knowledge sharing and education

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information sharing is at the root of scholarship and education

the system of print publishing is a system of sharing knowledge

then came the move to digital ...
the web revolutionized search, commerce, collaboration
sharing became cheaper, easier technically

costs of copying, moving, storing ... down to nearly zero

ability to link between nodes of information (dating back to 1980s)
yet ...
most of the useful knowledge is \textit{inaccessible}.

most of the useful knowledge is in the \textit{wrong technology}.

the ability to \textit{build upon} is often (unknowingly) stifled.
make sharing easy, legal and scalable

integrated approach

building part of the infrastructure for knowledge sharing
projects

cc licensing

cc science

cc education

international

Monday, March 1, 2010
knowledge?
curricula
discussion, video
articles
data
ontologies
annotations
plasmids and cell lines
educational resources

- knowledge
- curricula
- discussion, video articles
- data
- ontologies
- annotations
- plasmids and cell lines
I.

publishing:

it’s no longer about the container.
media company response: adjust the physical media force the cd format

ignore that people... like to make mixes.
facing the same paradigm shift for education, science
PHILOSOPHICAL
TRANSACTIONS:
GIVING SOME
ACCOUNT
OF THE PRESENT
Undertakings, Studies, and Labours
OF THE
INGENIOUS
IN MANY
CONSIDERABLE PARTS
OF THE
WORLD.

Vol I.
For Anno 1665, and 1666.

In the SAVOY,
Printed by T. N. for John Martyn at the Bell, a little without Temple-Ber, and James Allestry in Duck-Lane,
Printers to the Royal Society.
2. the “paper metaphor” and why *access* is crucial
scholarship entrenched in idea of transmitting knowledge via *paper*

mentality reflected even in the way we describe “*papers*”

static, one-dimensional documents, compilations
in the digital world, “papers” can become living, breathing works
digitally enabled education

linking to courseware, relevant discussions, information, videos, tools
3. content needs to be *legally* and *technically* accessible

... and what we mean by “access”
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4.
don’t forget the technical component
agreement is hard.
design for maximum reuse

data without structure and annotation is a lost opportunity.

keep interoperability and access in mind

allow for snap together integration of the tools, courseware, research literature
what’s needed?

common standards, right software accessible data and content harmonization technically, legally annotation, ability to link build for *network effects*
education is iterative
allow for that adaptation
discoverability is key
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