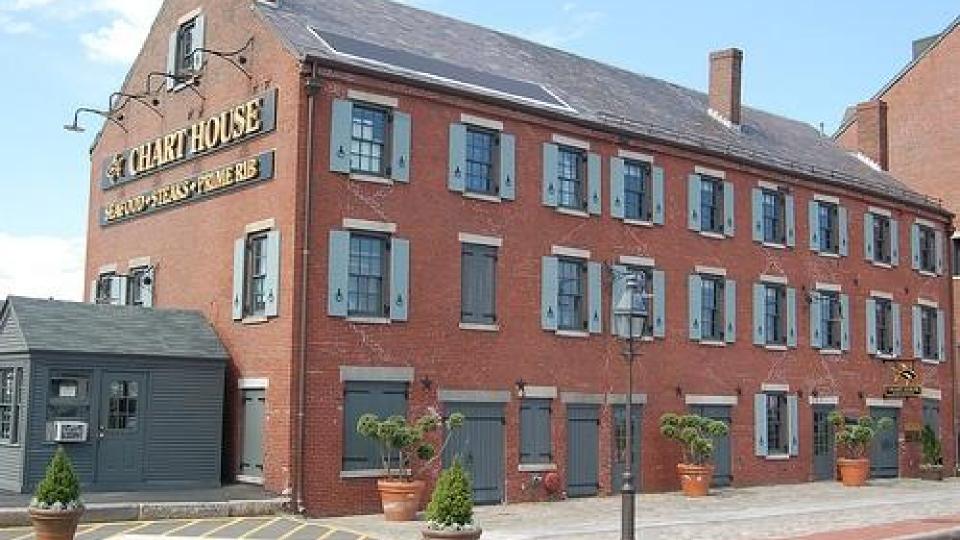
Unleash the Chaos

CIR TROOP.

