

**Karina Puente, Hypatia City (2017)**



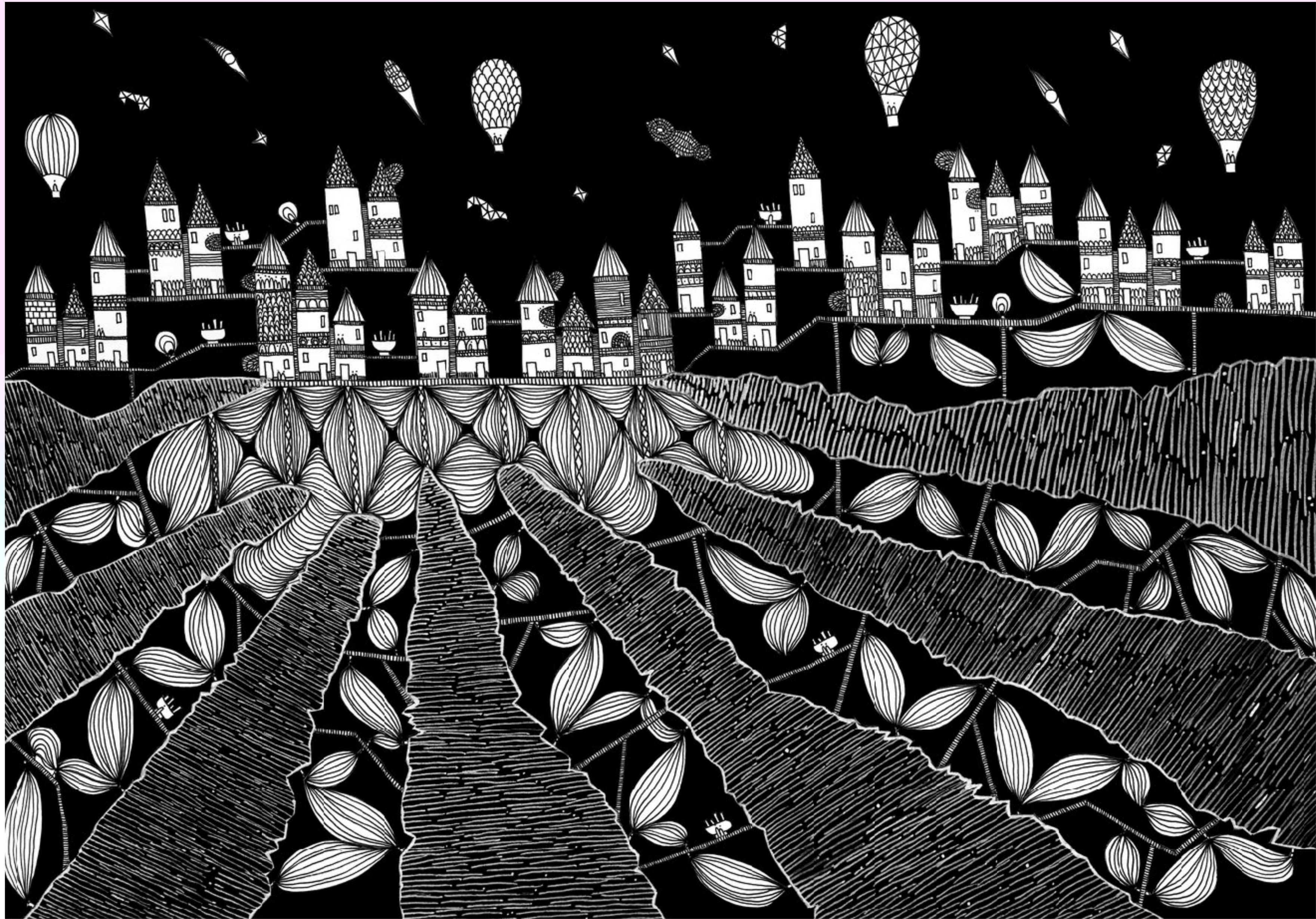
**There is no  
language without  
deceit.**

**Italo Calvino, *Invisible Cities* (1972)**



**Jules Maurice Gaspard, *Hypatia* (1908)**





**Karina Puente, Anastasia City (2017)**





**Karina Puente, Despina City (2017)**



## **Millions of Tiny Databases**

Marc Brooker  
*Amazon Web Services*

Tao Chen  
*Amazon Web Services*

Fan Ping  
*Amazon Web Services*



# Postmodern Systems

Intersubjectivity through Dialog

**Quinn Wilton (she/her)**



# Quinn Wilton

[@quinn@octodon.social](mailto:quinn@octodon.social)

- Applied Researcher @ Fission
  - Building a planetary scale database for local-first apps
- Programming language anthropologist and flâneuse of digital detritus
- Agenda
  1. Philosophy
  2. Language
  3. Data







**Karina Puente, Aglaura City (2017)**

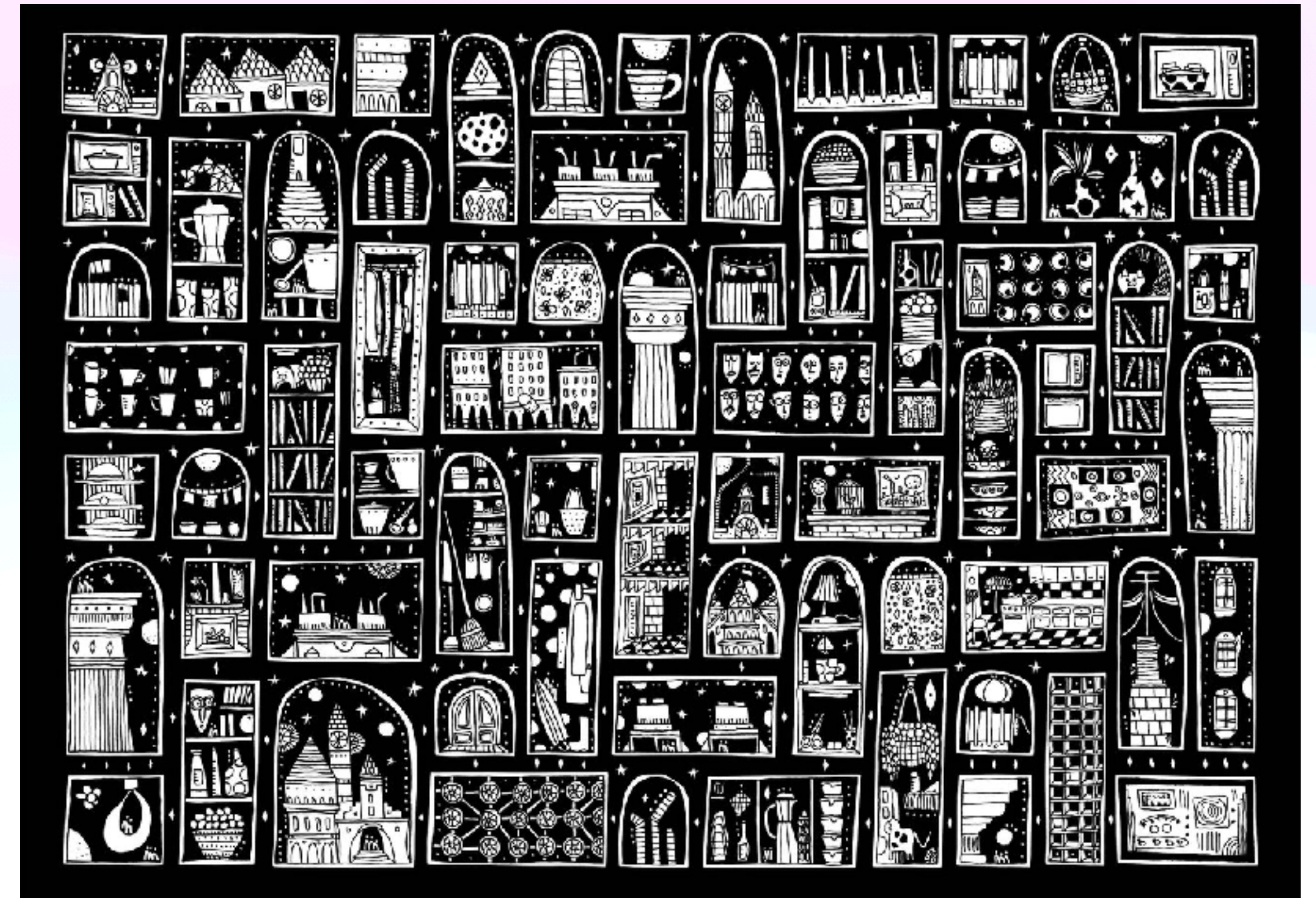
**Simplifying to the extreme,  
I define postmodern as  
incredulity toward  
metanarratives.**

**Jean-François Lyotard,  
The Postmodern Condition (1979)**



**The postmodern condition is characterised by the co-existence of a multiplicity of heterogeneous discourses—a state of affairs assessed differently by different parties.**

**Paul Cilliers,  
Complexity and Postmodernism (1998)**



**Karina Puente, Leandra City (2017)**



**... algorithms and interfaces tend to bracket out those messy and disorderly concerns that simply "do not compute." We're left with the sense that everything knowable and worth knowing about a city can fit on a screen—which simply isn't true.**



**Karina Puente, Zirma City (2017)**

**Shannon Mattern,  
A City is Not a Computer: Other Urban Intelligences (2021)**



## **'So vague, it invites abuse': Twitter reviews controversial new privacy policy**

The policy meant to tackle doxxing on the platform was weaponized by the far-right, leaving many anti-fascist activists locked out of their accounts

**The Guardian (2021)**

## **Stop TikTok Stalkers: How to Keep Creeps Off Your Account**

TikTok can be a dangerous place. Control your privacy settings to protect yourself.

**CNET (2022)**


## **Social Media Misinformation and the 2022 Philippine Elections**

November 22, 2021

**Center for Strategic and International Studies (2021)**

## **Uber makes changes amid swarm of criticism over rider safety**

The app will allow on-trip reporting of incidents such as erratic driving or invasive questioning.

 By [Faiz Siddiqui](#)

September 26, 2019 at 1:27 p.m. EDT

**The Washington Post (2019)**

## **Facebook criticised after women complain of inaction over abuse**

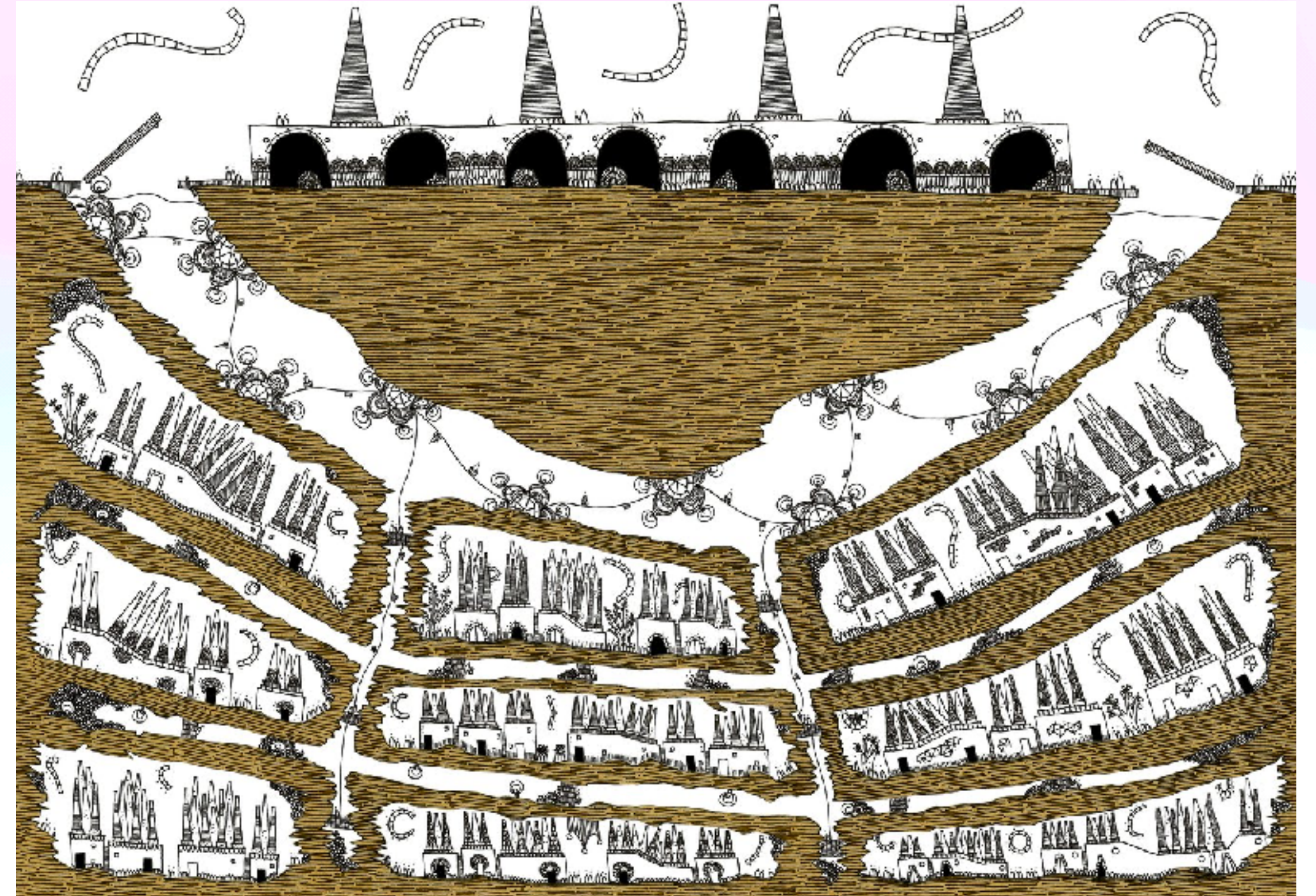
**Amnesty says social media firm must do more to support users who report harassment**

