

CONTEXT, RESEARCH, REFUSAL

PERSPECTIVES ON ABSTRACT PROBLEM-SOLVING

DR SEETA PEÑA GANGADHARAN

Outline

PART 1 Context, Context Sensitization

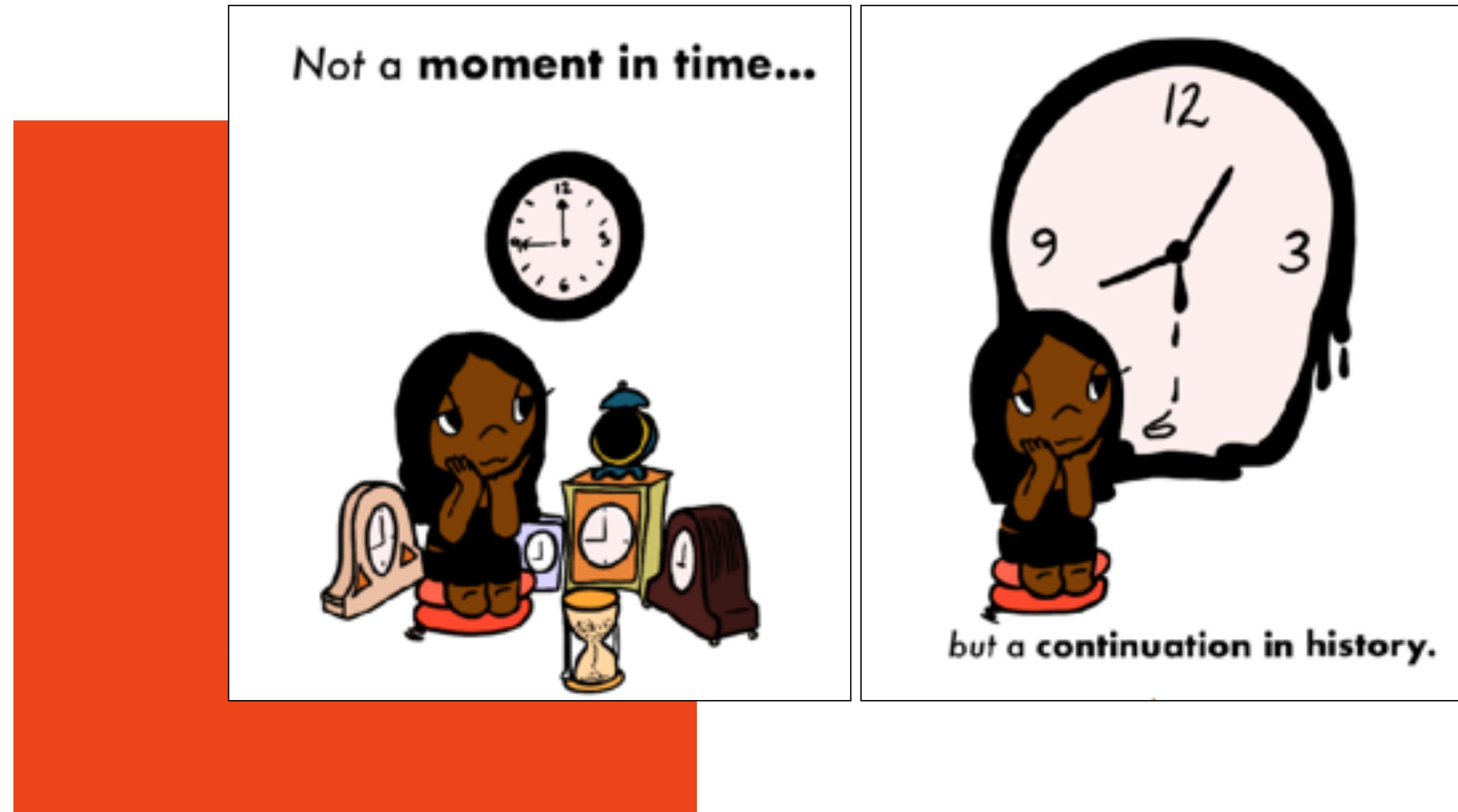
PART 2 Refusal: Rectification, Obfuscation, Abolition

PART 3 The Problem with Abstraction

Part 1

Context, Context Sensitization







Clifford Christians



James Carey

[I]n studying humans we are examining a creative process whereby people produce and forms of life and society and systems of meaning and value (1989, p. 346).