WAR LANDIN

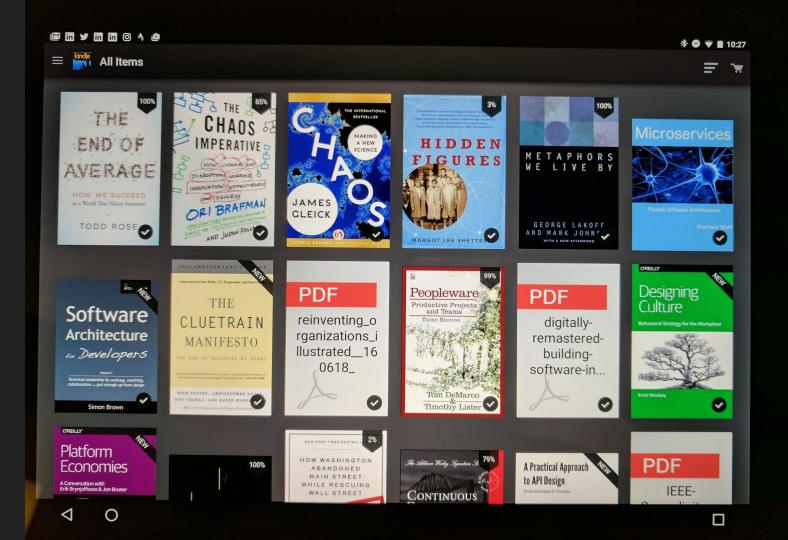
Mike Amundsen API Academy @mamund















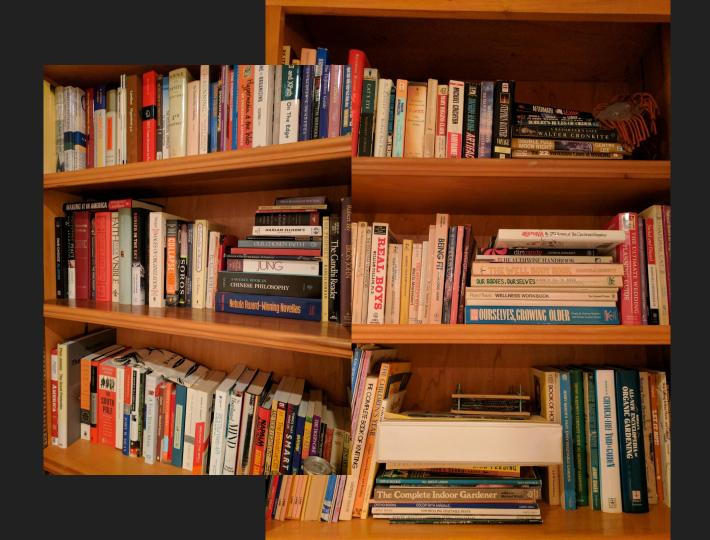




C11 (L) TOTAL

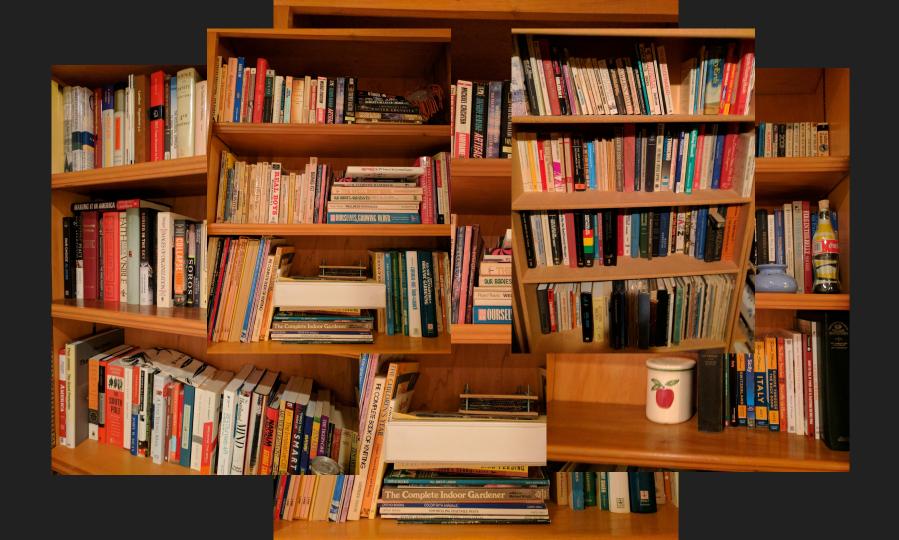
















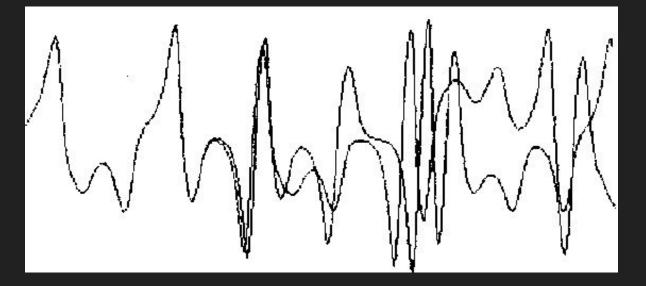


Edward Lorenz (1917 -- 2008)

- Mathematician
- Meteorologist
- MIT Graduate, Professor
- Pioneer of Chaos Theory



Edward Lorenz (1917 -- 2008)

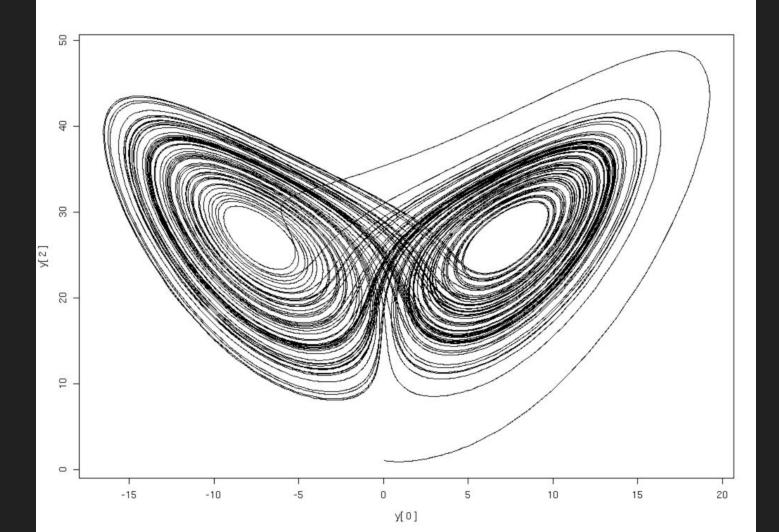


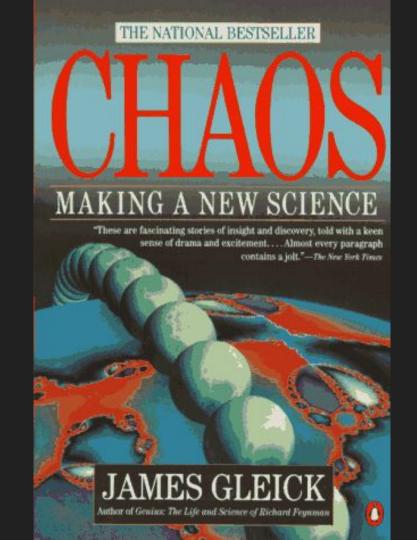


Edward Lorenz (1917 -- 2008)

"Two states differing by imperceptible amounts may eventually evolve into two considerably different states..." -- Lorenz, 1963







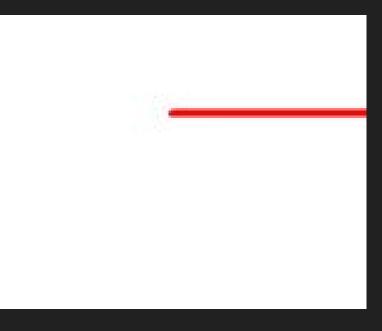
Chaos Theory

"Small differences in initial conditions yield widely diverging outcomes for dynamical systems."



