



FRUST GRAPH

CRYPTOGRAPHICALLY
SIGNED CLAIMS FOR
RATINGS AND
REPUTATION



HARLAN T WOOD

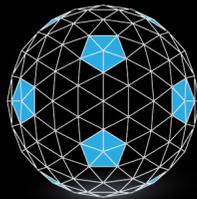
 CTO / CORE.NETWORK



COMAKERY
COFOUNDER & CTO



TRUST GRAPH
ARCHITECT / OPEN SOURCE



NODESPHERE
ARCHITECT / OPEN SOURCE



FORGE
PRINCIPAL ARCHITECT
SF FINTECH



SHARESPOST
PRINCIPAL ARCHITECT
SF FINTECH



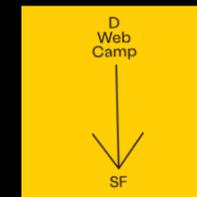
ZOZI
DIR ENGINEERING
SF STARTUP



UPLIFT 2014
FEATURED SPEAKER:
NODESPHERE



DECENTRALIZED WEB
SUMMIT 2016
SPEAKER: NODESPHERE



DWEB CAMP 2019
SPEAKER: TRUST GRAPH

SEEDS OF THE VISION

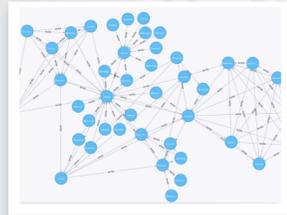
enlightened structure

2011

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Trust Exchange

Posted by Harlan | 1 comment



Superseding the Scarcity Economy

The Trust Exchange utilizes the network of human trust relationships that already exist, making them visible, interlinked and actionable. Most of our decisions are based on collective opinions and discernment, particularly those of friends we trust.

The Trust exchange brings visibility to your friends' ratings of products, companies, websites, and more. In turn, you can rate your trust level of a friend or information source in any category, where categories are simply user-created tags. One friend you may trust for their computer knowledge, and another for their culinary capacity.

The Trust Exchange amalgamates existing ratings from any source, feeding them into an open platform. Instead of owning your ratings and trust information, like existing online networks and organizations, the Trust Exchange is an open platform for humanity to exchange its trust information. Individuals can choose whether to make ratings publicly available, or share them privately with trusted friends.

The purpose of the Trust Exchange is to support and facilitate the era of transparency that is emerging. Anyone doing research on a purchase can tap into the publicly available ratings of relevant companies, to help them choose a product or supplier aligned with their own values. Corporations, too, can become model citizens, when social capital is tied closely enough to revenue. The engine of capitalism then becomes an engine for systemic self-improvement.

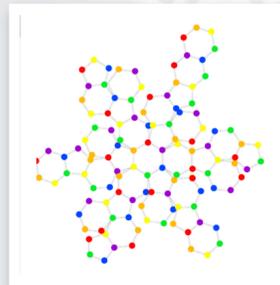
Solutions to our Biggest Issues

Corporations tend to pursue profit, often disregarding the good of the communities and the planet. There is a

[Home](#) » [Featured](#) » [WikiNodes](#)

WikiNodes

Posted by jack | 0 comments



Massively Parallel Creative Collaboration

Wikis have revolutionized textual information sharing. Documents created by harnessing collective collaboration far outperform previous modes of knowledge aggregation. Wikipedia has demonstrated the incredible effectiveness of this approach.

Just as open source has changed the face of software, and wikis have changed the arena of knowledge sharing, so too is a revolution brewing as creative collaboration becomes possible across all forms of media. WikiNodes is designed to create a

boundless and self-evolving container for collective intelligence to congregate around any type of project, while retaining the edits and contributions of every individual.

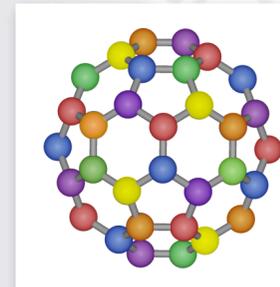
In the WikiNodes collaboration platform, contributors do not have to agree on a single version; each author can maintain their own latest version. This "branching" of creative works encourages a diversity of perspectives that can be exchanged and interwoven in a massive creative network. Authors can create unlimited branches, easily view differences between branches, and merge in changes from other versions and authors. The power of remixing.