The Moral Character of Cryptographic Work[☆]

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December 2015
(minor revisions March 2016)

Abstract. Cryptography rearranges power: it configures who can do what, from what. This makes cryptography an inherently *political* tool, and it confers on the field an intrinsically *moral* dimension. The Snowden revelations motivate a reassessment of the political and moral positioning of cryptography. They lead one to ask if our inability to effectively address mass surveillance constitutes a failure of our field. I believe that it does. I call for a community-wide effort to develop more effective means to resist mass surveillance. I plead for a reinvention of our disciplinary culture to attend not only to puzzles and math, but, also, to the societal implications of our work.

Keywords: cryptography · ethics · mass surveillance · privacy · Snowden · social responsibility

Preamble. Most academic cryptographers seem to think that our field is a fun, deep, and politically neutral game—a set of puzzles involving communicating parties and notional adversaries. This vision of who we are animates a field whose work is intellectually impressive and rapidly produced, but also quite inbred and divorced from real-world concerns. Is this what cryptography *should* be like? Is it how we *should* expend the bulk of our intellectual capital?

For me, these questions came to a head with the Snowden disclosures of 2013. If cryptography’s most basic aim is to enable secure communications, how could it *not* be a colossal failure of our field when ordinary people lack even a modicum of communication privacy when interacting electronically? Yet I soon realized that most cryptographers didn’t see it this way. Most seemed to feel that the disclosures didn’t even implicate us cryptographers.

I think that they do. So I want to talk about the moral obligations of cryptographers, and my community as a whole. This is not a topic cryptographers routinely discuss. In this post-Snowden era, I think it needs to be.

[☆] This is a preprint. It has not been peer-reviewed or edited. © 2015 IACR. Digtialized by sgd.