Chaos Theory

"Small differences in initial conditions yield widely diverging outcomes for dynamical systems."





C11 (L) TOTAL

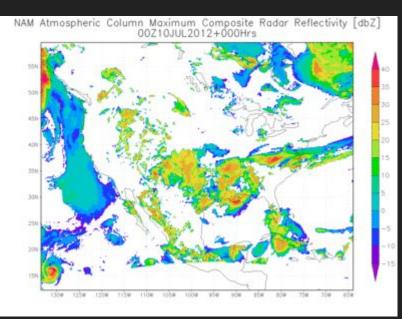


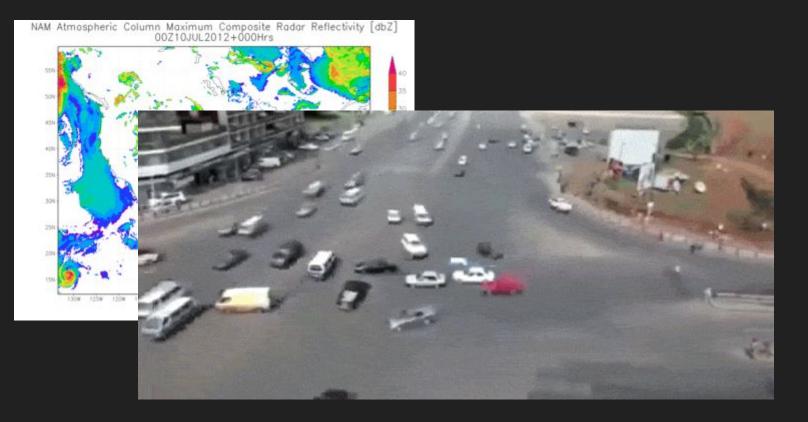
Chaos Theory

"When the present determines the future, but the approximate present does not approximately determine the future."

