how - and why - to modernise your scruffy old java applications **Holly Cummins** IBM Garage @holly_cummins

a codebase is like a home

(thanks for *Livable Code*, Sarah Mei!)

does yours do what you need?

















Room For Rent

space. Quiet and friendly atmosphere.

\$800 a month

Includes Utilities, Cable, Internet, Laundry
(All the comforts of home)

Lease starting June 1st, although accommodations can be made if you're moving out of campus housing.

Looking for a fernale, clean, quiet, mature and in this ly normal room nate.

No hipsters, please.

Non-partying.

Must love Ashley, our cat.

no one is **allowed** to do stuff

but ...





"we're moving too slowly.

"we're moving too slowly.

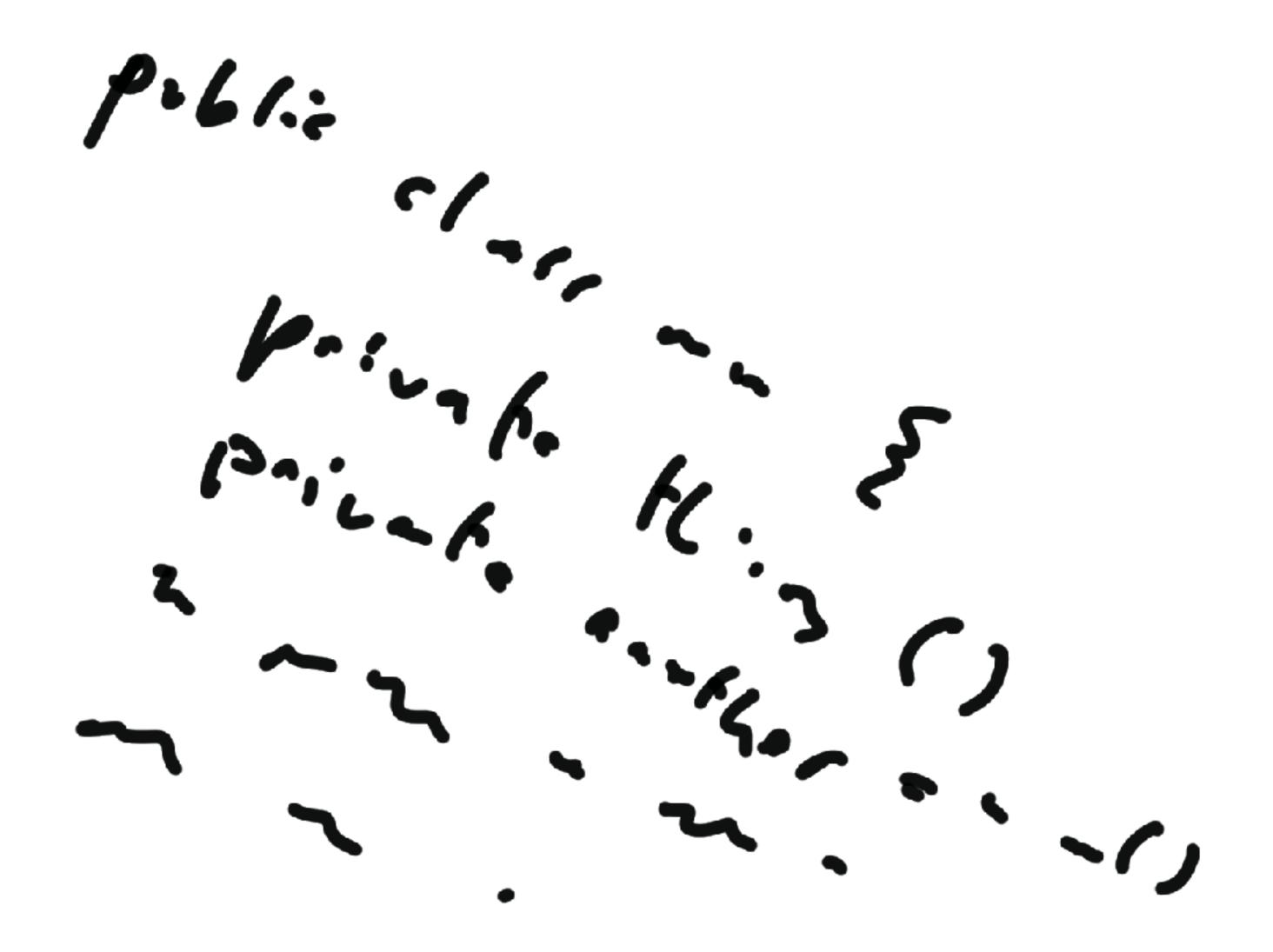
we should modernise our COBOL application into microservices.