**The Guardian (2019)**



**Computer Science is in  
deep trouble. Structured  
design is a failure.**

**Gerald Jay Sussman,  
Robust Design through Diversity (1999)**



**Karina Puente, Dorothea City (2017)**



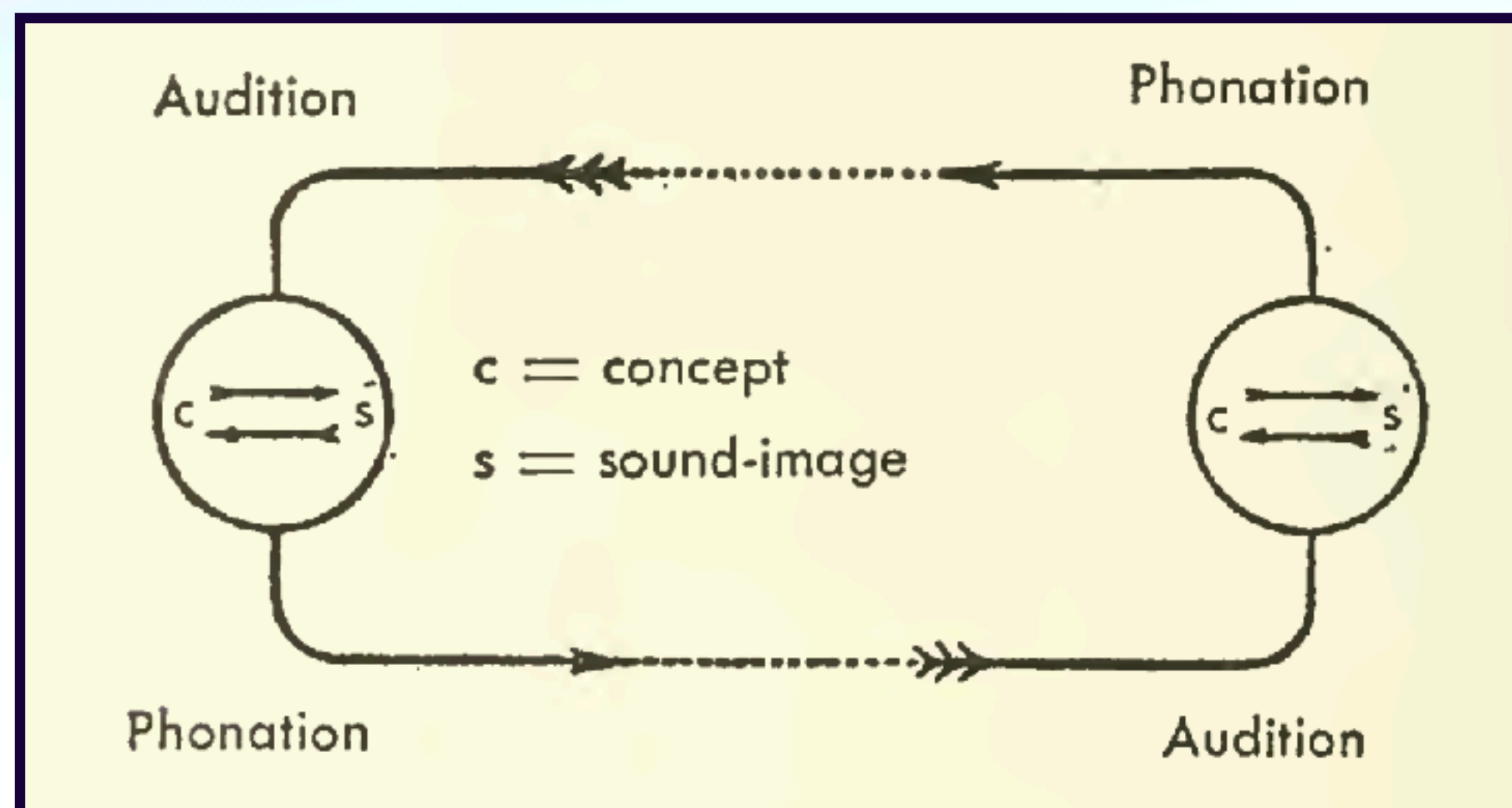
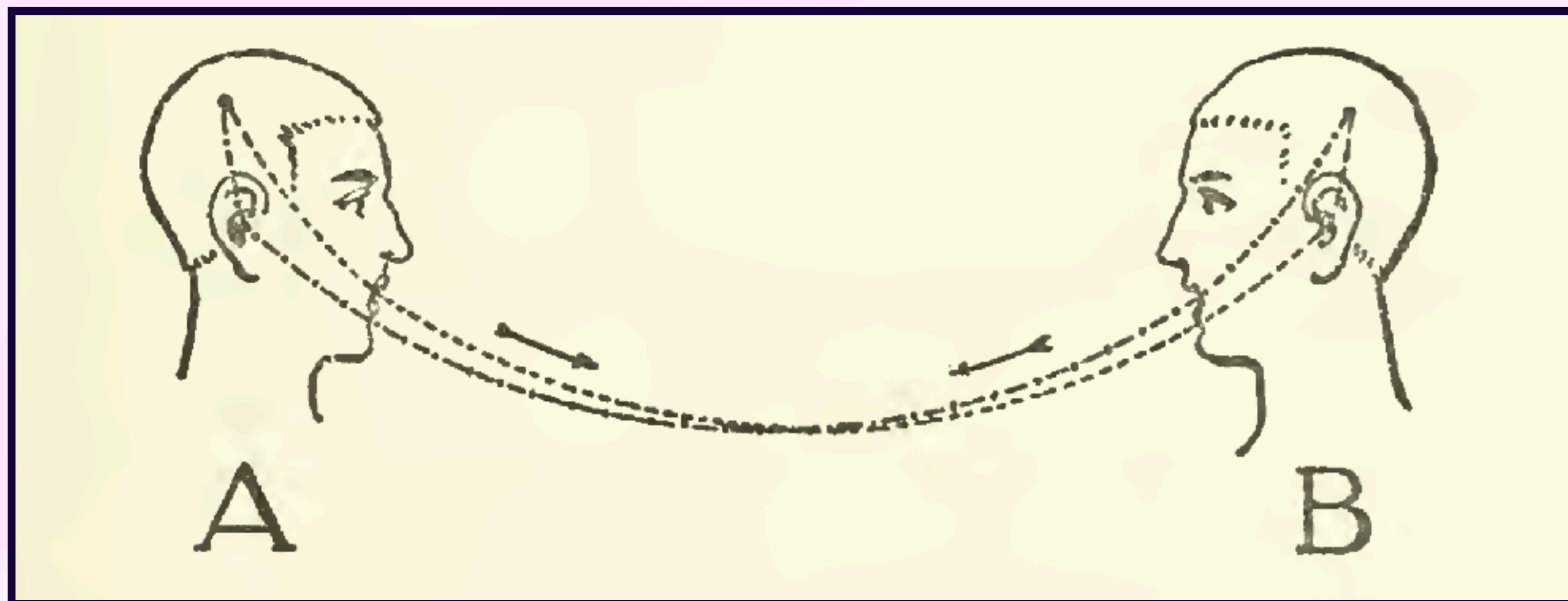
**To advance beyond the existing problems we must change, in a fundamental way, the nature of the language we use to describe computational systems.**