-- Edward Lorenz



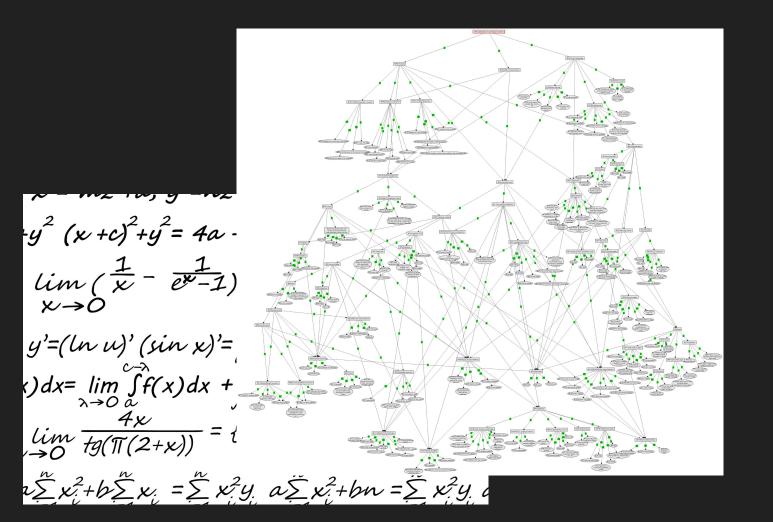


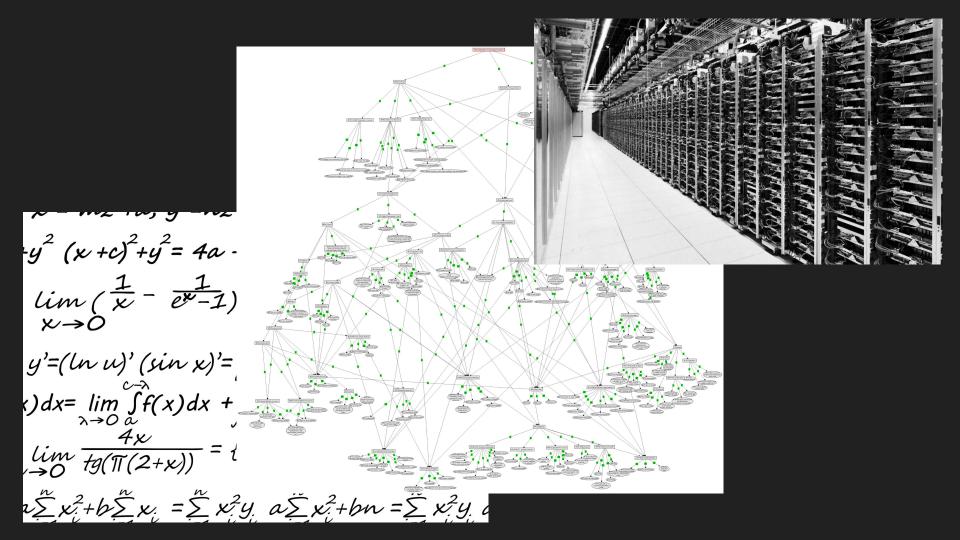






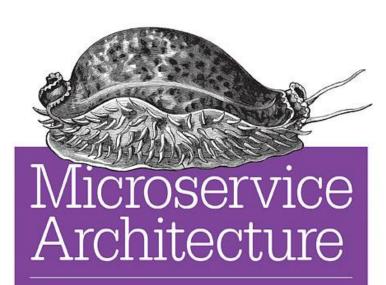
m n $+y^{2}(x+c)^{2}+y^{2}=4a-4a\sqrt{(x-c)^{2}+y^{2}}+(x-c)^{2}+y^{2}+(x-c)^{2}+(x-c)^{2}+y^{2}+(x-c)^{2}+(x-c)^{2}+y^{2}+(x-c)^{2}+(x-c)^{2}+(x-c)^{2}+y^{2}+(x-c)^{2}+$ $\lim_{\substack{x \to 0}} \left(\frac{1}{x} - \frac{1}{e^{x} - 1}\right) = \lim_{\substack{x \to 0}} \frac{e^{x} - 1 - x}{x (e^{x} - 1)} = \frac{1}{2}$ $y' = (\ln u)' (\sin x)' = \frac{1}{u} \cos x = \frac{\cos x}{\sin x} = ctg x$ $f(x)dx = \lim_{x \to 0} \int_{\alpha}^{c \to x} f(x)dx + \lim_{M \to 0} \int_{c + M}^{b} f(x)dx$ $\lim_{x \to 0} \frac{4x}{tg(\Pi(2+x))} = \left\{\frac{0}{0}\right\} = \lim_{x \to 0} \frac{4x}{tg(\Pi(2+x))} = \left\{\frac{0}{0}\right\} = \lim_{x \to 0} \frac{4x}{tg(\Pi(2+x))} = \frac{2}{\Pi}$ $\sum_{n=1}^{\infty} x_{n}^{2} + b \sum_{n=1}^{\infty} x_{n}^{2} = \sum_{n=1}^{\infty} x_{n}^{2} y_{n} a \sum_{n=1}^{\infty} x_{n}^{2} + b n = \sum_{n=1}^{\infty} x_{n}^{2} y_{n} a$





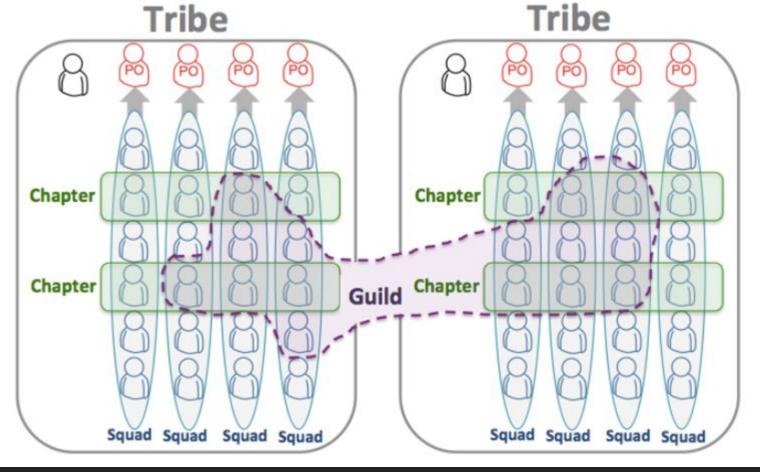


O'REILLY*



ALIGNING PRINCIPLES, PRACTICES, AND CULTURE

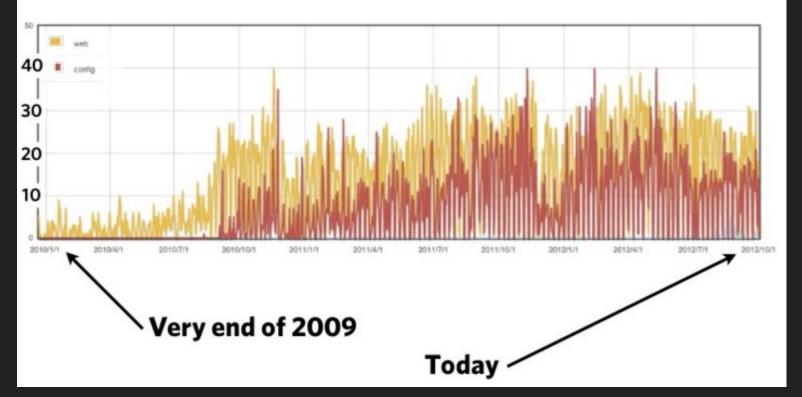
Irakli Nadareishvili, Ronnie Mitra, Matt McLarty & Mike Amundsen