"we're moving too slowly.

we should modernise our COBOL application into microservices.

our release board meets twice a year."

to the code!



the problem with app mod demos



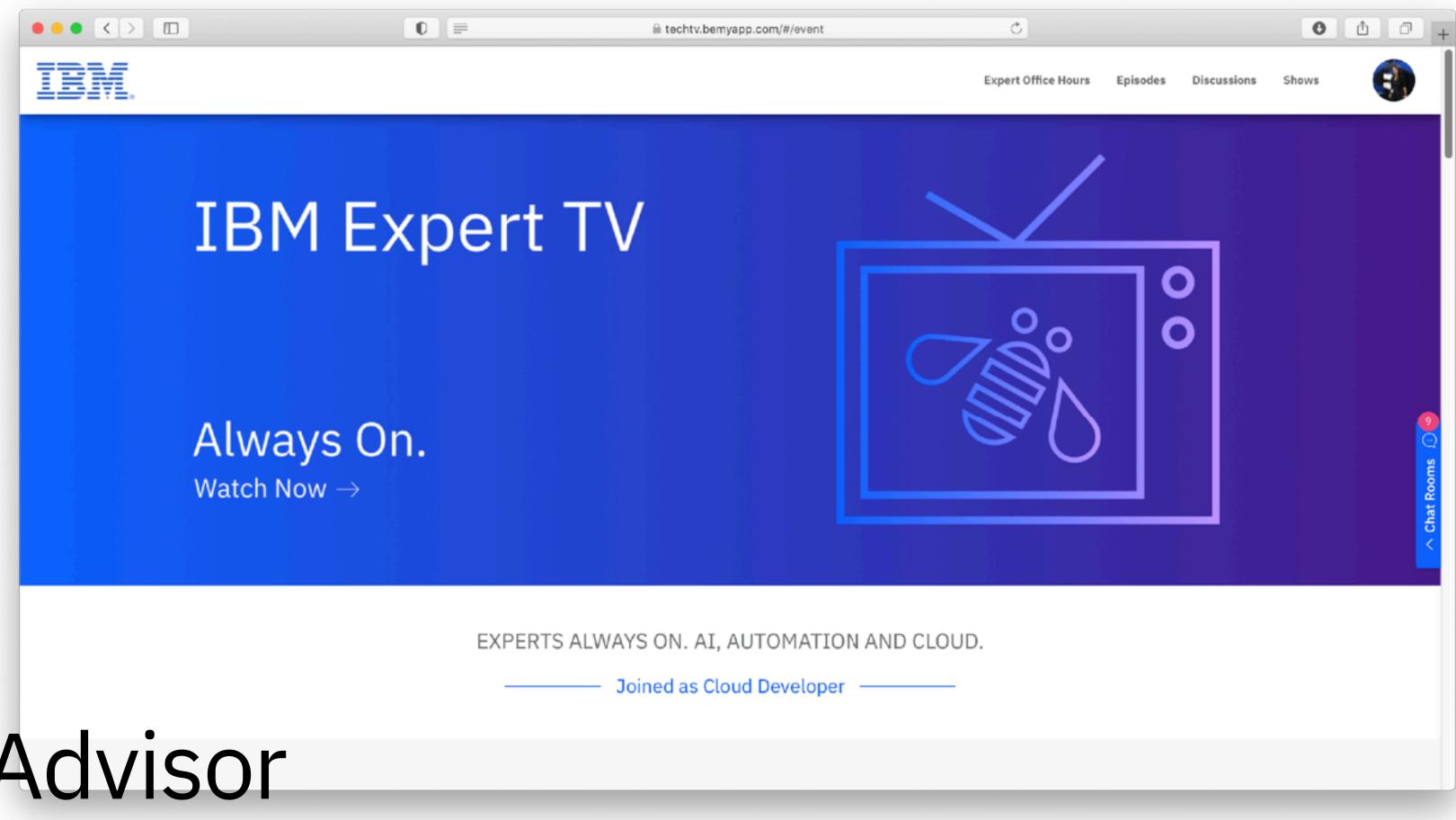
the problem with app mod demos

if an application is too complex to manage ... untangling it won't be trivial





