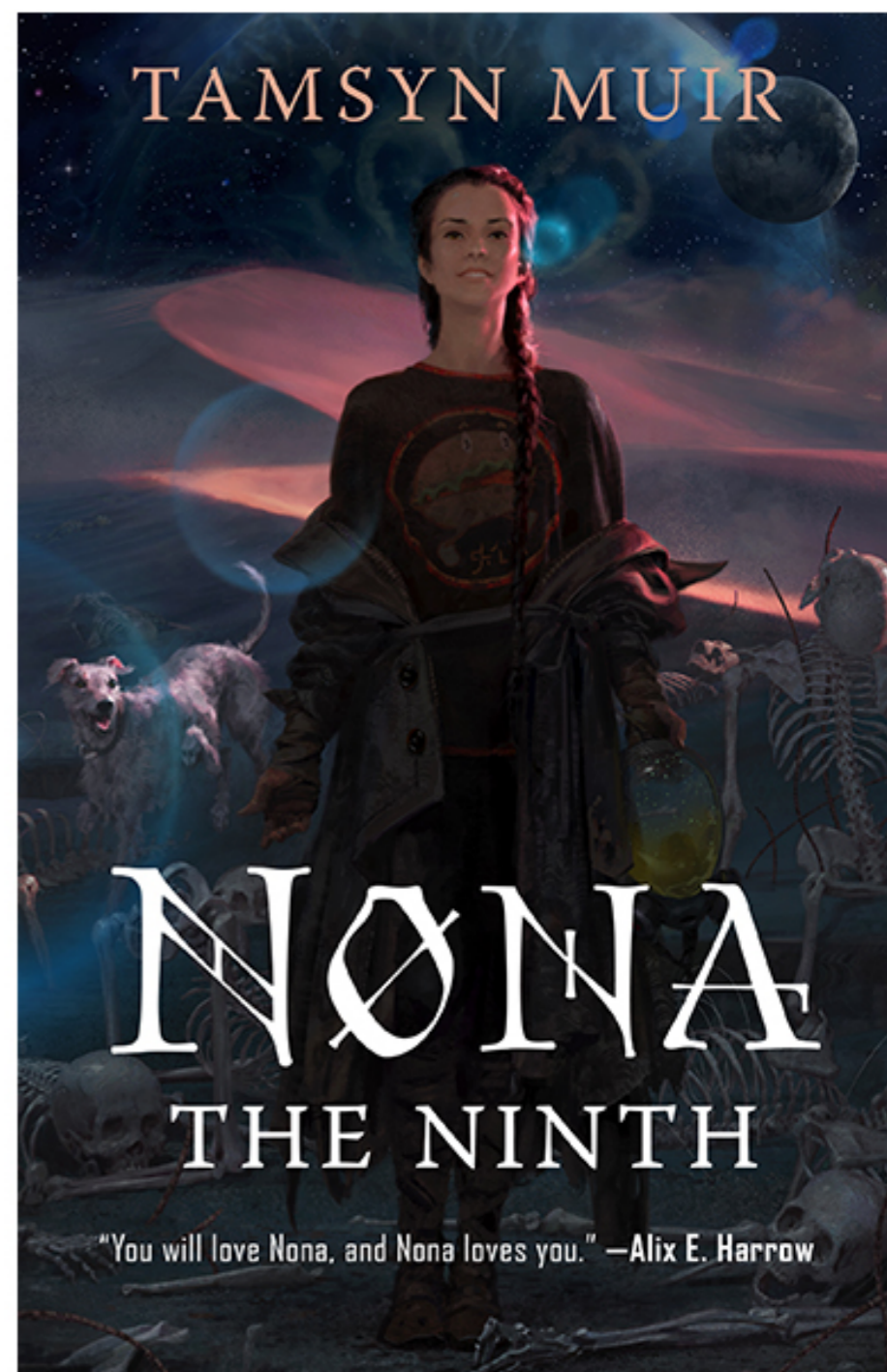
