

Dissolving the Redesign

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Not actually a management consultant
(it was a joke that stuck)

This talk concerns:

The Web

(more than apps)

Infrastructure

(more than product development)

Independents

(more than corporate/in-house)

I've been making things on the Web since 1995
(age 15-16)

I taught myself (roughly in sequence):

- Visual design
- Front-end dev.
- Back-end dev.
- Sysadmin
- DBA
- Data viz
- Information architecture
- Interaction design
- Content strategy

= ?



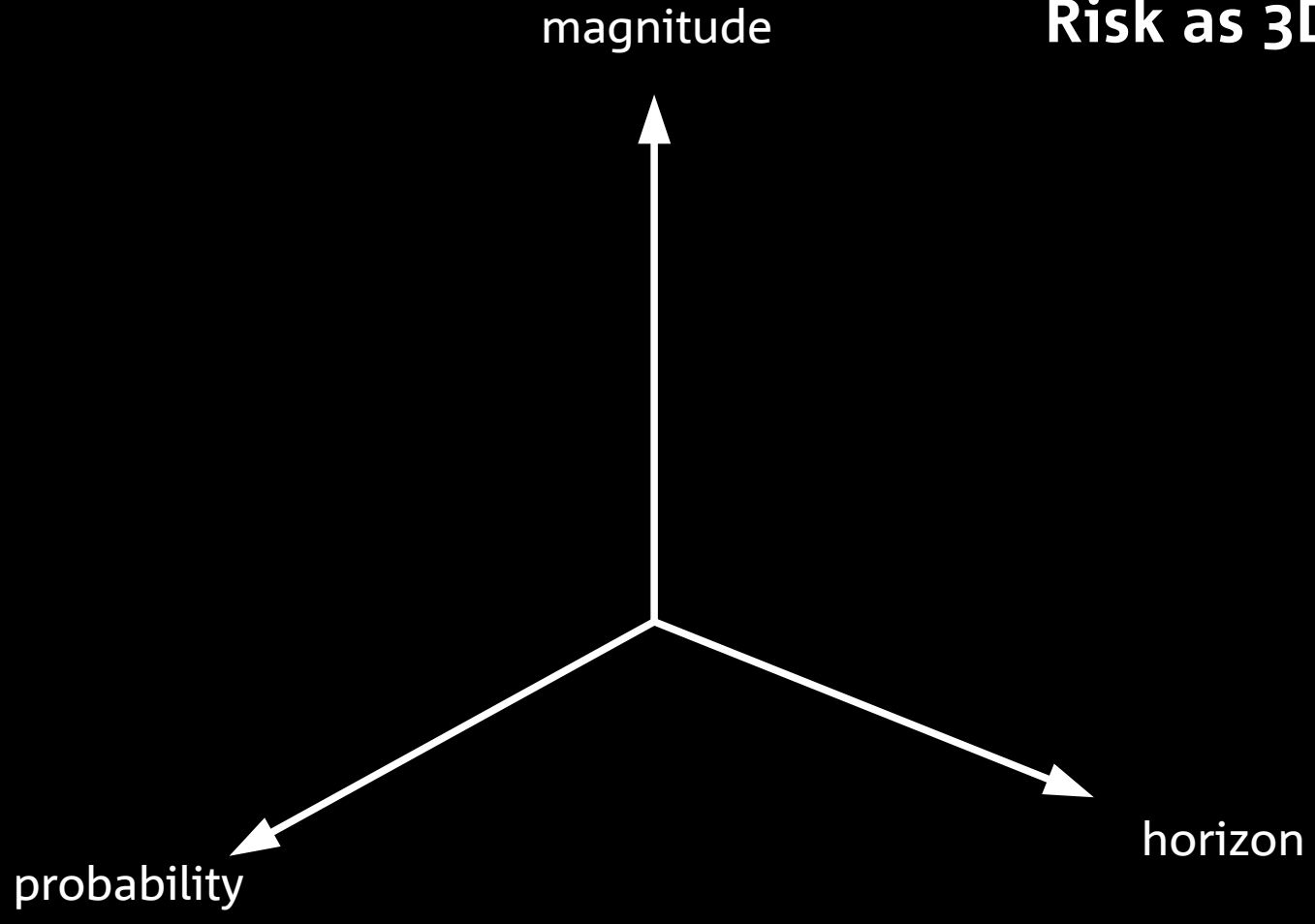
The Story & The Problem



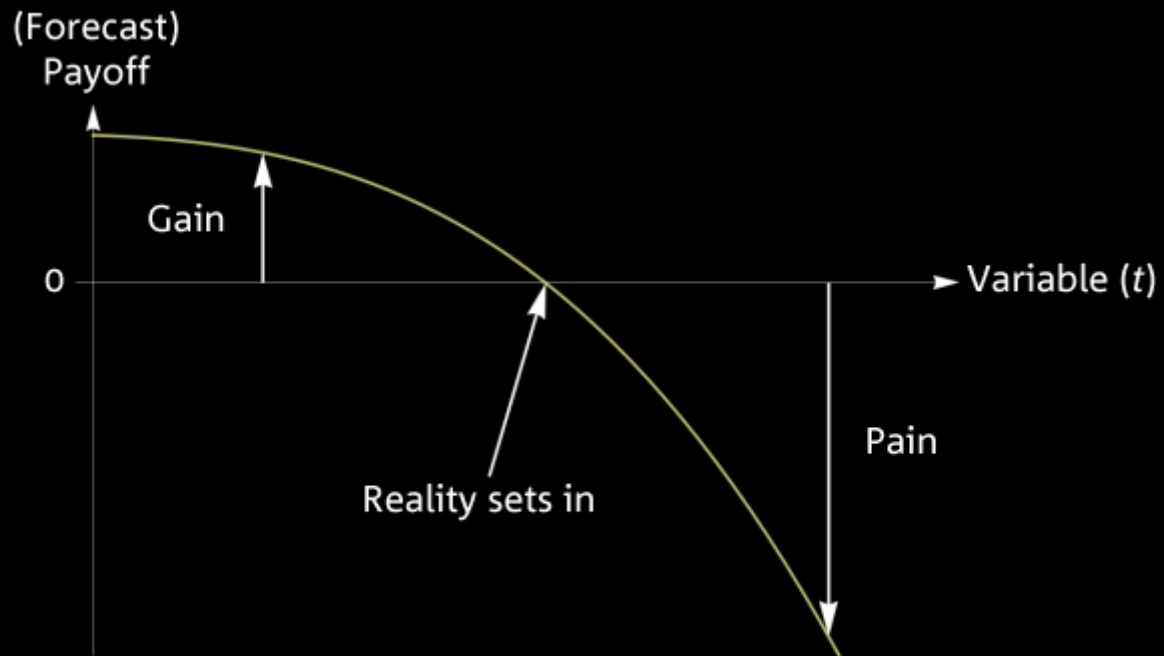
- 8 million business entities in Canada
- 28 million in the USA
- Most are not “tech”
- Most are too small
- But plenty are *big enough*