mono 2 micro Transformation Advisor WebSphere Application Migration Toolkit

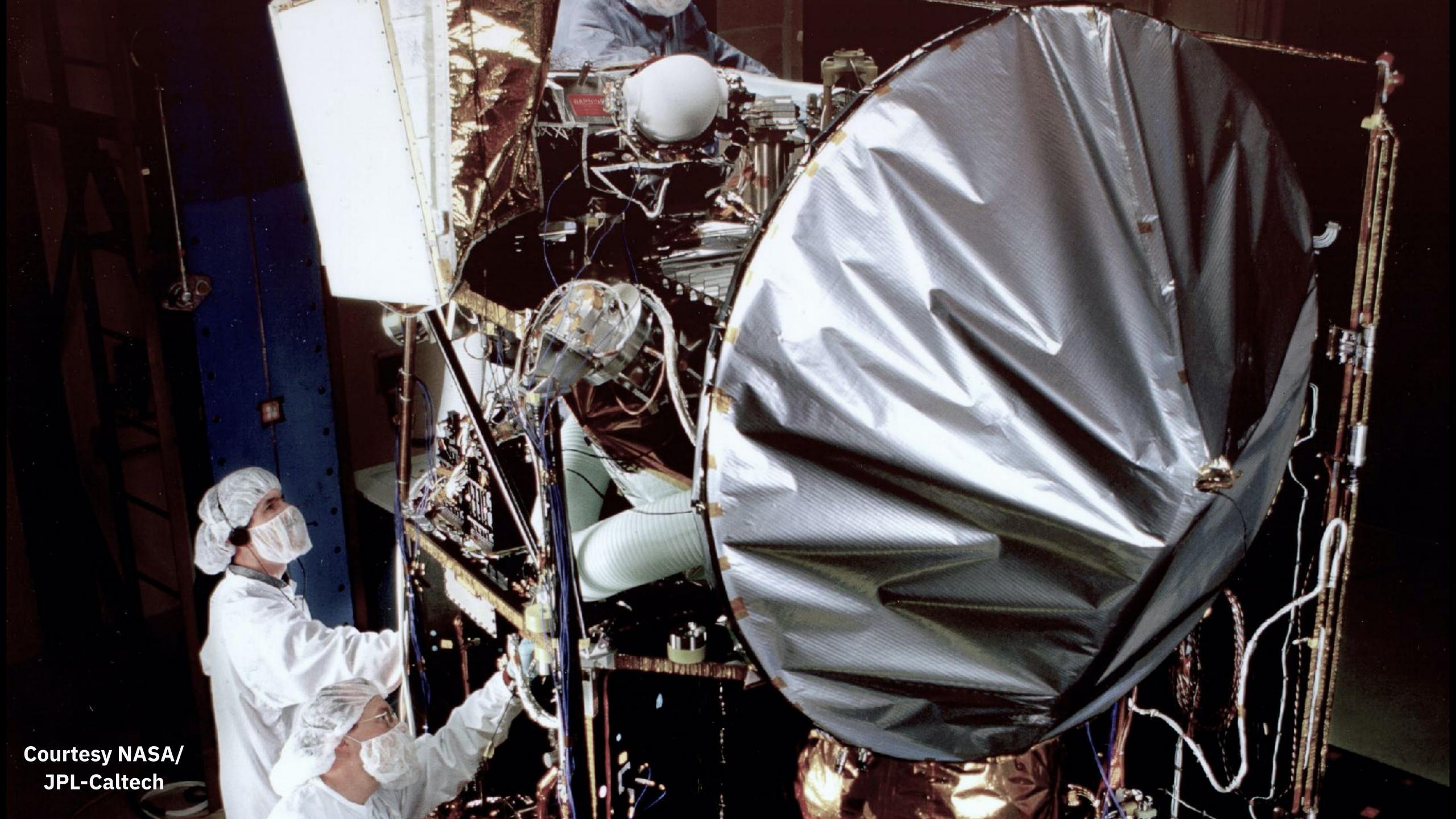


mono 2 micro

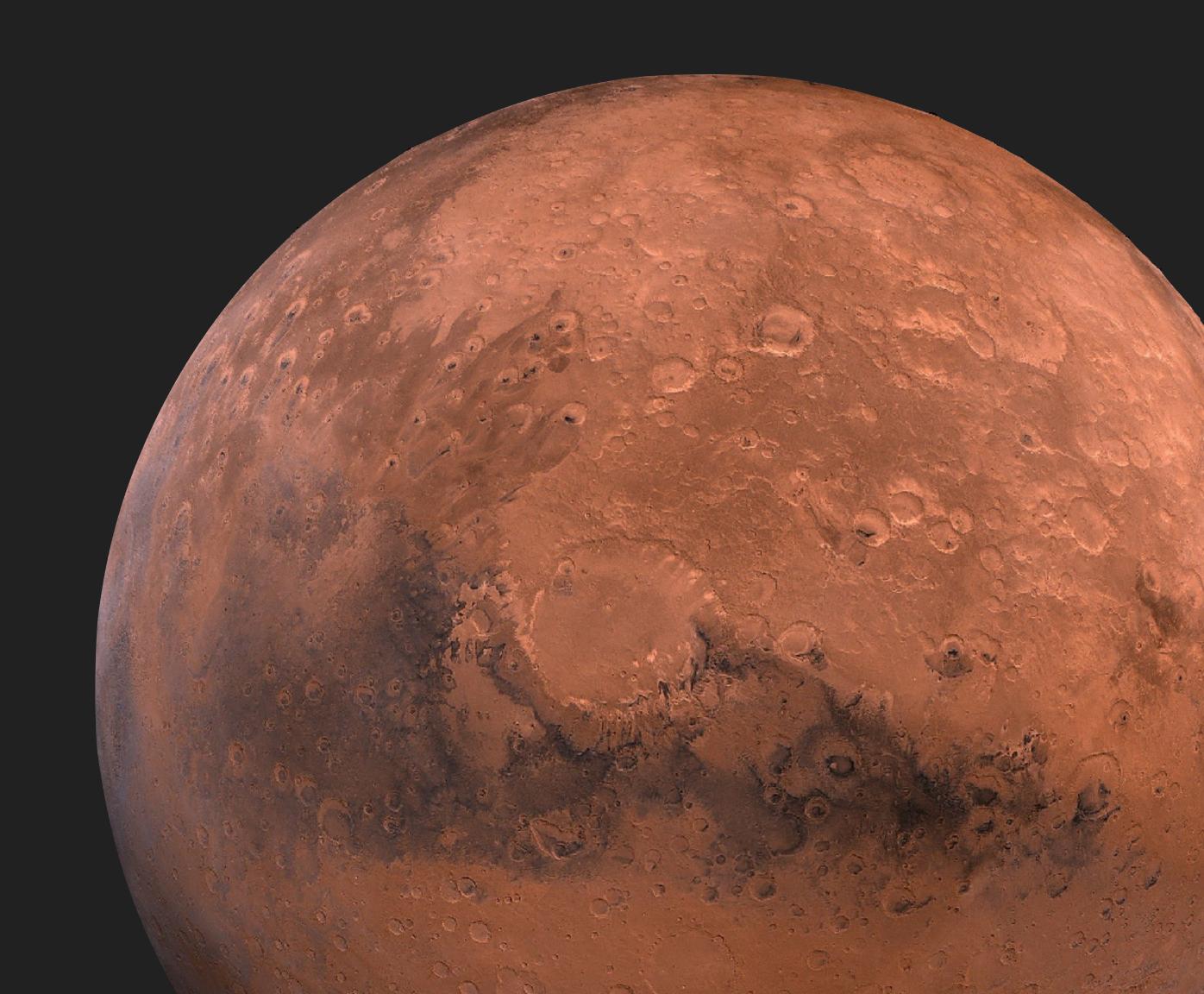
Transformation Advisor