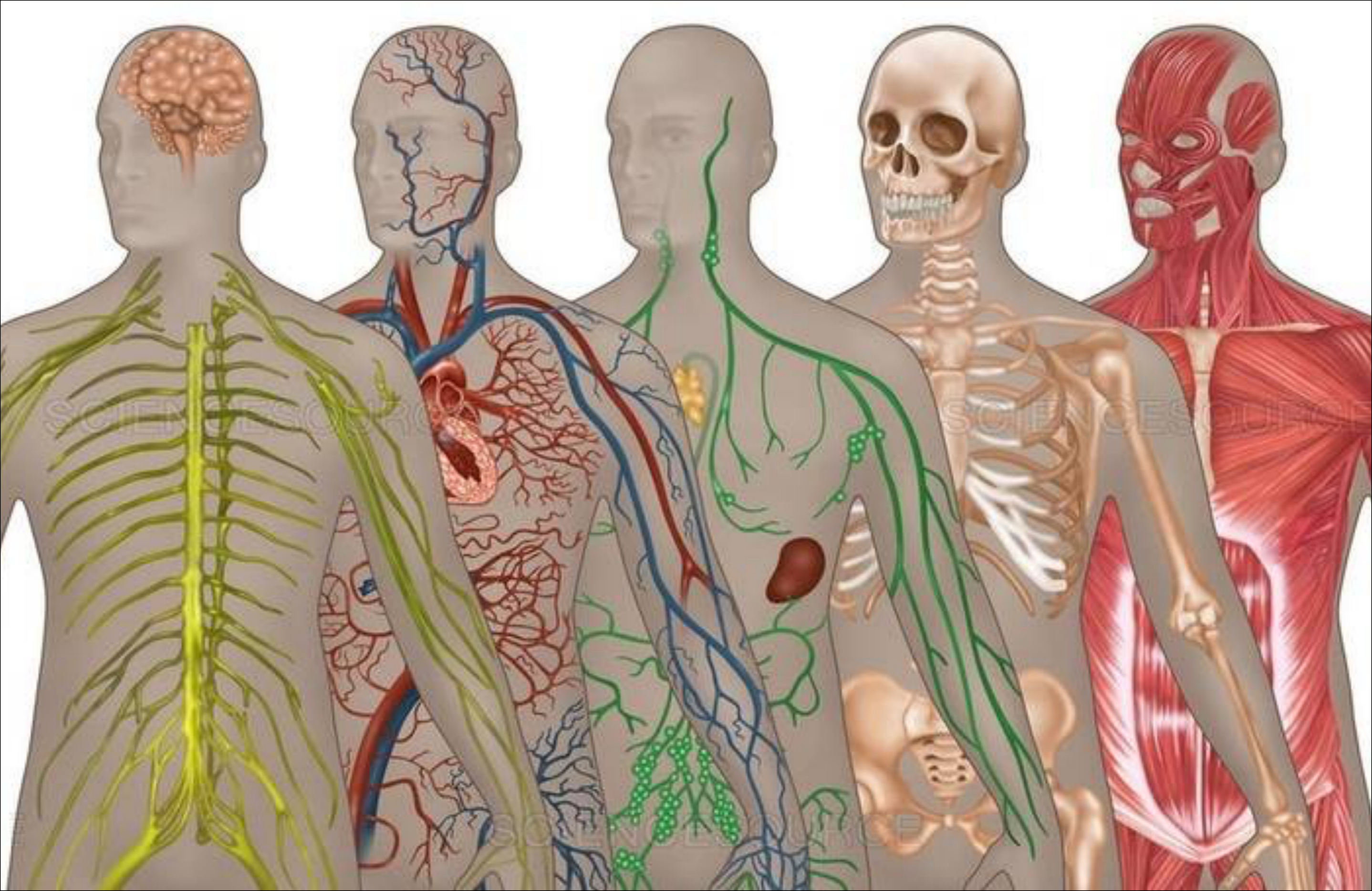

