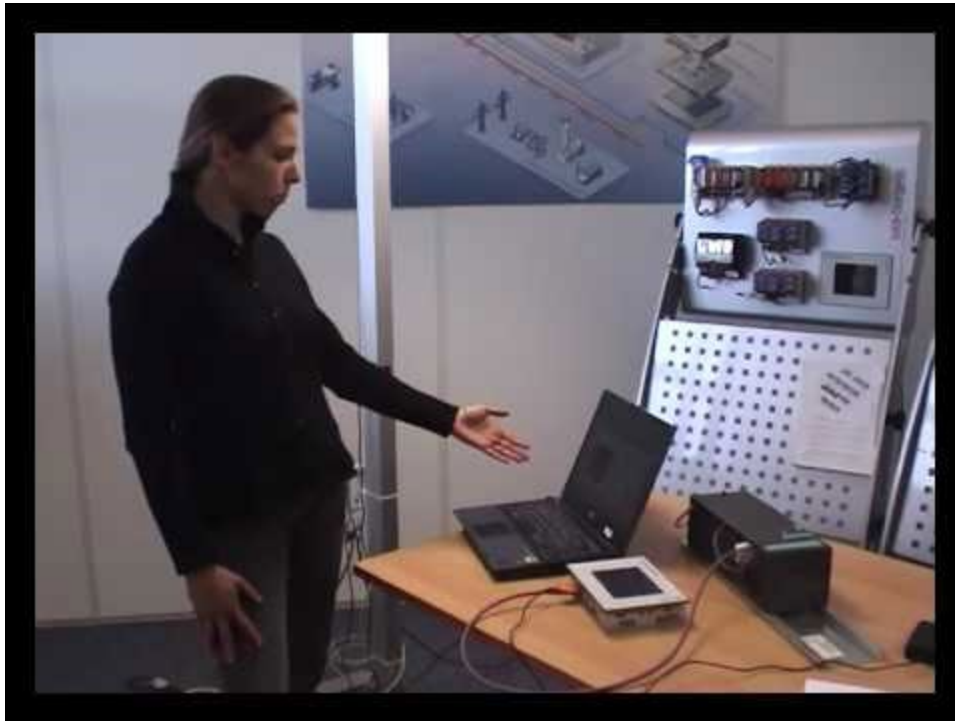# Massive Open Online Support for Education

Stephen Downes

May 6, 2013

Have Network, Will Travel

1996

2006

One Laptop Per Child

OLPC Canada Promo

http://www.olpccanada.com/

2016?

"That's 40,000 books already delivered..."

"It is a press, certainly, but a press from which shall flow in inexhaustible streams...Through it, God will spread His Word. A spring of truth shall flow from it: like a new star it shall scatter the darkness of ignorance, and cause a light heretofore unknown to shine amongst men"

"A spring of truth shall flow from it"

http://www.gutenberg.org/

Revai Meeks, 6, and Easton Meeks, 3, read with their mother Erika Lee at the Belleville Public Library Jan. 20, 2011

Brampton Library tested an Early Literacy Workstation at its South Fletcher's Branch for a two-week period earlier this month. 2007

http://www.thebramptonnews.com/articles/1524/1/Early-Literacy-Workstation-Fun-for-Kids/Page1.html

●Consonants:

ㄱ	ㄴ	ㄷ	ㄹ	ㅁ	ㅂ	ㅅ	ㅇ	ㅈ
\k,g\	\n\	\t,d\	\r,l\	\m\	\p,b\	\s,sh\	\ng\	\ch,j\
kiyok	niun	tikut	riul	mium	piup	siot	iung	chiut