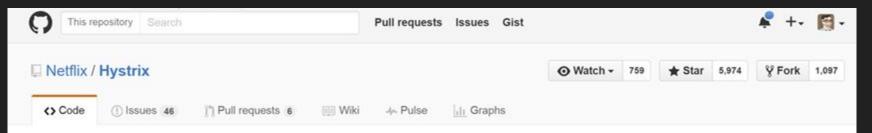
"Scaling Spotify", Kniberg & Ivarrson (2012)

https://dl.dropboxusercontent.com/u/1018963/Articles/SpotifyScaling.pdf

Deployments Per Day (US/Eastern)

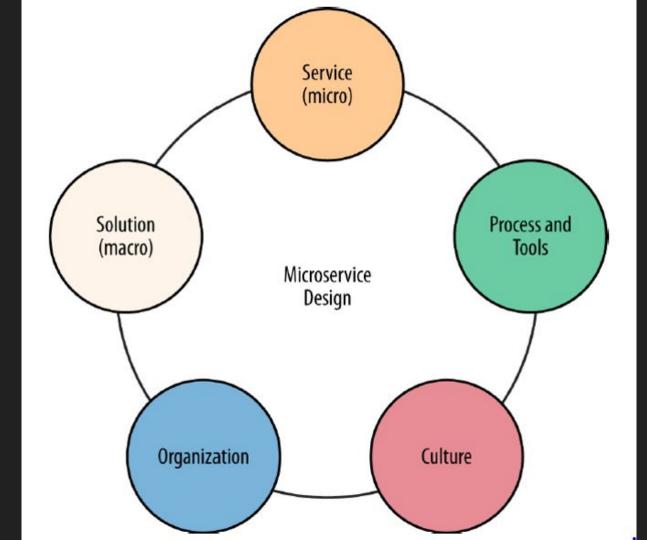


Continuous Delivery – The Dirty Details, Mike Britain, Etsy (2015) http://www.slideshare.net/mikebrittain/continuous-delivery-the-dirty-details/8



Hystrix is a latency and fault tolerance library designed to isolate points of access to remote systems, services and 3rd party libraries, stop cascading failure and enable resilience in complex distributed systems where failure is inevitable.

T,694 commits		ۇ¥ 5 br		ses	8	ପି _ଧ ତ 74 contributors		
Branch: master +	New pull request		NETFLIX	e	Upload files	Find file	Clone or download +	
mattrjacobs Me	rge pull request #121	2 from mebigfatguy				Latest con	nmit bca8d89 6 hours ago	
codequality		Build changes for neoula.nettlixoss				a year ago		
🛅 gradle		Updated Nebula plugin to 3.2.0 and Gradle to 2.10				4 months ago		
hystrix-contrib		fix logging contexts				6 hours ago		
hystrix-core		fix logging contexts				6 hours ago		
hystrix-dashboard		Update README.md				2 months ago		
hystrix-examples-webapp		Added buffered SSE request stream that emits a collection of requests			ku:	4 months ago		











What are these companies doing?

Ori Brafman

- Author
- Entrepreneur
- Stanford MBA
- UC Berkeley Fellow



Ori Brafman



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"We all need what I call 'contained chaos' in our lives and careers."

-- Ori Brafman



Brafman's Five Rules of Chaos

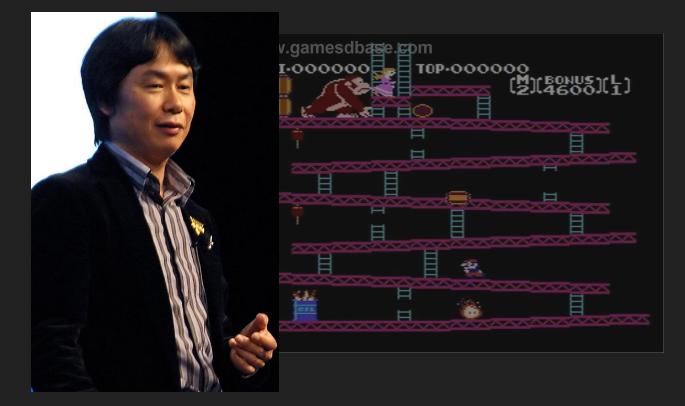
Rule #1

Remember, It's Called Organized Chaos





Shigeru Miyamoto



Shigeru Miyamoto

Hiroshi Yamauchi





"You need leaders who can maintain stability around the chaos."



"You need leaders who can maintain stability *around* the chaos."

