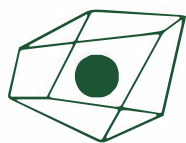


What's
a Deep
System?



Lightstep



Lightstep

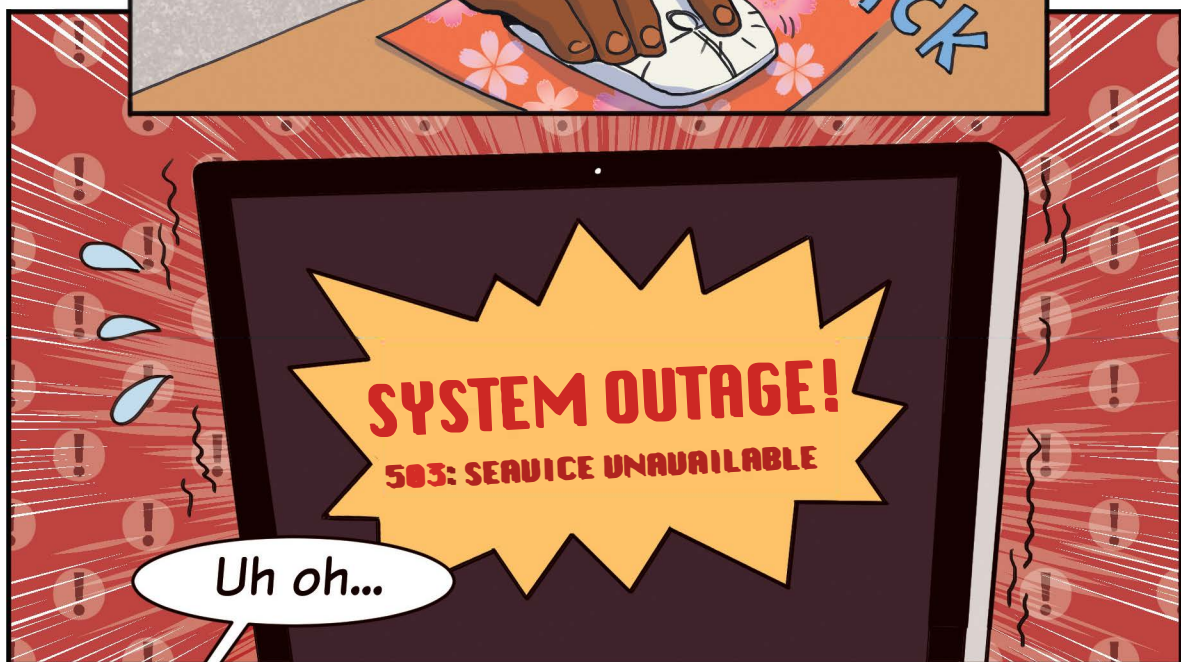
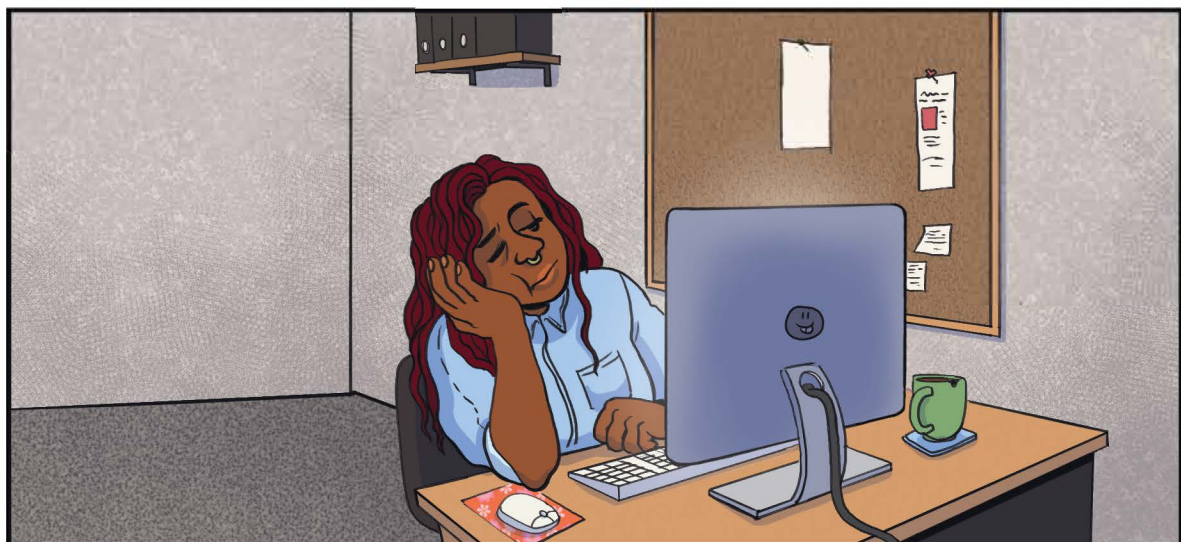
Writer:
Ashley Syed

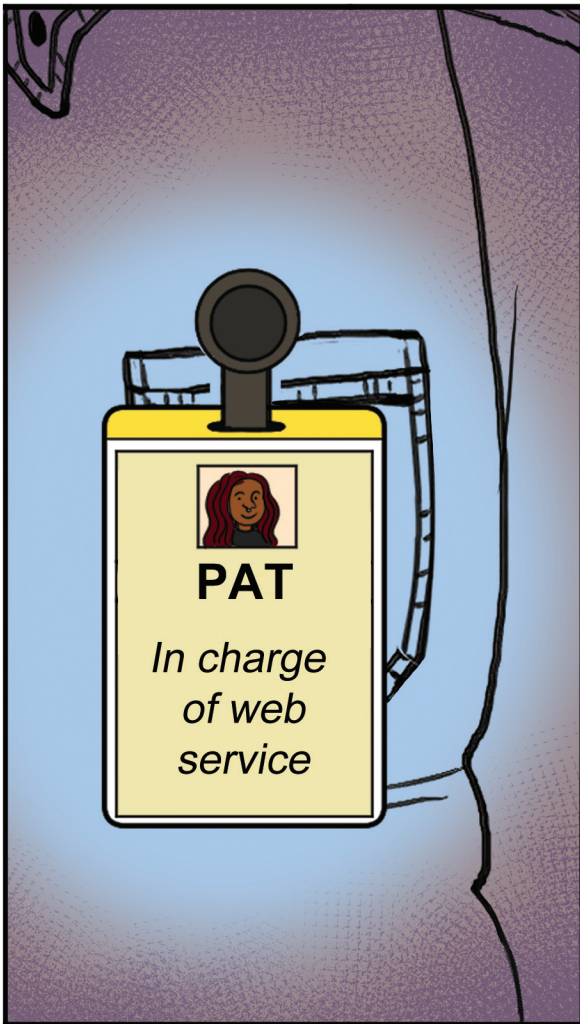
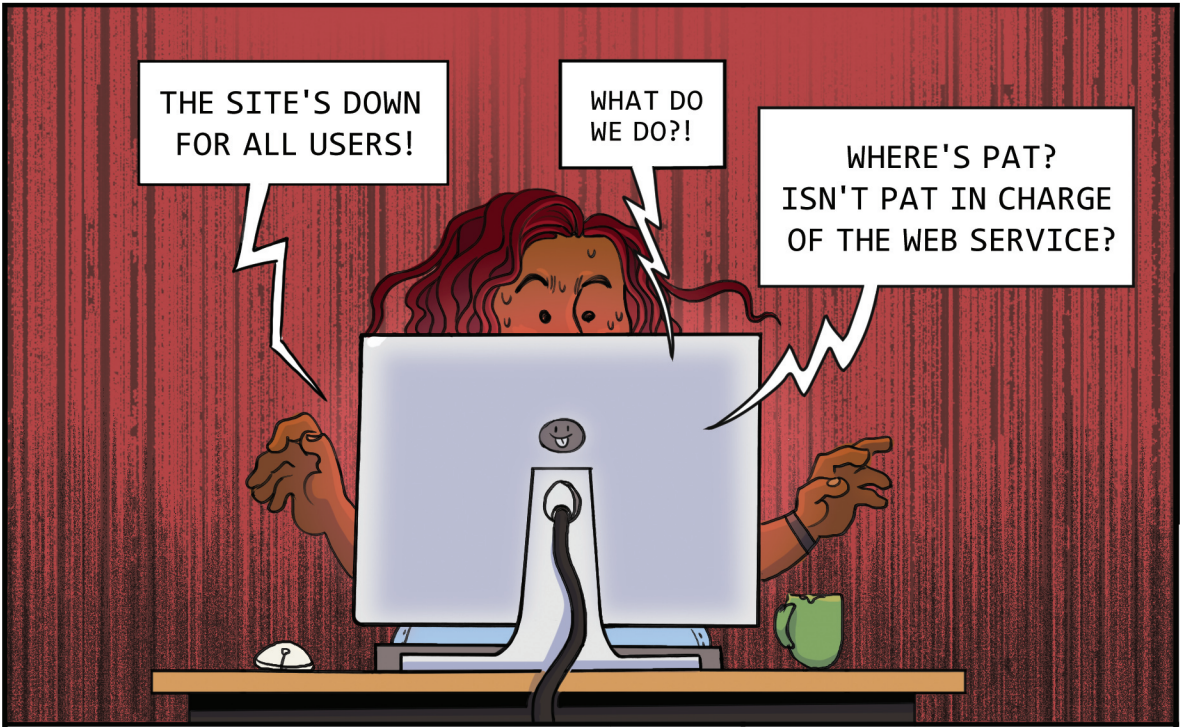
Artist:
Kat Fajardo