ㅊ	ㅋ	ㅌ	ㅍ	ㅎ
\ch'\	\k'\	\t'\	\p',f\	\h\
ch'iut	k'iuk	t'iut	p'iup	hiut

●Vowels

ㅏ	ㅑ	ㅓ	ㅕ	ㅗ	ㅛ	ㅜ	ㅠ	ㅡ	ㅣ
\a\	\ya\	\eo\	\yeo\	\o\	\yo\	\u\	\yu\	\eu\	\ee\

http://www.qnetnews.ca/?p=5159

Language, literacy, libraries

http://www.open.ac.uk/

http://www.open.edu.au/

इंदिरा गाँधी राष्ट्रीय मुक्त विश्वविद्यालय
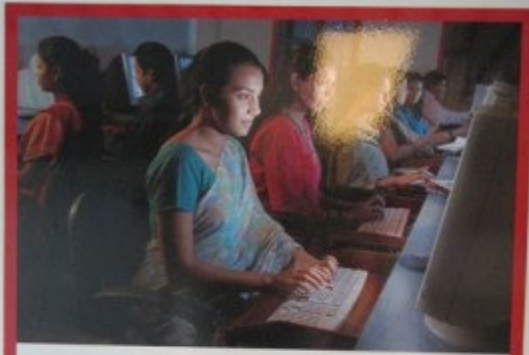
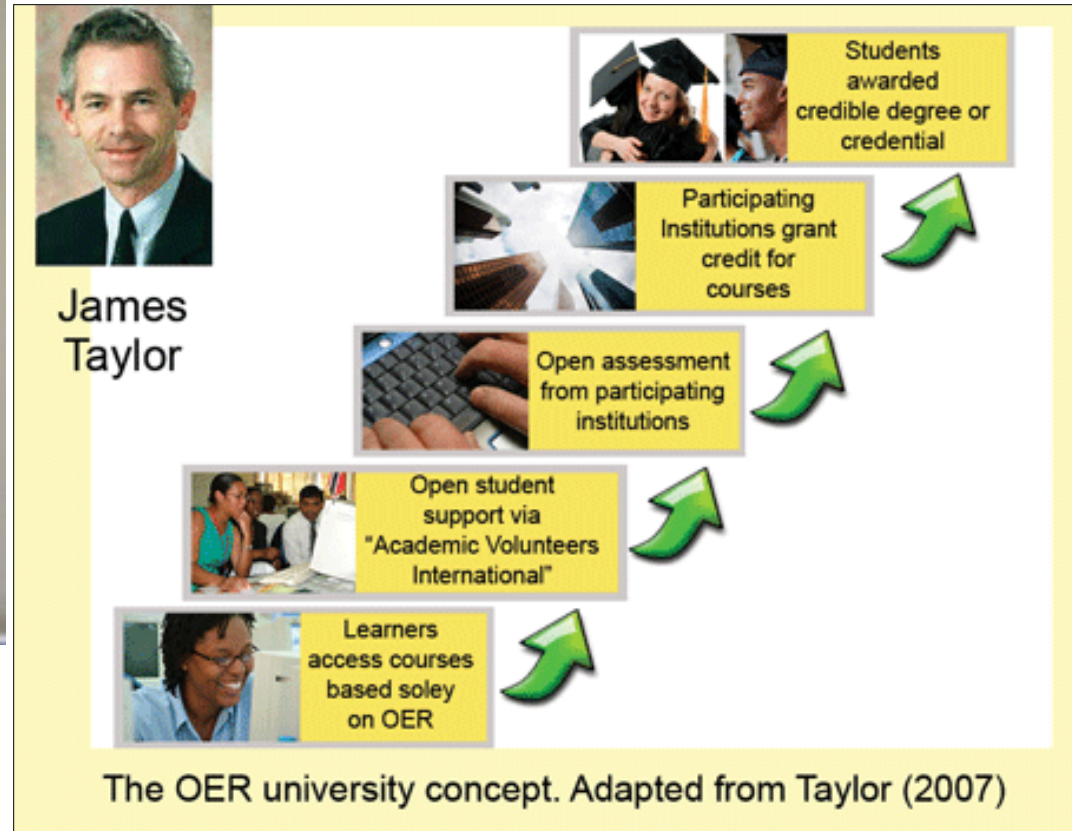http://www.ignou.ac.in/

http://www.athabascau.ca/

The Idea of Open Learning…

Indian e-tutors generate $20 million annually, teaching American students. Do you see a world of potential? We do.