Risk, Fragility, and *Antifragility*

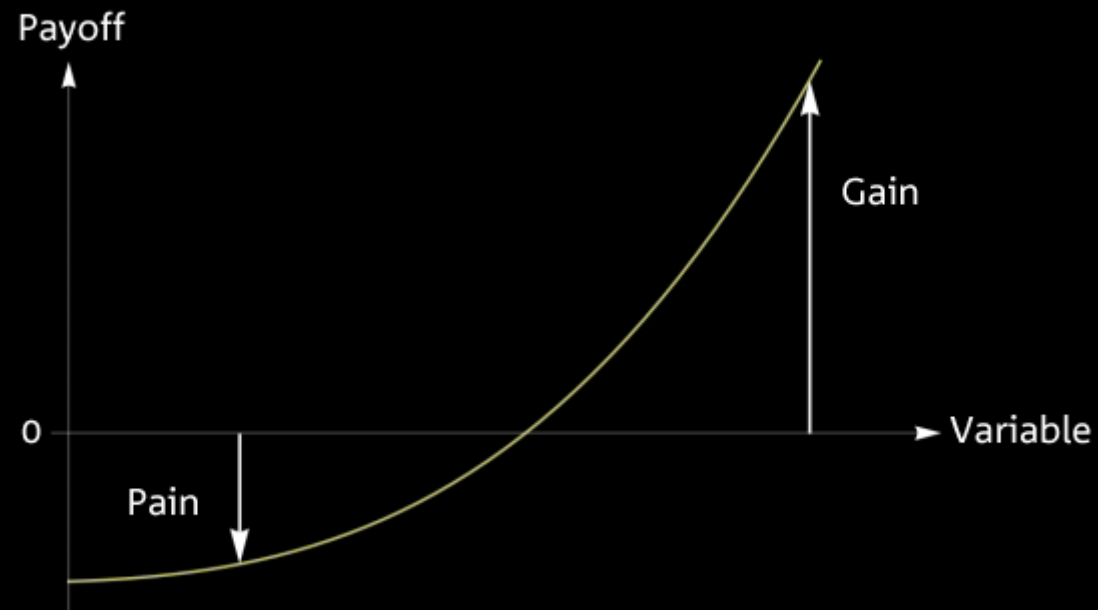
Risk as 3D Space

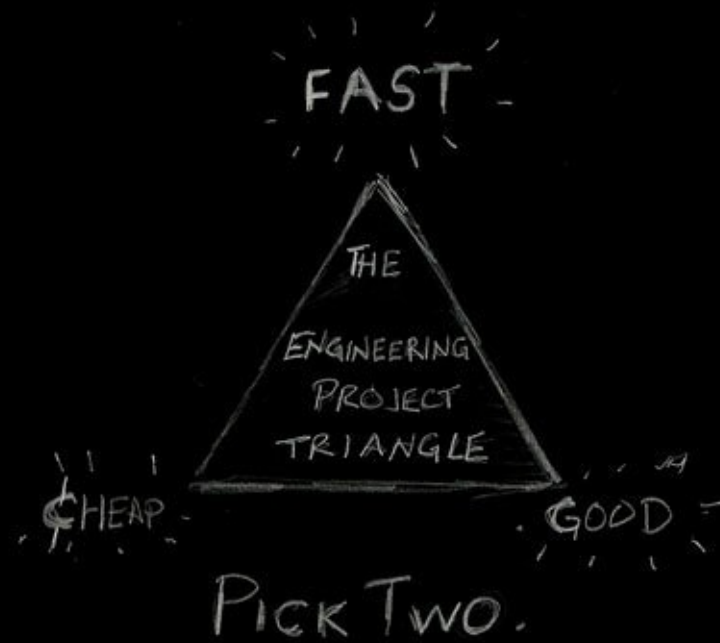


This process is *fragile*.



Antifragile *likes* surprises.



