

How MIT is Reimagining the Future of Knowledge Production

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MIT Knowledge Futures Group

A joint initiative of the MIT Press and the MIT Media Lab
to develop and deploy technologies that form part of a new open
knowledge ecosystem.



Funding support from:

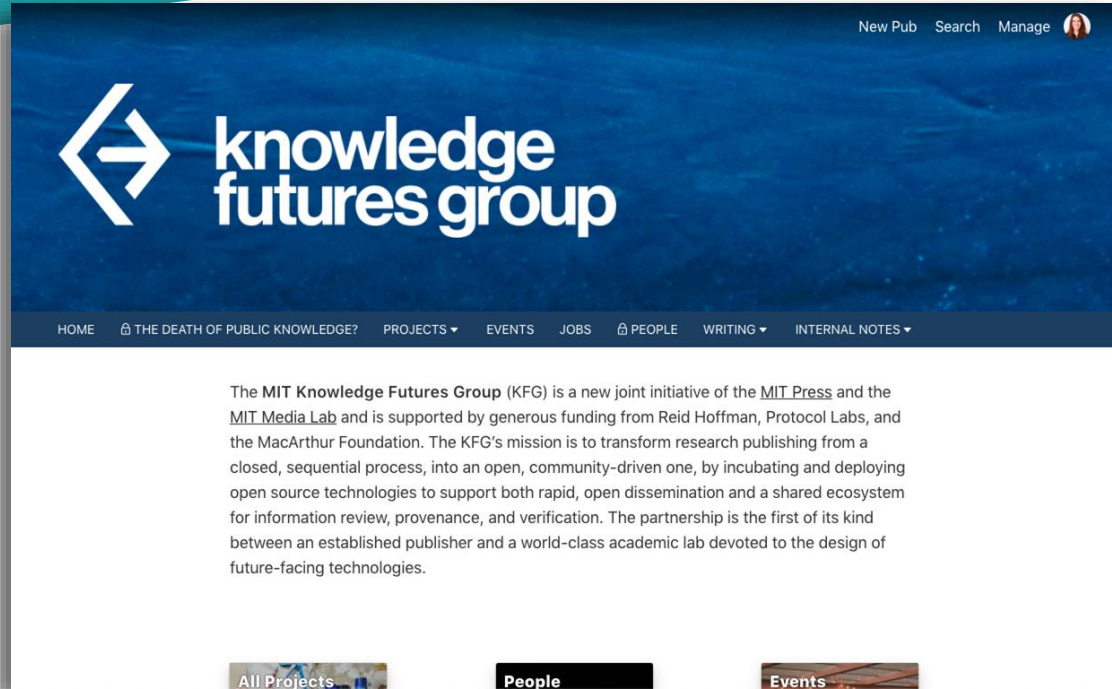
**Reid
Hoffman**



Protocol Labs

KFG.mit.edu

- Support for mission-driven publishers
- Assert ownership and influence
- Bring like-minded groups and individuals together



The screenshot shows the homepage of the MIT Knowledge Futures Group website. The header features the KFG logo and the text "knowledge futures group" on a dark blue background. In the top right corner, there are links for "New Pub", "Search", "Manage", and a user profile icon. Below the header is a navigation bar with links for "HOME", "THE DEATH OF PUBLIC KNOWLEDGE?", "PROJECTS", "EVENTS", "JOBS", "PEOPLE", "WRITING", and "INTERNAL NOTES". The main content area contains a paragraph of text describing the group's mission and funding. At the bottom, there are three buttons: "All Projects", "People", and "Events".