WikiNodes is an engine for massively parallel creative collaboration of all sorts. It harnesses the power of existing systems and workflows currently used for developing software, and applies them to creating media at large.

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The Core Network

Posted by Adam Apollo | 0 comments



Geometric System Interface

The Core Network is a social browser and visual interface based on the geometry and physics of space-time itself. It traces our interactions and relationships with information, displaying them using colors and geometric shapes, and organizing them by shared keywords, categories, and proximity references. The system is designed to enable us to more clearly see how we are related to each other, as well as how closely we are connected, based on personal preferences and community interactions.

The interface functions like a multidimensional map, with each user at the center of their own personal browser. Surrounding them, their social and information networks from people to bookmarked websites are elegantly displayed in a colorful geometric matrix. Items they interact with regularly position themselves adjacent to their "avatar" in the honeycomb grid, while items they interact with less often are displayed further away. Each connection in the grid is organically organized by relationship categories based on similar tags or keywords. For ease of display and efficient user referencing, these categories are simply represented by color coded points.

The system is designed to aggregate data from a variety of social networks and search engines. It can be used as both a standalone browser, or module that can be inserted into any existing website or application. Priorities in this interface design are flexibility and ease of use. The map is rendered and displayed with smooth physics-based movement, and reorients itself according to your searches or general navigation. The geometric structure can be rendered in 2D and 3D, as well as display changes in interactions over time.

ECOSYSTEM

Comparison with Related Projects

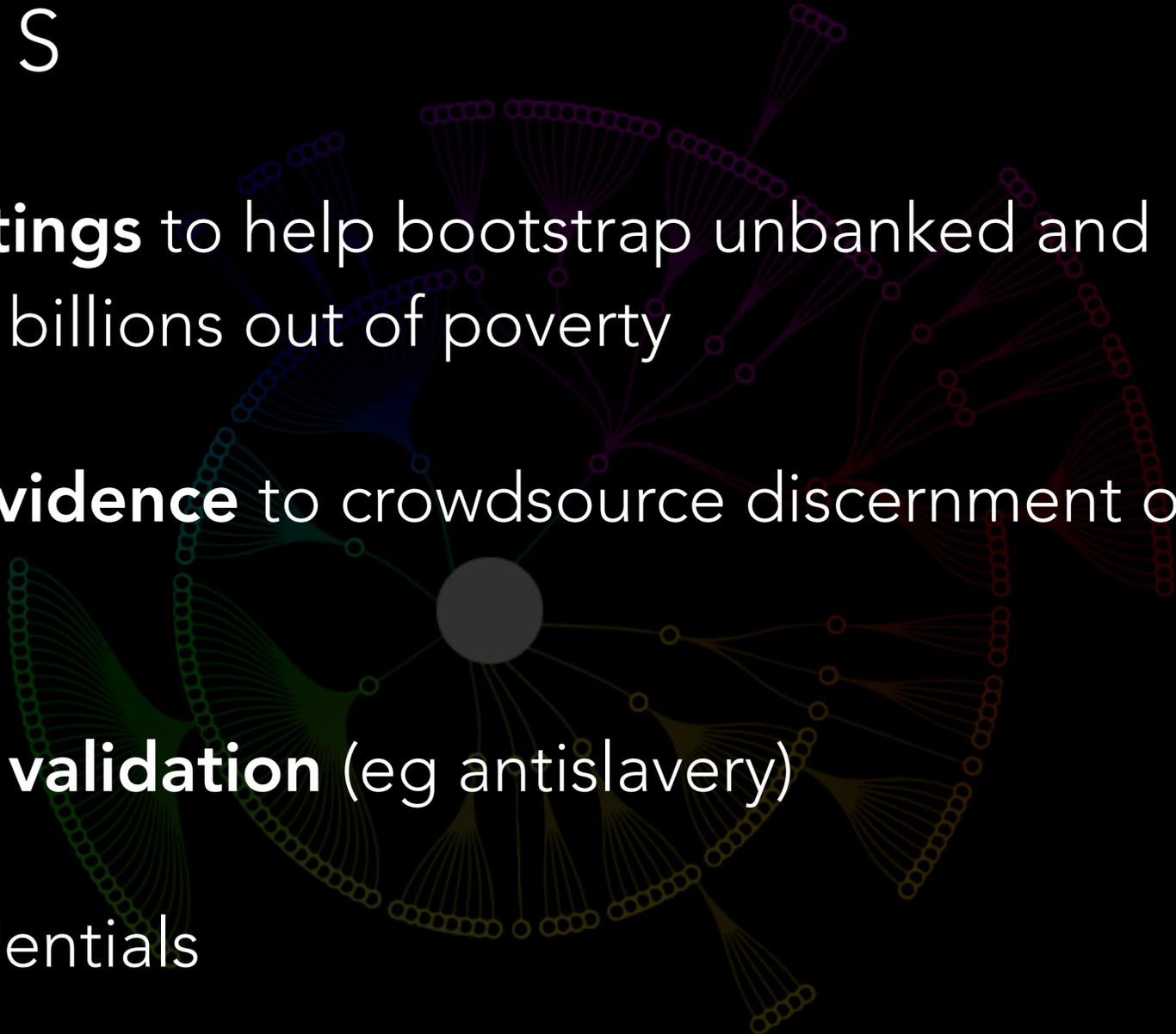
	License	Source	Target	Semantic	Scalar	Scalar Range	Optional attributes	Since
IETF Reputons	(RFC)	rater	rated	assertion	rating	0..1	confidence, normal-rating, sample-size, generated, expires	2014
Trust Graph	Apache 2	Source	Target	Content	Value	-1..1	User defined	2016
Trust Net	AGPLv3	Trust Source	Trust Target	Trust Areas	Trust Weight	0..1		2020