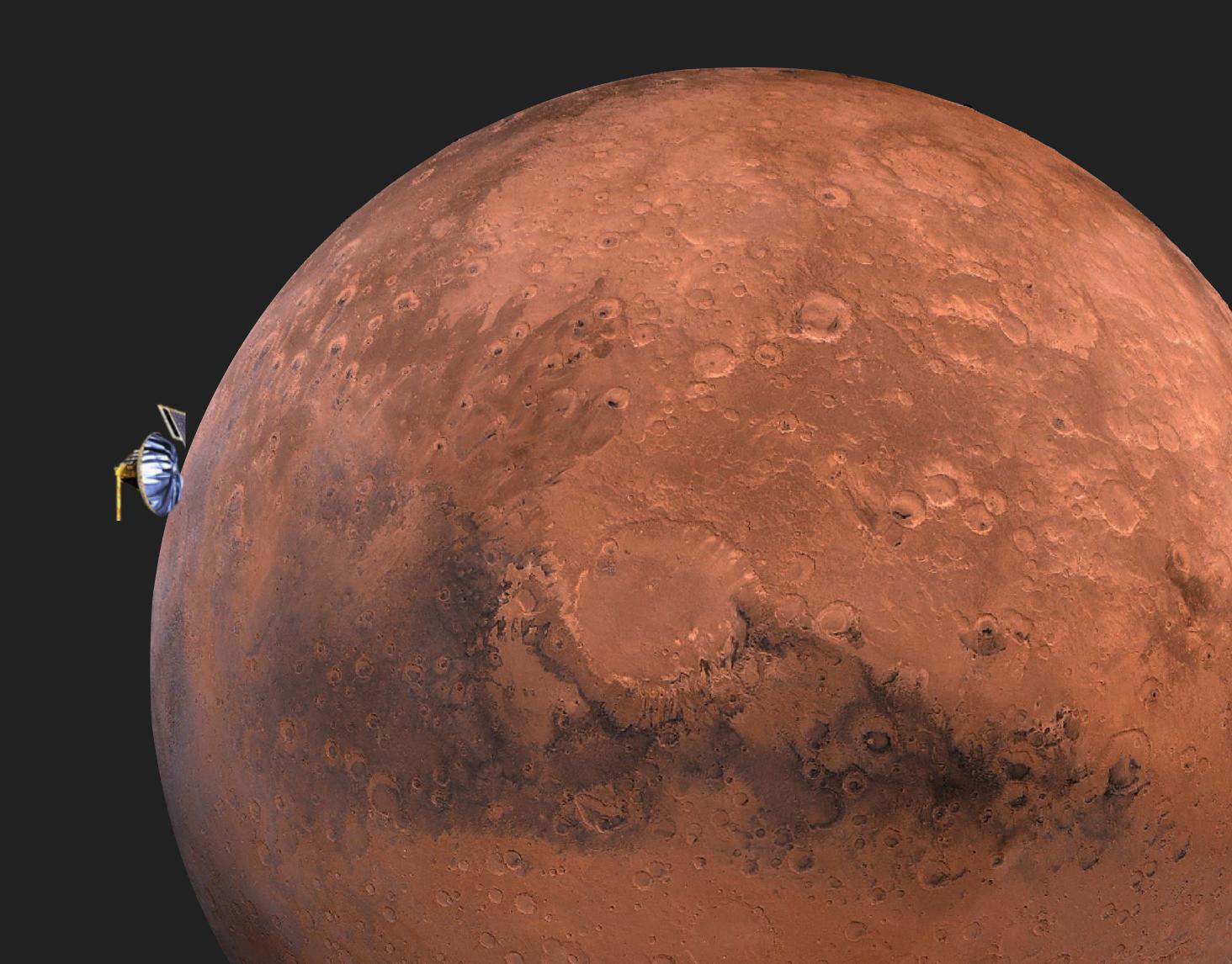
WebSphere Application Migration Toolkit

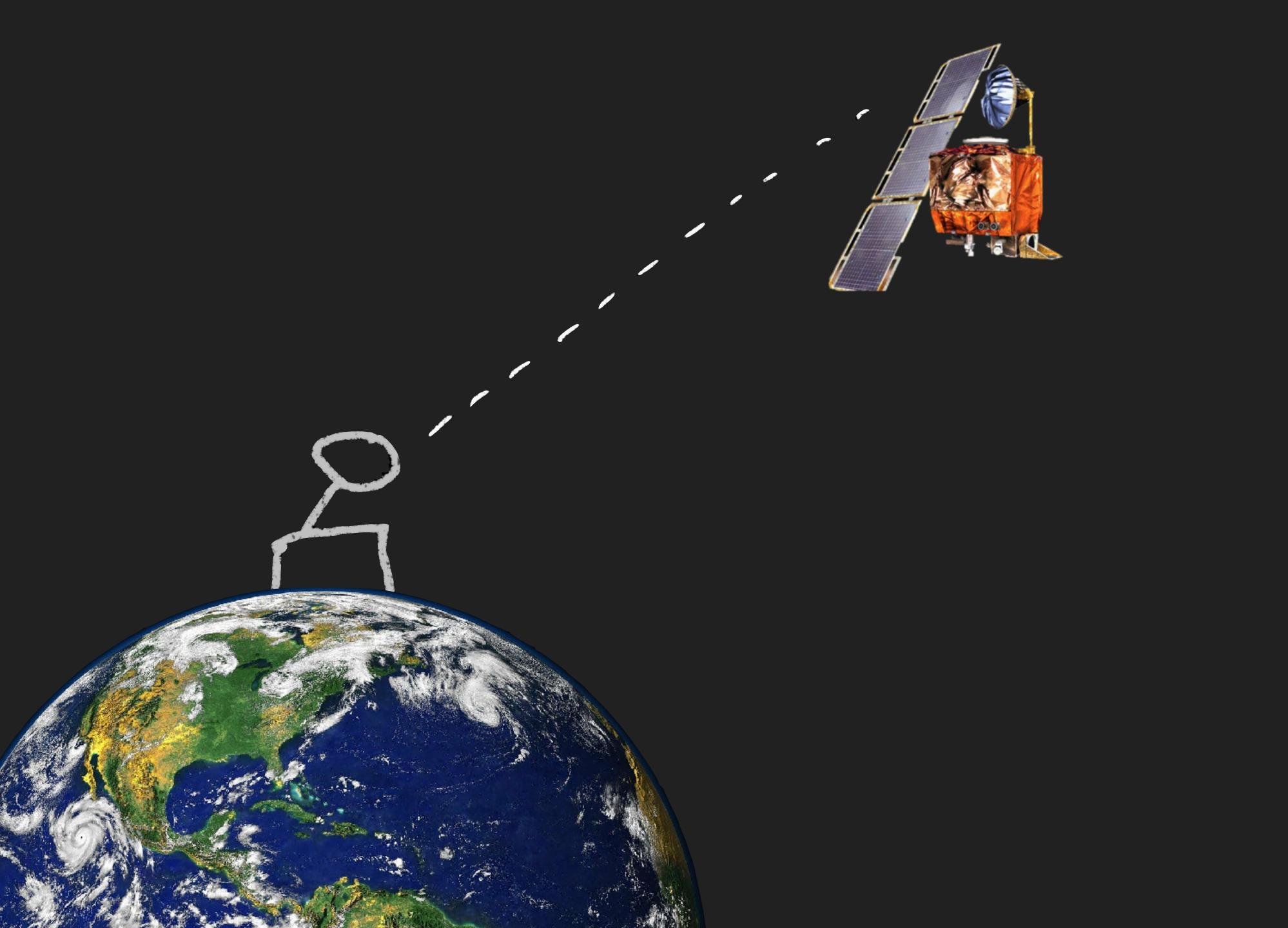
"every time we touch one microservice, all the others break."