Part 2

Refusal: Rectification, Obfuscation, Abolition



Mariella Saba



Kim Reynolds



Seeta Peña
Gangadharan



Tawana Petty

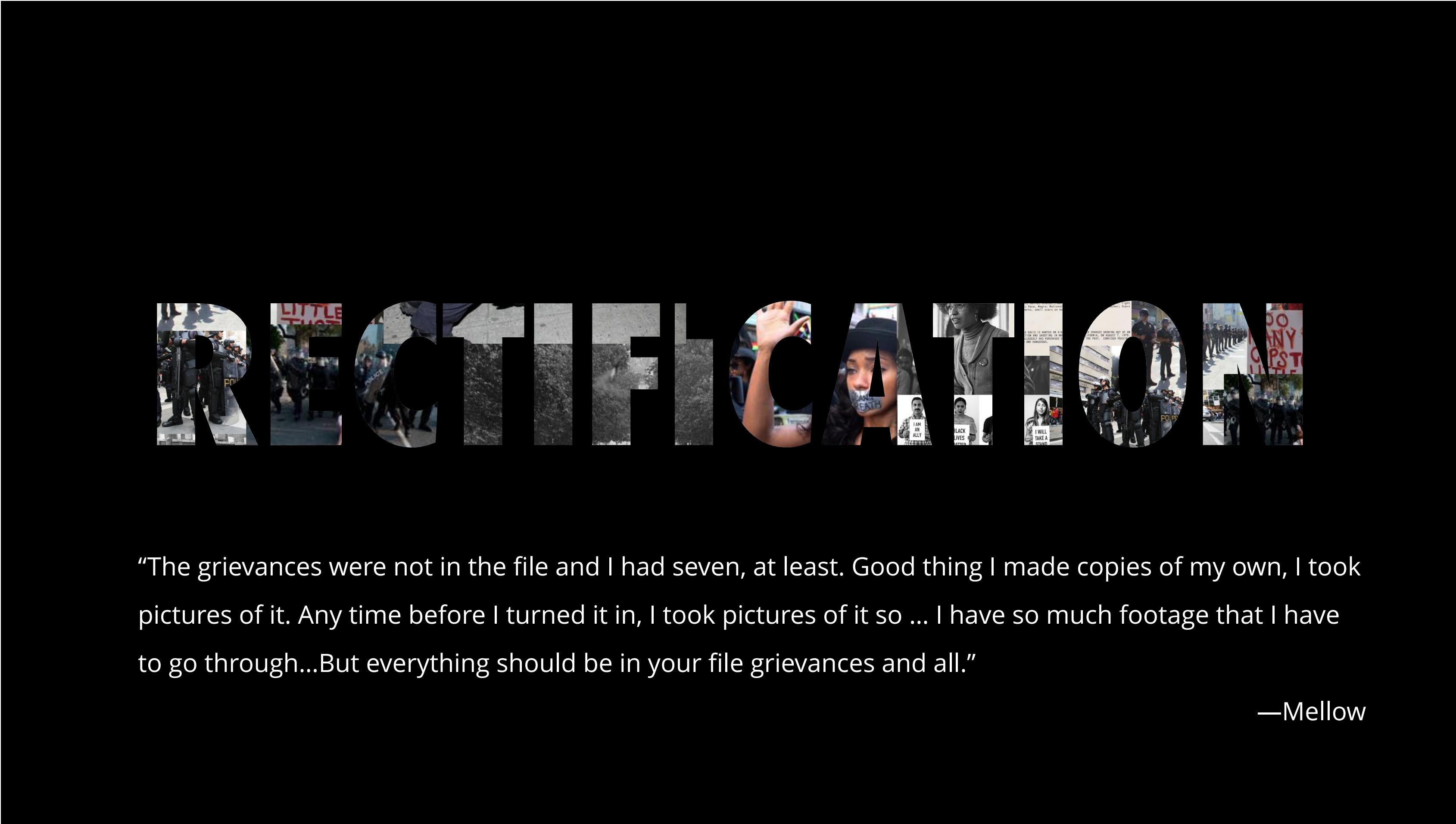


Tamika Lewis

Our Data Bodies

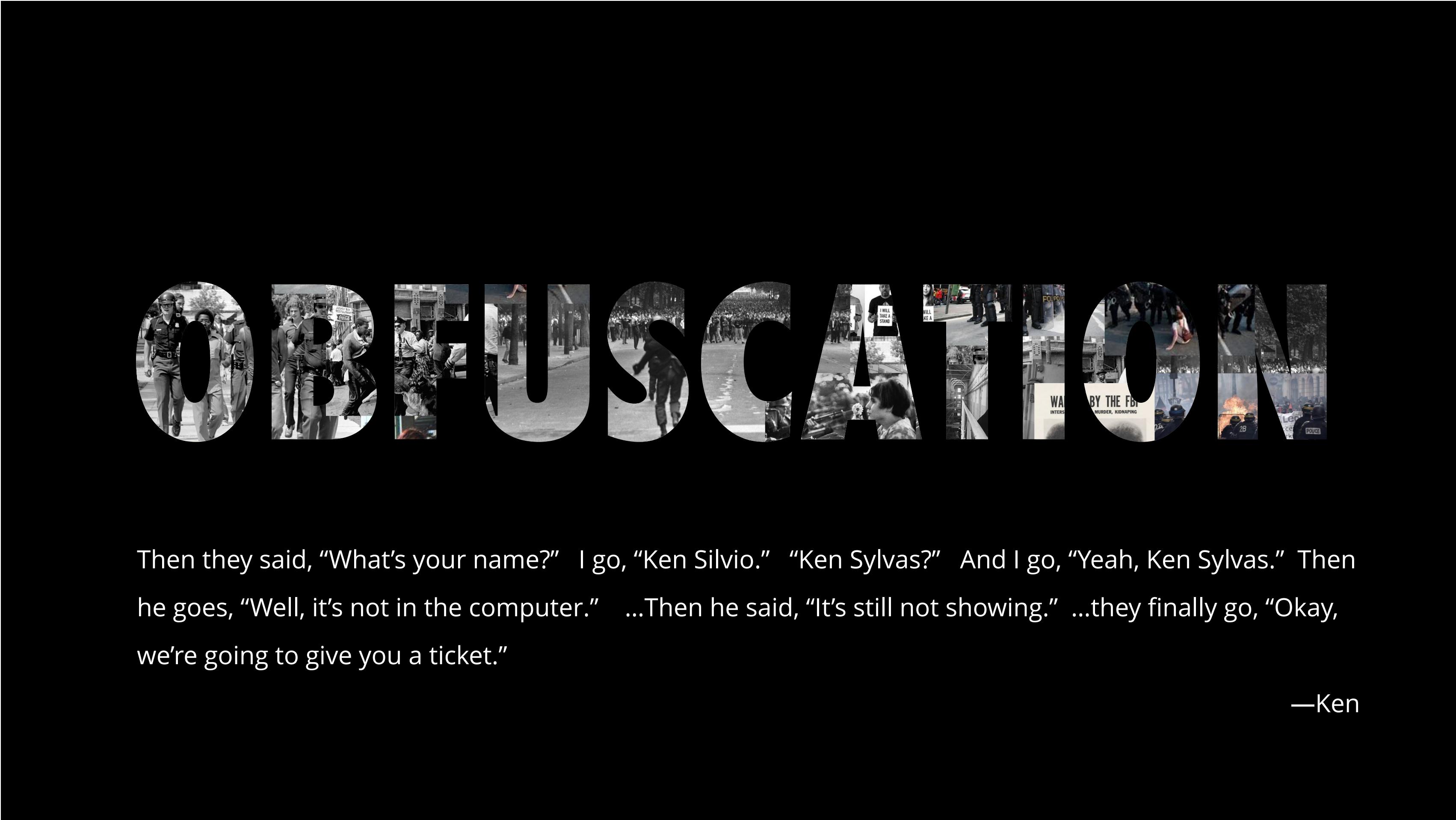
- Impact of data-driven systems and data collection on marginalized communities
- Community-centered, participatory research in Charlotte, Detroit, & Los Angeles
- 140 interviews + reflective focus groups + participatory workshops