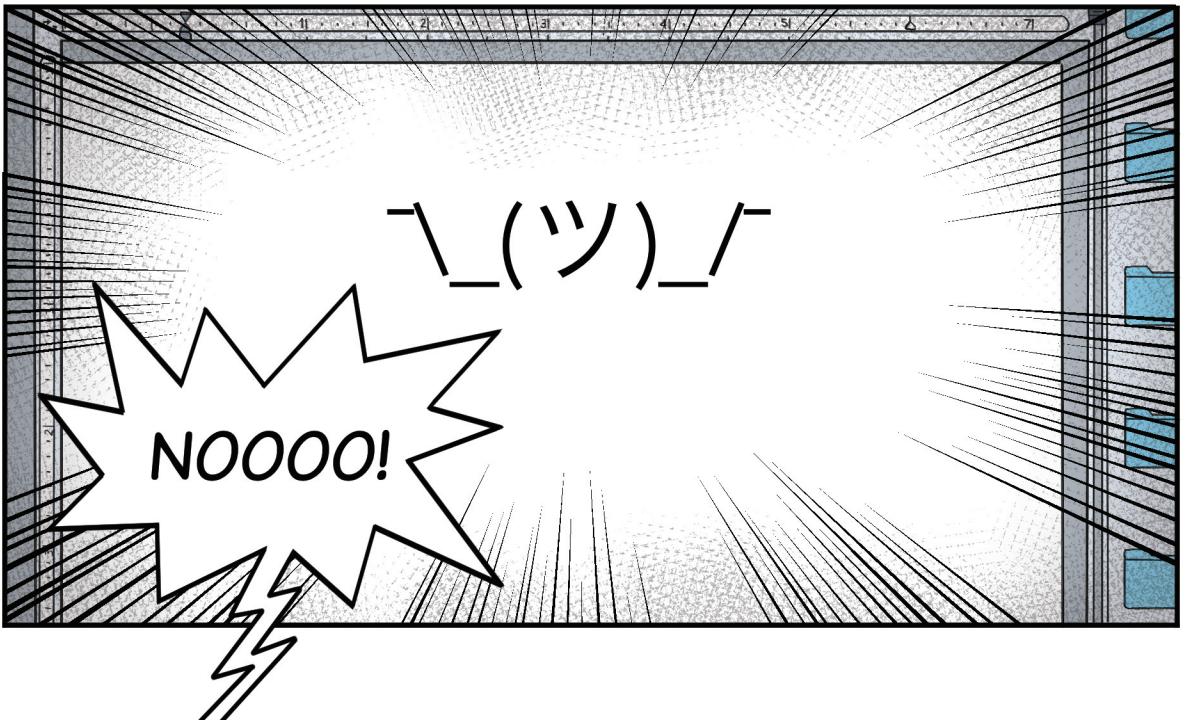
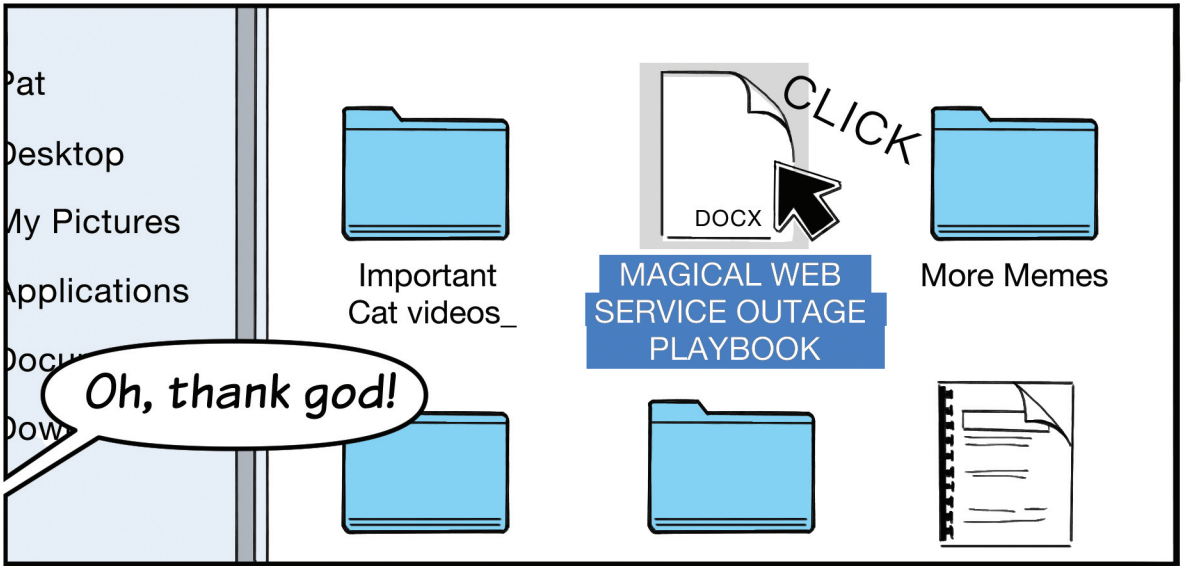
Colorist:
Pablo A. Castro