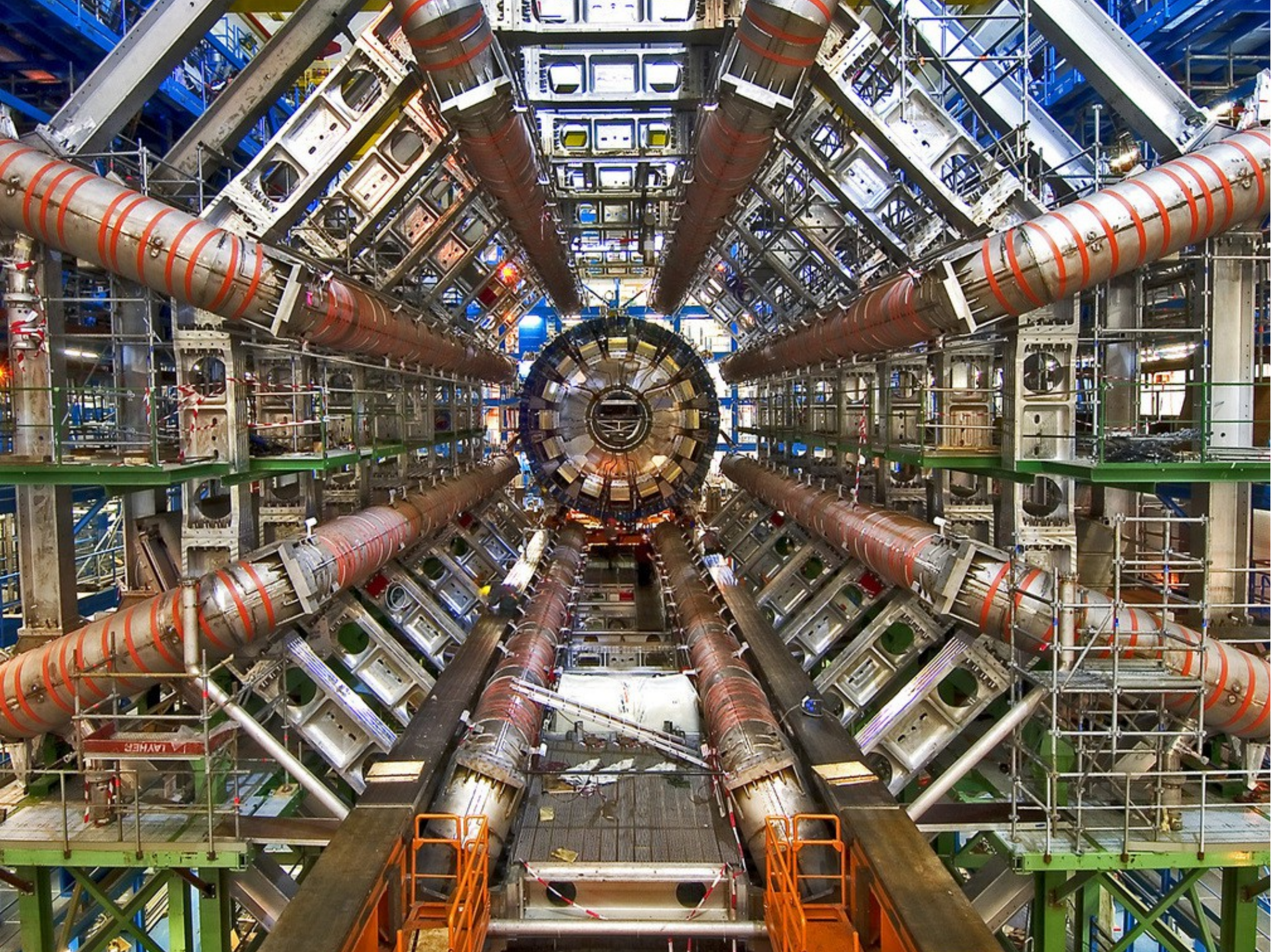


- Gather information
- Concentrate it into a set of design decisions
- Represent it...

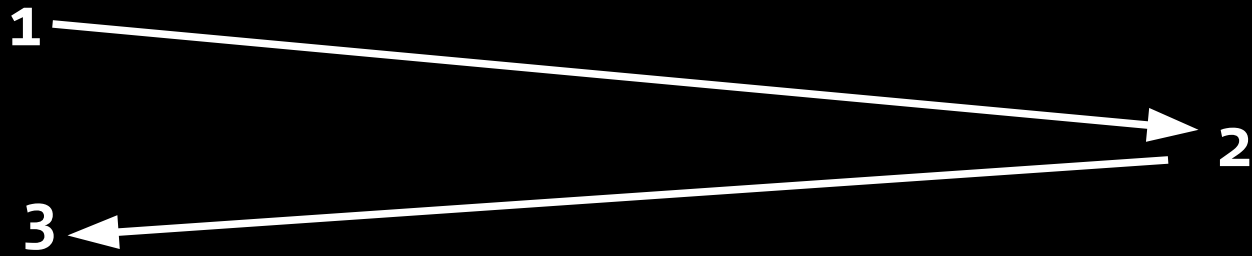
...so that it is:

- Accurate to the shared goals of the business
(and its users)
- Comprehensible to implementers
- *Plausible to everybody.*

