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Pathemata mathemta:

Guide your learning through pain

Skin in the Game Nassim Nicholas Taleb



Hormesis

a favorable response to low exposures to stressors

Inject something harmful, in order to build an immunity

Chaos Engineering:

Thoughtful, planned experiments designed to reveal the weakness in our systems.

We test **proactively**, instead of waiting for an outage.

Why Now?







Effective Experimentation

"What could go wrong?"



"How likely is this to occur?"

"What is the cost of being wrong?"



S3 **\$150M** Delta **\$100M**

US Annually **\$700B**

It's Gameday





Picard Tips @PicardTips · 20 Dec 2015

Picard management tip: Run crisis drills when all is well. A real calamity is not a good time for training.









Those unwilling to test in production aren't yet confident that the service will continue operating through failures.

And, without production testing, recovery won't work when called upon.

> James Hamilton Distinguished Engineer, AWS

Prepare for

Real World Scenarios.





Gracefully degrade

redis



Automation

"What is Tier 1?"

Finding the Critical Services

Automating Failure Testing Research at Internet Scale

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How do I get started?

Chaos Engineering Community

gremlin.com/community

Thanks!

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GOLO; chicago