**Gerald Jay Sussman,  
Robust Design through Diversity (1999)**

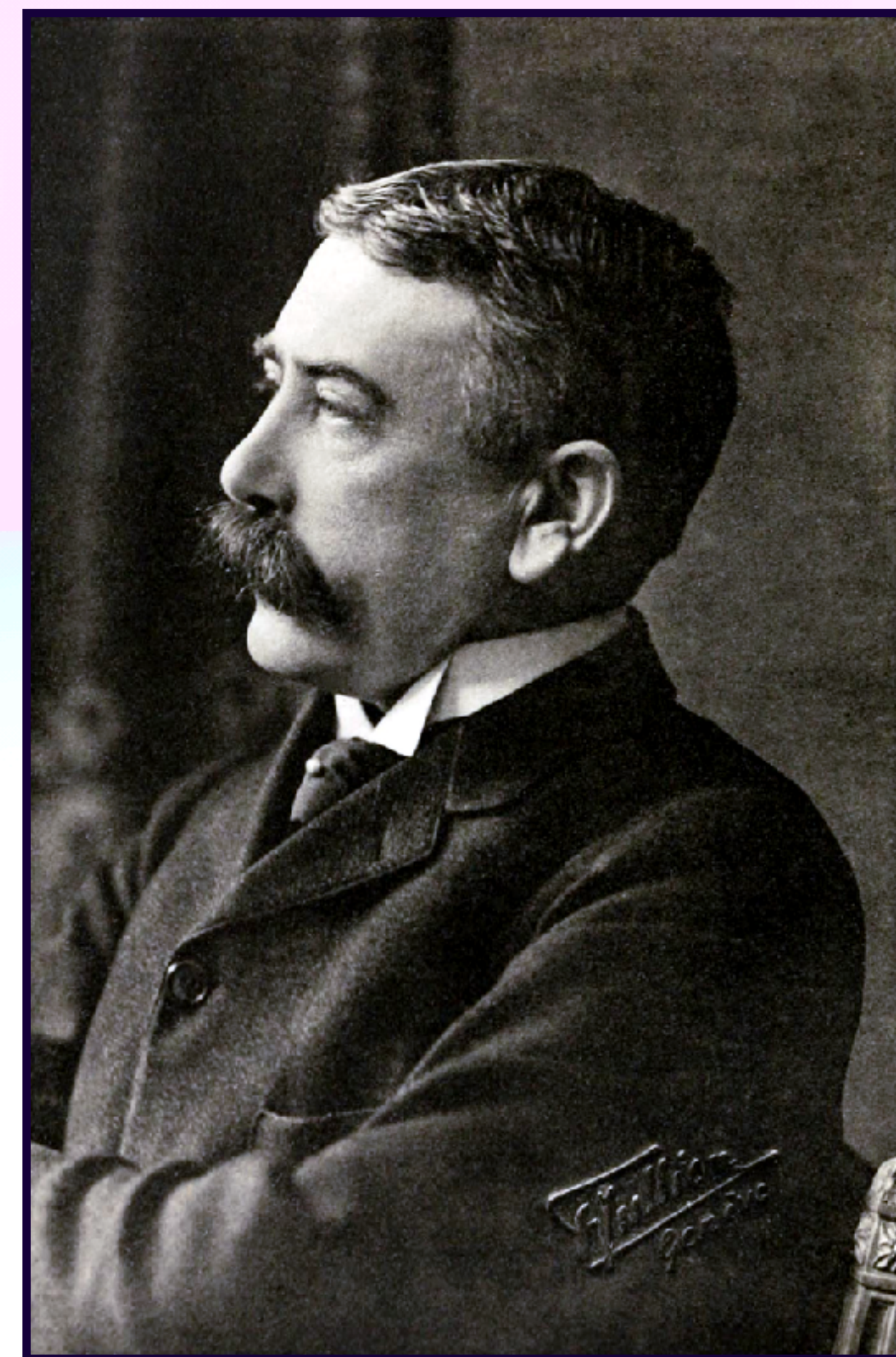


**Karina Puente, Zobeide City (2017)**



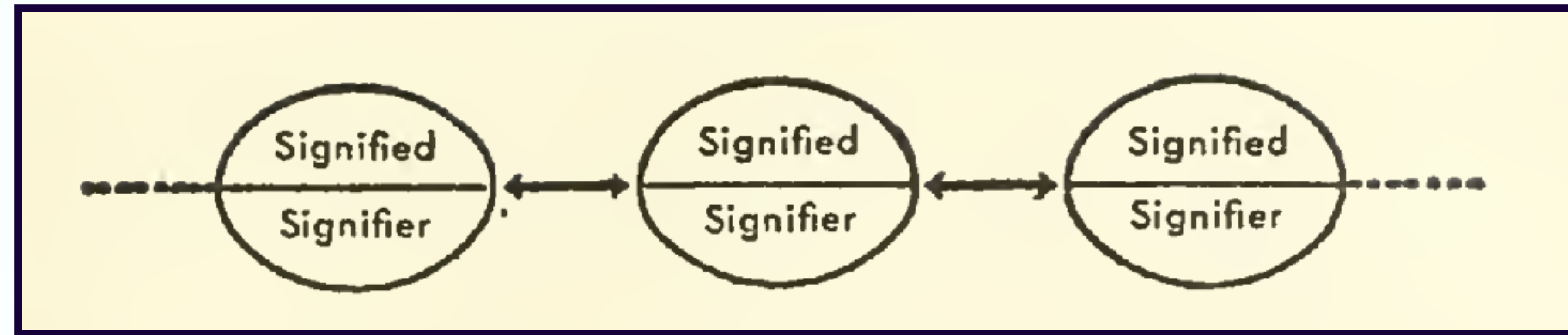
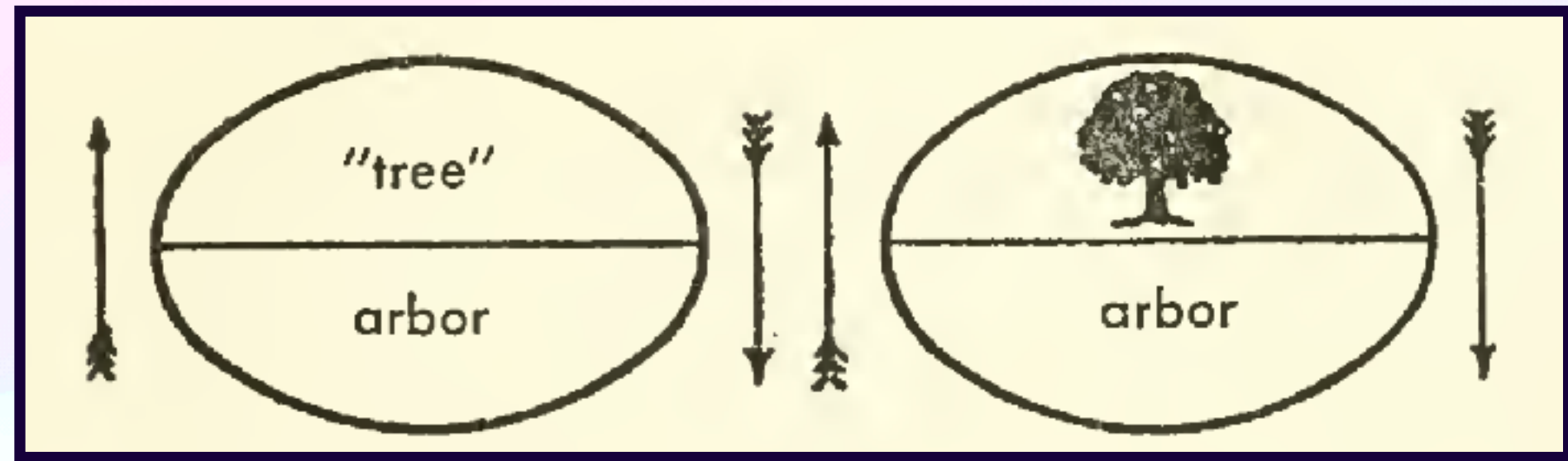
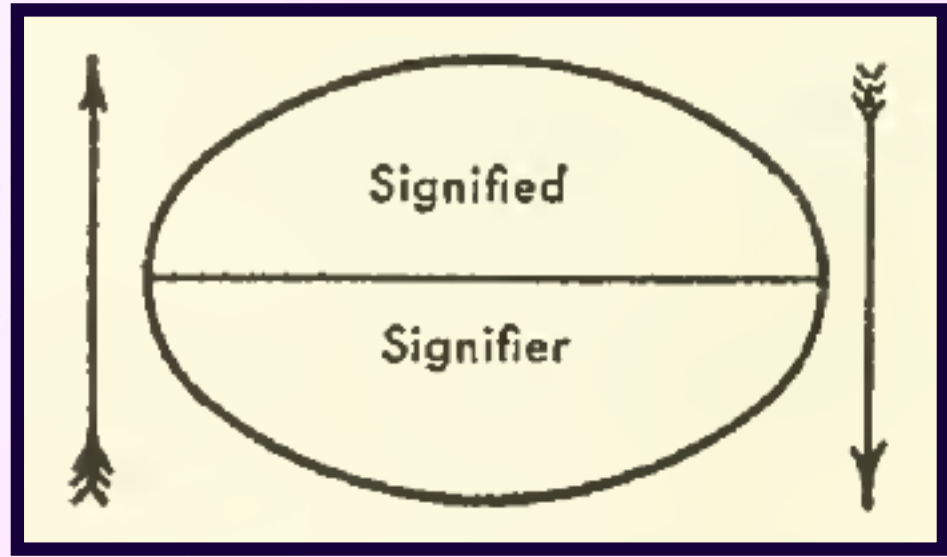


**Place of Language in the Facts of Speech**

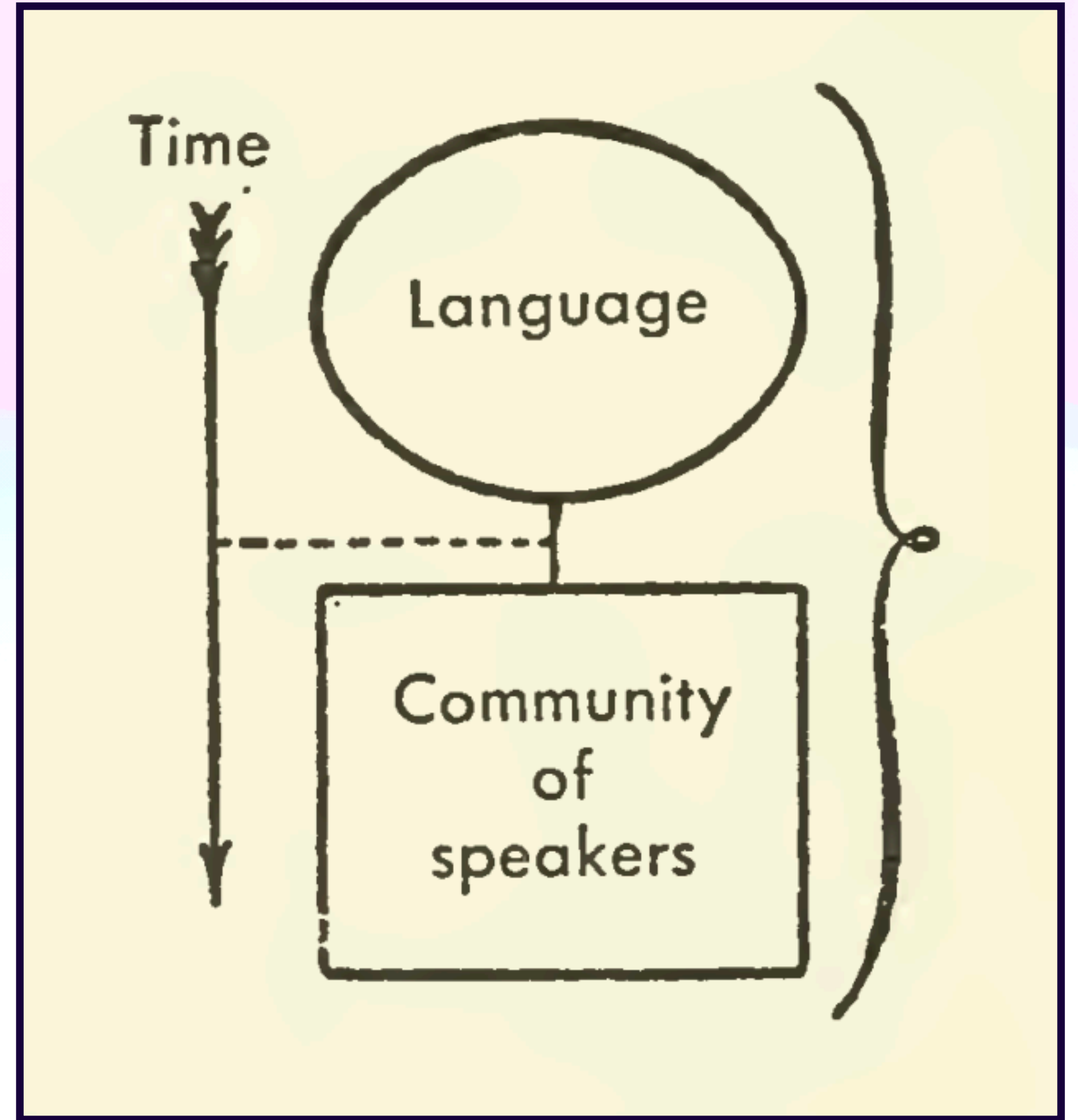


**Ferdinand de Saussure**  
**Photograph by F. Jullien Genève (before 1913)**





**Nature of the Linguistic Sign, and Linguistic Value**



**Immutability and Mutability of the Signs**



**We had first to weed out variations and irregularities characteristic of oral delivery ... and present each part of it in the order intended by the author even when his intention, not always apparent, had to be surmised.**

**Charles Bally & Albert Sechehaye (1915)**

# COURSE IN GENERAL LINGUISTICS

FERDINAND DE SAUSSURE

*Edited by* CHARLES BALLY *and*  
ALBERT SECHEHAYE

*In collaboration with*  
ALBERT REIDLINGER

*Translated from the French by* WADE BASKIN



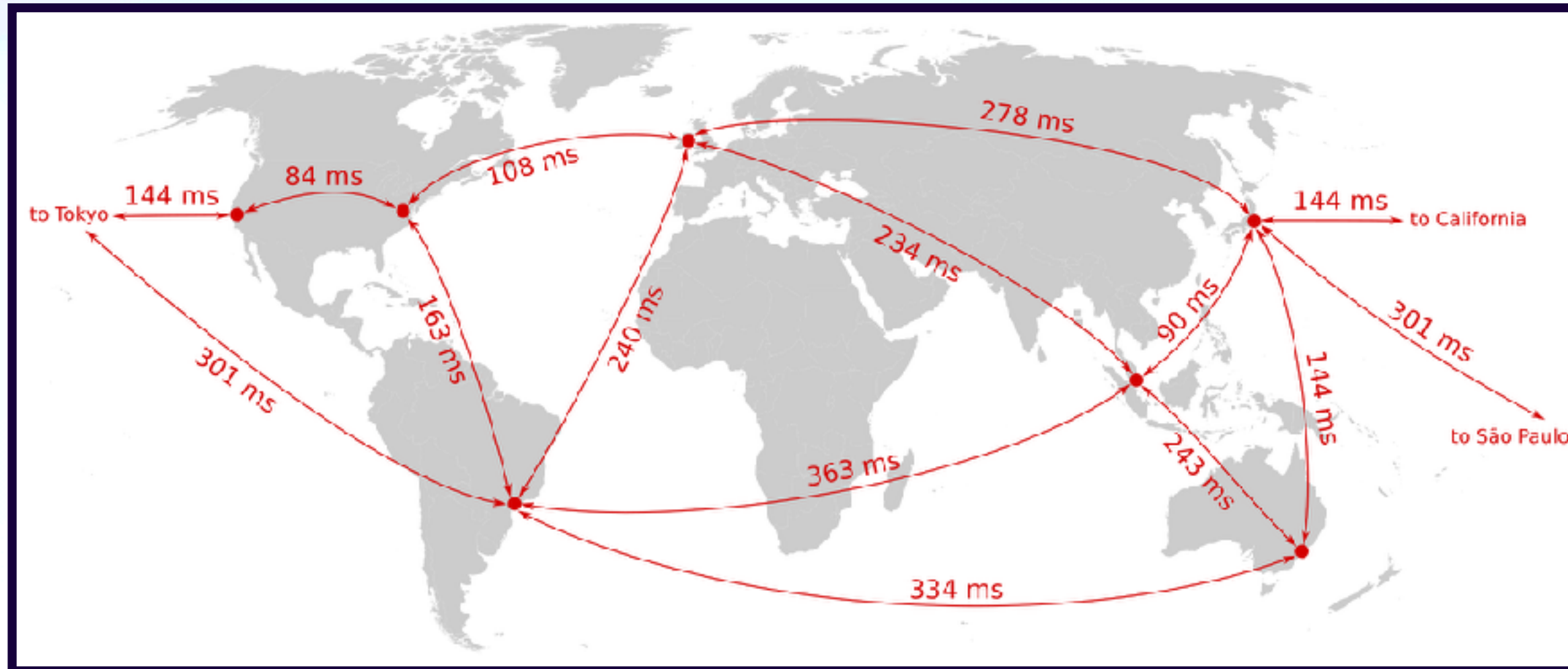
PHILOSOPHICAL LIBRARY

*New York*





Jacques Derrida (1930 - 2004)



Server-to-server round-trip times between AWS datacenters in various locations worldwide, Ink and Switch (2019)

# Of Grammatology

BY

Jacques  
Derrida

Corrected Edition

Translated by  
*Gayatri Chakravorty Spivak*

*The Johns Hopkins  
University Press  
Baltimore and London*



# A Certain Tendency Of The Database Community\*

Christopher S. Meiklejohn  
Université catholique de Louvain  
christopher.meiklejohn@gmail.com

November 11, 2018

## Abstract

We posit that striving for distributed systems that provide “single system image” semantics is fundamentally flawed and at odds with how systems operate in the physical world. We realize the database as an optimization of this system: a required, essential optimization in practice that facilitates central data placement and ease of access to participants in a system. We motivate a new model of computation that is designed to address the problems of computation over “eventually consistent” information in a large-scale distributed system.