A Phenomenology of Information

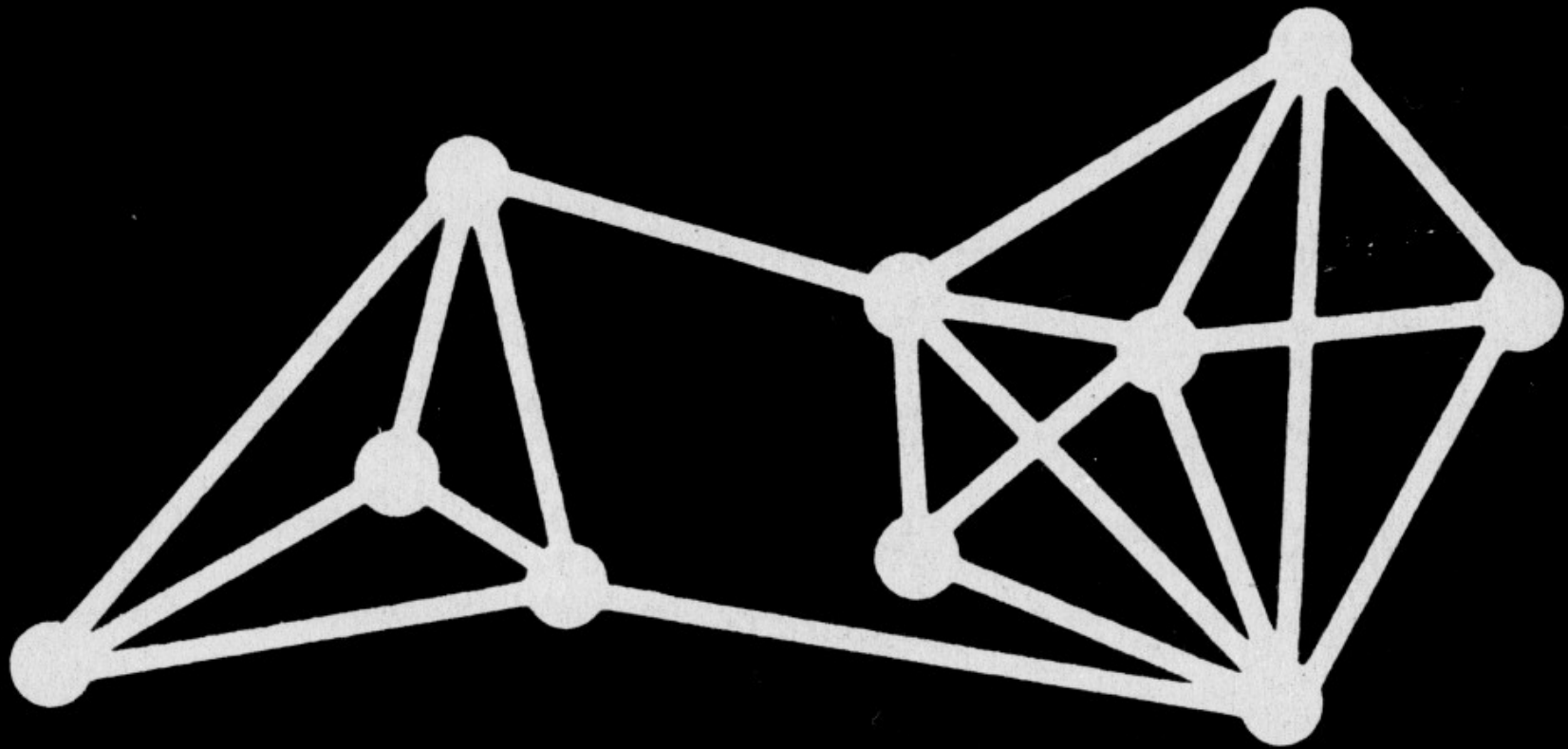


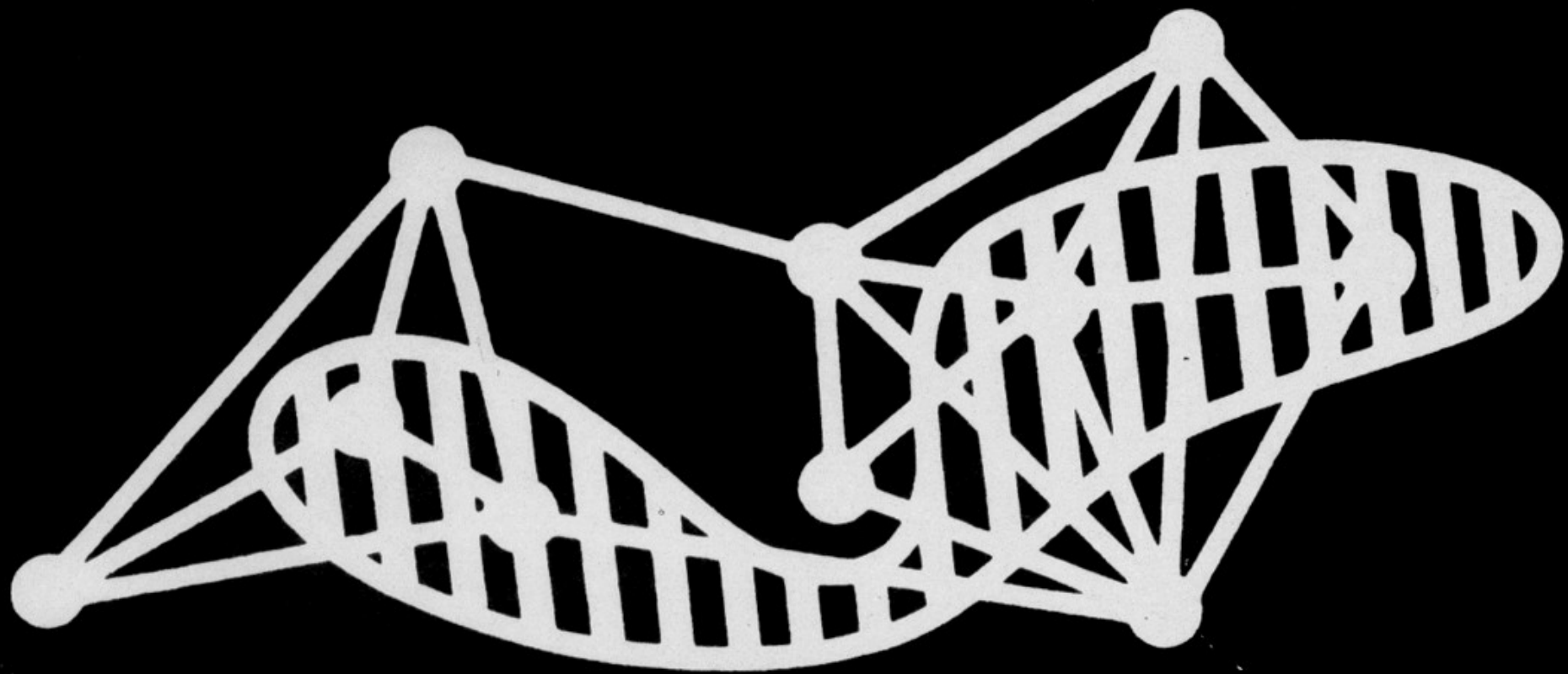
Information Seeking as Scavenger Hunt

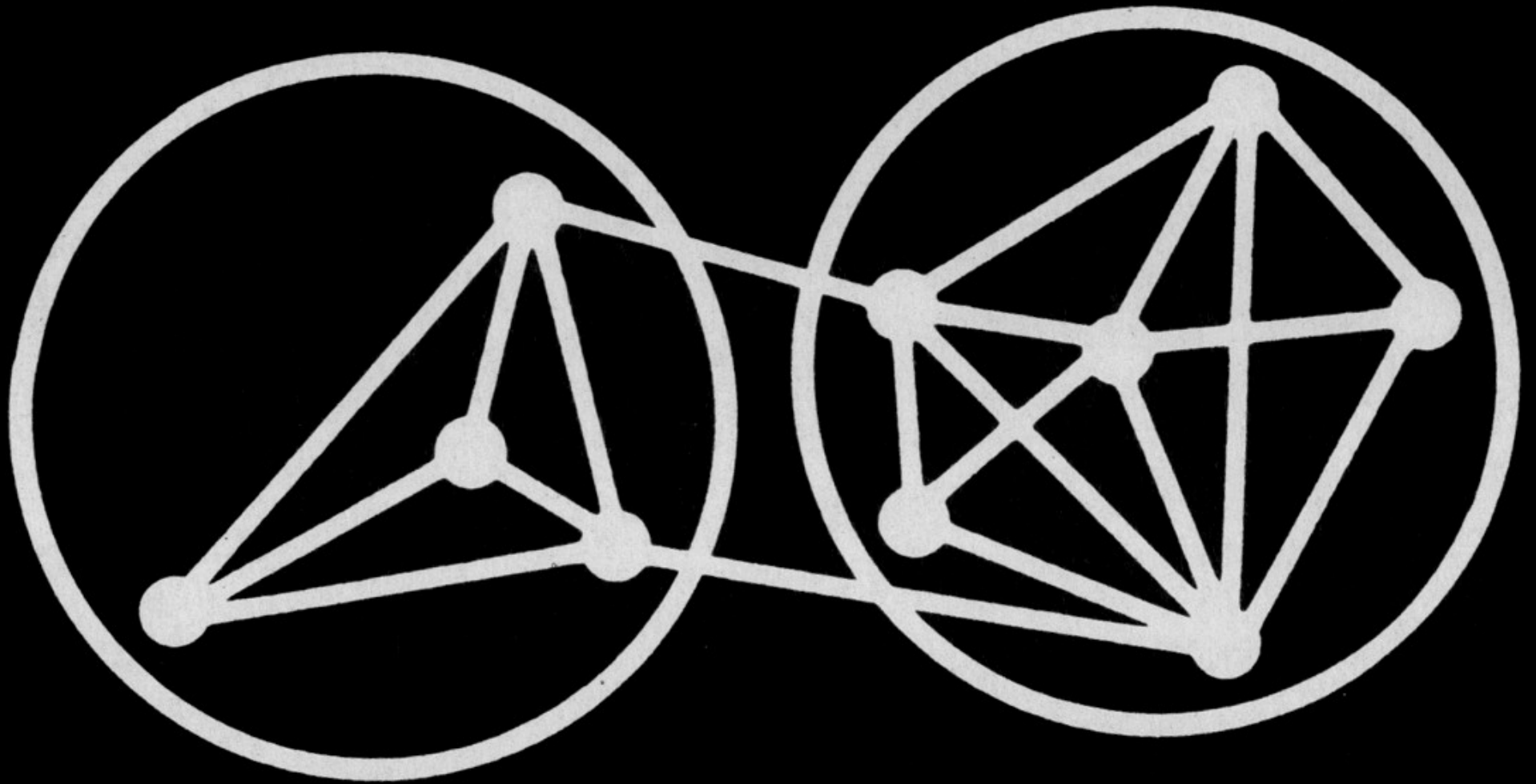


Information Seeking as Scavenger Hunt

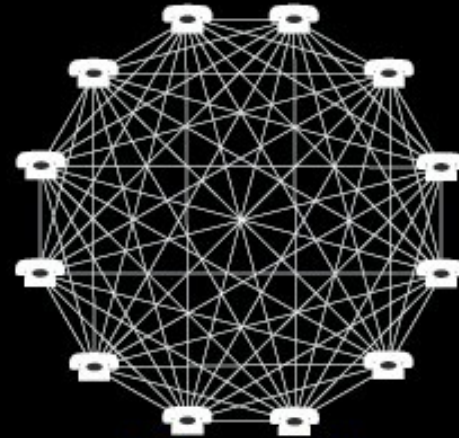
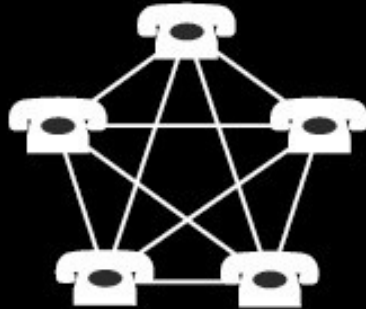






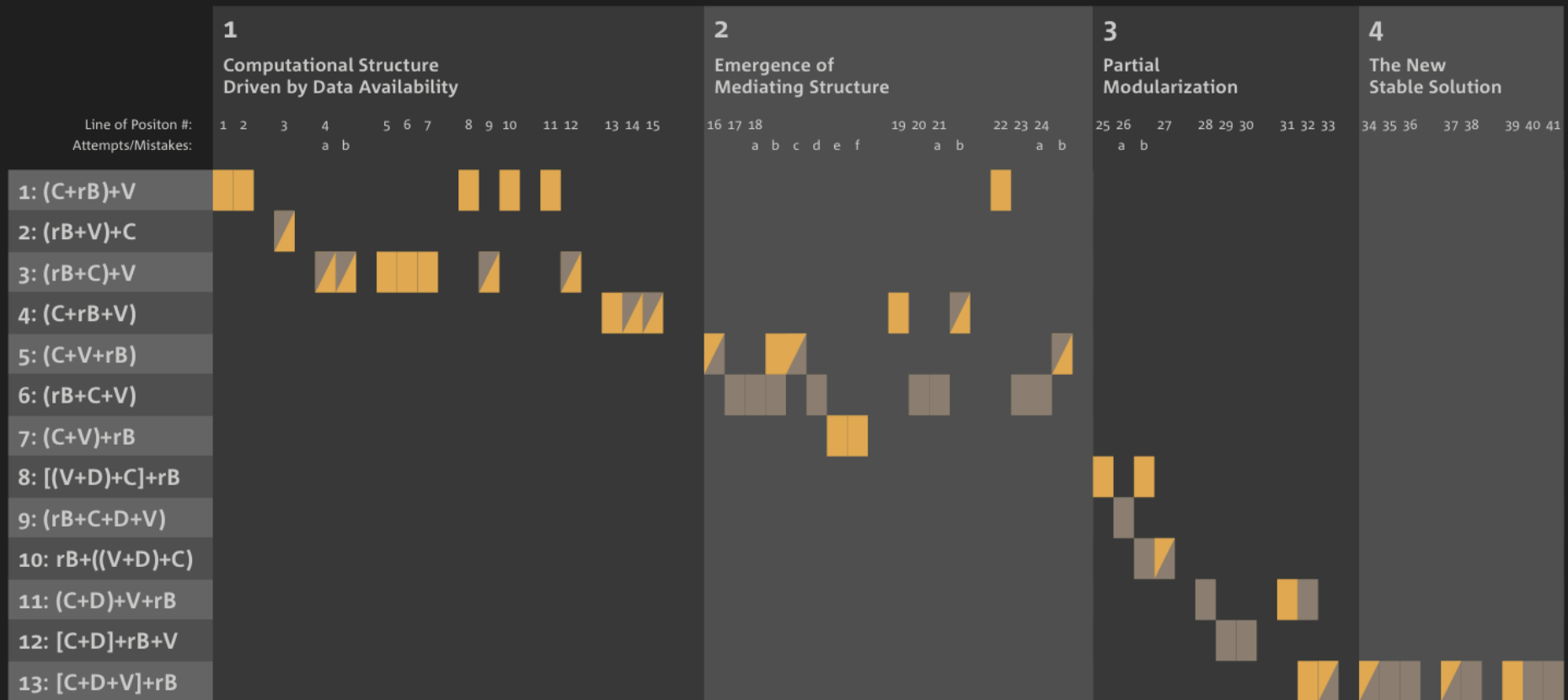


$$(N^2 - N) / 2 =$$





Dividing Labour Under Pressure: *Cognition in the Wild*, Chapter 8



The *USS Palau** has lost power and is careening out of control into San Diego harbour. The engine failure has knocked out the gyrocompass, the principal tool of the navigation team. The team must fix the position of the ship every minute to keep it out of danger, using three intersecting lines of position (indexed by the horizontal numbers above) from bearings taken from landmarks on the shore, and reconciled with the backup magnetic compass.