Also a shout out to FluenceLabs' TrustGraph project:
<https://github.com/fluencelabs/trust-graph>

WHY TRUST GRAPH

TRUST GRAPH

USE CASES

- P2P **credit ratings** to help bootstrap unbanked and underbanked billions out of poverty
 - **Claims and evidence** to crowdsource discernment of “fake news”
 - **Supply chain validation** (eg antislavery)
 - **Refugee** credentials
 - Decentralized **academic peer review**
- 

TRUST GRAPH

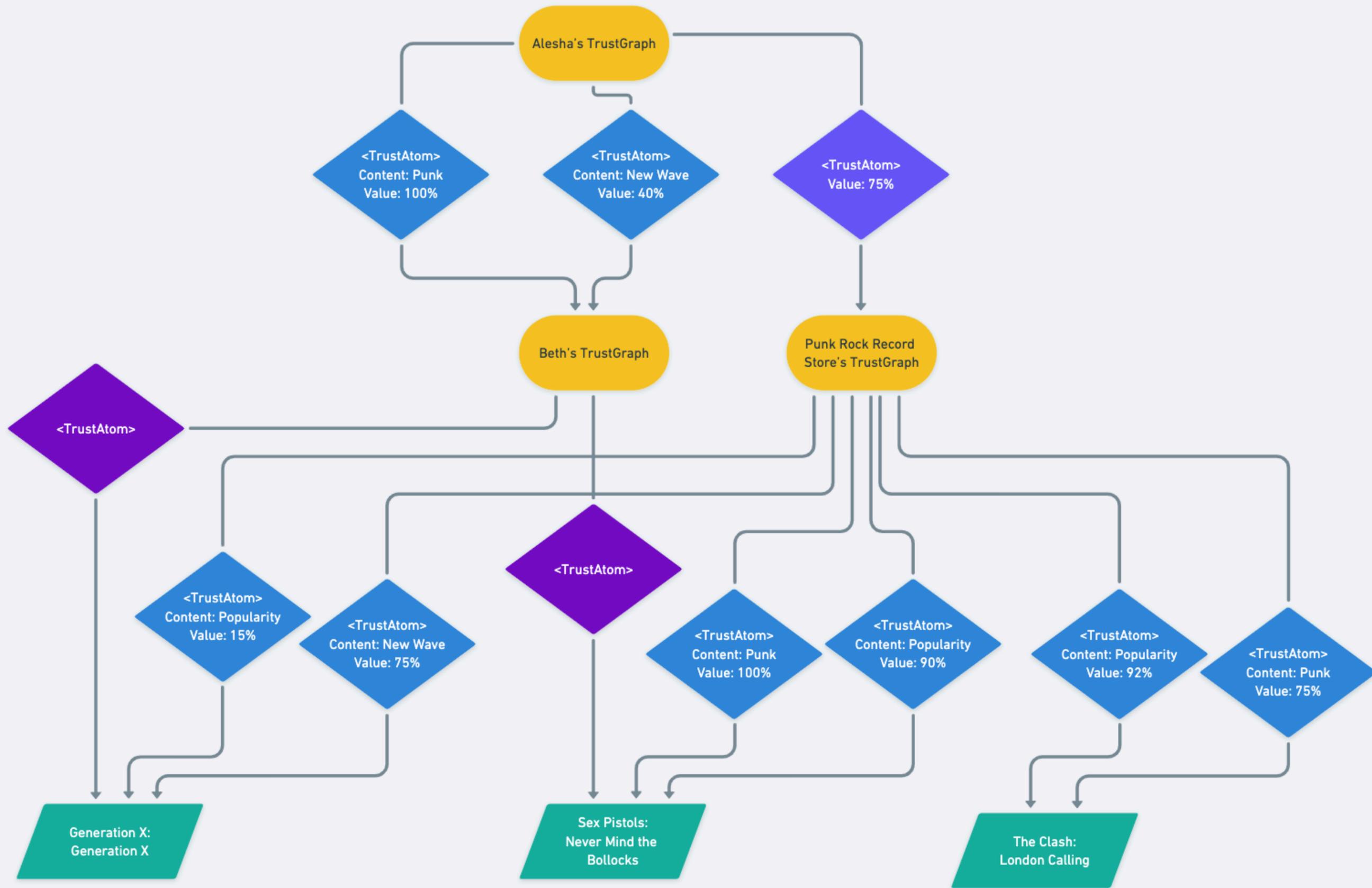
A PERMANENT DIGITAL ARCHIVE FOR TRUST, REPUTATION, AND RATINGS