**These designs are inherently limiting: we impose a structure of a single primary site for information because it makes processing easier with the tools that we have today.**

**Christopher S. Meiklejohn, A Certain Tendency of the Database Community (2018)**



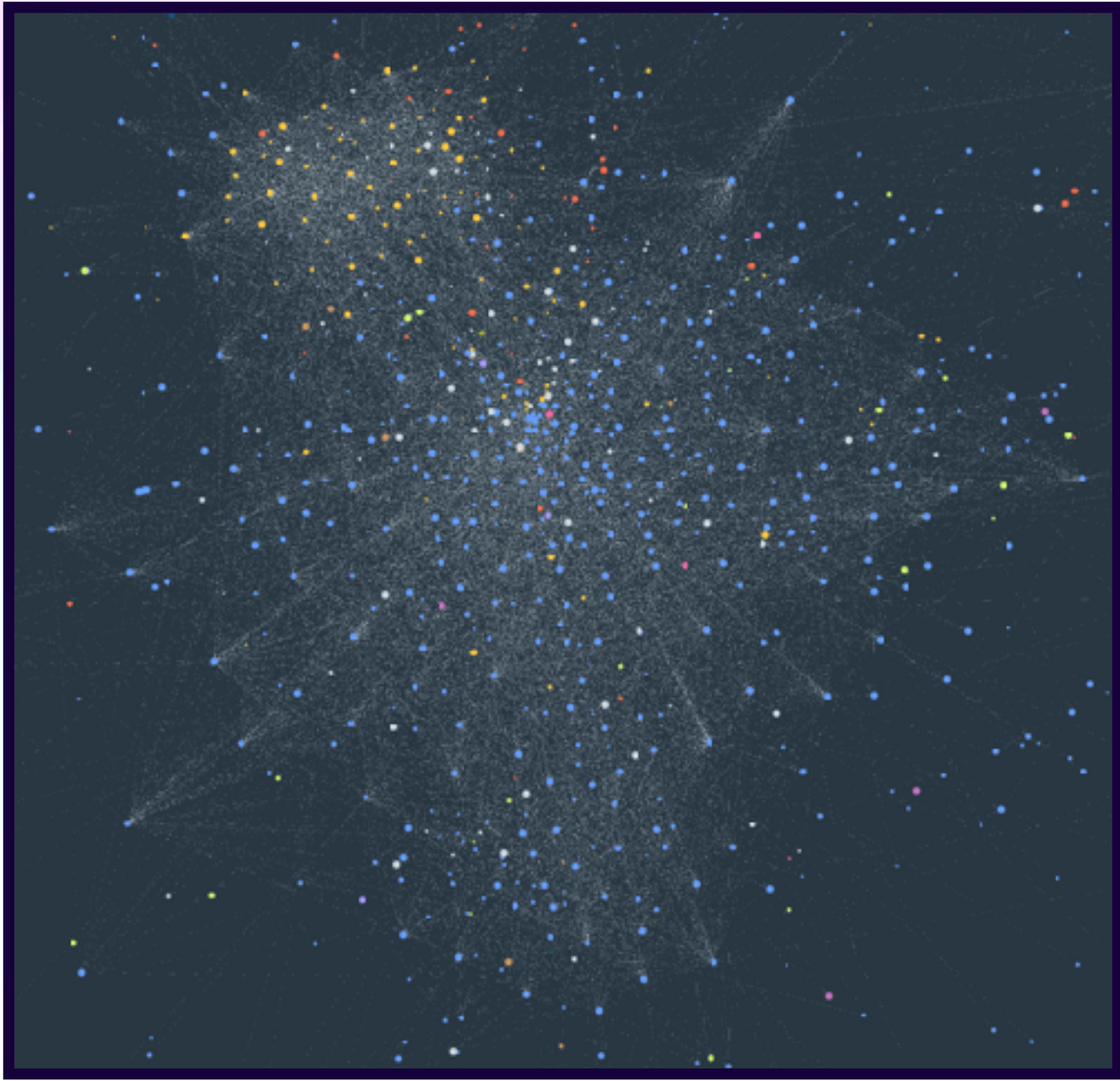
- Mastodon
- Pleroma
- Misskey
- Gab
- Pixelfed
- GNU Social
- Writefreely
- Peertube
- Friendica
- Hubzilla
- Plume
- Wordpress
- Smithereen

a feminist, anarchist, communist, cyberpunk culture and many trans and queer people, often with tech or scientific interests.

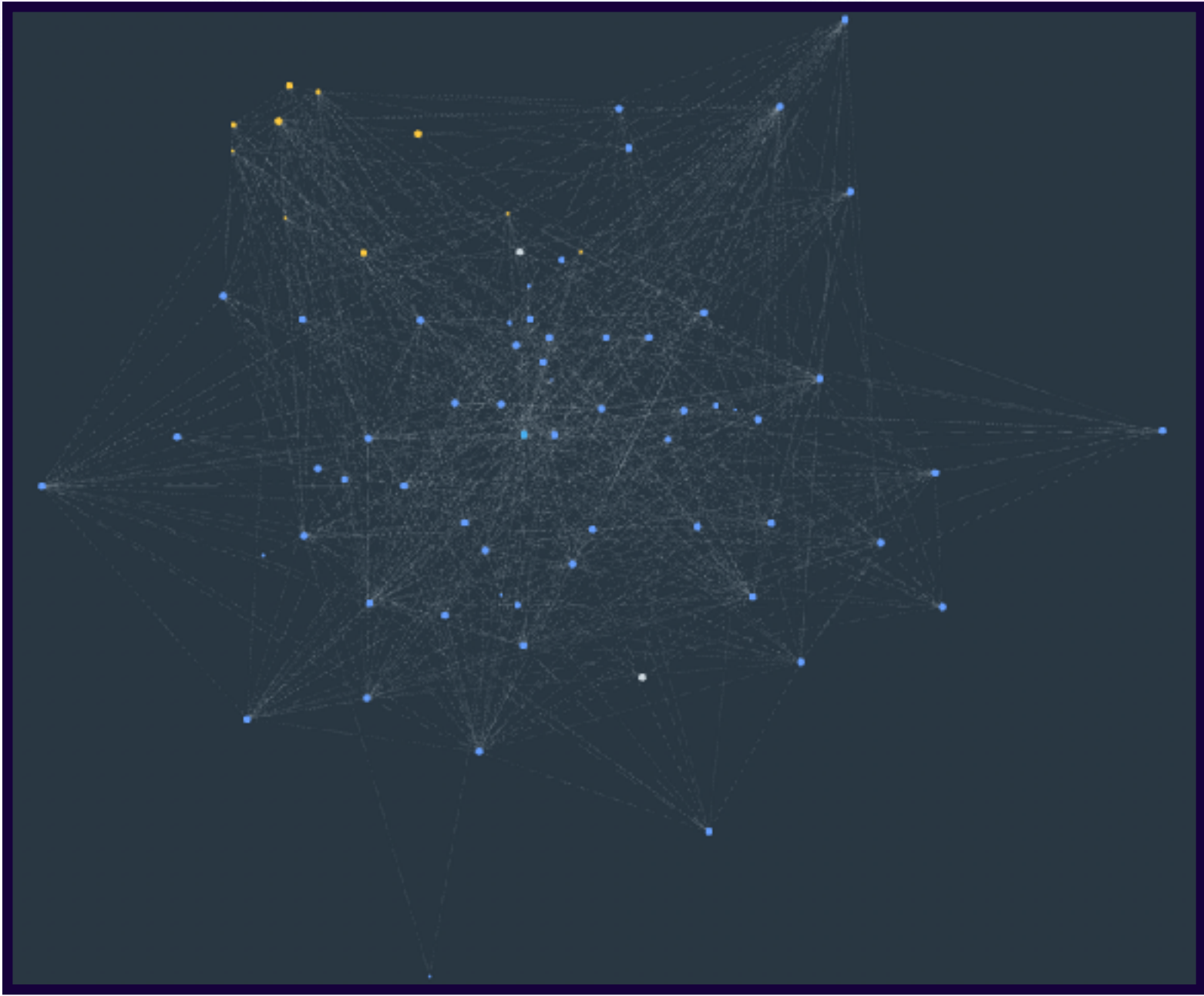
"I'm not Twitter, I'll fuck up nazis, transphobes and bullies for fun".

Here we are trying to build a curated network of respectful professionals in the tech industry. We are hackers, professionals, enthusiasts, and are passionate about life, respect, and freedom. We believe in peace. Safe space. Tech Industry. Economics. OSINT/News. Linux. Kubernetes. Infrastructure. Security. Hackers. Respect. LGBTQIA+. Pets. Hobbies. More.

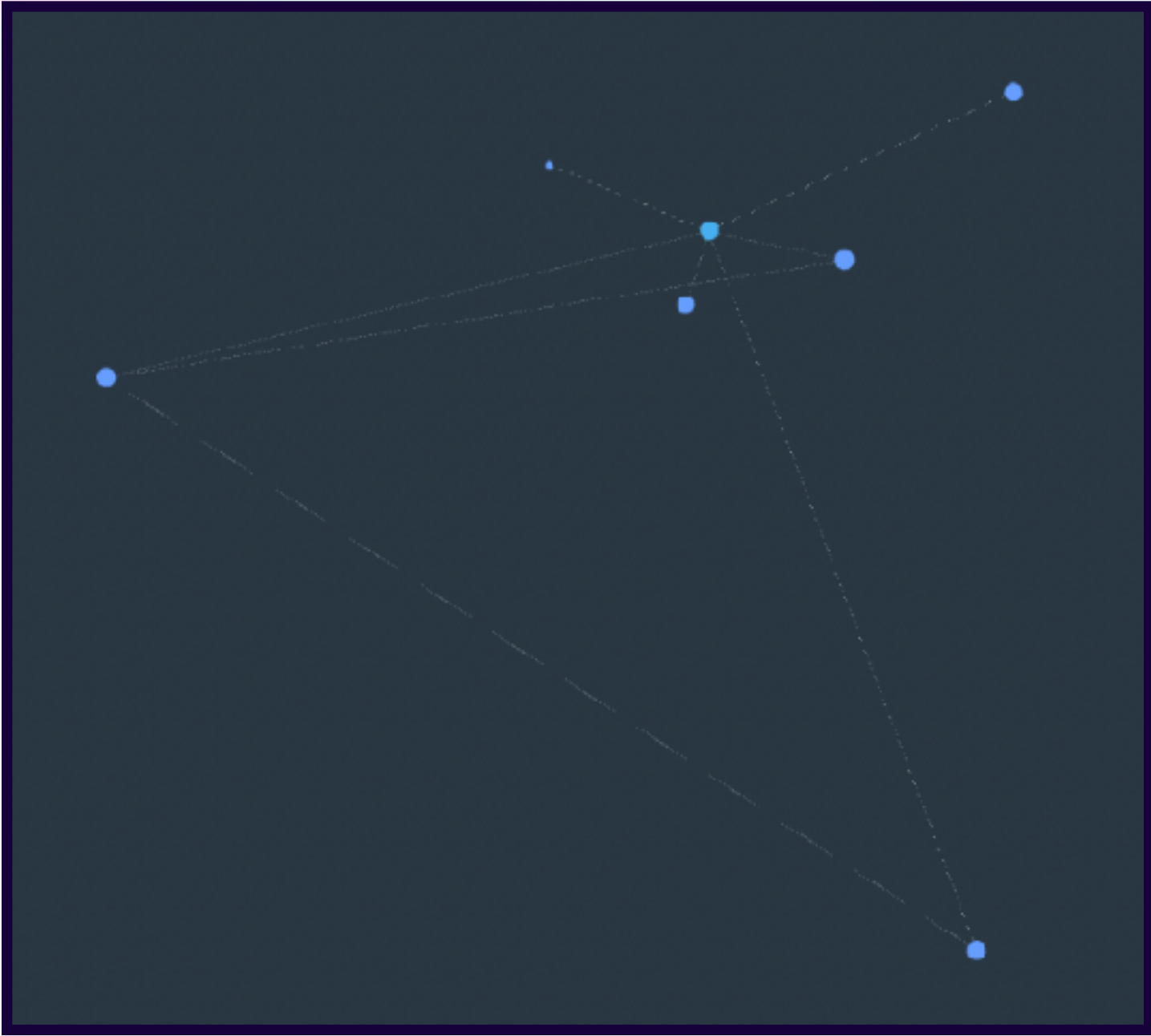
1. Posts similar to any of this will not stay up on our activity list:  
 1. That fifth symbol, or any variant of it, that is found in Latin script, including using "3" or homographic symbols in its spot. (Pics containing such may or may not stay, at mod whim.)