The problem these sailors have to solve is one of simple modulo arithmetic, adding and subtracting degrees of a circle (left column). The plotter (in charge) and the bearing recorder (receiving the readings) are under pressure to negotiate the best way to split the task of adding the numbers, and in what order, to fix sets of three lines of position onto the navigational chart. It takes them 32 tries.

This riveting example shows just how hard it is to divide even a simple, well-defined task.

(*Fictional name ascribed to a real amphibious warfare vessel, basically a small aircraft carrier.)

- rB: Relative bearing
- C: Magnetic compass heading
- V: Variation (from true North)
- D: Deviation (compass error)
- (): Use of calculator
- []: Spoken as intermediate sum
- Computation led by the plotter
- Computation led by the bearing recorder
- Started by plotter, finished by recorder
- Started by recorder, finished by plotter

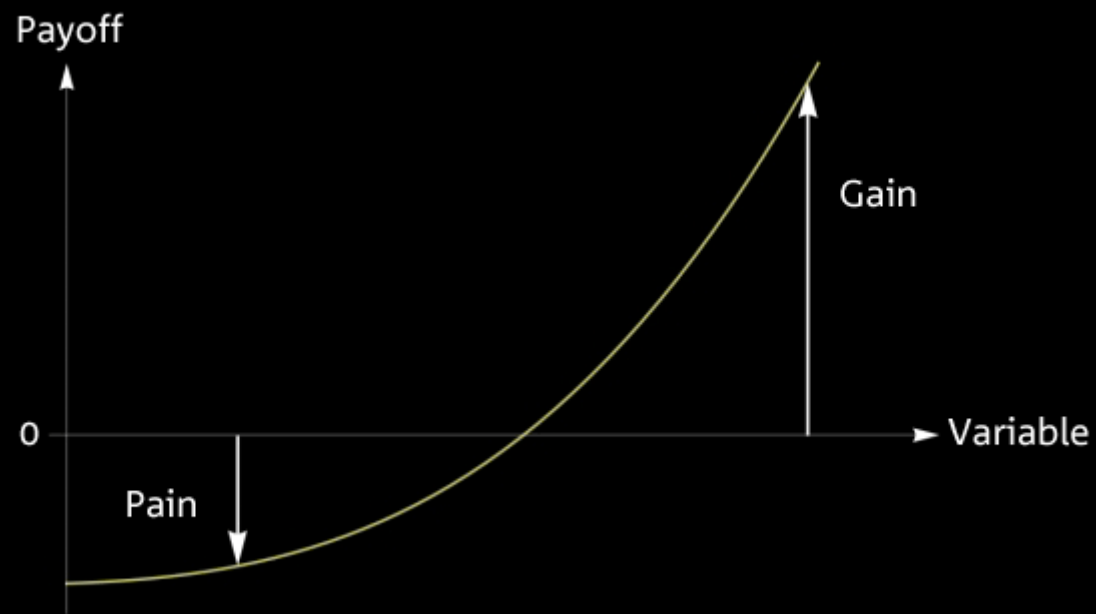
The User Goal as Basic Unit

A Grading System for User Goals

- **Polarity**
(cost-saving or revenue-generating?)
- **Entailments**
(what will you have to do to make it happen?)
- **Asset value of entailments**
(what else can they be used for?)

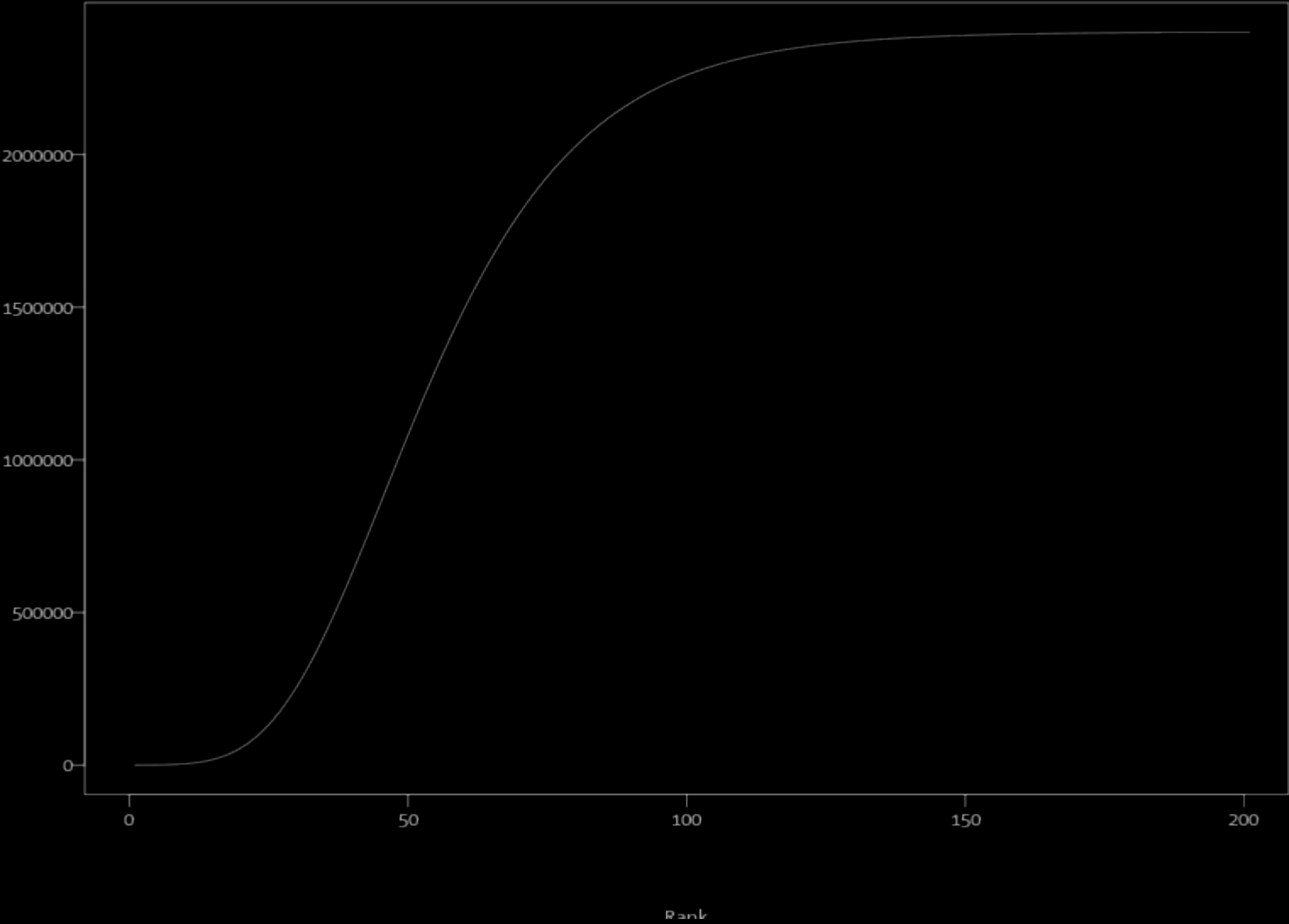


PICK THREE.

