Token Engineering Community

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Ocean Protocol

"Show me the incentive and I will show you the outcome."

-Charlie Munger



Design of Tokenized Ecosystems From Mechanism Design to *Token Engineering*

Analysis:

Game theory

Synthesis:

Mechanism Design

Practical constraints

Optimization Design



Engineering theory, practice and tools + responsibility

Token Engineering for Analysis & Synthesis

Engineering

is the creative application of science, mathematical methods, and empirical evidence

to the innovation, design, construction, operation and maintenance

of structures, machines, materials, devices, systems, processes, and organizations.

Engineering Responsibility



Engineering has

Theory,
Practice,
Tools,
Responsibility



- Electrons : Electrical Engineering
 - Tokens : Token Engineering

Science ←→ Engineering

- Engineering is about building things that work.
- Science is about contributing new knowledge.
- They're complementary.

Therefore **token engineering** is complementary to the science of cryptoeconomics / **token economics**.

Token Design

- 1. Formulate the problem. Objectives, constraints, design space.
- 2. Try existing building blocks. If needed, try different formulations or blocks.
- 3. Design new block? Only if needed!

Example: Ocean						
Key Question	1	2	3	4	5	6
For priced data: incentive for supplying more? Referring?	×	*	~	*	*	~
For priced data: good spam prevention?	≈	~	~	~	~	~
For free data: incentive for supplying more? Referring?	×	*	×	~	~	~
For free data: good spam prevention?	*	~	*	~	*	~
Does token give higher marginal value to users of the network, vs external investors? Eg Does return on capital increase as stake increases?	~	~	•	~	~	~
Are people incentivized to run keepers?	*	*	~	~	~	~
It simple? Is onboarding low-friction? Where possible, do we use incentives/crypto rather than legal recourse?	~	~	*	*	~	~

Token Verification

1. Human-based

- Share docs / whitepaper, get feedback
- Role-playing in a group game
- Card games. Think MTG

2. Software-based

- Simulation
- Verification

3. Economic

- Release the software / network with ever-increasing skin-in-thegame
- Bounties++ over time
- Testnets with value

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Towards a Token Engineering Community

TE -> TE Community

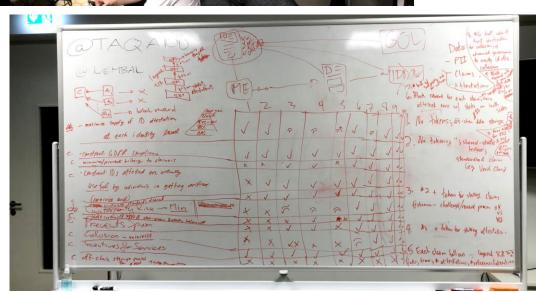
- A pleasant surprise to me: "Token Engineering" resonated with a lot of people
- And many new connections for me.
- Many amazing conversations.
- A collective realization: we need to share knowledge, to learn from each other!





More TE Meetups!





Community

Community: Events, Related Communities, more.

TE Local Meetup Groups

(The actual meetup.com pages will typically have the most up-to-date info)