change is in our bones

by fen





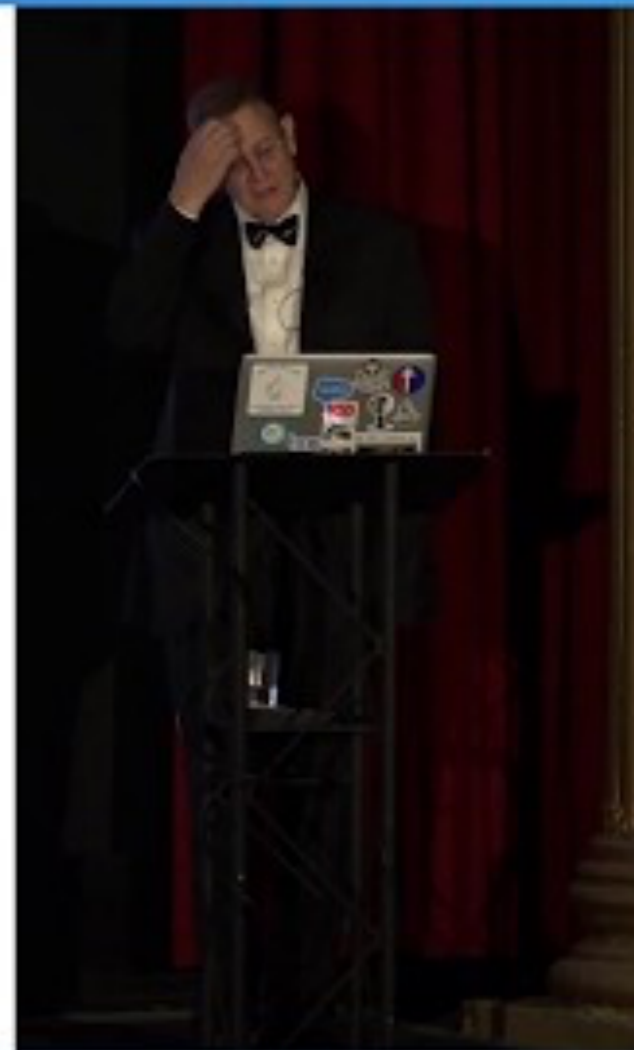
The marvelous resilience of bone



~1400 AD
50+ yr old ♀

Rosado MA, Vennacchio-Wilson J (2006). Paleopathology and osteobiography of the people of Peñuelas, Chile's semiarid north. *Mem Inst Oswaldo Cruz, Rio de Janeiro* 101(Suppl. II): 85-95. (fig. 24 - 26).

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REdeploy

Four concepts for resilience and the implications for the future of resilience engineering

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ABSTRACT

The concept of system resilience is important and popular—in fact, hyper-popular over the last few years. Clarifying the technical meanings and foundations of the concept of resilience would appear to be necessary. Proposals for defining resilience are flourishing as well. This paper organizes the different technical approaches to the question of what is resilience and how to engineer it in complex adaptive systems. This paper groups the different uses of the label ‘resilience’ around four basic concepts: (1) resilience as rebound from trauma and return to equilibrium; (2) resilience as a synonym for robustness; (3) resilience as the opposite of brittleness, i.e., as graceful extensibility when surprise challenges boundaries; (4) resilience as network architectures that can sustain the ability to adapt to future surprises as conditions evolve.

graceful extensibility

- how systems stretch to handle surprises

adaptive capacity

- the ability to adapt and alter the system over time in response to feedback.

change is in our
bones

**1. constant destruction and
construction of the system**

2. construction &
destruction happens in
response to stresses on the
system

3. utilizing tight signaling
between loosely coupled
systems

4. happens without
administrative oversight or
control

The marvelous resilience of bone



~1400 AD
50+ yr old ♀

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Resilience Engineering

- a type of engineering applied to an already resilient system in order to bring its adaptive capacity to bear more effectively

**Every
is thing**



Connected

queer theory for lichens

Queer Theory for Lichens

DAVID GRIFFITHS

“Lichens are queer things” —Wyndham

“We are all lichens.” This is the concluding sentence of an article published in December 2012 in *The Quarterly Review of Biology*. The article, “A Symbiotic View of Life: We Have Never Been Individuals,” is co-authored by biologist Scott F. Gilbert, historian of biology Jan Sapp, and historian and philosopher of science Alfred I. Tauber. The article identifies six criteria by which individuality is defined in the biolog-

heterosexuality and sexual reproduction in defining and legitimating bodies, practices and communities.