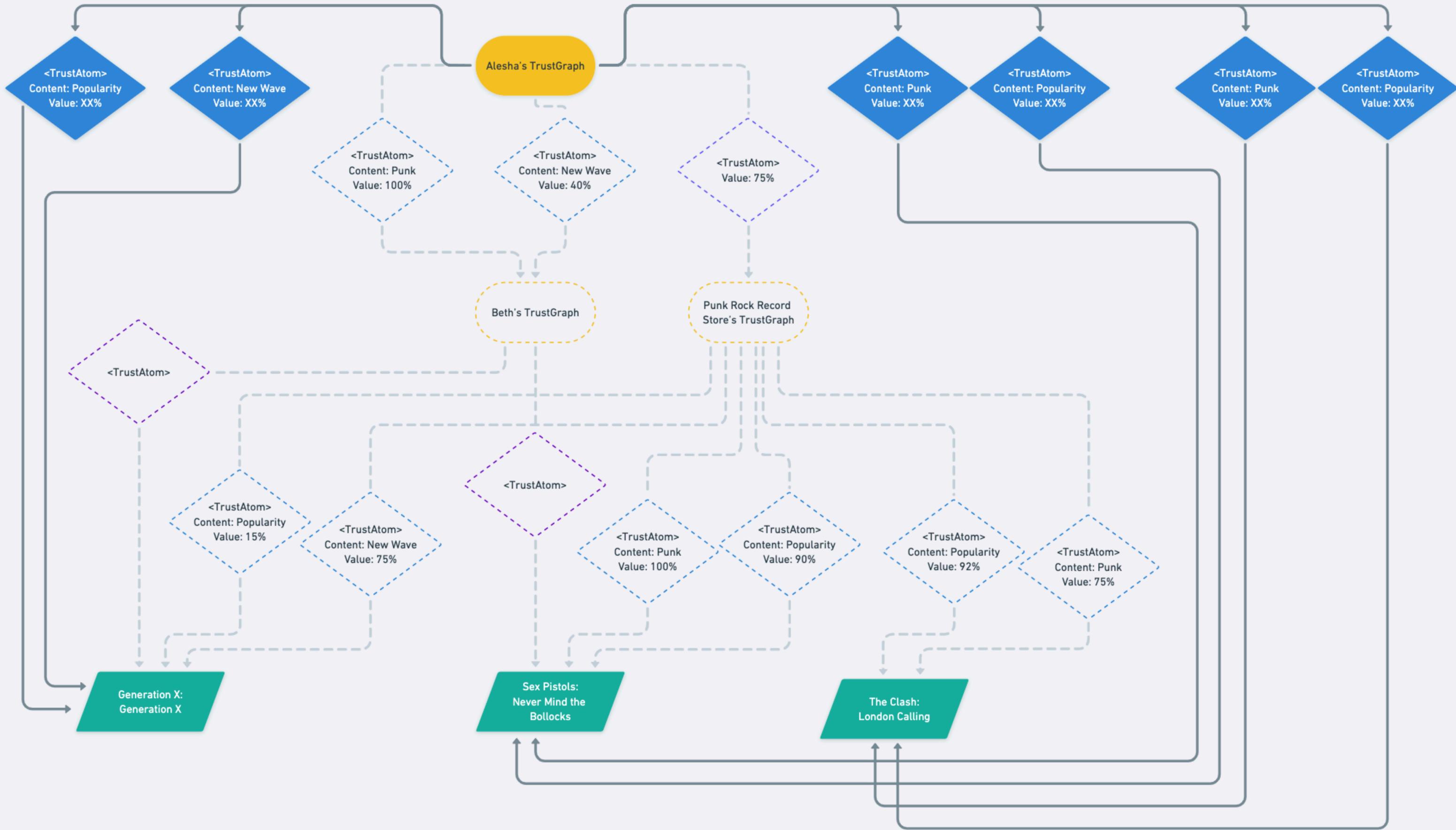
- Anyone can contribute **claims** (any type of trust or reputation data: ratings, vouches, "likes", reviews, etc)
- Claims are in an **open format** that is sufficiently flexible to represent multiple claim types
- Claims are **immutable, and cryptographically signed** by a private key belonging to the claimant
- A claim can **target any person or entity**, commonly a public key (if available) or a URL
- Claims can be easily **shared**, selectively or publicly, or may remain private