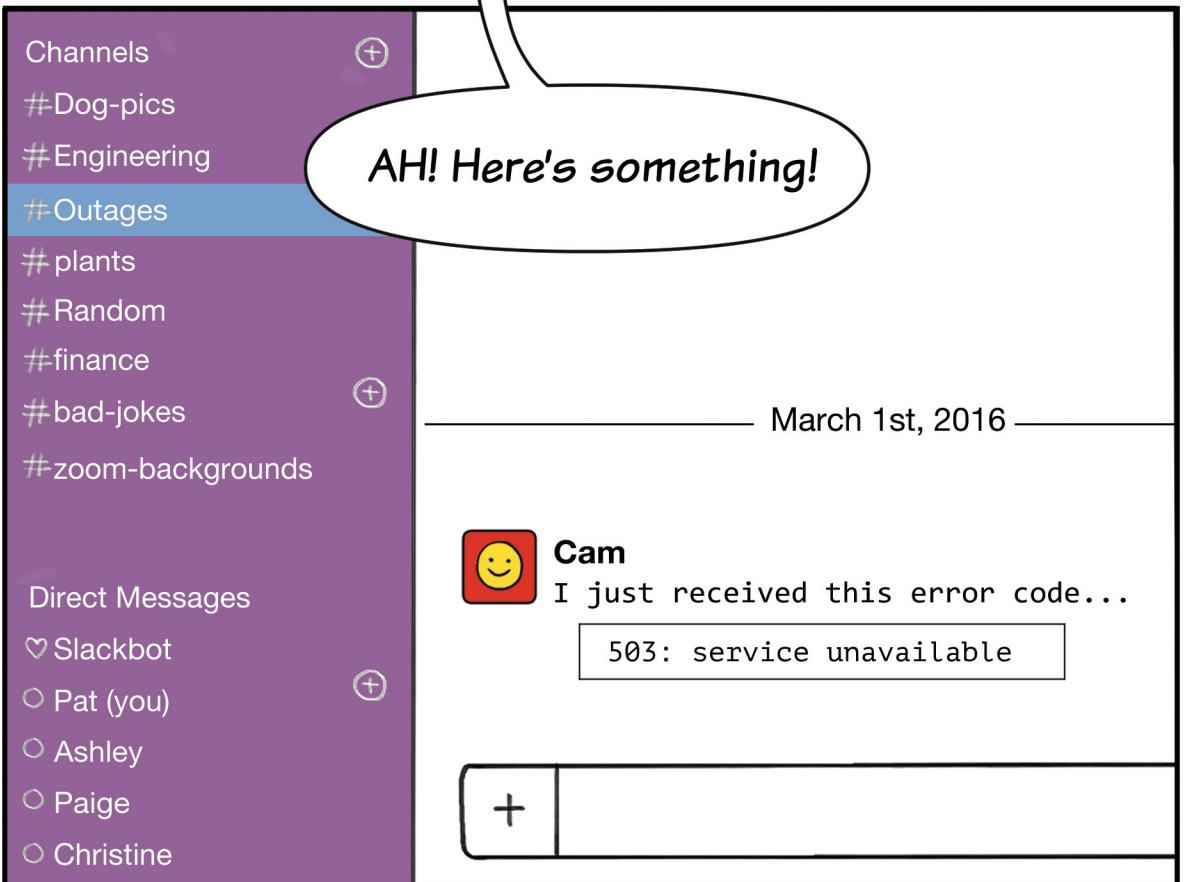
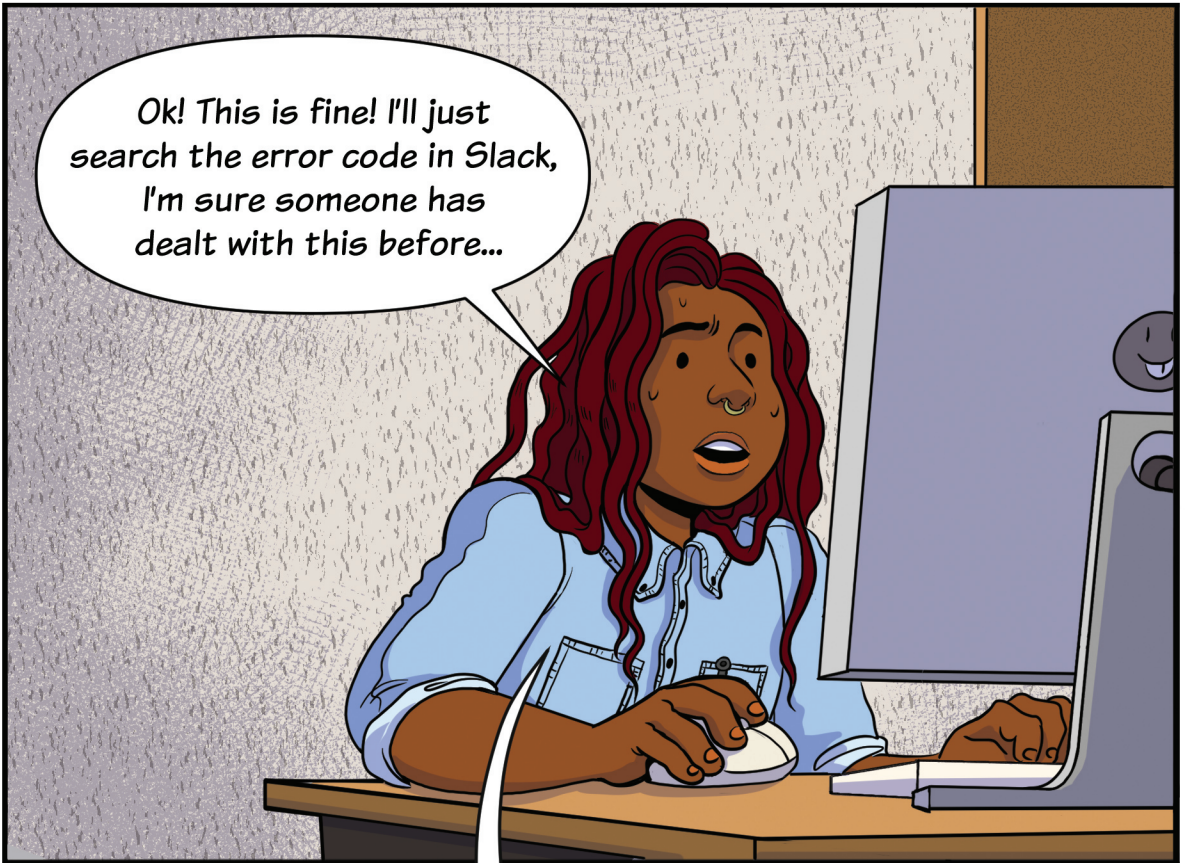
Lightstep delivers unified observability, with visibility across multi-layered architectures, enabling teams to detect and resolve regressions quickly, regardless of system scale or complexity.

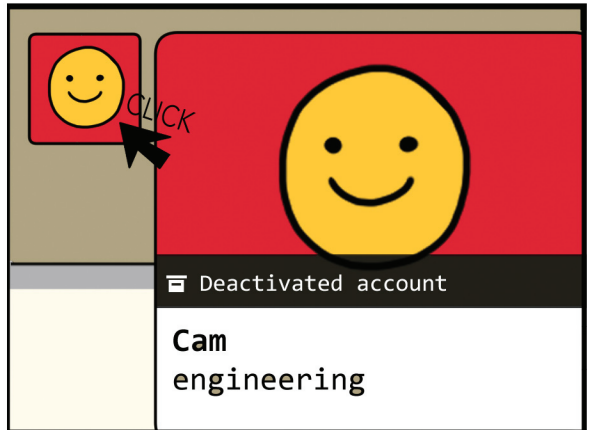
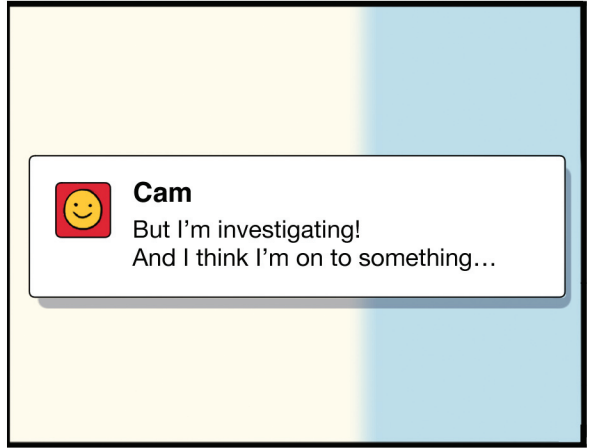
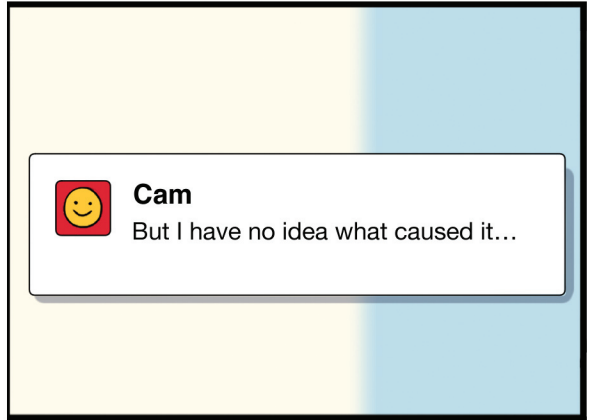
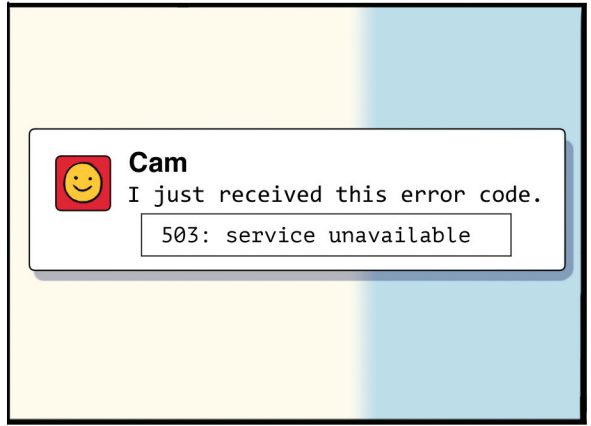
lightstep.com [@lightstephq](https://twitter.com/lightstephq) hello@lightstep.com