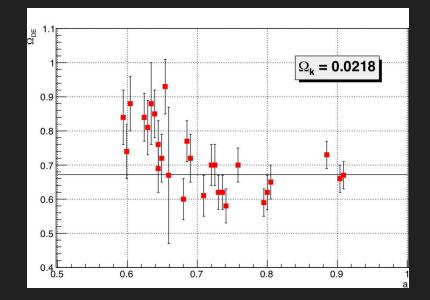
Rule #2

Avoid the Seductive Lure of Data and Measurements





"By it's nature, organized chaos is imprecise."





Create Productive White Space















"Take time to reflect or daydream when working on a deadline."

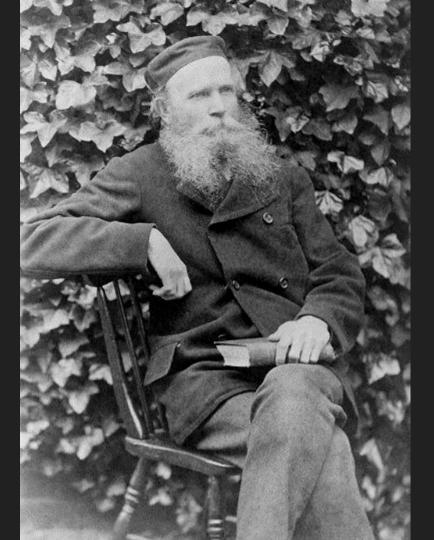
Rule #4

Embrace Unusual Suspects



Dr. William Minor

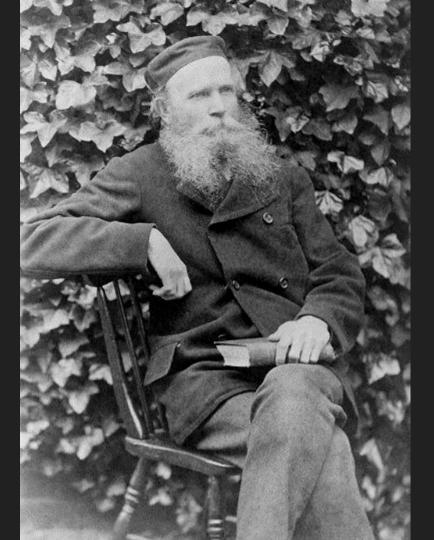
Prolific contributor to the Oxford English Dictionary



Dr. William Minor

Prolific contributor to the Oxford English Dictionary

from his room in England's Broadmoor asylum.



"Actively seek out the unusual suspect."





Organize Serendipity

ser·en·dip·i·ty /ˌserənˈdipədē/

noun

the occurrence and development of events by chance in a happy or beneficial way. "a fortunate stroke of serendipity"

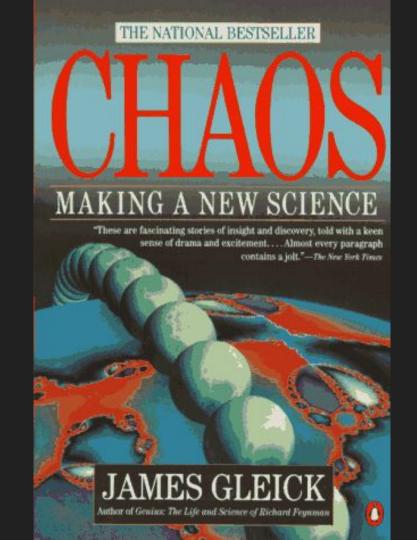


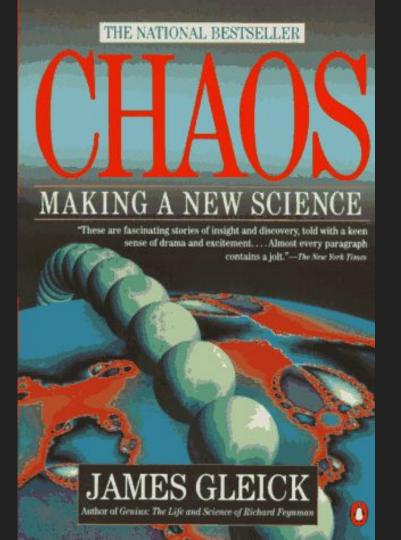
Dutch government's "chair sharing" program http://www.deelstoel.nl/



"Create openness, encourage the flow of ideas, allow people to bump into each other."

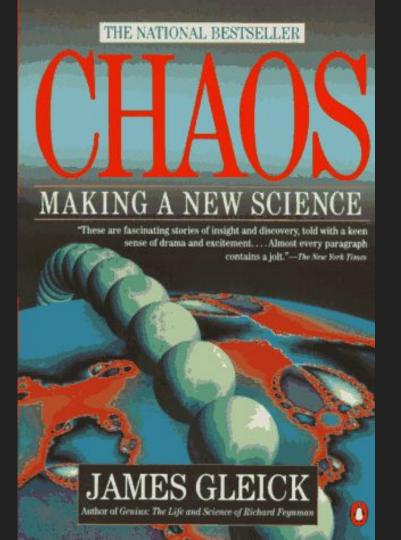
And so...