@octodon.social



@hachyderm.io



@oulipo.social

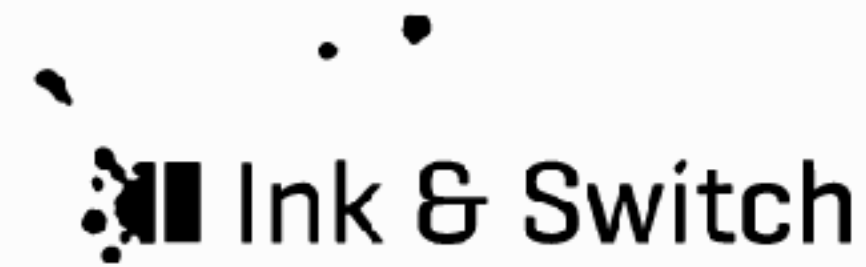


# Local-first software

## You own your data, in spite of the cloud

### Seven ideals for local-first software

1. No spinners: your work at your fingertips
2. Your work is not trapped on one device
3. The network is optional
4. Seamless collaboration with your colleagues
5. The Long Now
6. Security and privacy by default
7. You retain ultimate ownership and control



Martin Kleppmann

Adam Wiggins

Peter van Hardenberg

Mark McGranaghan

April 2019

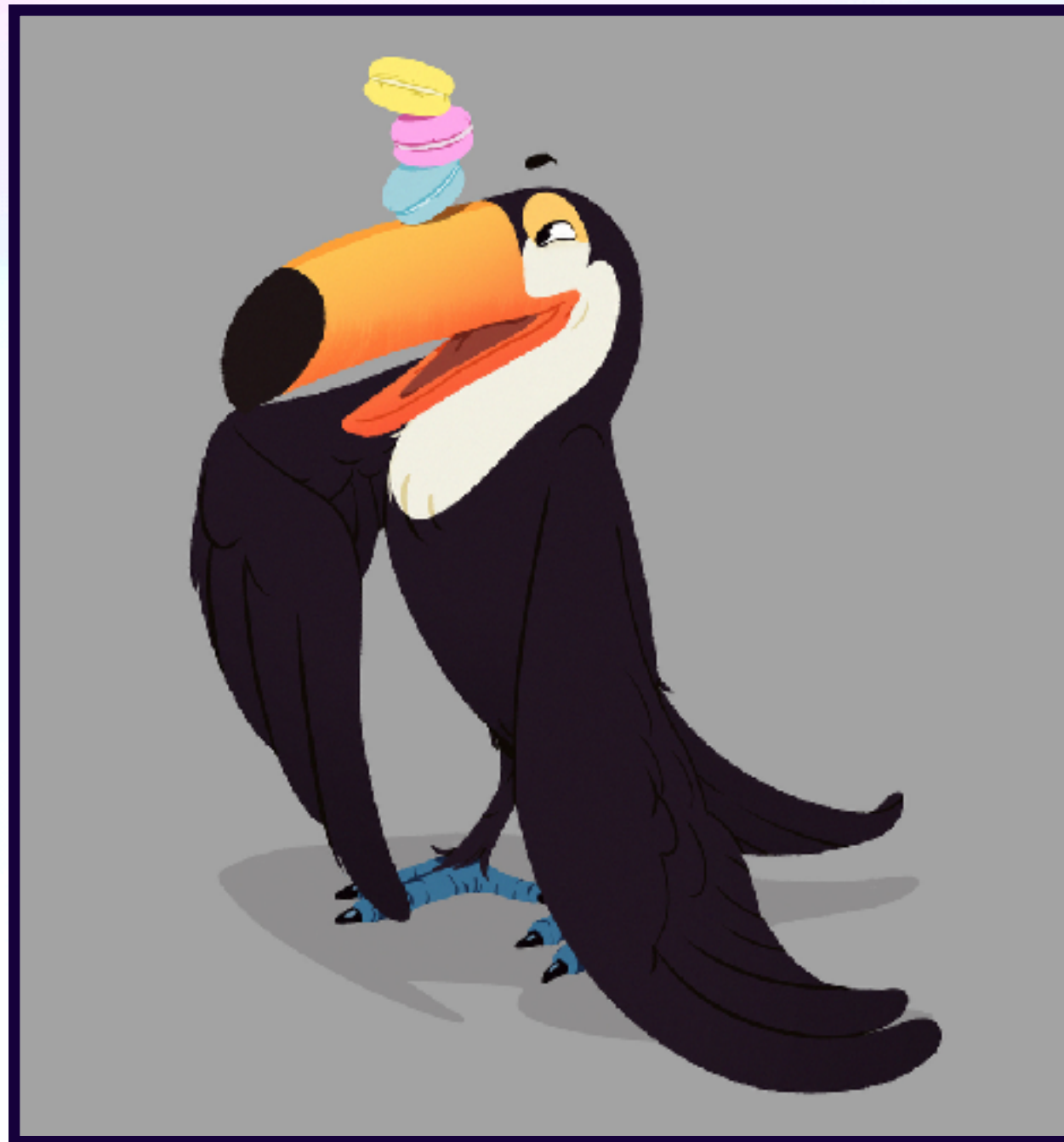




# Webnative

ALPHA

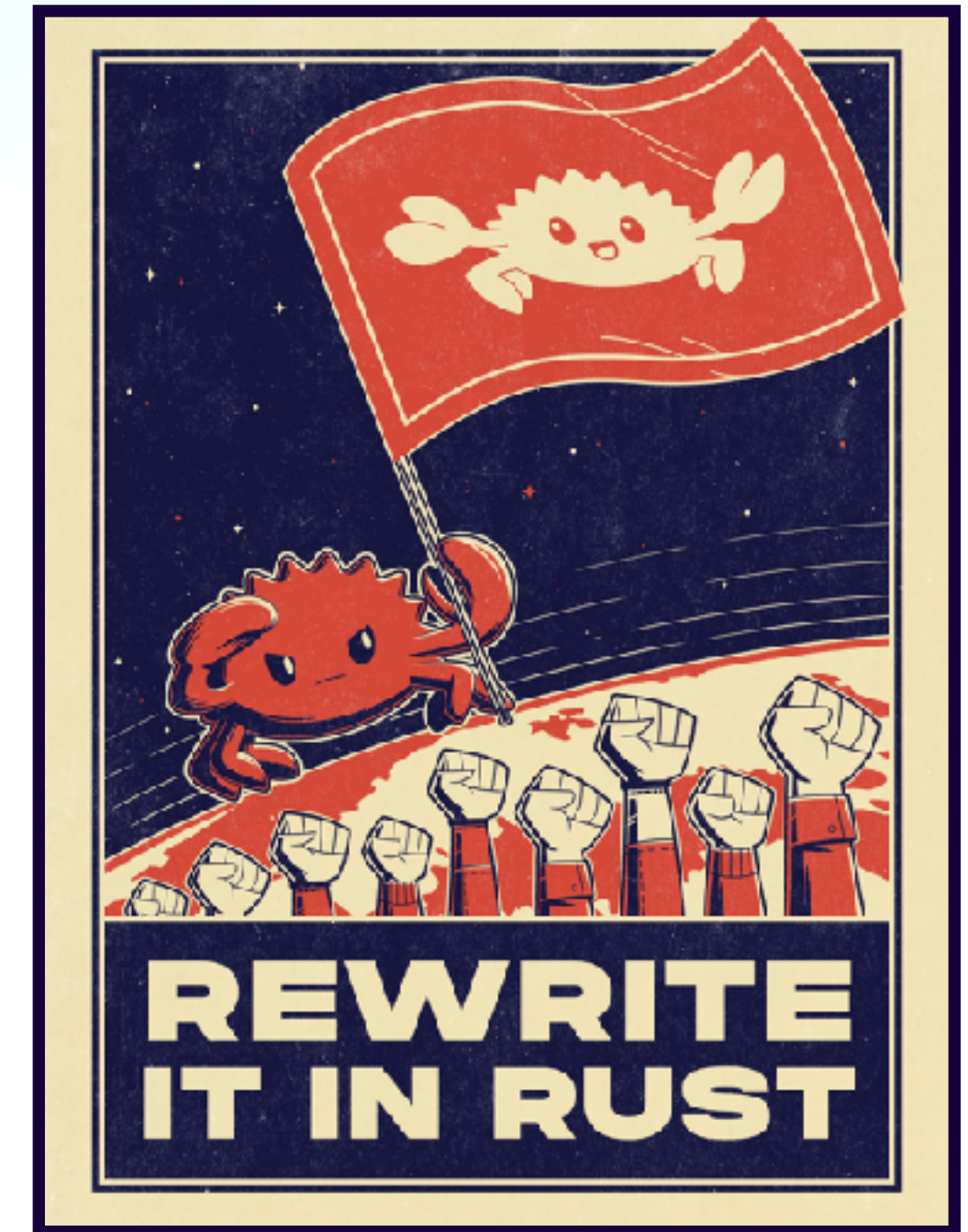
**A true local-first, edge computing stack**