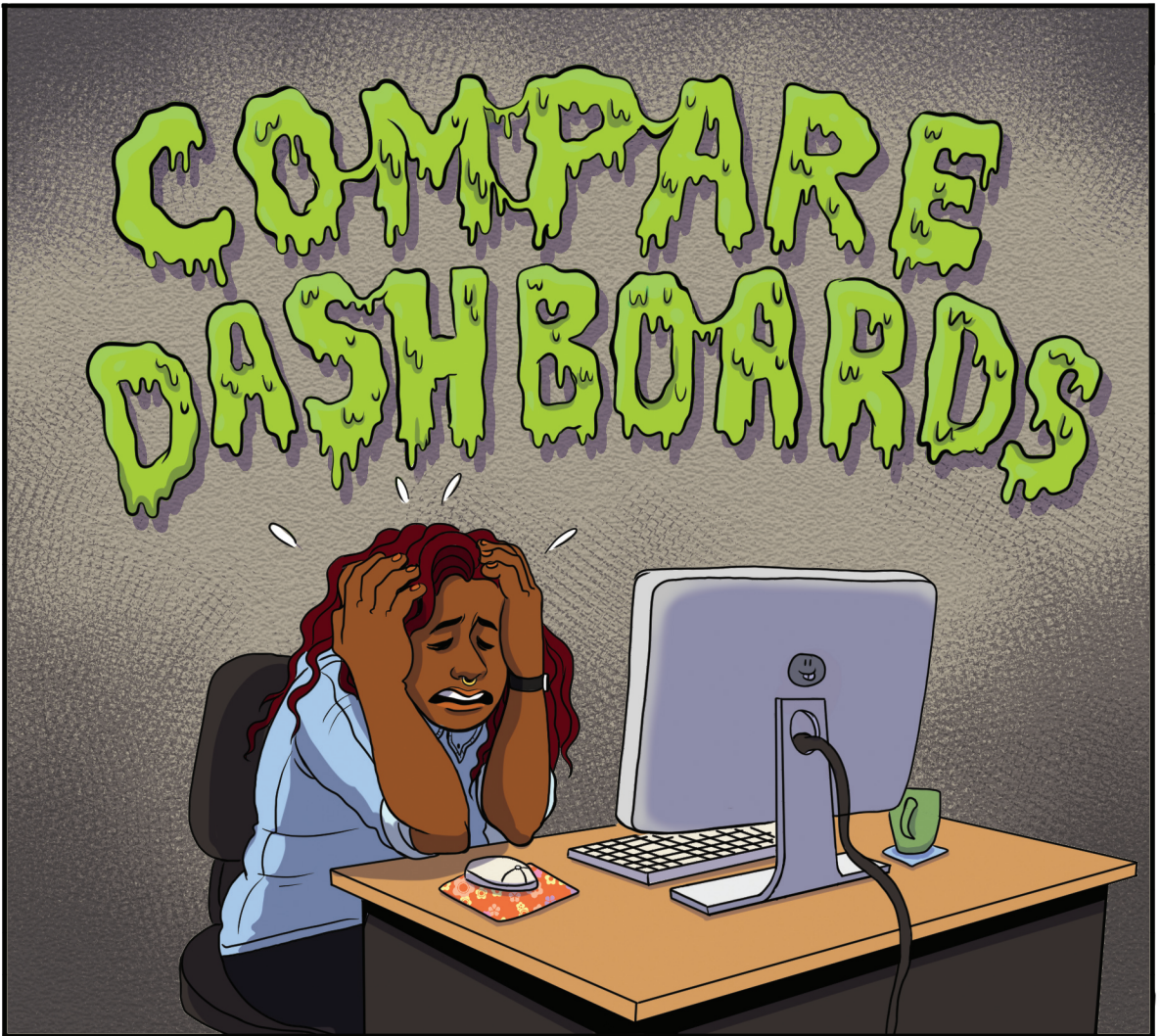


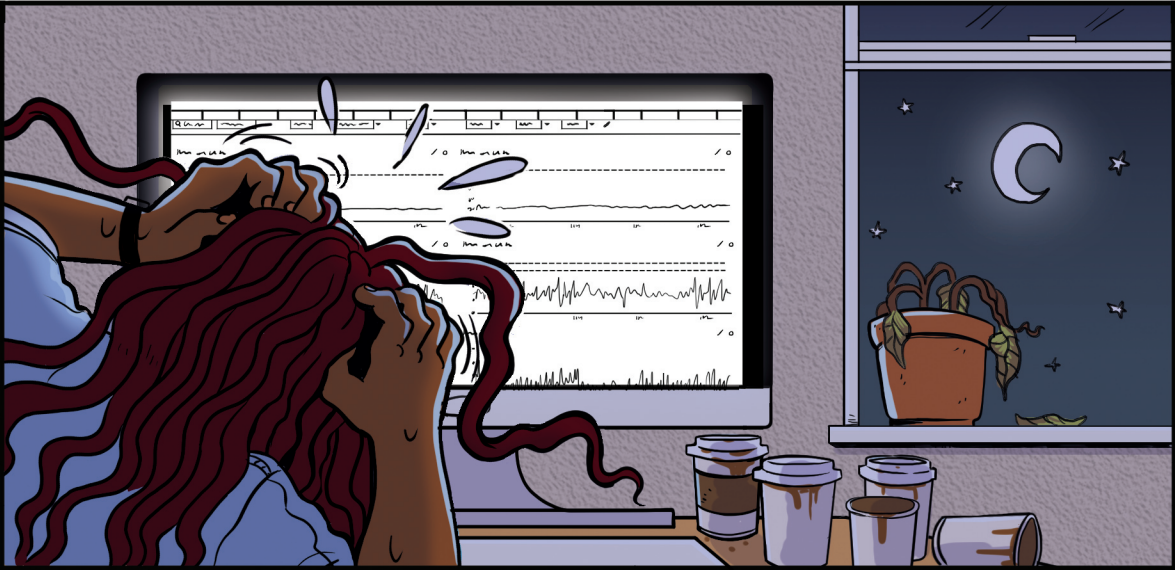
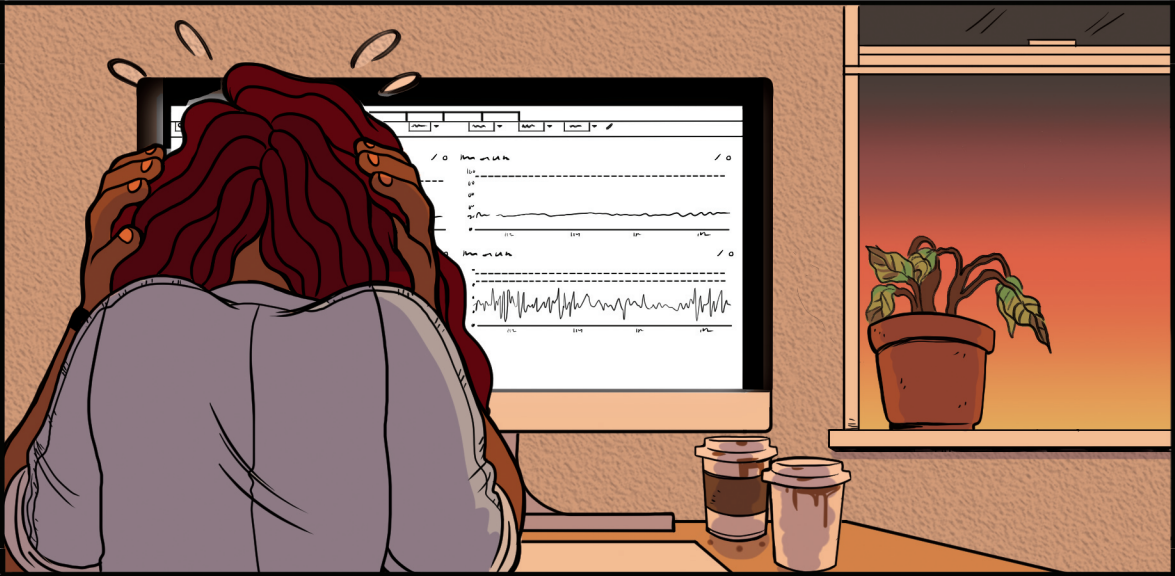
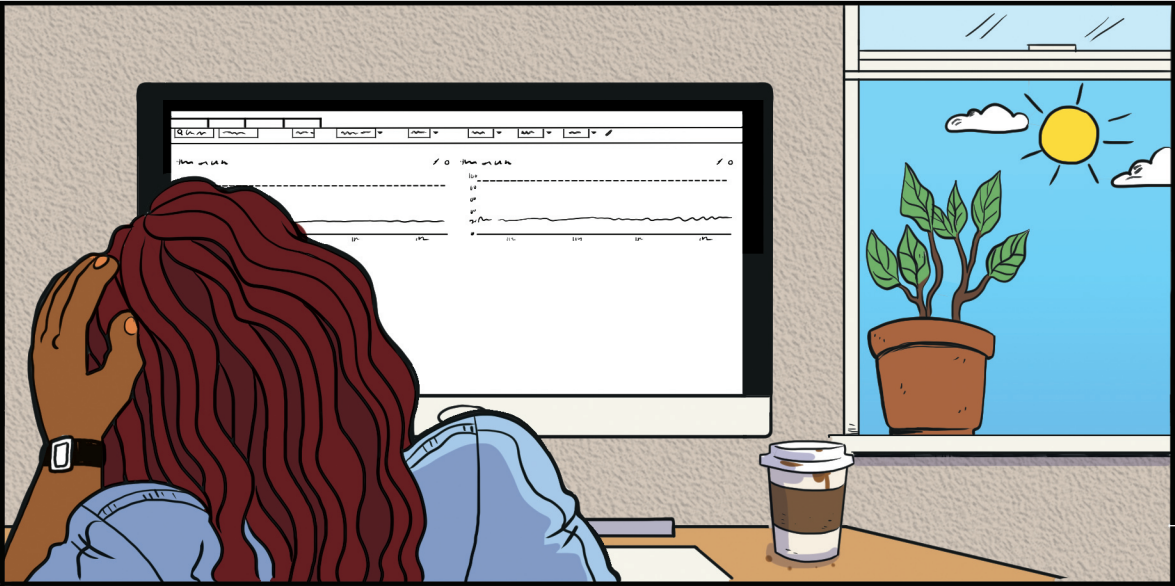












LATER THAT NIGHT...



