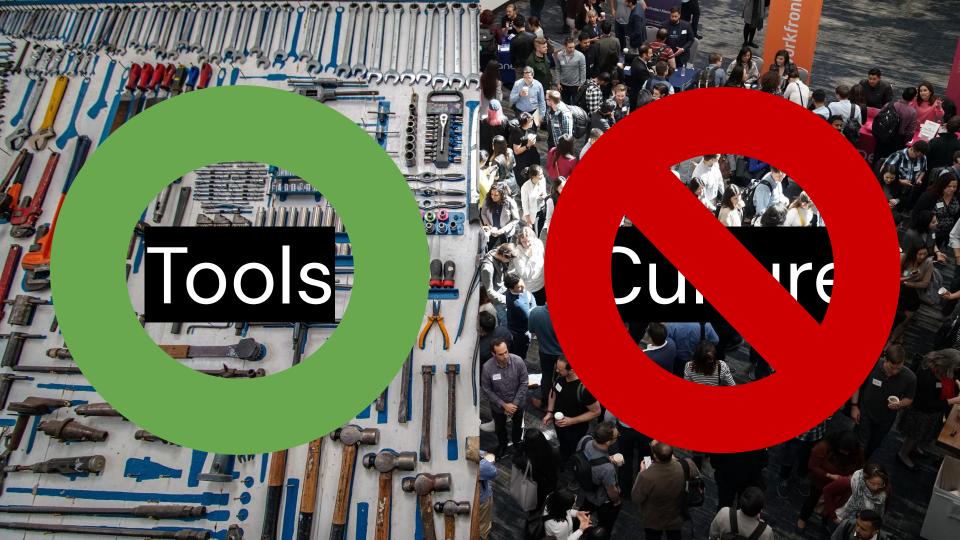


Sign Up Free!











Lessons from Google

"No matter how compelling that [observability] product experience is, developers (like all people) are creatures of habit who do not want to learn a new tool to check proactively"

From Distributed Tracing in Practice, Foreword

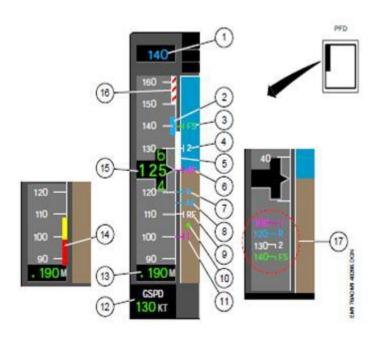
Observability tools and tooling have been in development and production for years at major organizations, but initial adoption was slow; Why?

It took integration into existing workflows to find success.



Dials and Tapes











Observability Pt. 2

Fundamentally, the goal of observability is to provide the tools, techniques, and the culture required to perform two activities:

Measure the impact of performance on your users.

Explain variations in those measurements.



Evaluation Characteristics







Cardinality Limitations



Volume Limitations



Time Limitations



Facilitating Observability Goals

Tools must narrow the search space of explanations quickly and accurately -

- Provide context
- Prioritize by end-user impact
- Automate correlation





Thank you.