James Taylor

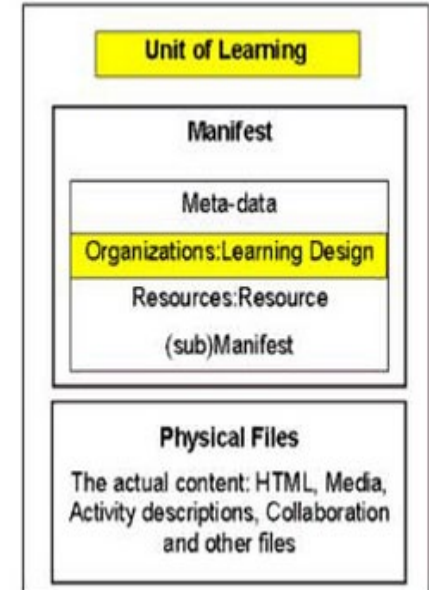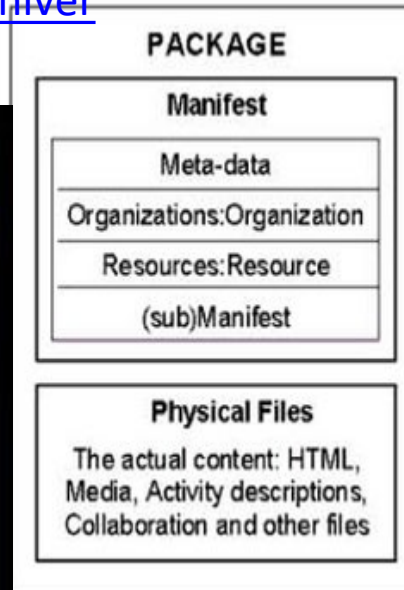Students awarded credible degree or credential

Participating Institutions grant credit for courses

Open assessment from participating institutions

Open student support via "Academic Volunteers International"

Learners access courses based soley on OER

The OER university concept. Adapted from Taylor (2007)

Phases of Openness?

Phase 1

PACKAGE

Manifest

Meta-data

Organizations:Organization

Resources:Resource

(sub)Manifest

Physical Files

The actual content: HTML, Media, Activity descriptions, Collaboration and other files

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Unit of Learning

Manifest

Meta-data

Organizations:Learning Design

Resources:Resource

(sub)Manifest

Physical Files

The actual content: HTML, Media, Activity descriptions, Collaboration and other files

Open Educational Resources

Phase 2
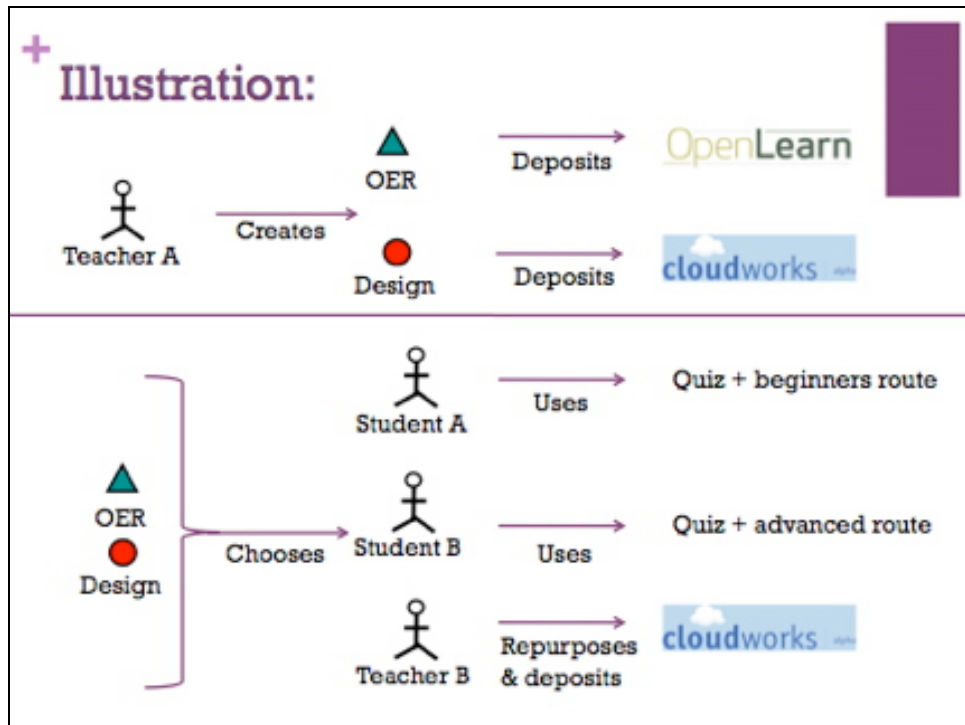
...the Open Educational Practices movement, developed by Germany's Ulf-Daniel Ehlers and the UK's Gráinne Conole...

http://e4innovation.com/?p=373

Learning Design & Open Practices

Sharing pedagogical patterns

Tutorial: On a system or process

Learning Outcome: A clear understanding of the role of the critical factors in the system

Summary: through preparing their own
            of   to demonstrate the
    role of the critical factors, using
                        ; presenting it to their
    group; defending it against questions and
    comments; and revising their account in the
    light of the tutor's summary of the
    discussion

Tutorial: Using a search engine

Learning Outcome: A clear understanding of the role of the critical factors in the system

Summary: through preparing their own account of using a search engine, to demonstrate the role of the critical factors, using the Library guidelines; presenting it to their group; defending it against questions and comments; and revising their ac...
            ...mary of...