TRUST GRAPH

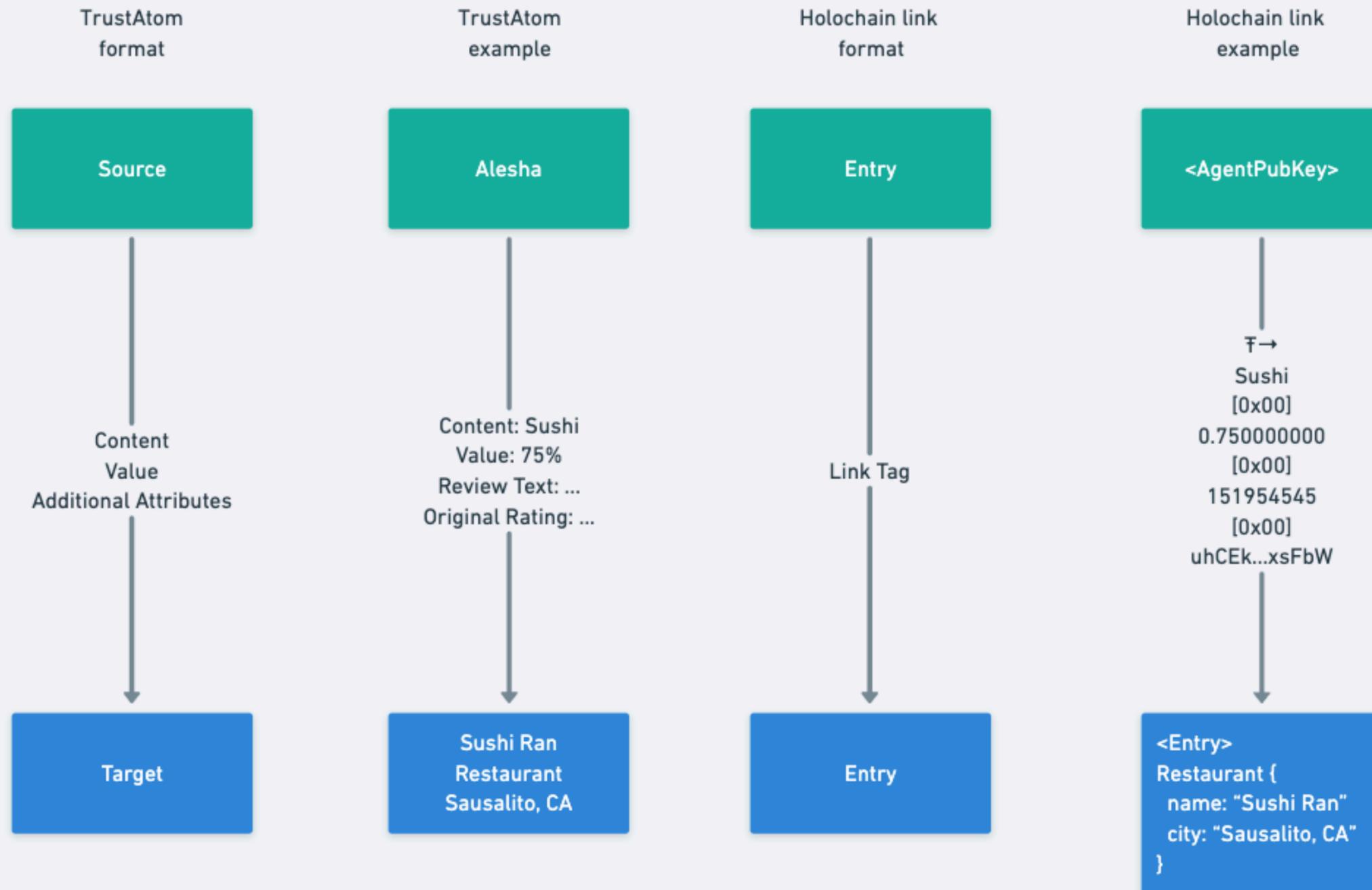
- **Platform level** decentralized Trust Atoms
- **Agent centric**, intersubjective & unopinionated
- Reputation interchange format which can absorb **heterogeneous reputation & ratings**: binary, numeric, semantic, etc
- Foundation for **decentralized social networks** to share reputation information selectively in a self-sovereign identity context

EXAMPLE: PUNK ROCK
RECORD STORE





TRUST GRAPH: HOLOCHAIN



Link Tag Examples:

```
F→sushi[0x00]0.999999999[0x00]151954545[0x00]uhCEk...xsFbW  
F↔sushi[0x00]0.999999999[0x00]151954545[0x00]uhCEk...xsFbW
```

```
F→sushi[0x00]0.900000000[0x00]402750428[0x00]  
F↔sushi[0x00]0.900000000[0x00]402750428[0x00]
```

```
F→Spam[0x00]-0.999999999[0x00]659994432[0x00]uh5sy...ndwSq
```

Holochain link example

<AgentPubKey>

F→

Sushi

[0x00]

0.750000000

[0x00]

151954545

[0x00]

uhCEk...xsFbW

<Entry>

Restaurant {

name: "Sushi Ran"

city: "Sausalito, CA"

}



TRUST GRAPH

CRYPTOGRAPHICALLY
SIGNED CLAIMS FOR
RATINGS AND
REPUTATION

Project:

<https://trustgraph.net/>

This Deck:

<https://trustgraph.net/fosdem2020>

Speaker:

<https://twitter.com/harlantwood>