Part One.
PERFORMANCE  FAULT TOLERANCE

AVAILABILITY
FEATURE VELOCITY

PERFORMANCE

FAULT TOLERANCE

AVAILABILITY
Part Two.
Customers 🍺

Retailer 🍺
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62 -61 196 distillery?
Part Three.
CHAOS
CHAOS
In the internet’s darkest time, people are finding solace in Netflix

It’s the only thing we have left

by Julia Alexander | Feb 28, 2017, 3:45pm EST
CHAOS

Monkey

Kong
Chaos Engineering is the discipline of experimenting on a distributed system in order to build confidence in the system’s capability to withstand turbulent conditions in production.
\[ x \rightarrow f \rightarrow y = f(x) \]
\[ x \rightarrow f \rightarrow y = f(x) \]

Diagram:

- \( x \) inputs to \( f \)
- \( f \) connects to \( g \)
- \( g \) connects to \( j \)
- \( h \) connects to both \( j \) and \( i \)
• Build a hypothesis about steady-state behavior.

http://principlesofchaos.org
● Build a hypothesis about steady-state behavior.

● Vary real-world events.
• Build a hypothesis about steady-state behavior.
• Vary real-world events.
• Experiment in production.

http://principlesofchaos.org
• Build a hypothesis about steady-state behavior.
• Vary real-world events.
• Experiment in production.
• **Automate experiments to run continuously.**
● Build a hypothesis about steady-state behavior.
● Vary real-world events.
● Experiment in production.
● Automate experiments to run continuously.
http://principlesofchaos.org

You are invited

Chaos Community Day

Nov 4, 2015
685 Market St
San Francisco 94103

Near machinery

Come for the chaos, stay for rigon

Agitate!

Agenda:
Chaos Community Day is an invitation-only event to bring people together and celebrate.

RSVP:

Principles of Chaos
Is API resilient to failure of Personalization?
Randomly select 10% of requests to participate in experiment
if (shouldFail == true)
if (shouldFail == true)
Stream Starts Per Second (SPS)
Select 1% of requests for control
Select 1% of requests for experiment
if(shouldRoute == true)
if(shouldFail == true)
Stream Starts Per Second (SPS)
Fallback Metrics
Fallback Metrics

PROD:US-EAST-1

countSuccess

PROD:US-EAST-1

countFallbackSuccess
Fallback Metrics
CPU Utilization
Part Four.
CHAOS MATURITY MODEL
CHAOS MATURITY MODEL

Sophistication

Adoption
CHAOS MATURITY MODEL

Sophistication
CHAOS MATURITY MODEL

Adoption
CHAOS MATURITY MODEL

Sophistication

Adoption
Part Five.
Intuition Engineering

https://github.com/Netflix/vizceral