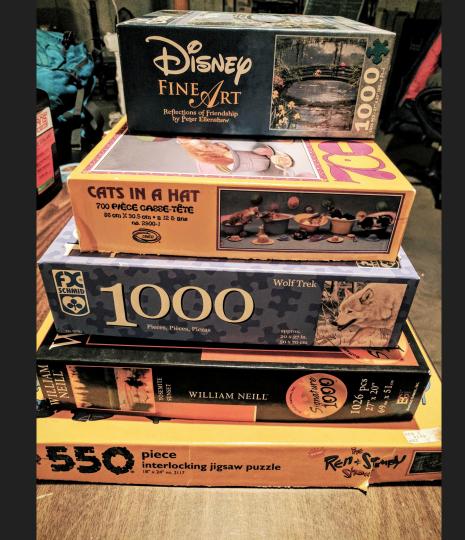


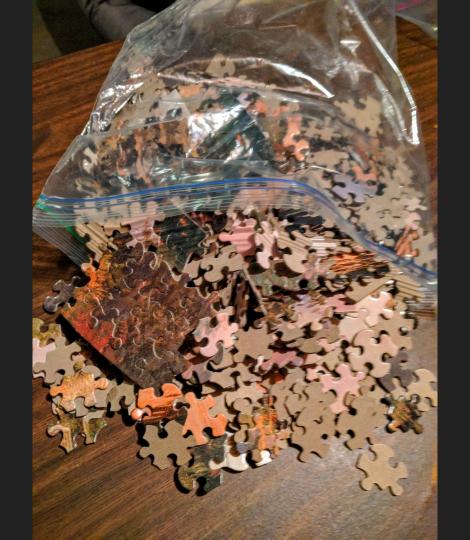
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Home Prices Instructions About the Jigsaw Doctor Examples Jigsaw Puzzles

All you need to do is send us the pieces that surround the missing piece

Full Instructions

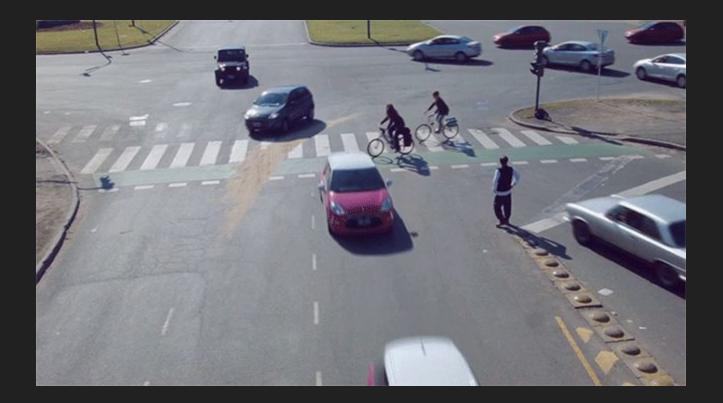
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About the Jigsaw Doctor