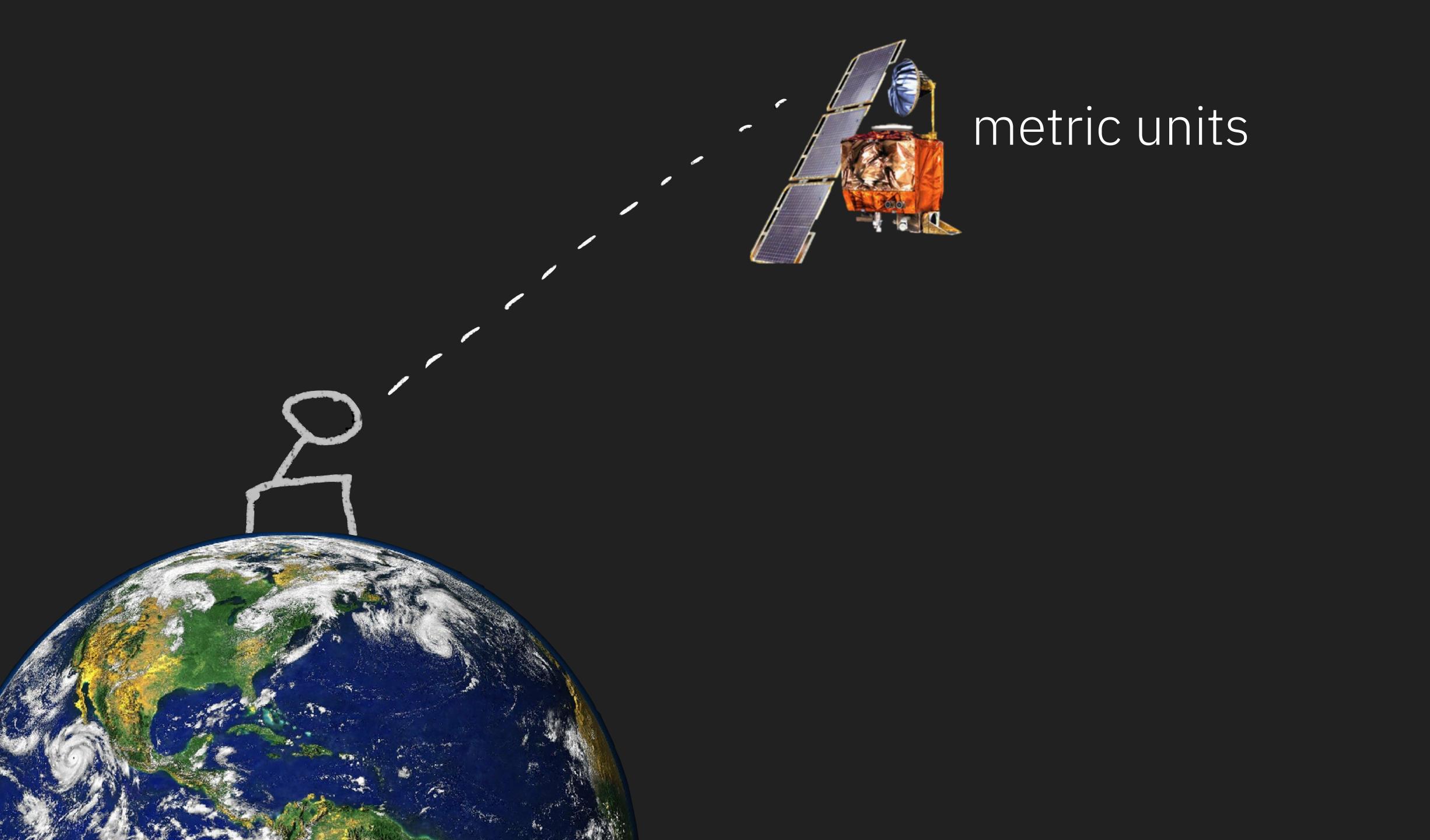


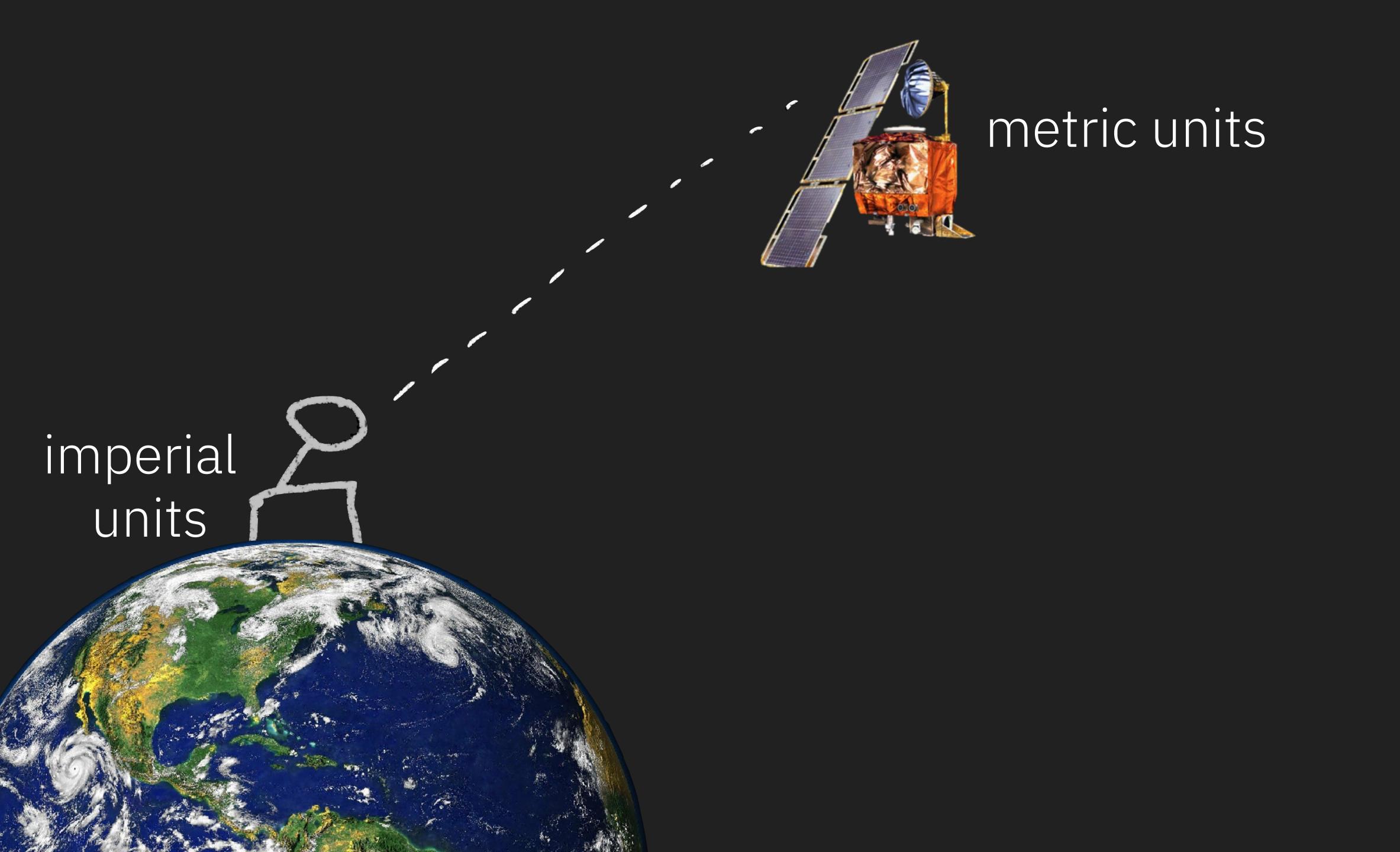




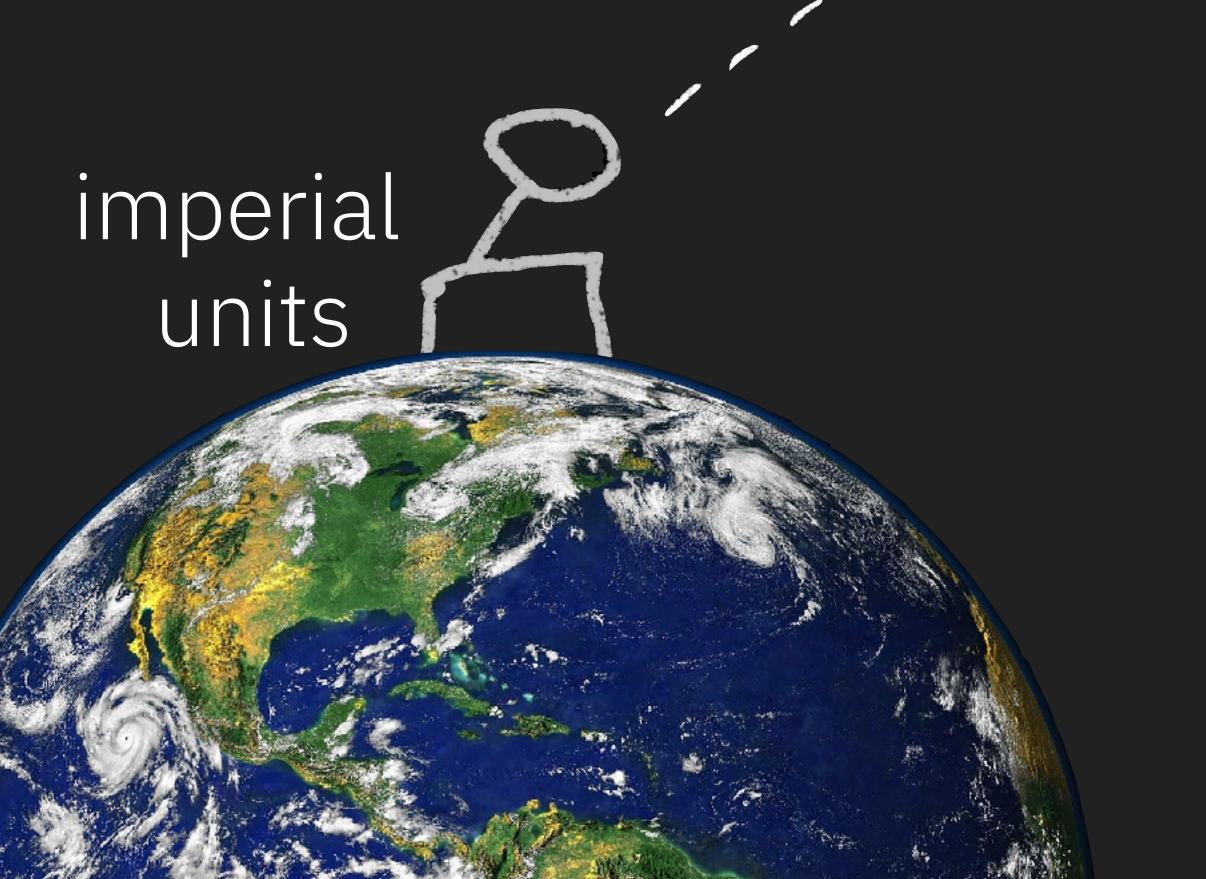












distributing did not help

distributed!= decoupled