Paaaaat? Paaaaaat?
Are you there, Pat?



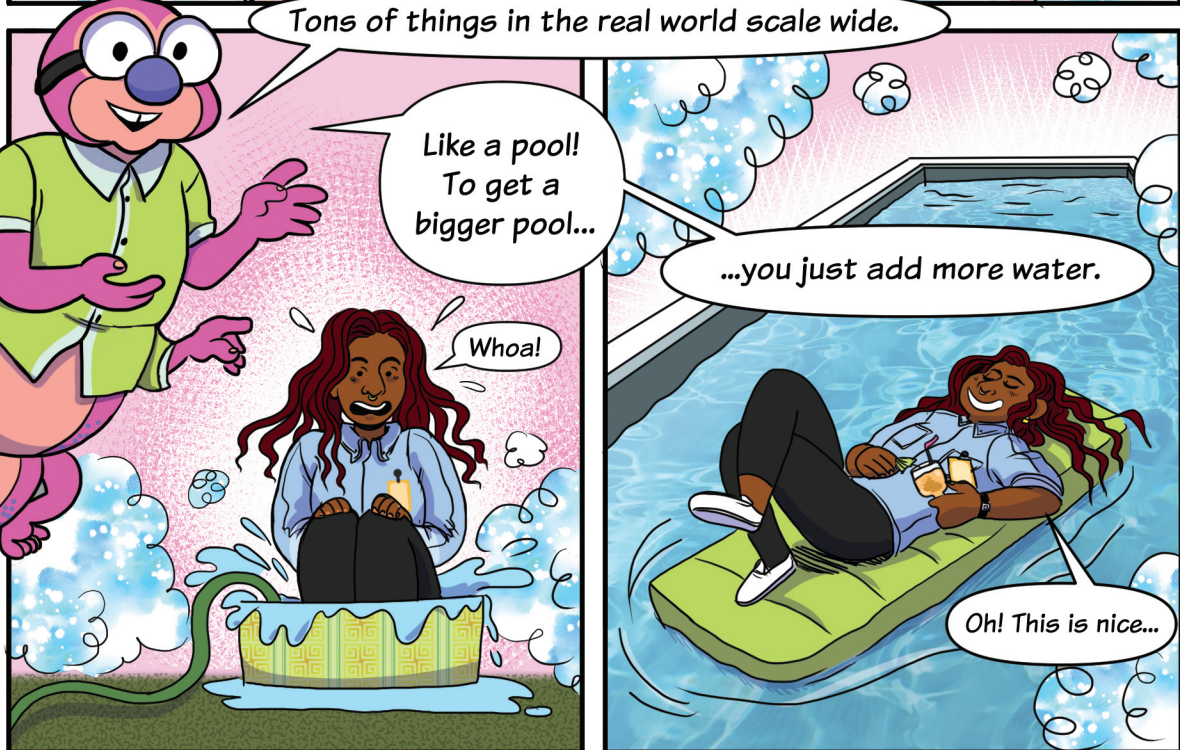
Pat! Wake up, buddy!



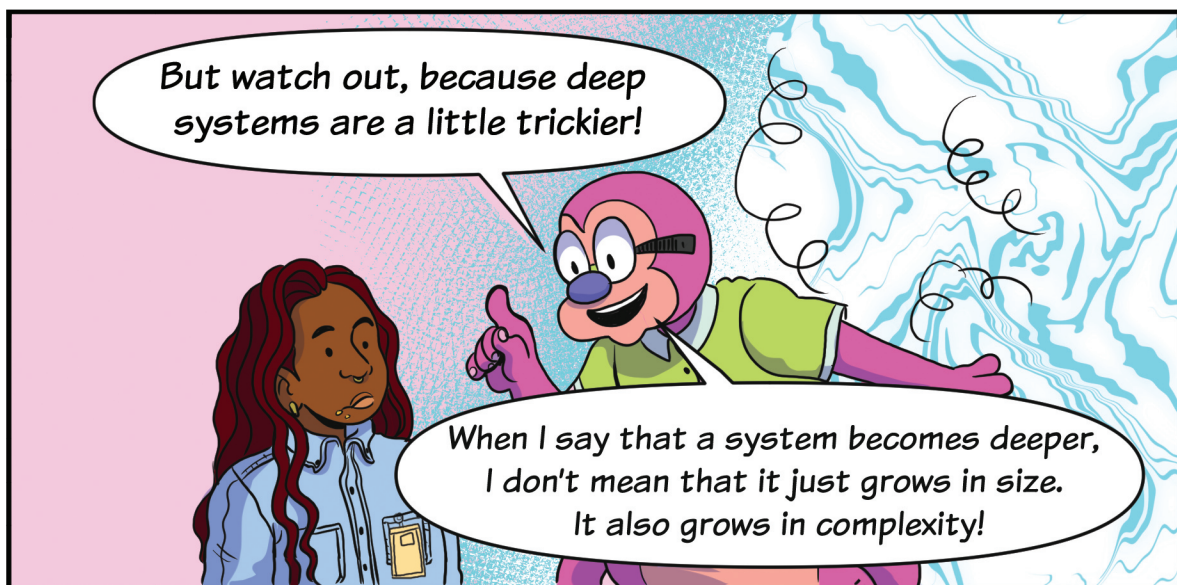
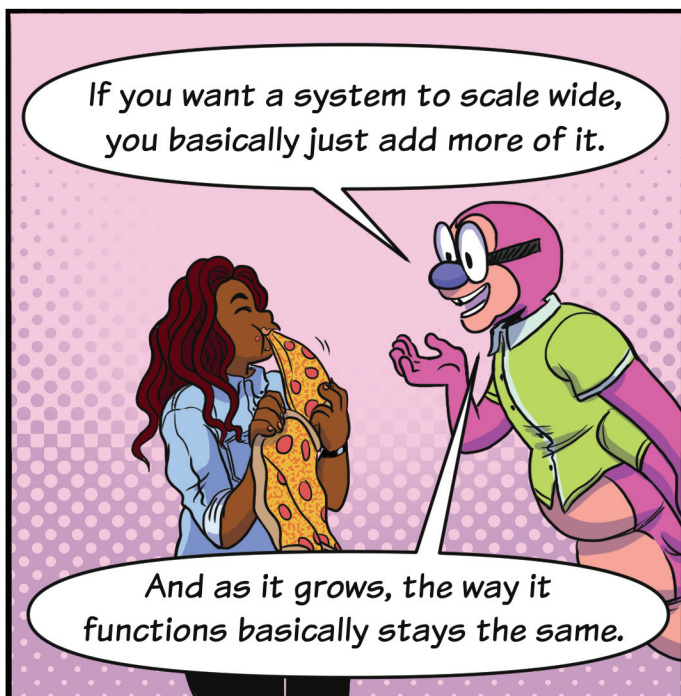
AH! Who are you?!