**UCAN Sam**



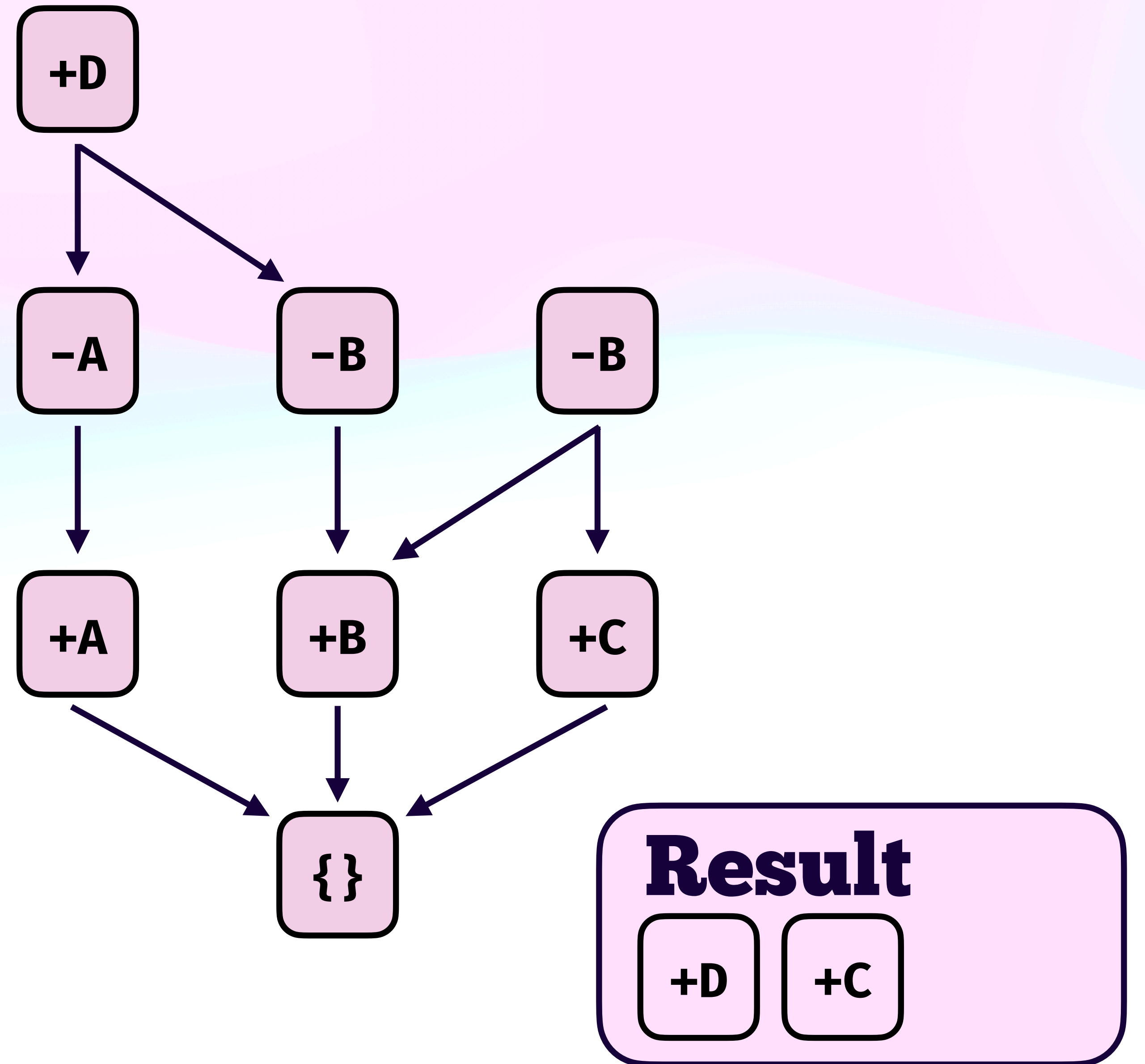
**Winnie, the WNFS Mascot**



**"Rewrite it in Rust"**



**Entity**  
**Attribute**  
**Value**  
**Causality**



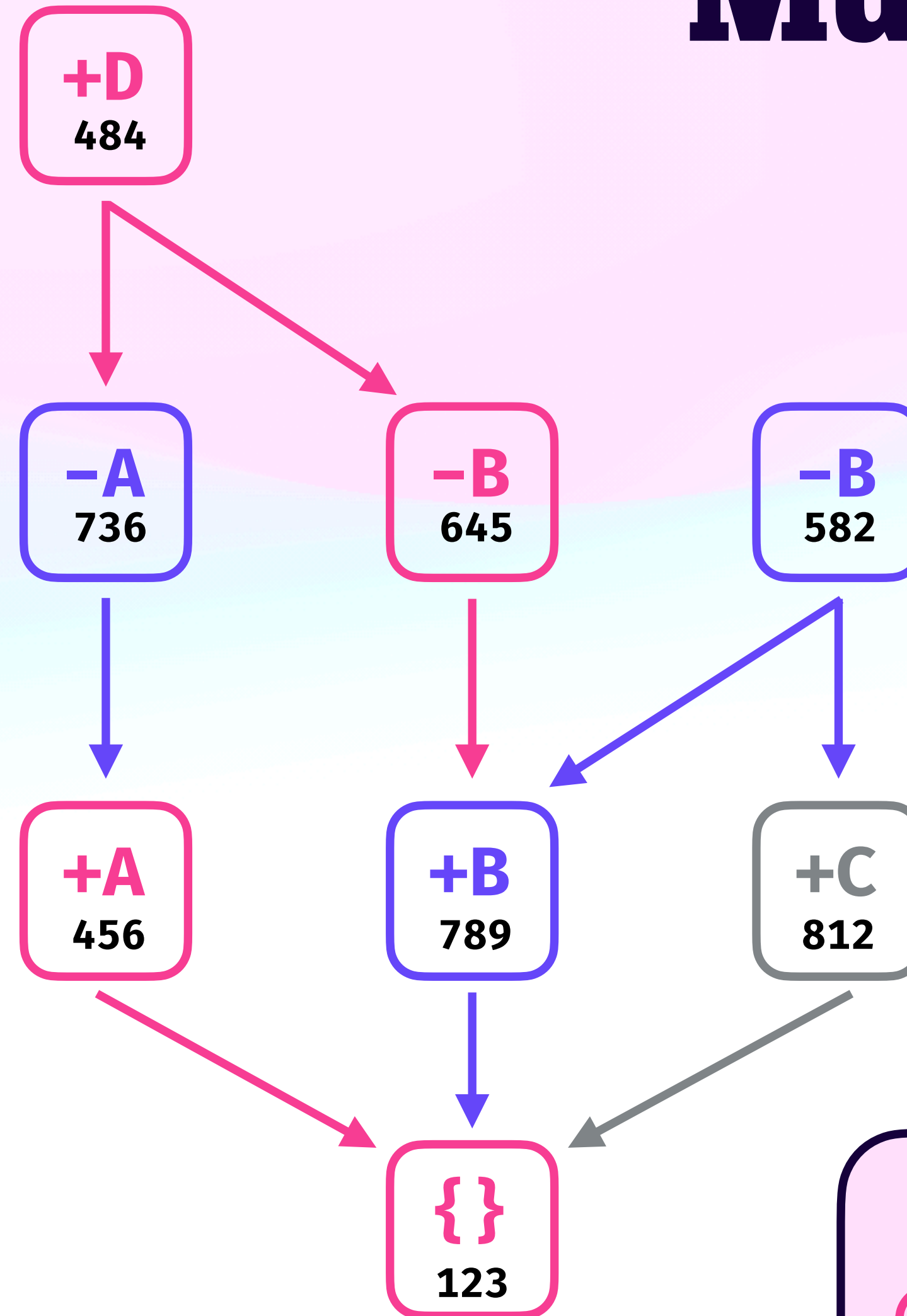


# Entity Attribute Value Causality

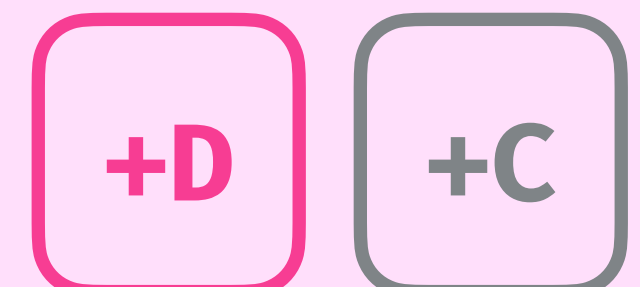
## Writers



# Multi-Writer



## Result



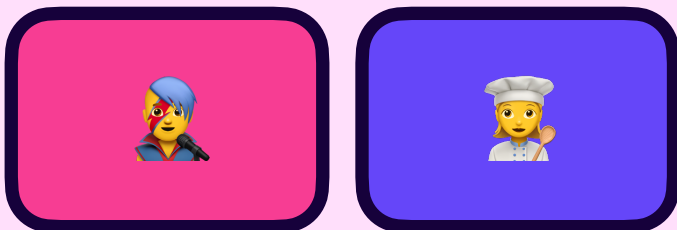


**Entity**  
**Attribute**  
**Value**  
**Causality**

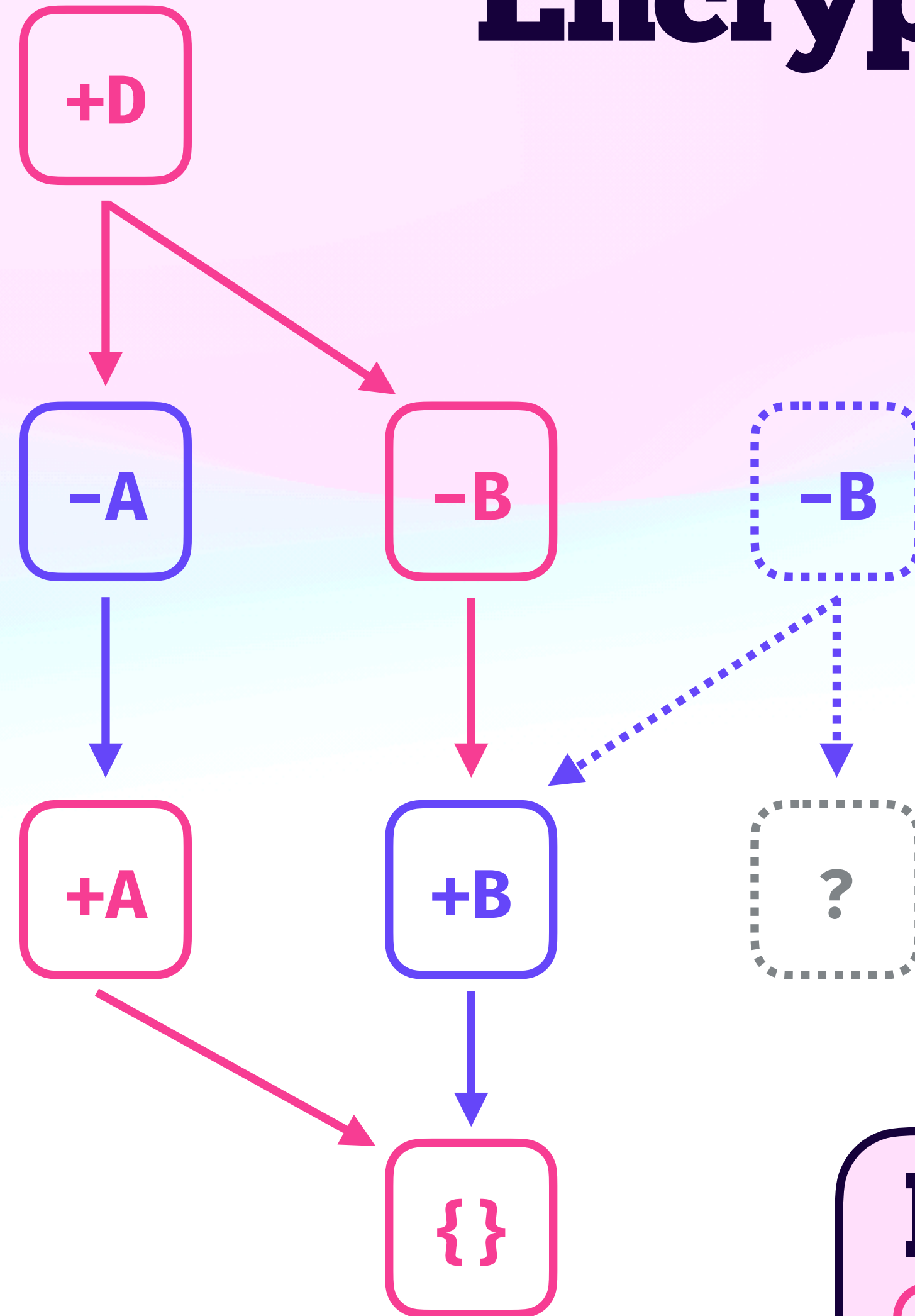