Meetup: TE Berlin

• Meetup: TE Munich

• Meetup: TE Toronto

• Meetup: TE London

Meetup: TE Zurich/Zug

Meetup: TE Tokyo

Meetup: TE NYC

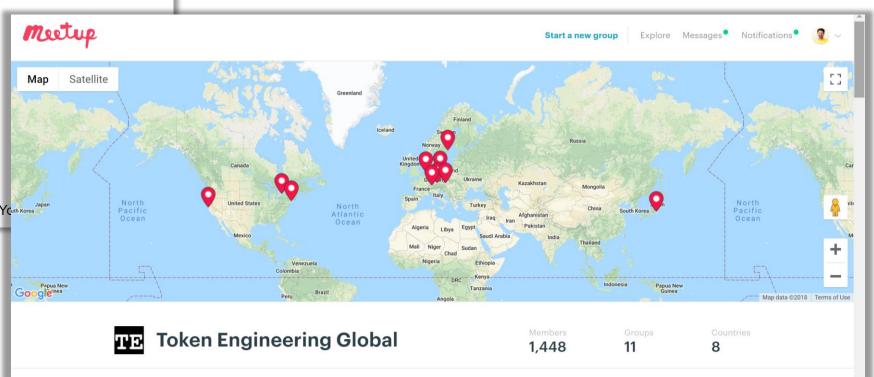
• Meetup: TE Amsterdam

• Meetup: TE Stockholm

• TE San Francisco

TE Vancouver

Wanna start your own TE meetup? Please do! :) Youth Korea Jap



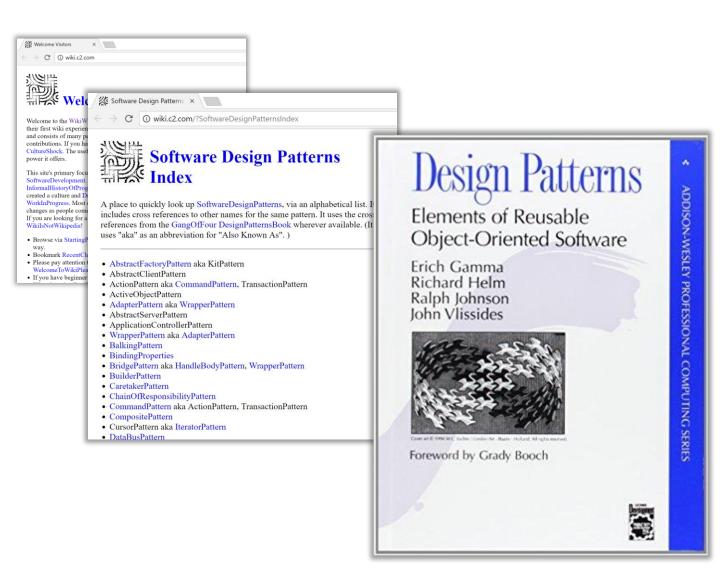
Mission of the TE Community

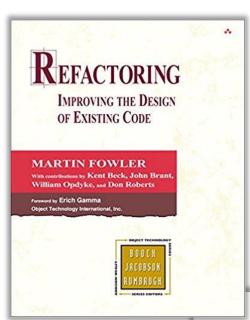
To grow TE into an engineering discipline

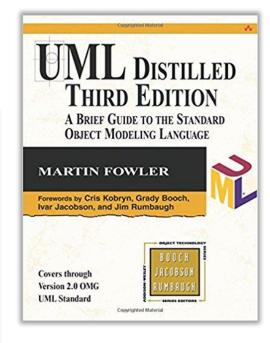
collectively as a community

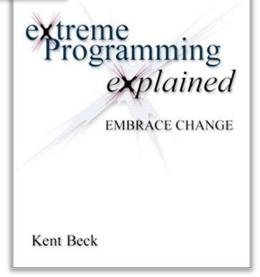
in a decentralized, permissionless, open-source fashion that all can contribute to and all can use.

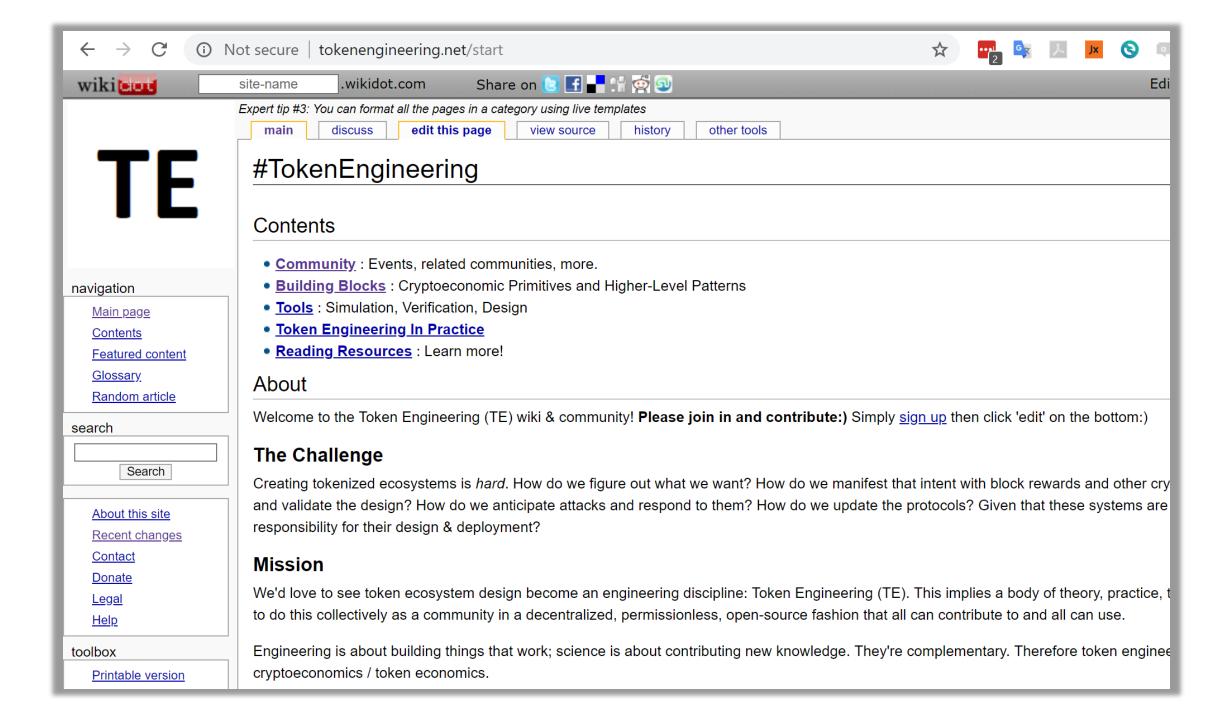
An inspiration: evolution of software engineering. C2 wiki $\rightarrow \mathbb{X}$











Ways to Participate

- Edit this wiki and impart your wisdom! Add blocks, tools, readings.
- Tweet with #tokenengineering hashtag
- Attend a meetup (see <u>Events</u>). Or: start your own!
- Subscribe to the TE mailing list:

Email Address

Subscribe

Conclusion

Towards a #TokenEngineering Community

- **Token Engineering** = Theory + practice + tools + responsibility in the creation of tokenized ecosystems.
- One framing: like an EA. We'll see other approaches today.
- TE is a field we can all create together. Now is the time to start:)

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