Tutorial: The water cycle

Learning Outcome: A clear understanding of the role of the critical factors in the system

Summary: through preparing their own animation of the water cycle, to demonstrate the role of the critical factors, using the OER cycle; presenting it to their group; defending it against questions and comments; and revising their account in the light of the tutor's summary of the discussion

http://repository.alt.ac.uk/883/

http://www.imsglobal.org/learningdesign/

Learning Design & Patterns

Phase 3

http://www.brainbench.com/

http://www.aspirationtech.org/events/p2pu/openassessment/2010

Open Assessment?

http://www.mooc.ca
http://cck11.mooc.ca

http://suifaijohnmak.wordpress.com/2011/03/10/cck11-how-to-explain-connectivism-mooc-and-plepln/
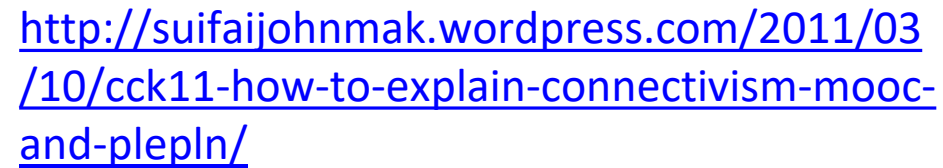
The MOOC…

What are MOOCs

- Massive – by design

- Open – gratis and libre

- Online – vs. blended and wrapped

- Courses – vs. communities, websites, video collections, etc

http://mooc.ca

CCK08

2300 students

Other Courses

1800 students
http://connect.downes.ca/

2800 students

http://change.mooc.ca/

3000 students
http://edfuture.net/

cMOOC vs xMOOC

networks   tasks   contents

https://www.ai-class.com/

http://ds106.us/history/

https://www.coursera.org/

http://lisahistory.net/wordpress/2012/08/three-kinds-of-moocs/
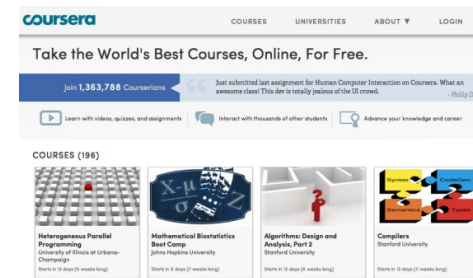
Connectivist MOOCs
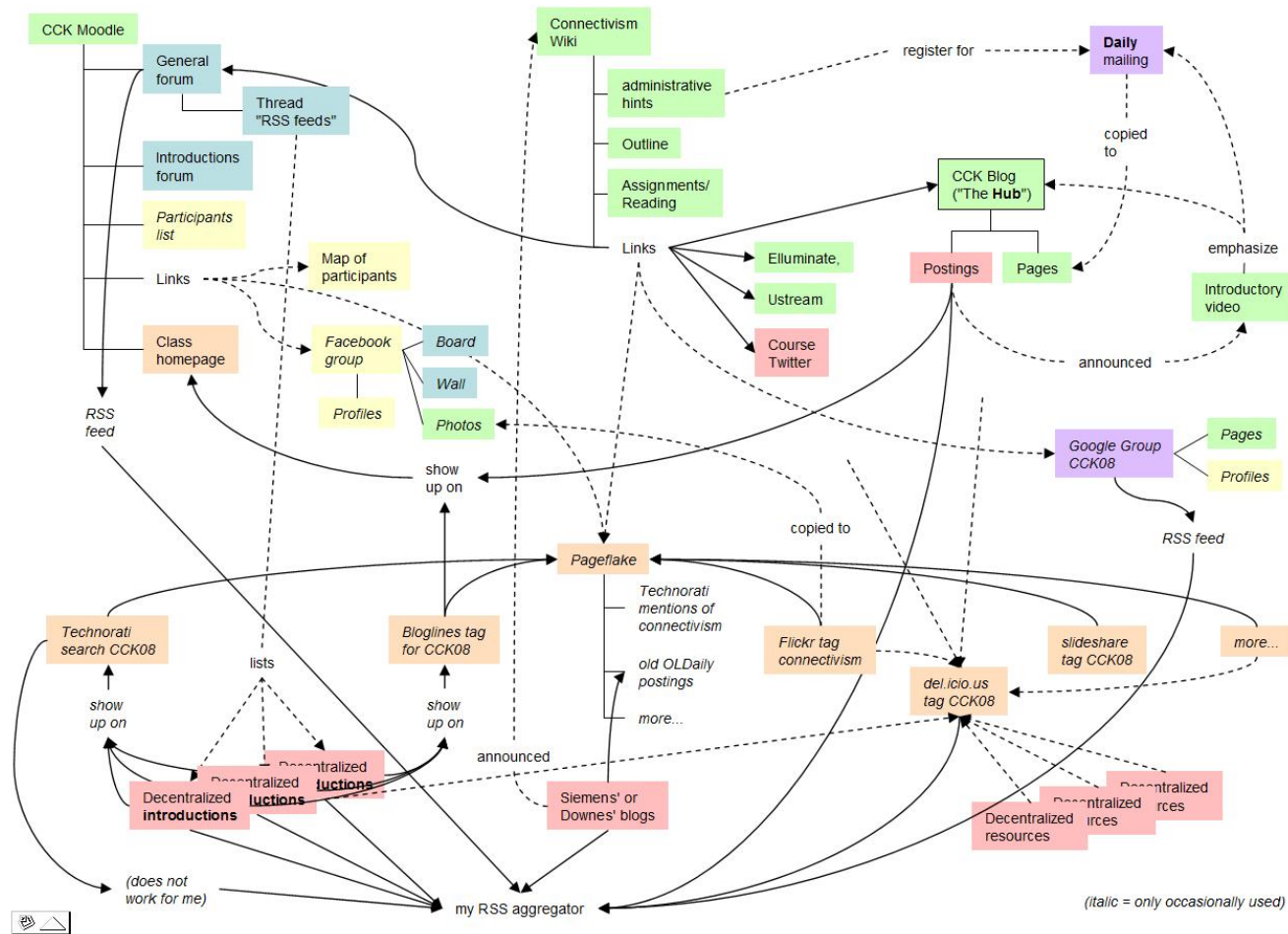
How to Learn in a cMOOC
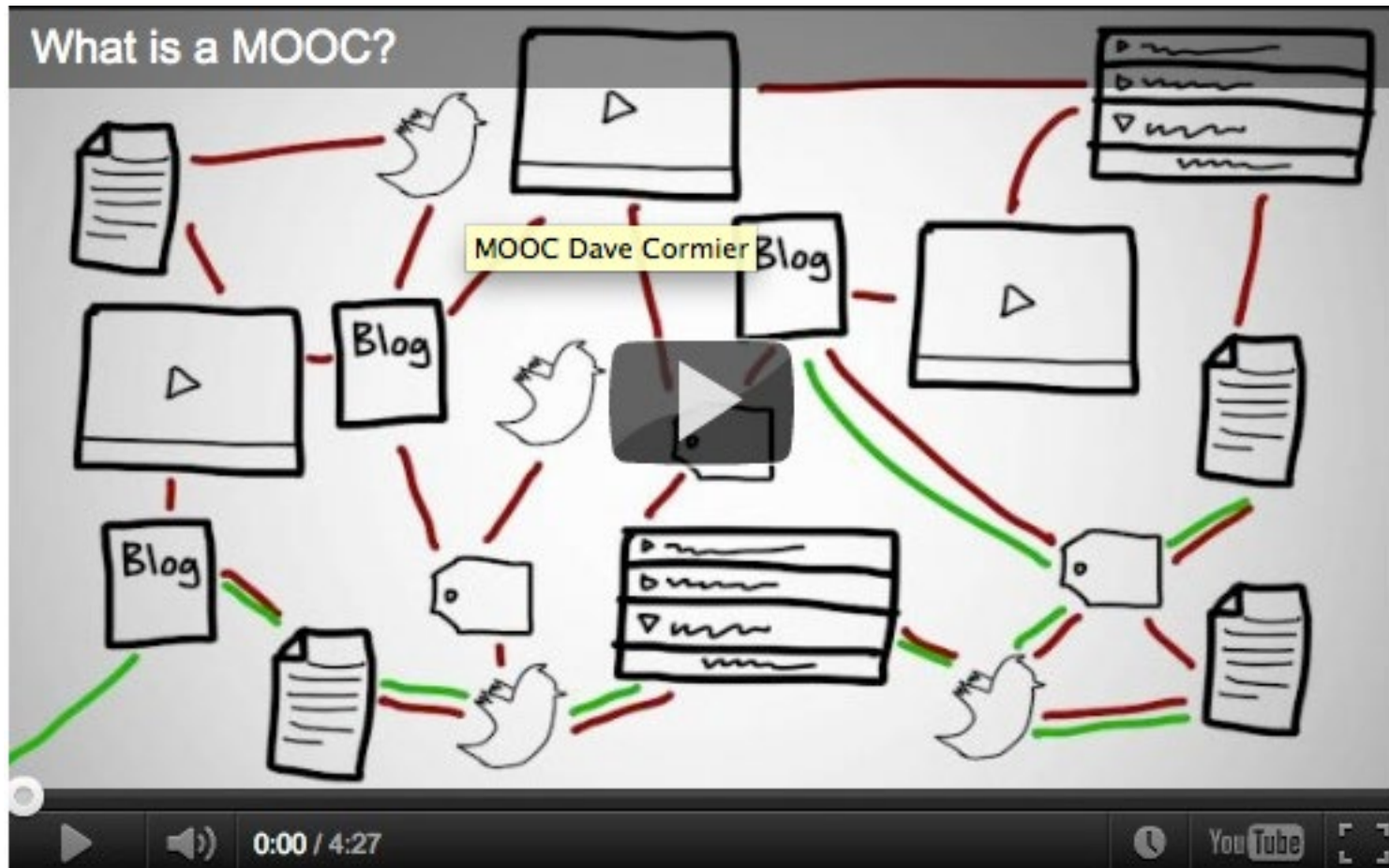
A process of immersion into a knowing community