The Symbiotic View of Life

Gilbert, Sapp, and Tauber trace the biological concept of the individual to

lichens



lichens are queer things

Shouldn't a fish whose gonads can be first male, then female, help us to determine what constitutes "male" and "female"?... Shouldn't the longterm female homosexual pair bonding in certain species of gulls help define our views of successful parenting, and help reflect on the intersection of social norms and biology?¹

1. Sharon Kinsman "Life, Sex, and Cells."

we are all lichens

Eating, digesting and living are impossible without our symbiotic relationships... if life and nature are to be found anywhere, it is not autonomous individuals but the constitutive comminglings, involvements, and interconnected relationships that make up the ecological mesh.¹

1. David Griffiths, "Queer Theory for Lichens"

**symbiosis is resilience and is
inherently queer**

NOW

THAT'S WHAT I CALL



une pipe

we live in a society



Ceci n'est pas une pipe.

medical v societal models of disability¹

1. Stacy Clifford Simplican *The Capacity Contract*

medical (individual) view

- treats illness that you (individually) have within you and separates you from the rest of society

societal (symbiotic) view

- interconnected systems and degrees of disability or illness existing inside it.
How can we bring our natural resilience best to bear as a group to treat this problem?

The comfort of individuality

out groups almost always
disempowered population

HIV/AIDS

COVID-19



transition &
resilience

Gender Dysphoria

~~Gender Dysphoria~~
is kinda bullshit

**Gender Dysphoria
is also medically important**

'cause here's the real secret of the universe. If you want to change sex, it's possible. For all human history we've had this divide between men and women, but if you want to cross that divide, if you want to transcend it entirely and be neither, it's possible.¹

1. Abigail Thorn, Philosophy Tube: "I Emailed My Doctor 133 Times: The Crisis In the British Healthcare System" <https://www.youtube.com/watch?v=v1eWishUzr8>

In particular, hold in one hand all of masculinity, Thor, Leonidas, Beowulf, James Bond, Andrew Tate, Jordan Peterson, all of them. And in the other just two milligrams of estrogen a day and tell me which one is more powerful.¹

1. Abigail Thorn, Philosophy Tube: "I Emailed My Doctor 133 Times: The Crisis In the British Healthcare System" <https://www.youtube.com/watch?v=v1eWishUzr8>

We live in a culture that valorizes men and treats them as the default but when you're a trans woman you can take all of that and just [blow it away] and be happier for it.¹

1. Abigail Thorn, Philosophy Tube: "I Emailed My Doctor 133 Times: The Crisis In the British Healthcare System" <https://www.youtube.com/watch?v=v1eWishUzr8>

change is in our
bones

being transgender is an act
of resilience

1. constant destruction and reconstruction of gender

**2. in response to feedback
(internal & external)**

3. utilizing tight
communication between
loosely coupled systems

4. without—or often in spite
of—central authoritative
control

mutual aid

**building symbiotic links
between individuals**

-or-

communities of support

Education

- stories & social media
- zines
- community maintained websites:
 - <https://transfemscience.org>
 - <https://genderdysphoria.fyi/en>

A sepia-toned portrait of Petr Kropotkin, a man with a full, long white beard and mustache, wearing round spectacles. The portrait is centered in the background of the slide.