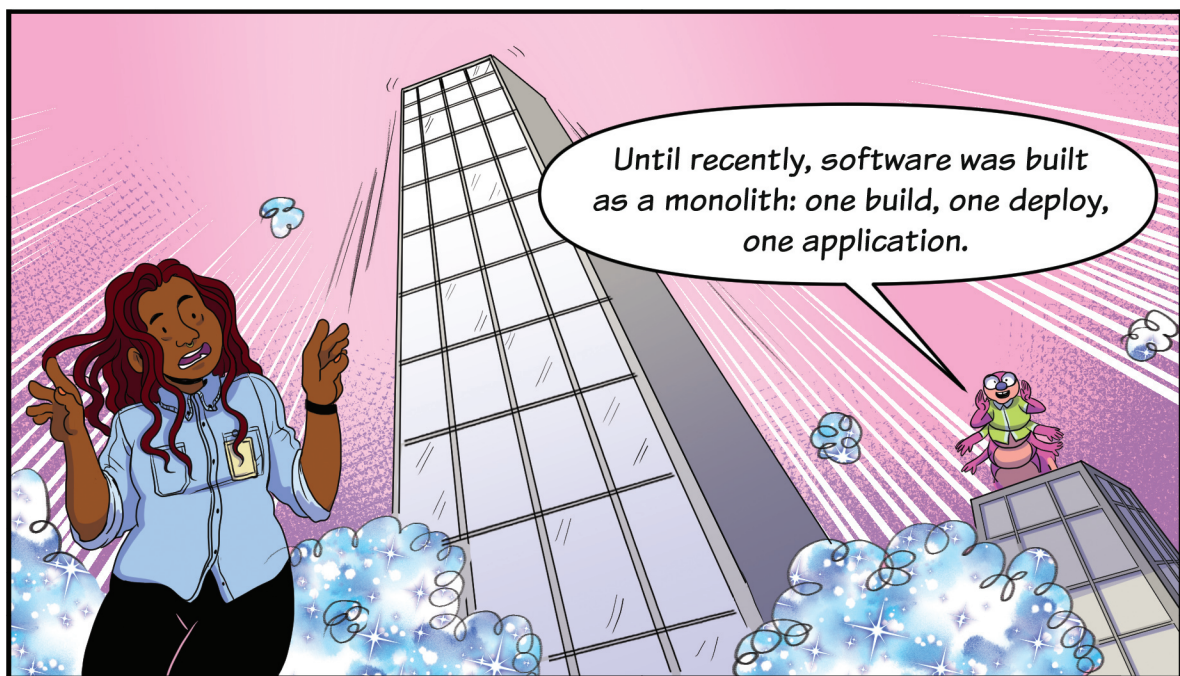
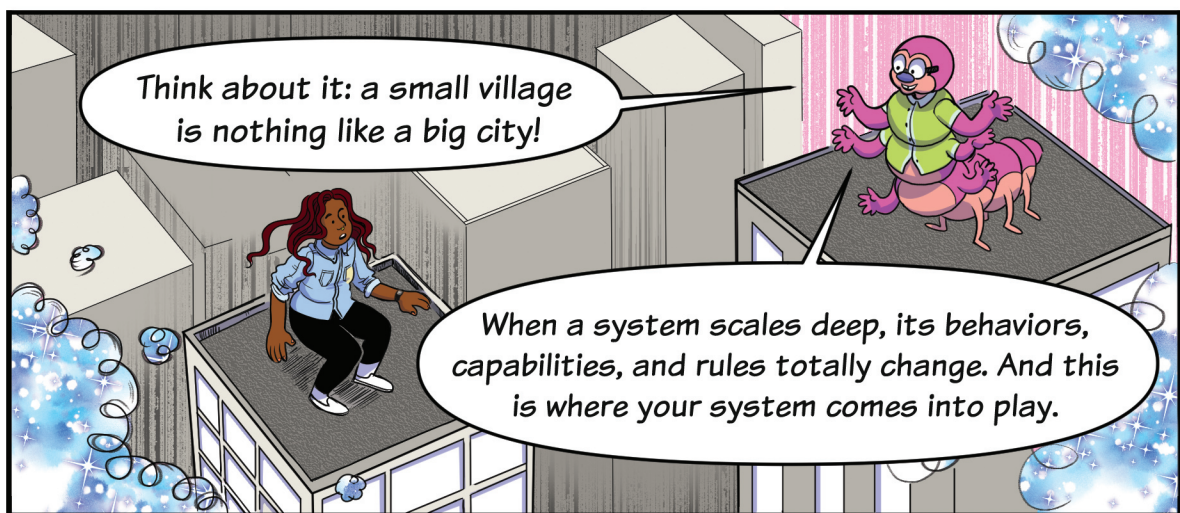
I'm the Deep Systems Daemon!

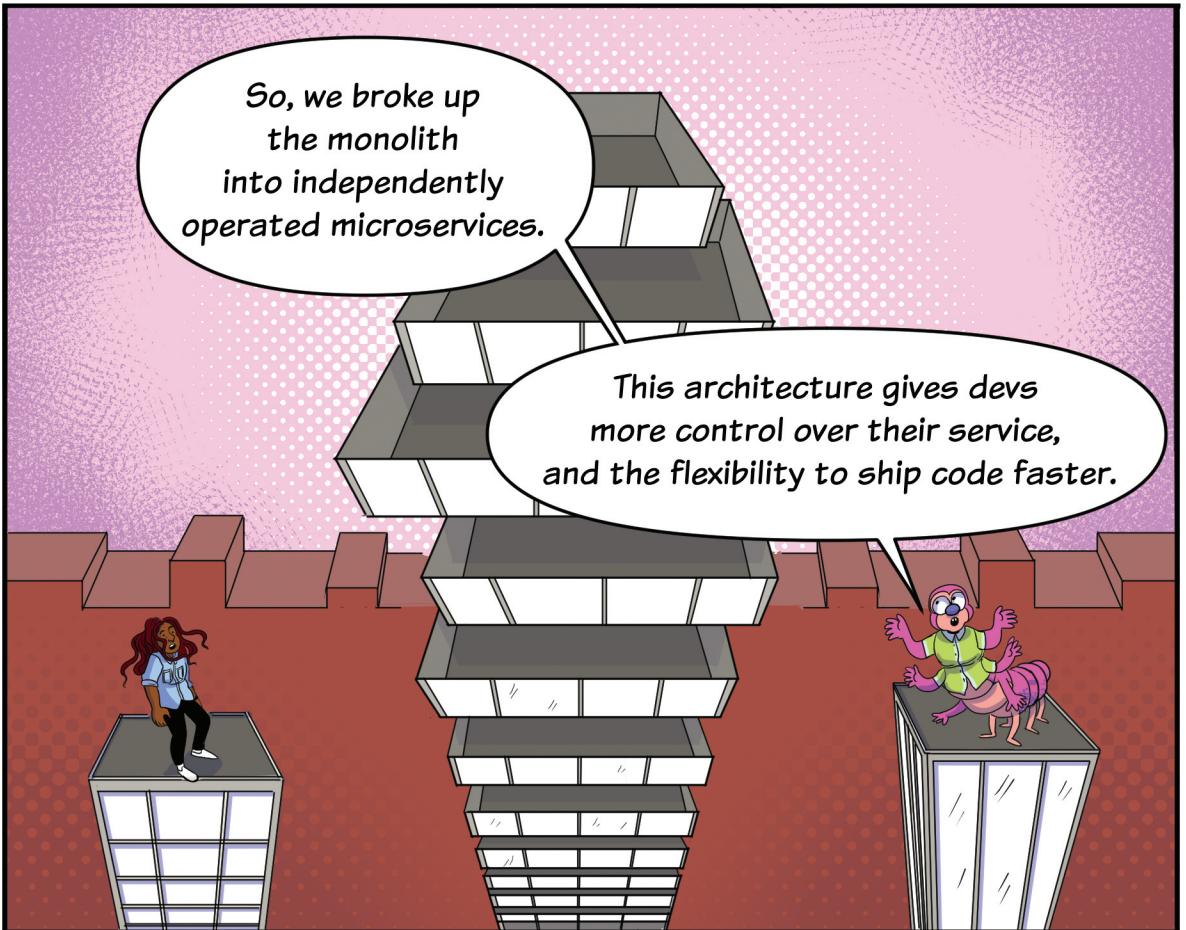
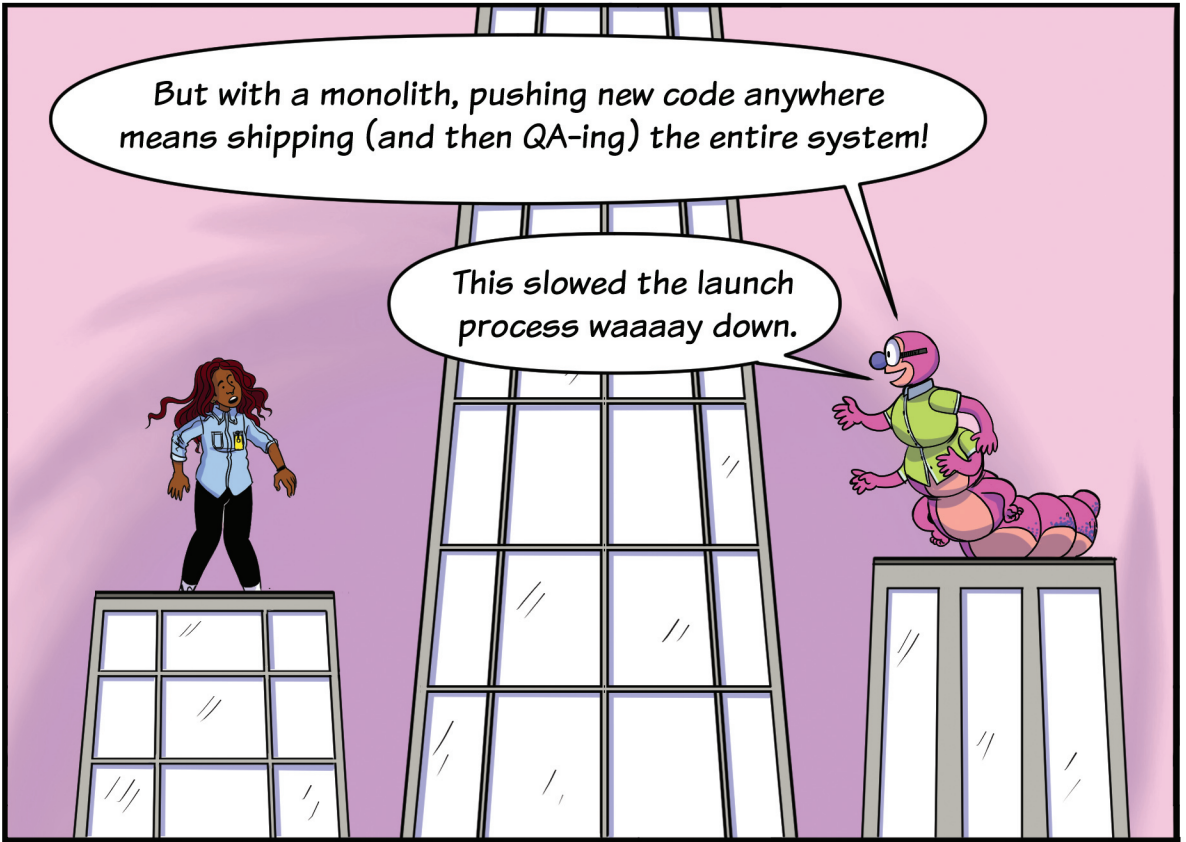












BUT, adding microservices also adds complexity:
now these services interact in ways that
are complex, unique, and hard-to-predict.