If you're going to do microservices, you need to get good at automation.

And testing.











How to test a fire alarm?



how not to test a fire alarm



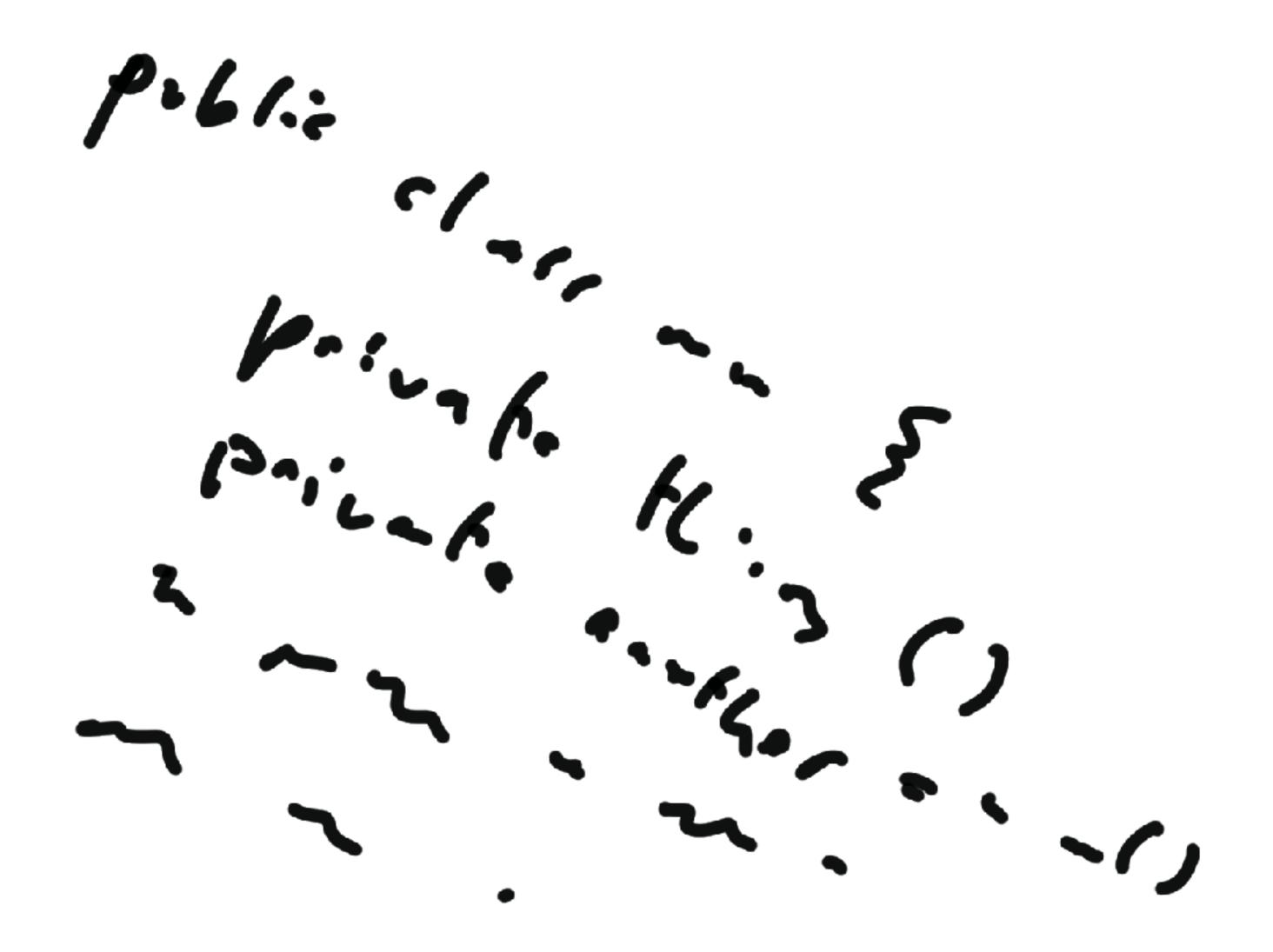


uh... is that enough?



contract testing a fire alarm

to the code!



microservices **need** consumer-driven contract tests

get the code: ibm.biz/holly-tech-tv

learn more about application modernisation: watch Dana Price on IBM Tech TV, October 29