Mutual Aid: a Factor of Evolution

- *Petr Kropotkin*

THE

REVOLUTION

WILL NOT

BE TERRAFORMED

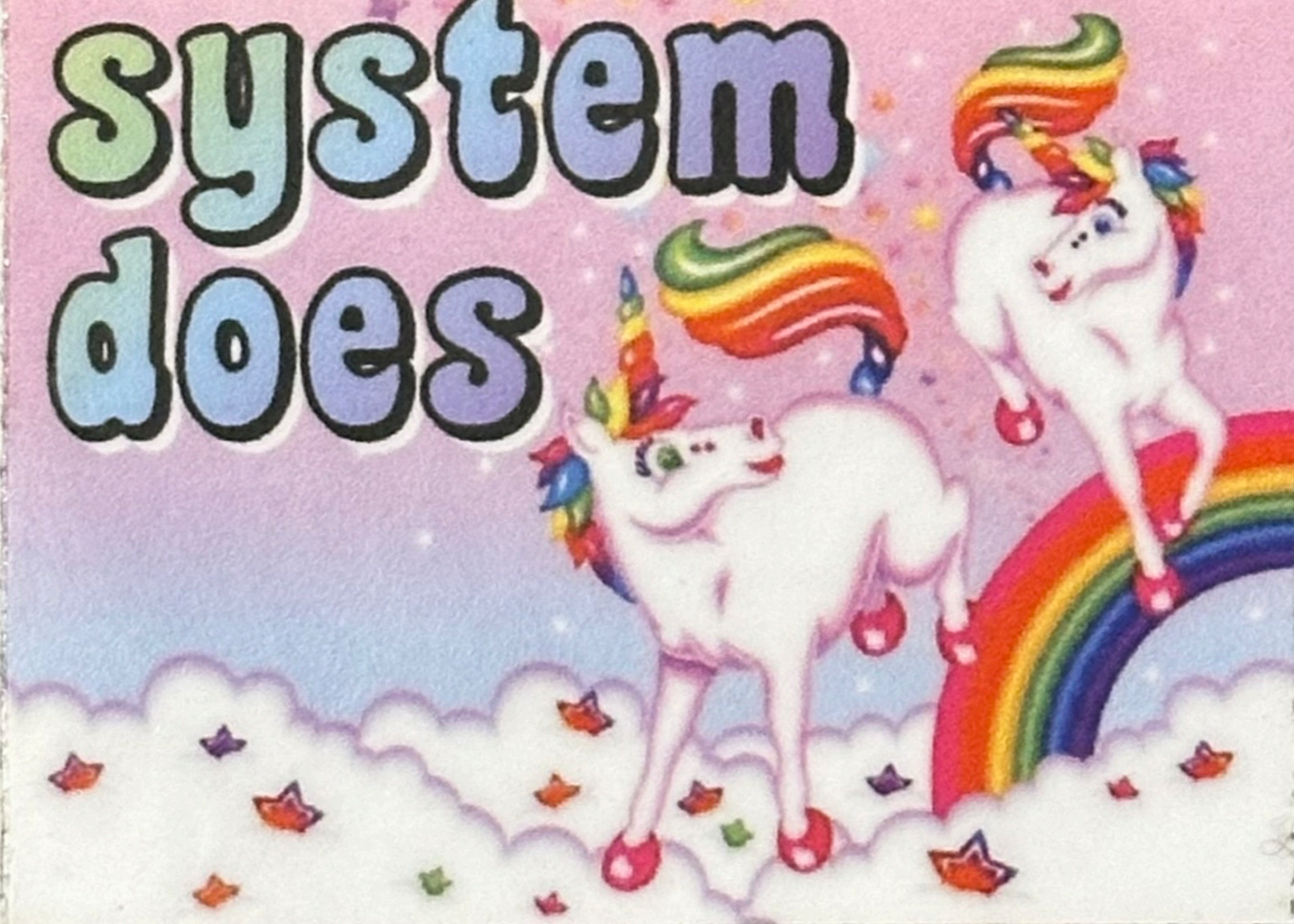


austin parker | social.ap2.io | [@austinparker](https://twitter.com/austinparker)



capitalism has an endless
capacity to co-opt
revolutionary movements and
sell back SAFE versions for
our consumption that do not
challenge existing power
structures

the
system is
what the
system
does



[Resilience engineering] is an attempt to bring the resilience, which is located in the people who are actually maintaining our systems, to bear in ways that allow it to flow more effectively to improve function.¹

1. Dr. Richard Cook, *A Few Observations on the Marvelous Resilience of Bone & Resilience Engineering*

we are all lichen

change is in our
bones

fen
aldrich

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Advocate*

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