And that's because microservice architectures
don't scale wide – they scale deep.

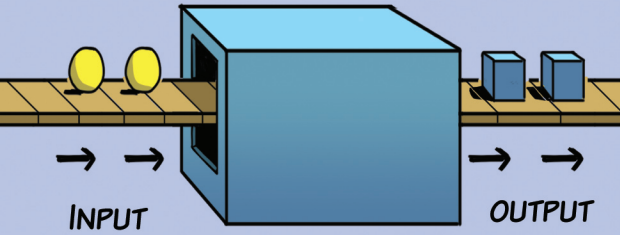
So when an outage happens, problems tend
to show up all over the place, and it becomes
pretty tough to figure out what went wrong.

But there's a solution:

OBSERVABILITY

Observability?
Isn't that just grepping through logs
to try to figure out an error's origin?
I do that already, and it takes hours!

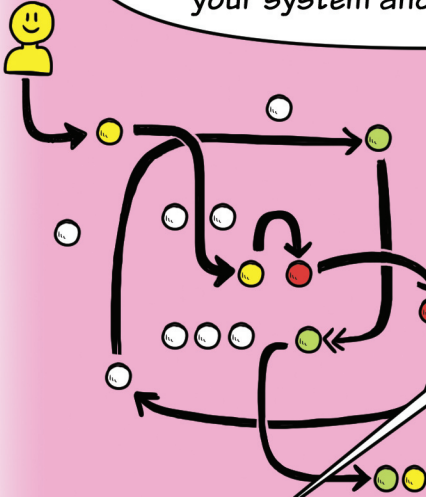
Officially, observability is defined as the ability to measure the internal state of a system only by its outputs.



By comparing thousands of traces, patterns become more obvious. This makes it easier to figure out an error's origin.

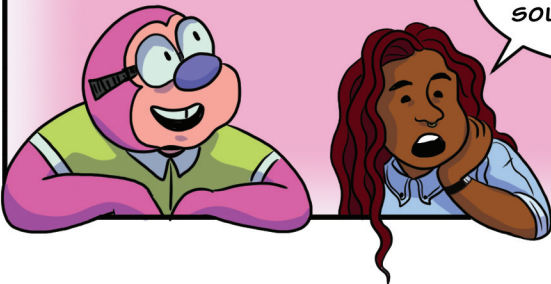


A distributed trace is basically a record of an individual request's path through your system and back to the user.



When you review thousands of these traces alongside each other, patterns become more obvious, and we can deduce an error's origin point.

Hmm...
That makes sense,
but comparing traces still
sounds like a ton of work.



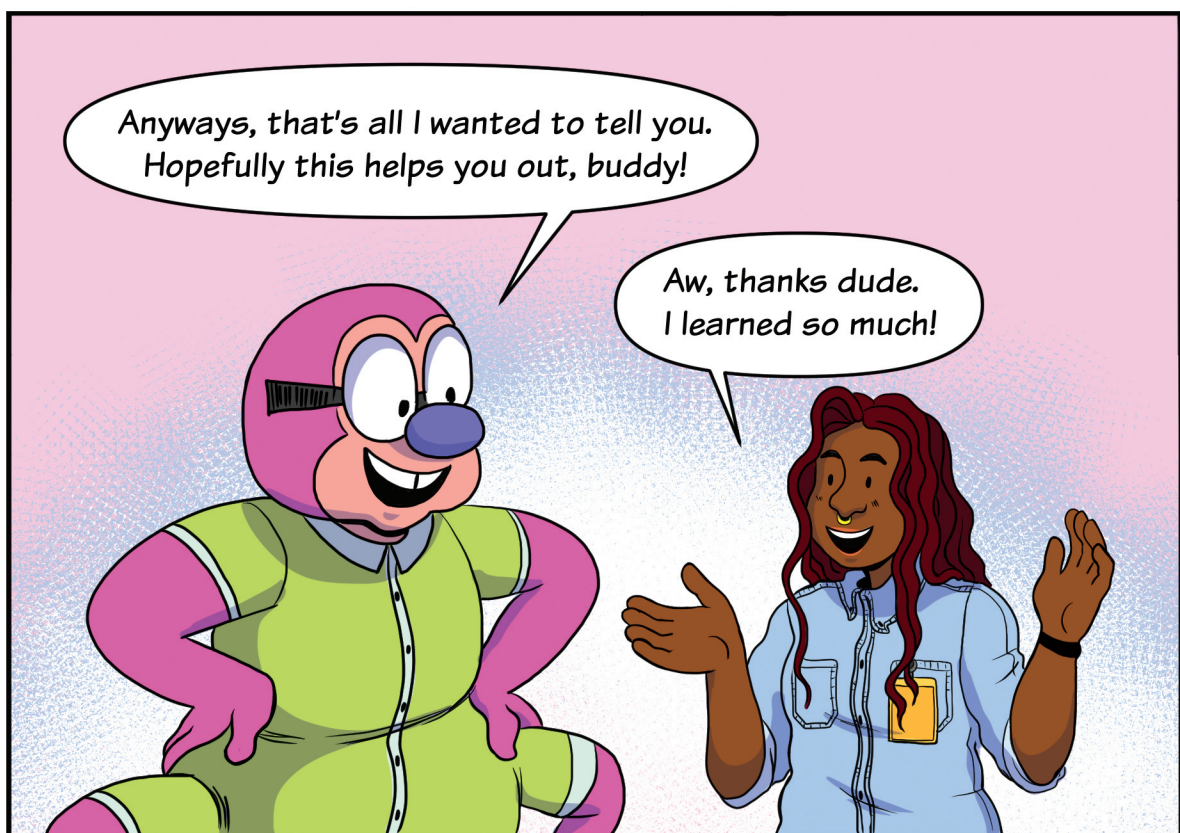
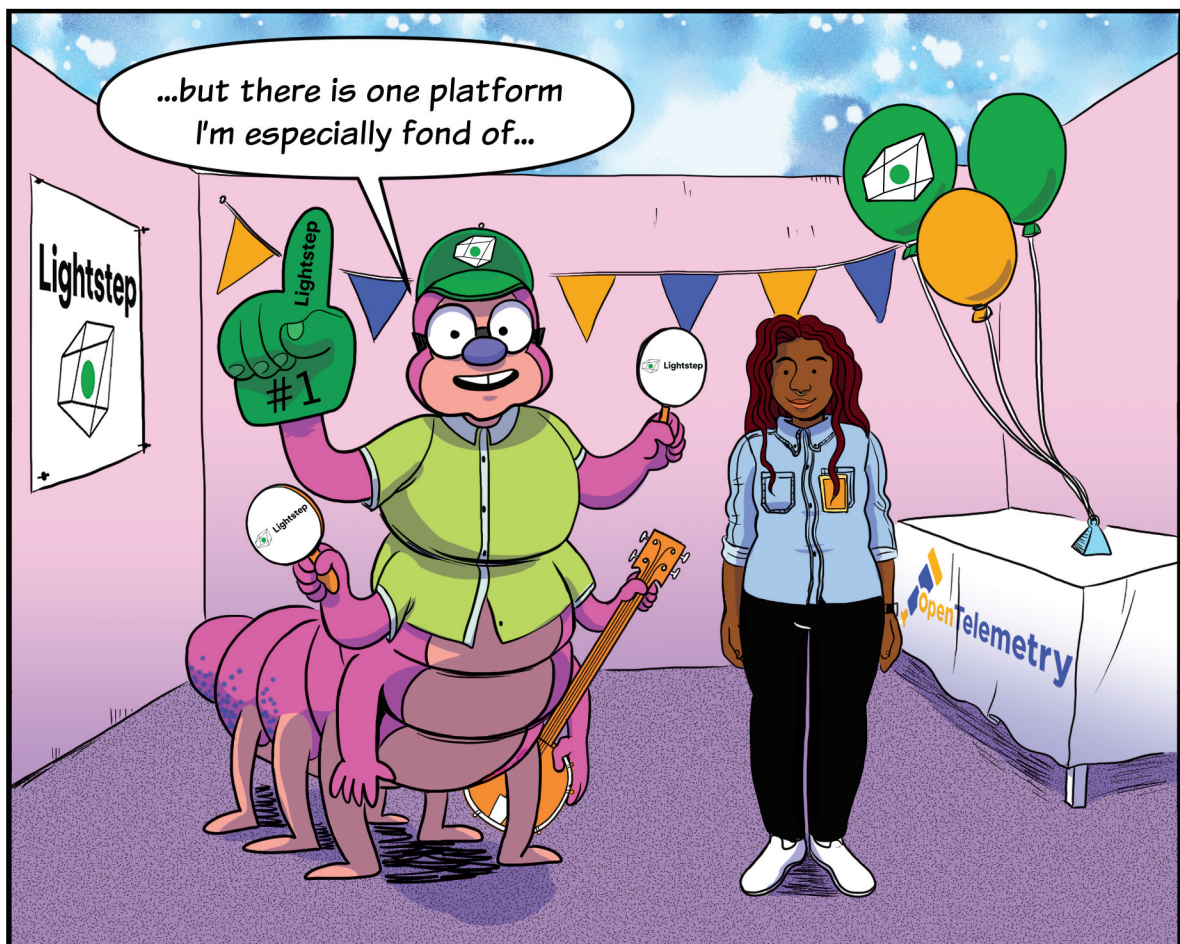
It can be! But a good observability platform will compare traces and identify patterns for you, so you can skip all the guesswork, and resolve performance issues faster!