**Writers**



**Crypto Keys**



**Encrypted Data**



**Result**

+D



# Entity Attribute Value Causality

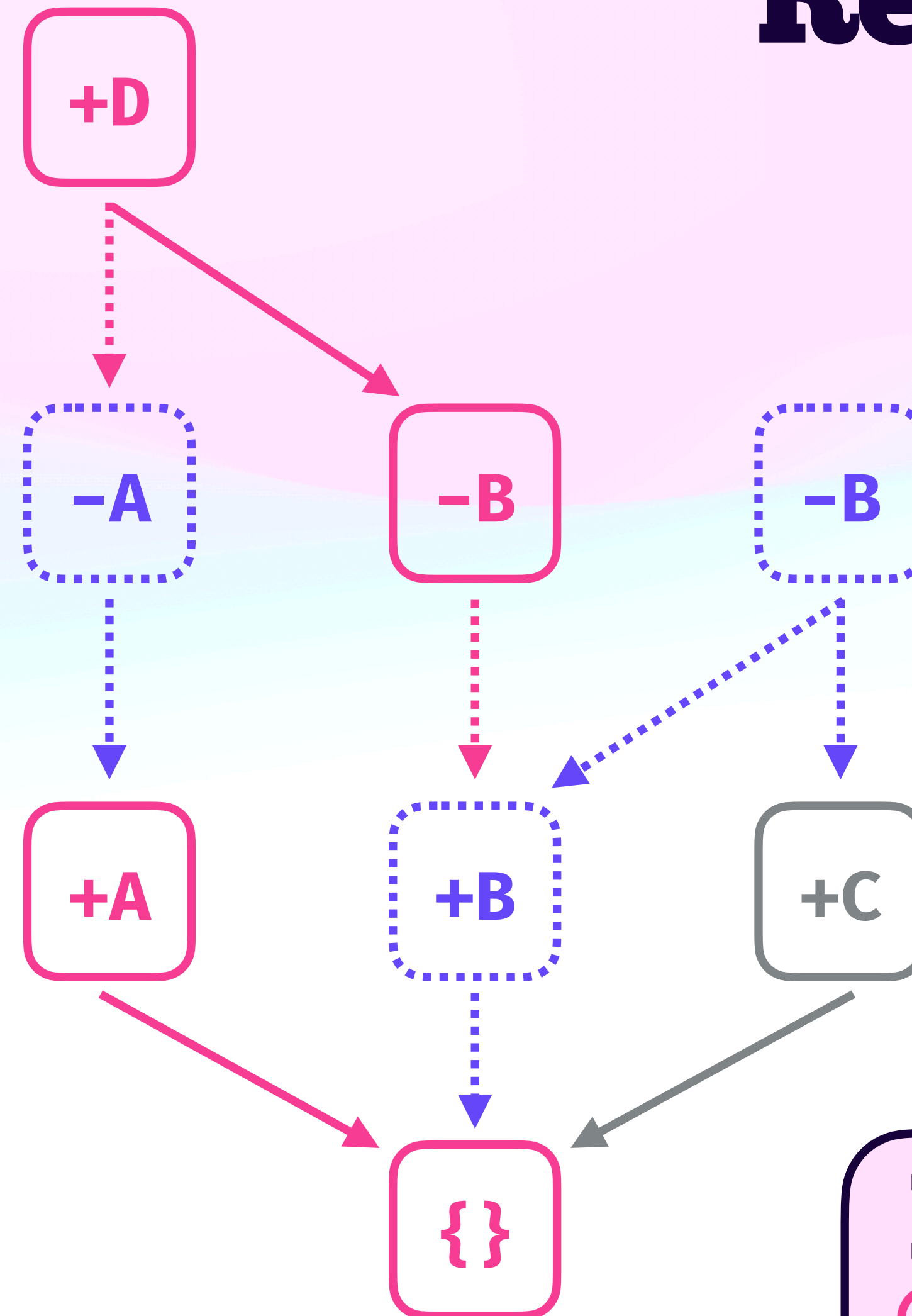
## Writers



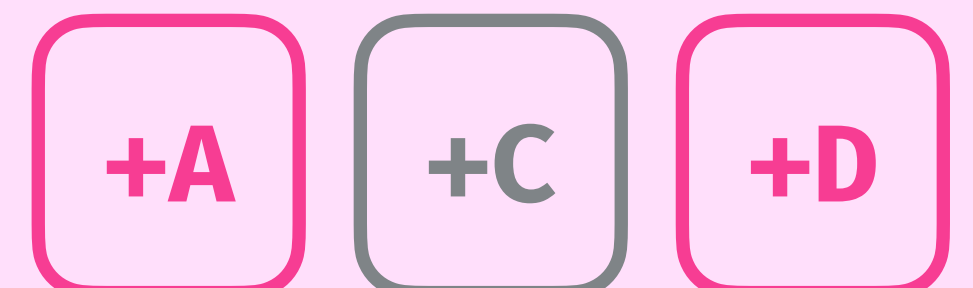
## Revoked



# Revocation



## Result



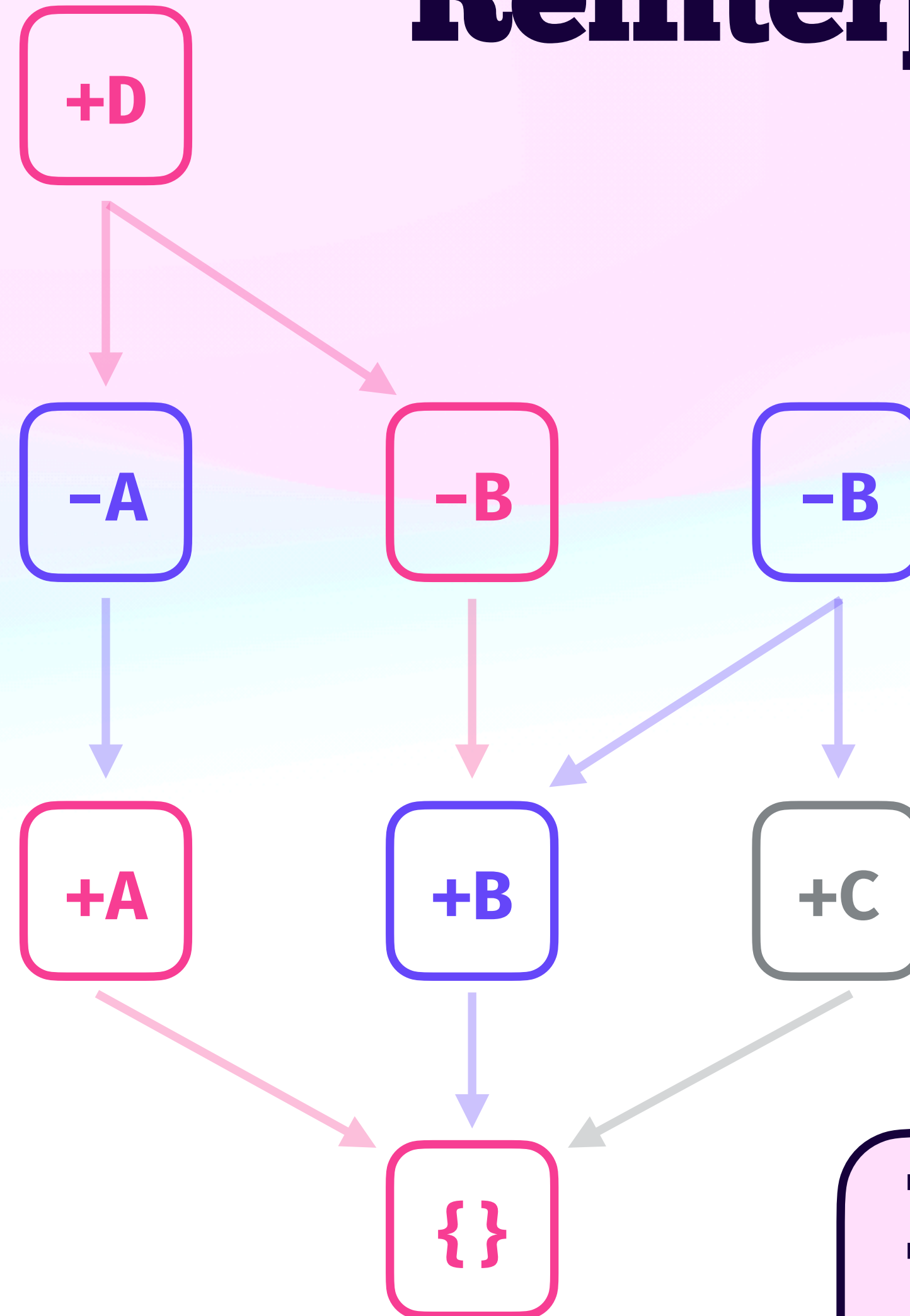


**Entity**  
**Attribute**  
**Value**  
**Causality**

**Writers**



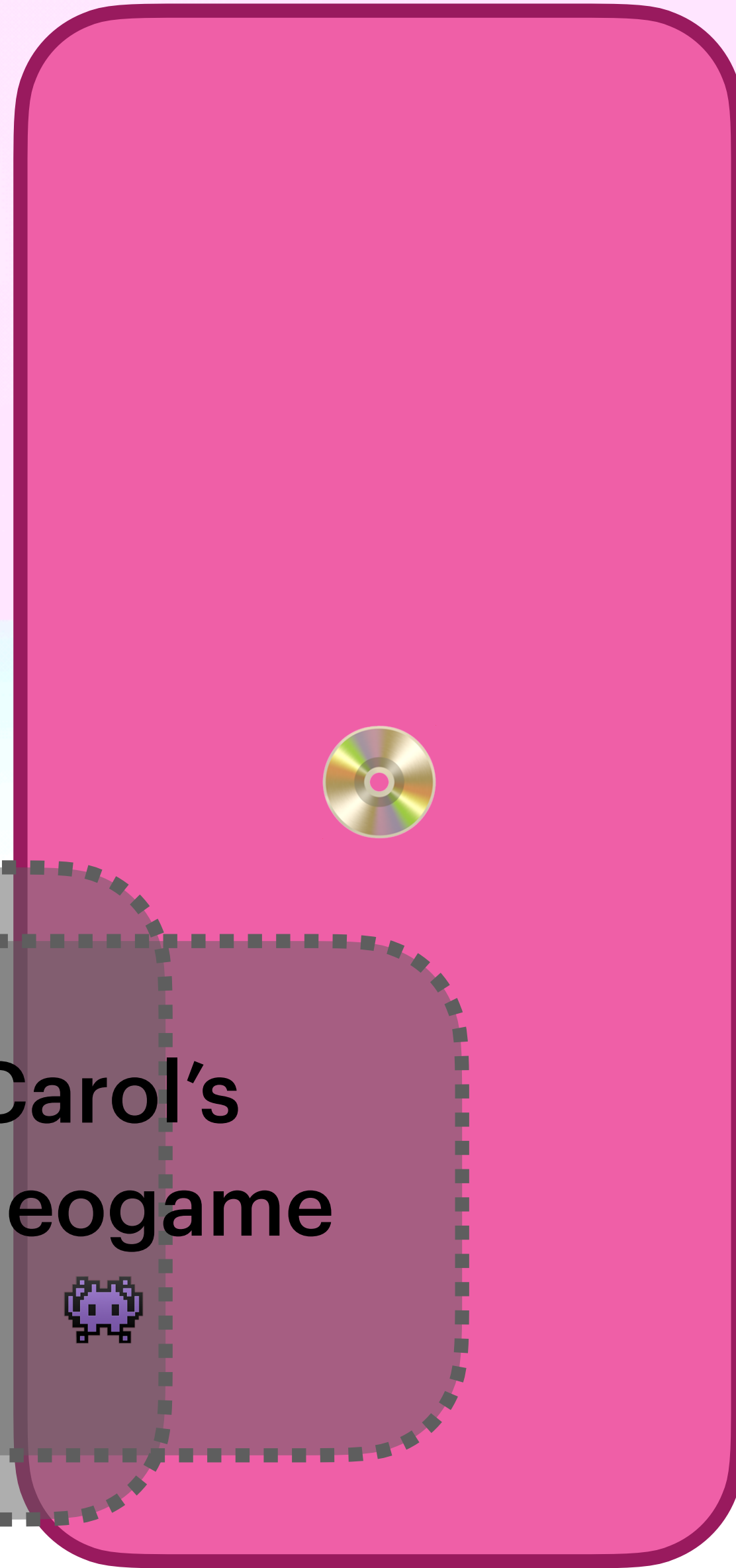
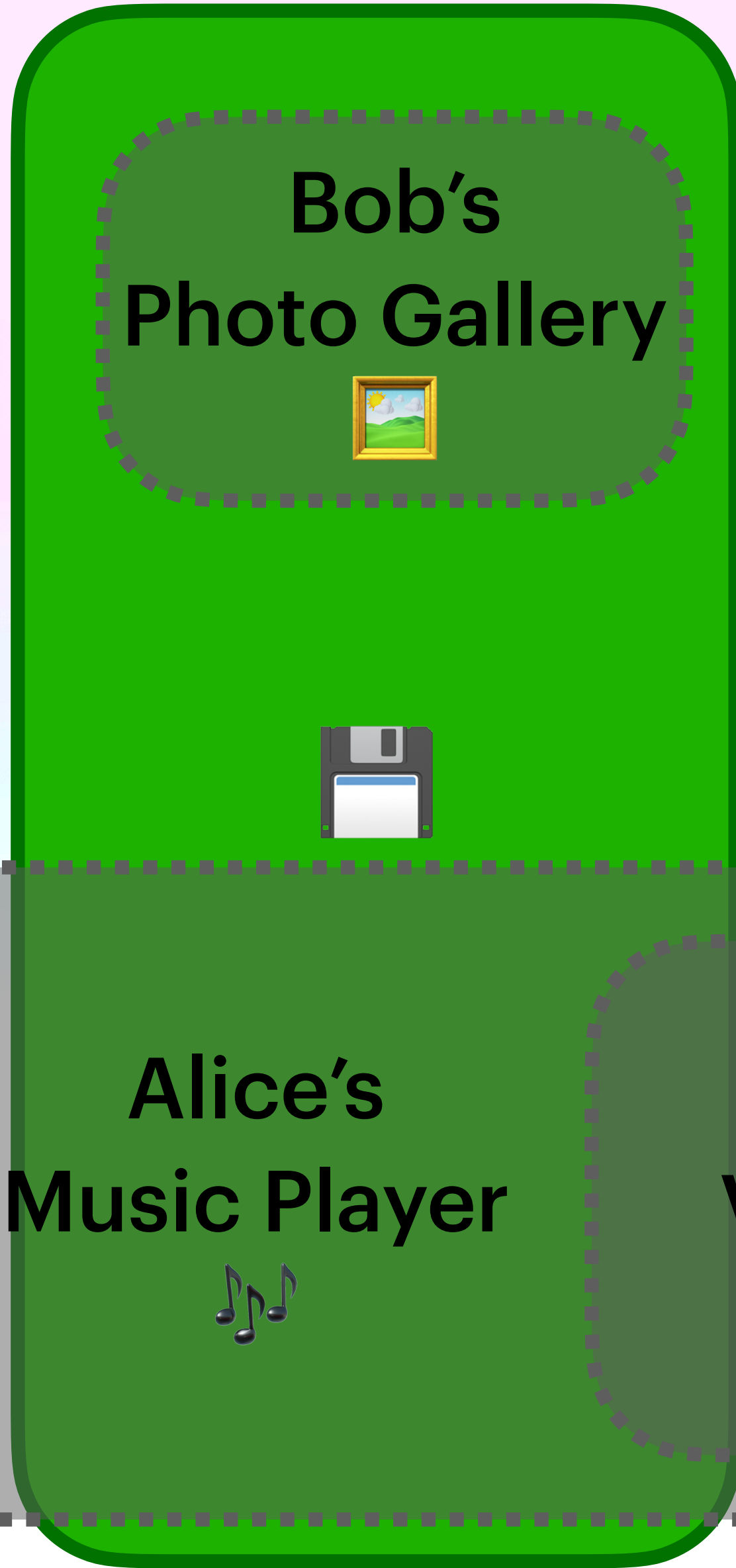
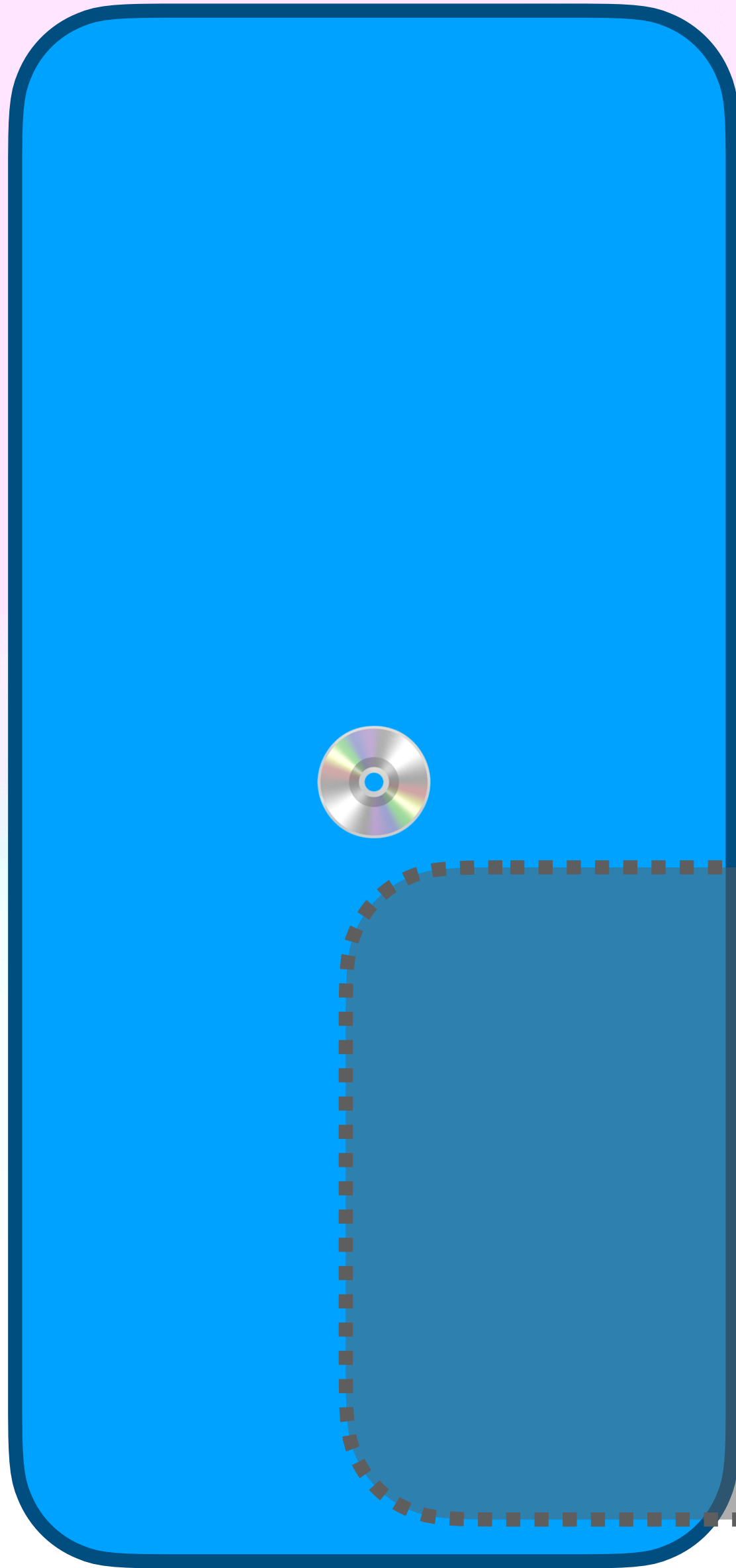
**Reinterpretation**