knowledge
futures group

HOME THE DEATH OF PUBLIC KNOWLEDGE? PROJECTS EVENTS JOBS PEOPLE WRITING INTERNAL NOTES

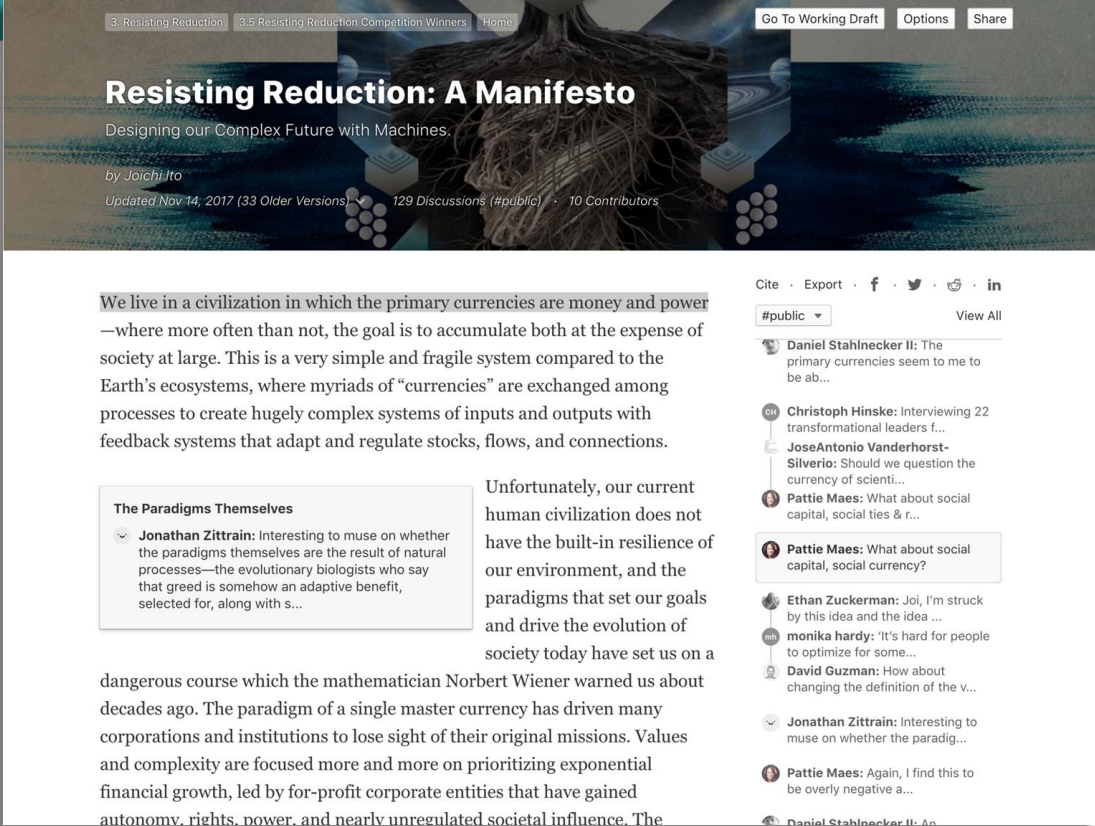
The MIT Knowledge Futures Group (KFG) is a new joint initiative of the MIT Press and the MIT Media Lab and is supported by generous funding from Reid Hoffman, Protocol Labs, and the MacArthur Foundation. The KFG's mission is to transform research publishing from a closed, sequential process, into an open, community-driven one, by incubating and deploying open source technologies to support both rapid, open dissemination and a shared ecosystem for information review, provenance, and verification. The partnership is the first of its kind between an established publisher and a world-class academic lab devoted to the design of future-facing technologies.

All Projects People Events

- **PubPub**: Open-source Community Publishing
 - ◆ Contact: Catherine Ahearn, cahearn@mit.edu
- **Underlay**: Protocol for data interoperability
 - ◆ Contact: Samuel Klein, sjklein@mit.edu
- **Prior Art Archive**: Open, industry-led archive
 - ◆ Contact: Travis Rich, trich@mit.edu
- **Ecosystem map**: Mellon-funded environment scan to be published in June 2019
 - ◆ Contact: Terry Ehling, tehling@mit.edu

PubPub.org

- +100 communities
- Enable, map the process of collaboration
- Turn publishing into an iterative process
- Encourage the socialization of reading



3. Resisting Reduction 3.5 Resisting Reduction Competition Winners Home

Go To Working Draft Options Share

Resisting Reduction: A Manifesto

Designing our Complex Future with Machines.

by Joichi Ito

Updated Nov 14, 2017 (33 Older Versions) 129 Discussions (#public) 10 Contributors

Cite · Export · f · t · e · in

#public View All

Daniel Stahnecker II: The primary currencies seem to me to be ab...

Christoph Hinske: Interviewing 22 transformational leaders f...