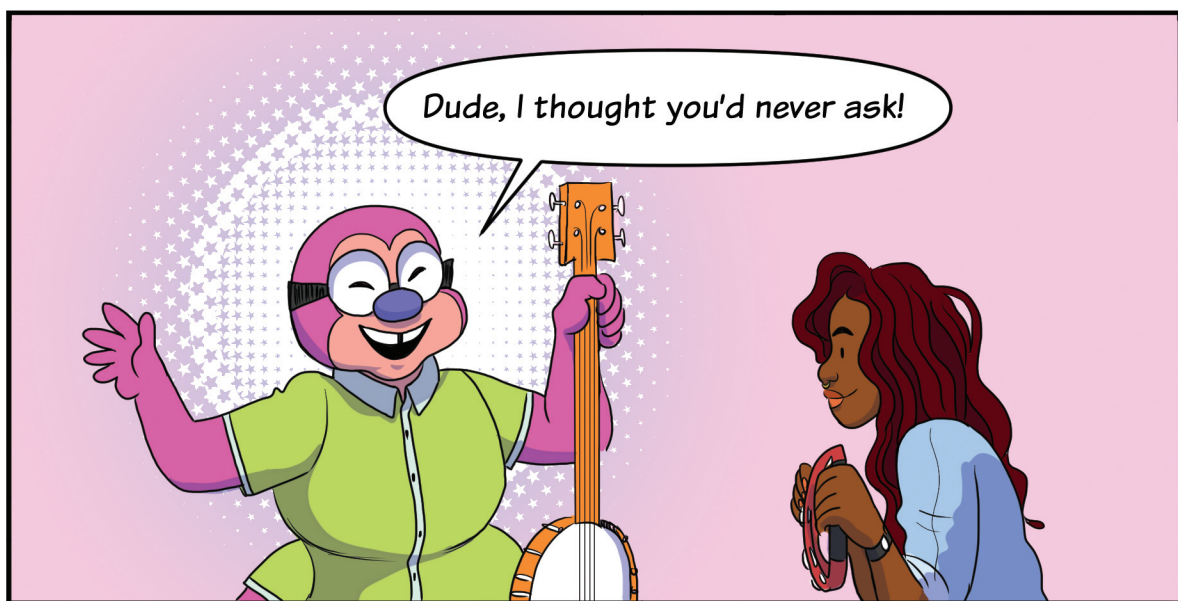
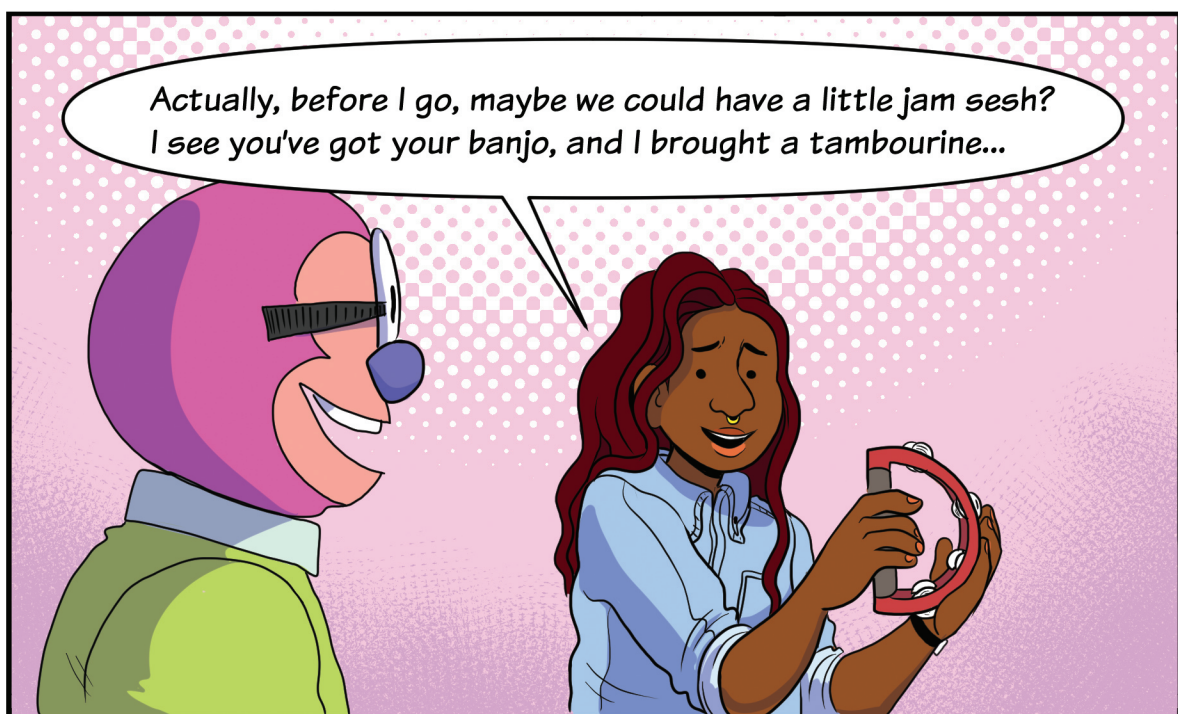
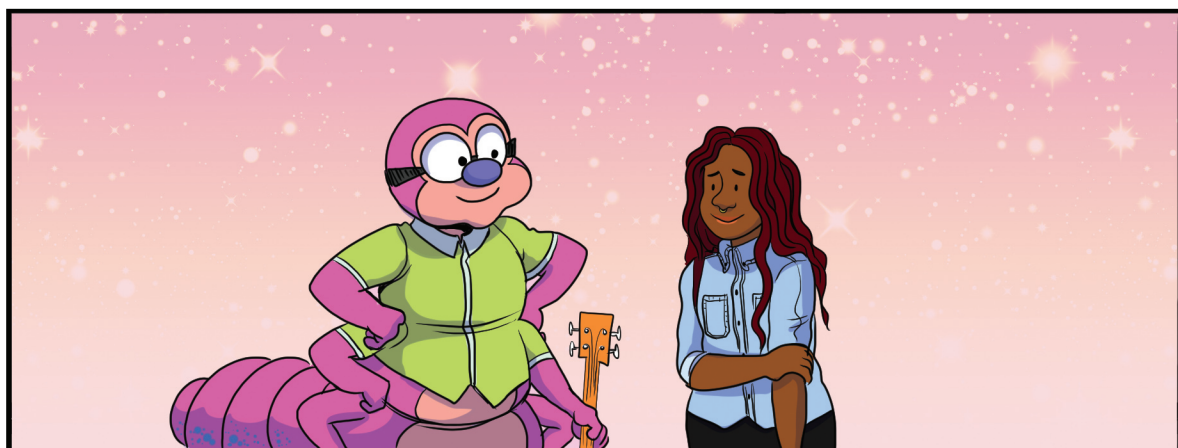
A good observability platform?
Do you know any?

Well, I don't like
to pick favorites...



CHECK OUT LIGHTSTEP!
IT'S AN OBSERVABILITY PLATFORM.
LOTS OF PEOPLE LIKE IT CUZ IT'S
PRETTY GOOD FOR DEEP SYSTEMS.







LIGHTSTEP PROVIDES SIMPLE OBSERVABILITY FOR DEEP SYSTEMS.

TRY IT YOURSELF AT [LIGHTSTEP.COM/PLAY](https://lightstep.com/play)