"The grievances were not in the file and I had seven, at least. Good thing I made copies of my own, I took pictures of it. Any time before I turned it in, I took pictures of it so ... I have so much footage that I have to go through...But everything should be in your file grievances and all."

—Mellow



Then they said, "What's your name?" I go, "Ken Silvio." "Ken Sylas?" And I go, "Yeah, Ken Sylas." Then he goes, "Well, it's not in the computer." ...Then he said, "It's still not showing." ...they finally go, "Okay, we're going to give you a ticket."

—Ken



At this juncture in Detroit's history, there are two clear paths forward. The first path sees more surveillance...The second path is different... It guards privacy while increasing trust in the government. It both protects and serves.

— Detroit Community Technology Project

Part 3

The Problem of Abstraction

ABSTRACTION

Privacy



Health

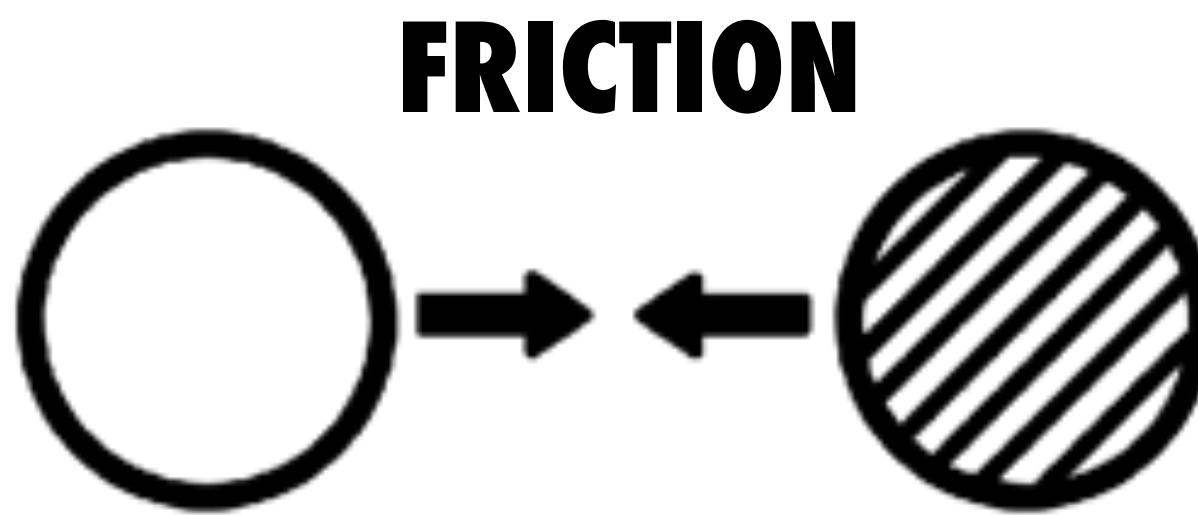


Collective well-being



Tech welfare





FRIC^ION

ALIG^NM^ENT



Thank you.

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