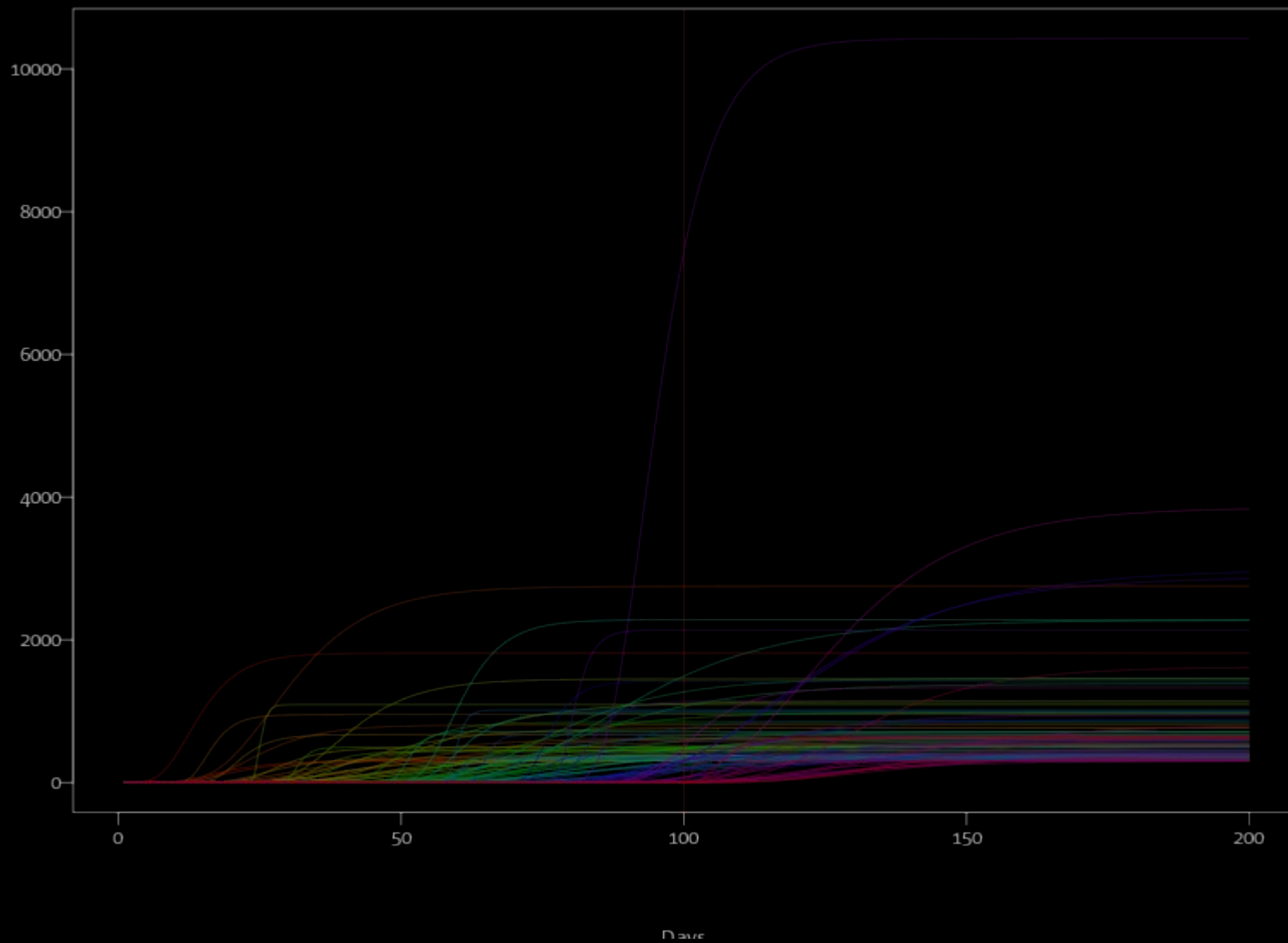


The ROI of a Solved Problem

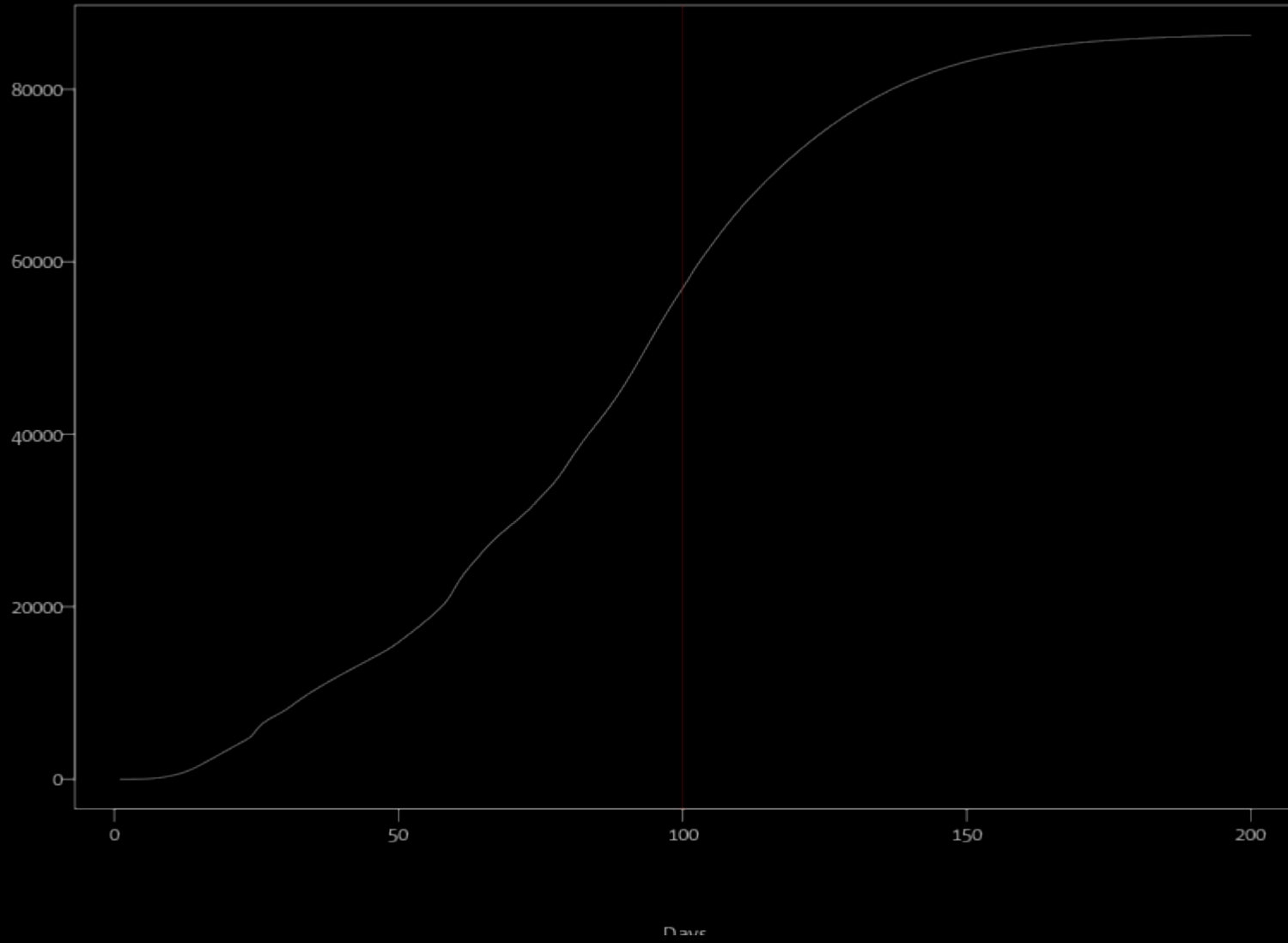
A Sigmoid (Gompertz) Function



Individual Values of Created Information Artifacts

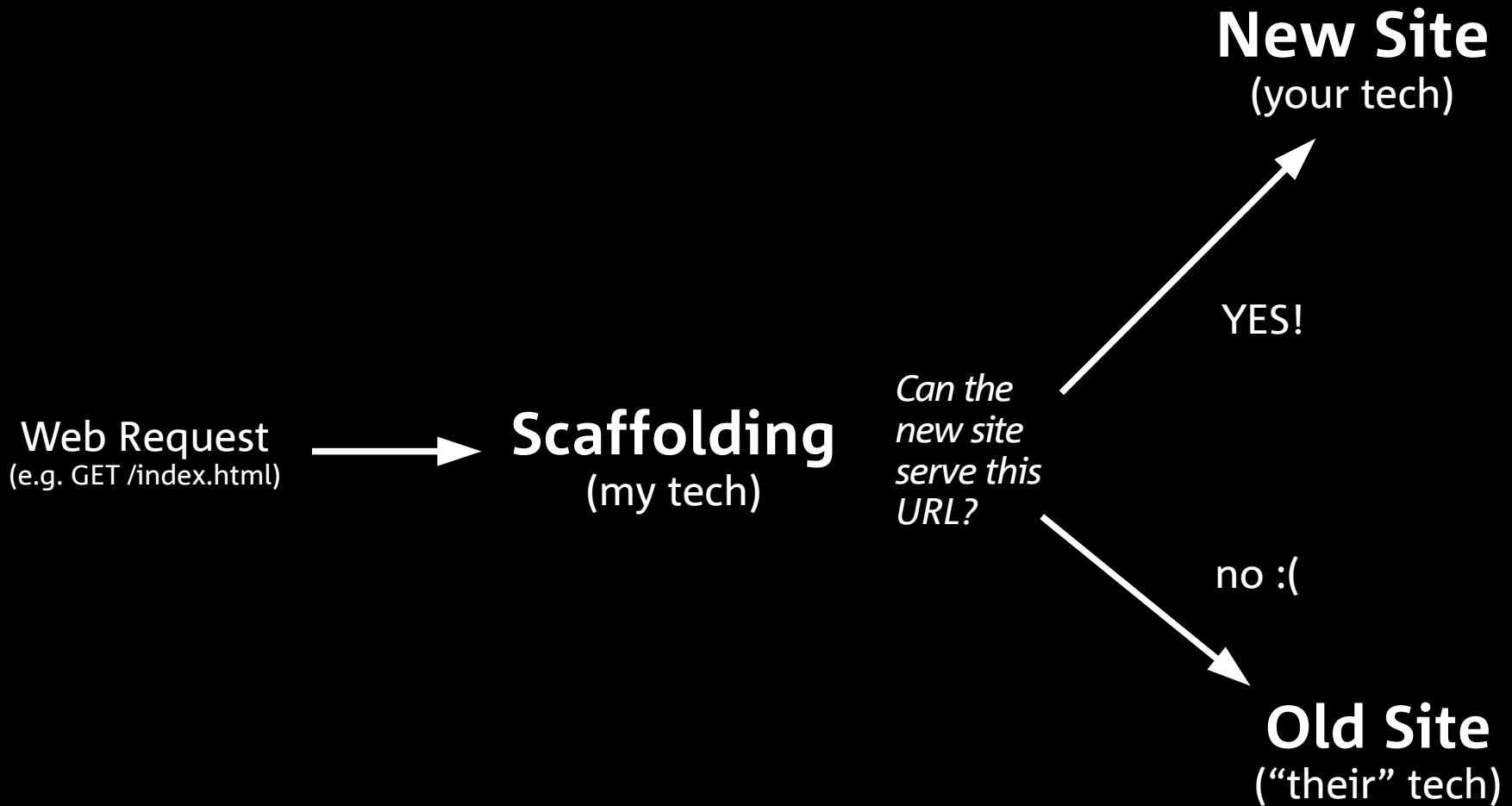


Cumulative Value of Created Information Artifacts



Scaffolding

How the Scaffolding Works:



- Requested URLs are tested on the fly
- Scaffolding runs *beneath* the application layer, meaning you can use *any* tech stack

**Incremental development is
fundamentally a *business problem***

**To solve it, we need to understand the
reality of our medium: *information***

**The *user goal* is an appropriate unit for
*business as well as process***

Sell UX like it's an asset in its own right

**Our tools should *reflect* how we want to
work, not the other way around.**

Thank you!

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