Coko: Community-based open source solutions to improve how knowledge is created, produced and shared.

Kristen Ratan

Adam Hyde
The problem with research communication

- Slow
- Expensive
- Incomplete
- Static
- Closed
Initial step: transform academic publishing

Print Digital workflows
Increase automation
Publish all the work: data, code, protocols
Broaden access
Engineering Change

Collaboration
From closed and linear workflows to collaborative webspaces

Cooperation
From proprietary platform silos to an OS ecosystem

Community
From the garage to the town square model of product development
Collaborative Webspace

Research object at the center as the context or work changes

Automated
- Identifiers
- Tags
- Links
- Semantics

Research Object (HTML)

Tasks

TEXT, DATA, FIGURES, ANALYSIS, REFERENCES
Coko believes...

No one platform can solve all the problems. We need an ecosystem of tools and software. We should build modular & interoperable things. The community must create and own solutions.
The Ecosystem is Emerging

Tools
- Substance library
- Texture
- Wax
- DAT
- INK
- Stencila
- xSweet

Platforms
- OJS
- Coko’s Editoria
- Coko’s xPub
- eLife Libero
- CERN’s Invidio
- Science Fair
Coko’s open, modular architecture enables innovation and cooperation.
Three use cases (so far)

Books

Journals

Micropublications

Design       Development cycles       Testing       Launch
Micropublications: xPub
Web Product Development

1995
2 guys in a garage

1999
12 guys in an office, with funding, snacks and toys

2005
Product management and user testing
Large dev team with front and back end, sysadmin, devops, web design

2009
User stories, product management and user-centered designs, personas, use cases
Large Agile dev team with front and back end, sysadmin, devops, web design

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1995

1999

2005

2009
Community-led Open Source Development

- Broad Community
- Core OS project
- Core OS project
- Partnering tech organizations
- Service providers
- First wave adoption
- Early adopters
- Code contributors