JoseAntonio Vanderhorst-Silverio: Should we question the currency of scienti...

Pattie Maes: What about social capital, social ties & r...

Pattie Maes: What about social capital, social currency?

Ethan Zuckerman: Joi, I'm struck by this idea and the idea ...

monika hardy: 'It's hard for people to optimize for some...

David Guzman: How about changing the definition of the v...

Jonathan Zittrain: Interesting to muse on whether the paradig...

Pattie Maes: Again, I find this to be overly negative a...

Daniel Stahnecker II: An

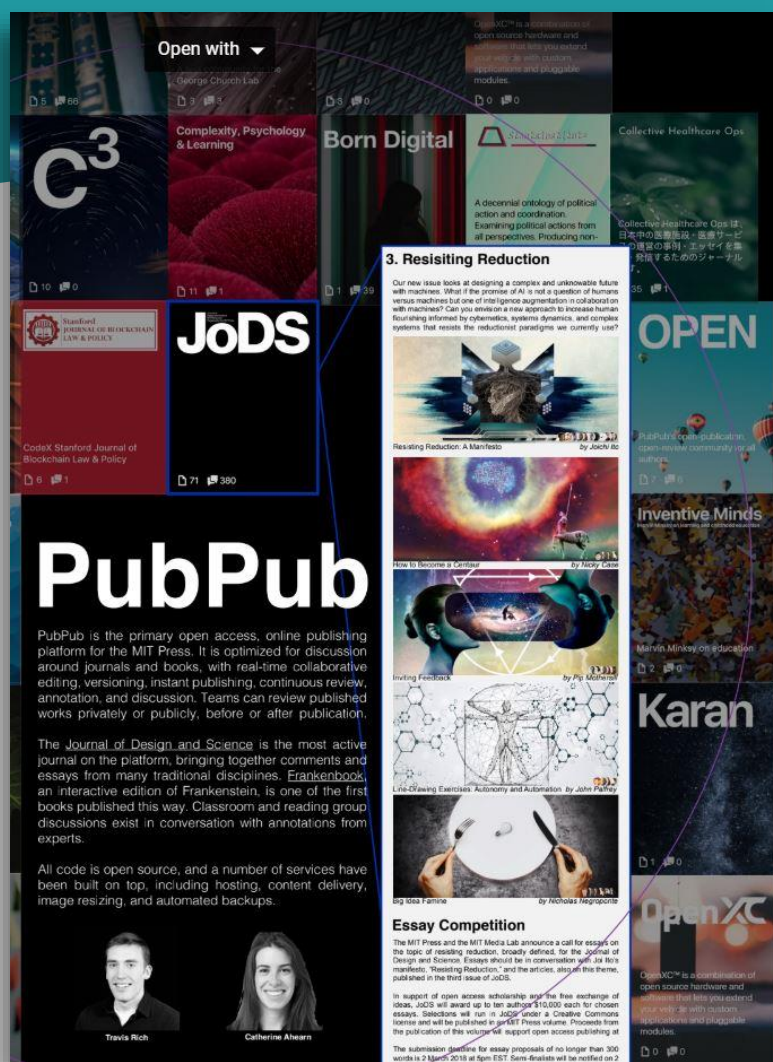
We live in a civilization in which the primary currencies are money and power—where more often than not, the goal is to accumulate both at the expense of society at large. This is a very simple and fragile system compared to the Earth's ecosystems, where myriads of “currencies” are exchanged among processes to create hugely complex systems of inputs and outputs with feedback systems that adapt and regulate stocks, flows, and connections.

Unfortunately, our current human civilization does not have the built-in resilience of our environment, and the paradigms that set our goals and drive the evolution of society today have set us on a dangerous course which the mathematician Norbert Wiener warned us about decades ago. The paradigm of a single master currency has driven many corporations and institutions to lose sight of their original missions. Values and complexity are focused more and more on prioritizing exponential financial growth, led by for-profit corporate entities that have gained autonomy, rights, power, and nearly unregulated societal influence. The

The Paradigms Themselves

Jonathan Zittrain: Interesting to muse on whether the paradigms themselves are the result of natural processes—the evolutionary biologists who say that greed is somehow an adaptive benefit, selected for, along with s...