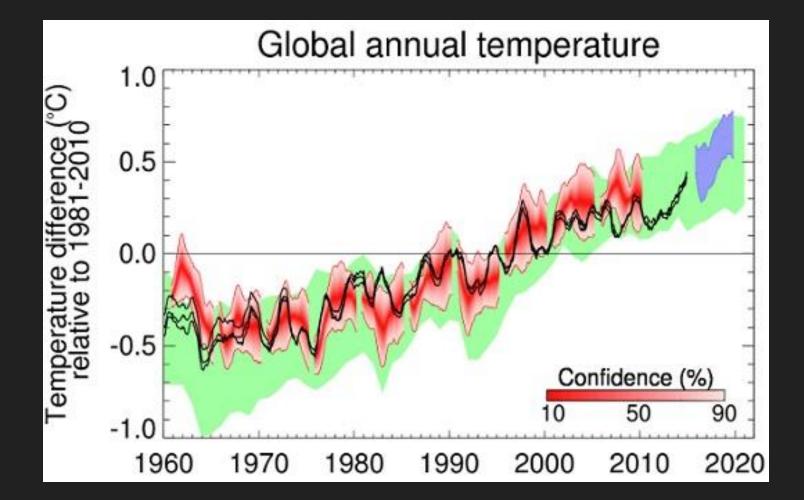


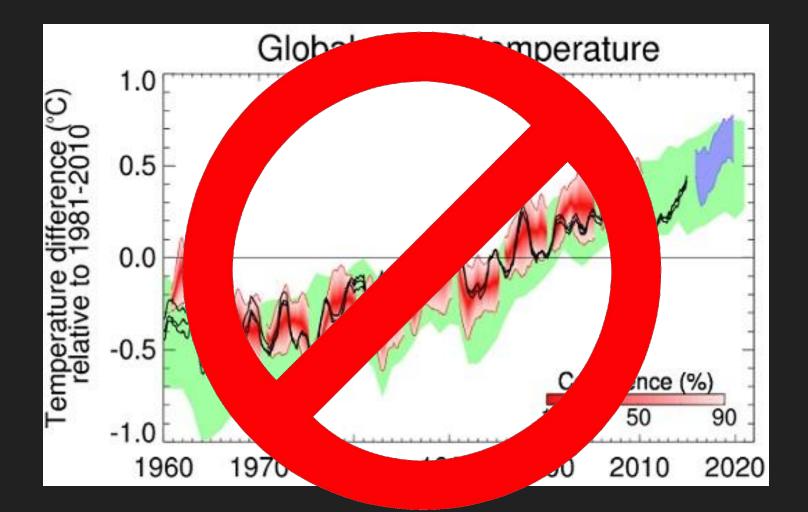


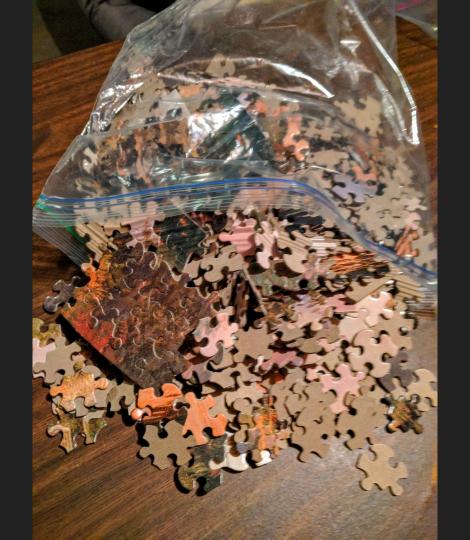




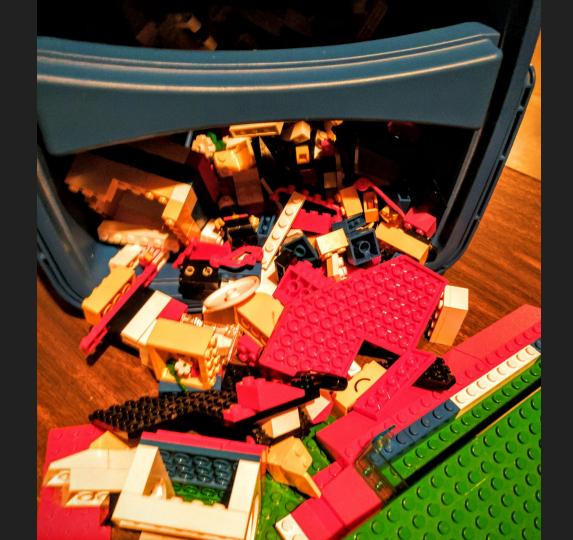






















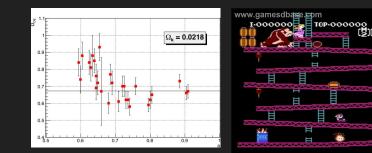
1. It's Called Organized Chaos





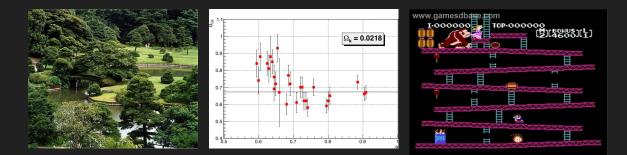
- 1. It's Called Organized Chaos
- 2. Avoid the Lure of Data



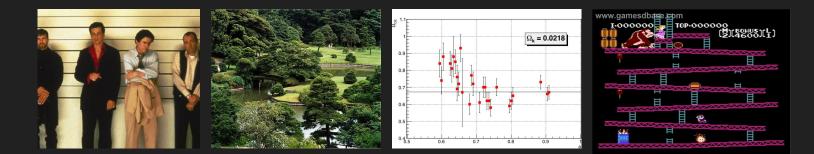


- 1. It's Called Organized Chaos
- 2. Avoid the Lure of Data
- 3. Create Productive White Space





- 1. It's Called Organized Chaos
- 2. Avoid the Lure of Data
- 3. Create Productive White Space
- 4. Embrace Unusual Suspects



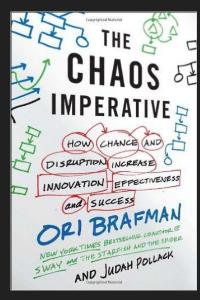


- 1. It's Called Organized Chaos
- 2. Avoid the Lure of Data
- 3. Create Productive White Space
- 4. Embrace Unusual Suspects

5. Organize Serendipity







"We all need what I call 'contained chaos' in our lives and careers."



-- Ori Brafman

Unleash the Chaos

ROC

Max