**Result**

**2**

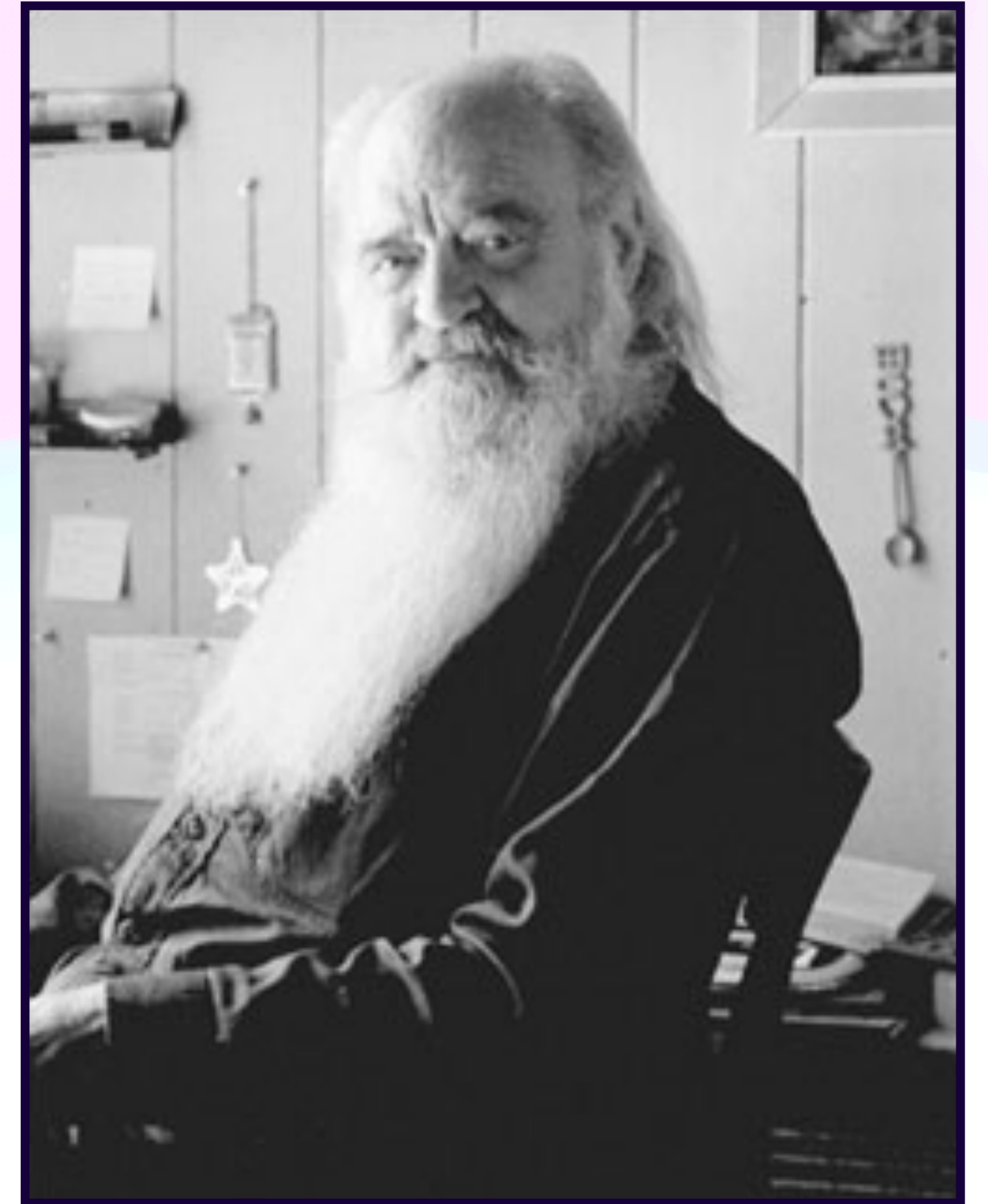




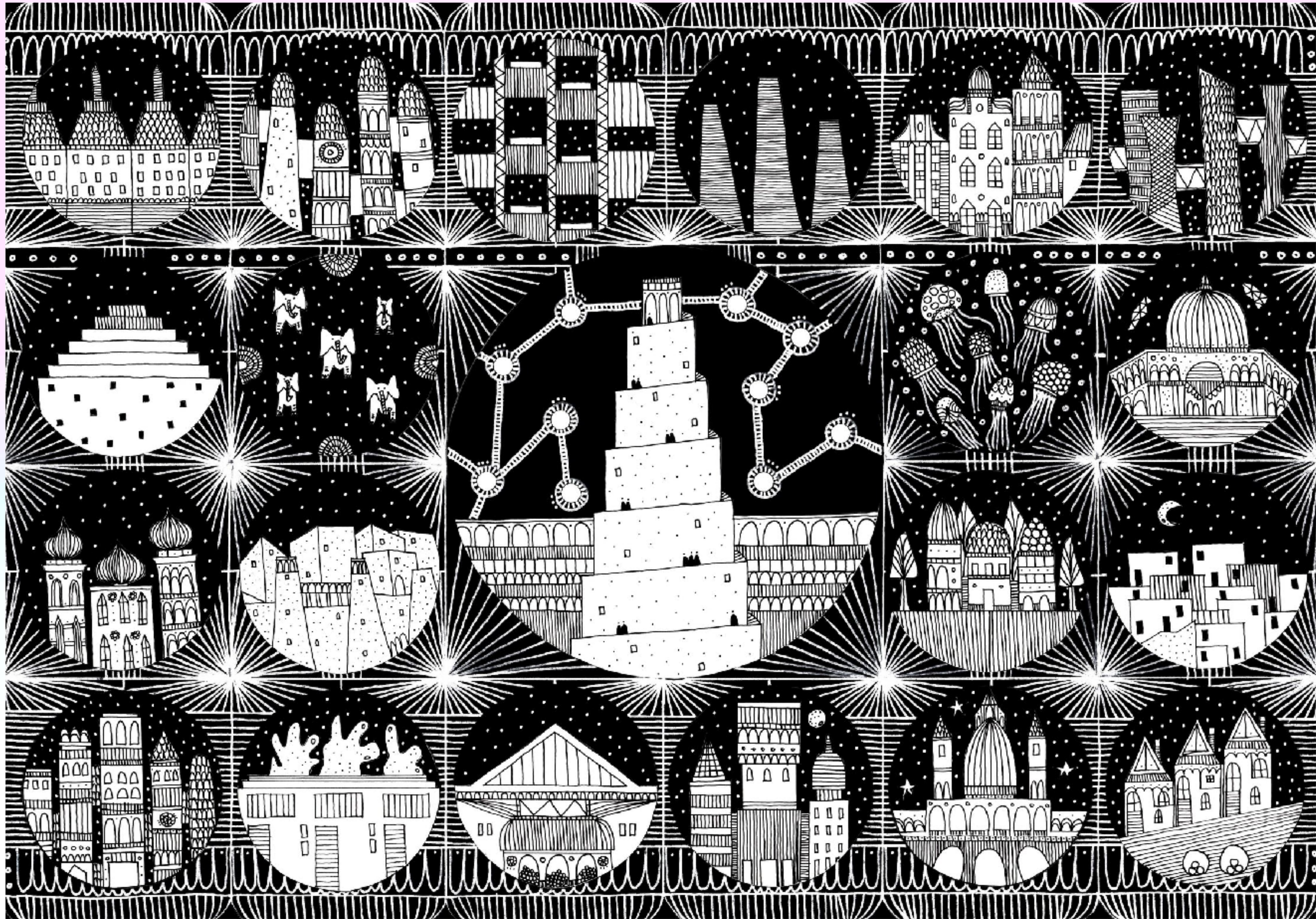


**Science is ... a world view in which real systems are annihilated in trying to understand them, in which relations are lost because they are not categorized, in which synthesis is relegated to poetry and mysticism ...**

**Stafford Beer, Preface to Autopoiesis: The Organization of the Living (1980)**







**Karina Puente, Fedora City (2017)**