Explore communities:
[PubPub.com/explore](https://pubpub.com/explore)



Open with

George Church Lab

C³ Complexity, Psychology & Learning

Born Digital

Collective Healthcare Ops

Standard JOURNAL OF BLOCKCHAIN LAW & POLICY

JoDS

Codex Stanford Journal of Blockchain Law & Policy

3. Resisting Reduction

Our new issue looks at designing a complex and unknowable future with machines. What if the promise of AI is not a question of humans versus machines but one of intelligence augmentation in collaboration with machines? Can you envision a new approach to increase human flourishing informed by optimization, systems dynamics, and complex systems that resists the reductionist paradigms we currently use?

Resisting Reduction: A Manifesto

How to Become a Centaur

Living Fictions

Line-Drawing Exercises, Autonomy and Automation

OPEN

Inventive Minds

Karan

OpenXC

PubPub is the primary open access, online publishing platform for the MIT Press. It is optimized for discussion around journals and books, with real-time collaborative editing, versioning, instant publishing, continuous review, annotation, and discussion. Teams can review published works privately or publicly, before or after publication.

The Journal of Design and Science is the most active journal on the platform, bringing together comments and essays from many traditional disciplines. Frankenbook, an interactive edition of Frankenstein, is one of the first books published this way. Classroom and reading group discussions exist in conversation with annotations from experts.

All code is open source, and a number of services have been built on top, including hosting, content delivery, image resizing, and automated backups.

Essay Competition

The MIT Press and the MIT Media Lab announce a call for essays on the topic of resisting reduction, broadly defined, for the journal of Design and Science. Essays should be in conversation with Joe Ho's manifesto, "Resisting Reduction," and the article, also all in theme, published in the third issue of JoDS.

In support of open access scholarship and the free exchange of ideas, JoDS will award up to ten authors \$10,000 each for chosen essays. Selections will run in JoDS under a Creative Commons license and will be published in MIT Press volume. Proceeds from the publication of this volume will support open access publishing at MIT.

The submission deadline for essay proposals of no longer than 300 words is 2 March 2018 at 5pm EST. Semi-finalists will be notified on 2

Travis Rich

Catherine Ahearn

Value in Experimentation

- **Redefining** the digital reading experience
- **Supporting** the development and evolution of new ideas
- **Introducing transparency and openness** in the review process to provide greater value to authors and readers

Frankenbook

- Edition for the 200th anniversary (2018) of Mary Shelley's *Frankenstein* published by the MIT Press in 2017
- **Frankenbook** published in January 2018 on PubPub
 - ◆ Additional annotations from the editors
 - ◆ Multimedia embeds in the text and annotation
 - ◆ Labels added to annotations for tailored reading
 - ◆ Functionality for use in classrooms
 - ◆ Community discussion around the text
- Currently has 420 discussions and over 7,000 visits

Works in Progress

- Works in Progress (WiP) are written works in early stages of development that would benefit from an open peer review process.
- Provides authors the benefit of community feedback in the development of their ideas, as well as the ability to publish a version of their work before more formal publication.
- After the open review period, authors may revise the work and submit it for consideration for formal publication. The MIT Press will have first right of refusal, and all submitted manuscripts will be subject to our usual rigorous peer review.

Data Feminism

- [Data Feminism](#) is a contracted manuscript by Catherine D'Ignazio and Lauren Klein
- Available for peer-to-peer review and to be published by the MIT Press as part of the **Ideas** series
 - ◆ All titles in the **Ideas** series will be open access and published on PubPub with support from the MIT Libraries
- Had over 500 comments and over 3,000 visits at the close of open review

Challenges in Experimentation

- Community engagement
- Community moderation
- Funding models
- Creating new workflows and/or integrating with existing ones
- Creating and communicating realistic goals

Collaboration

- Create your own community
 - ◆ Anyone can [create a community](#) or contribute to an existing one at no cost
- Provide us feedback
 - ◆ All of our code is openly available on [GitHub](#)
 - ◆ You can reach our team at team@pubpub.org
- Stay connected
 - ◆ Sign up for our [newsletter](#) and follow us on Twitter [@pubpub](#) & [@knowledgefuture](#)

Thank you.

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