http://www.tonybates.ca/2012/03/03/more-reflections-on-moocs-and-mitx/

How to Create a cMOOC

- It's like creating a network

- Don't centralize

- Concentrate on the creation of links
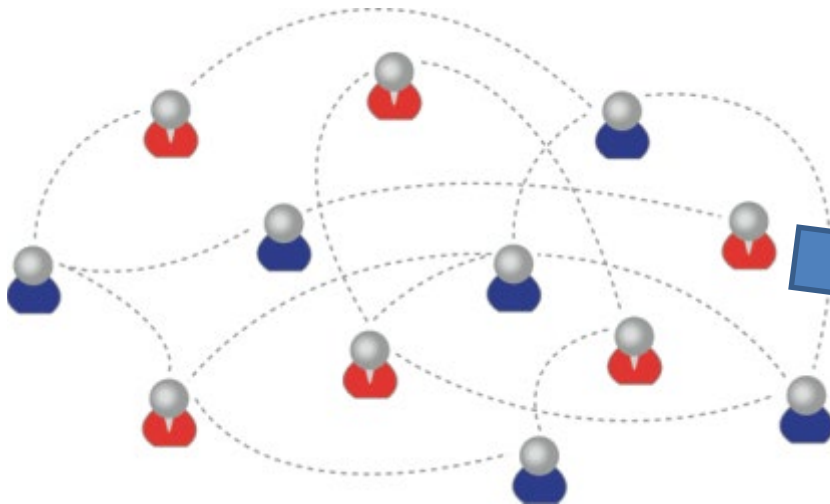
We use social networks…

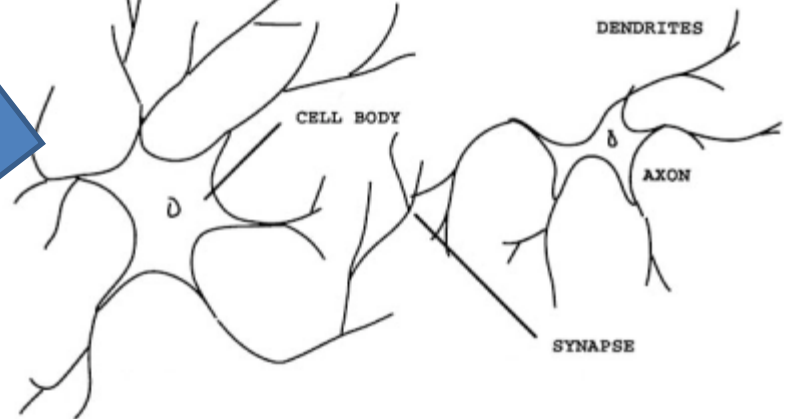Figure 1. Biological Neuron

… to create personal knowledge

Why Open Educational Resources?

Ressources Éducatives Libres

Learning activities are essentially conversations

OERs are the *words* used in those conversations

Speaking in Lolcats, Take 2: What Literacy Means in teh Digital Era

Stephen Downes
November 25, 2009

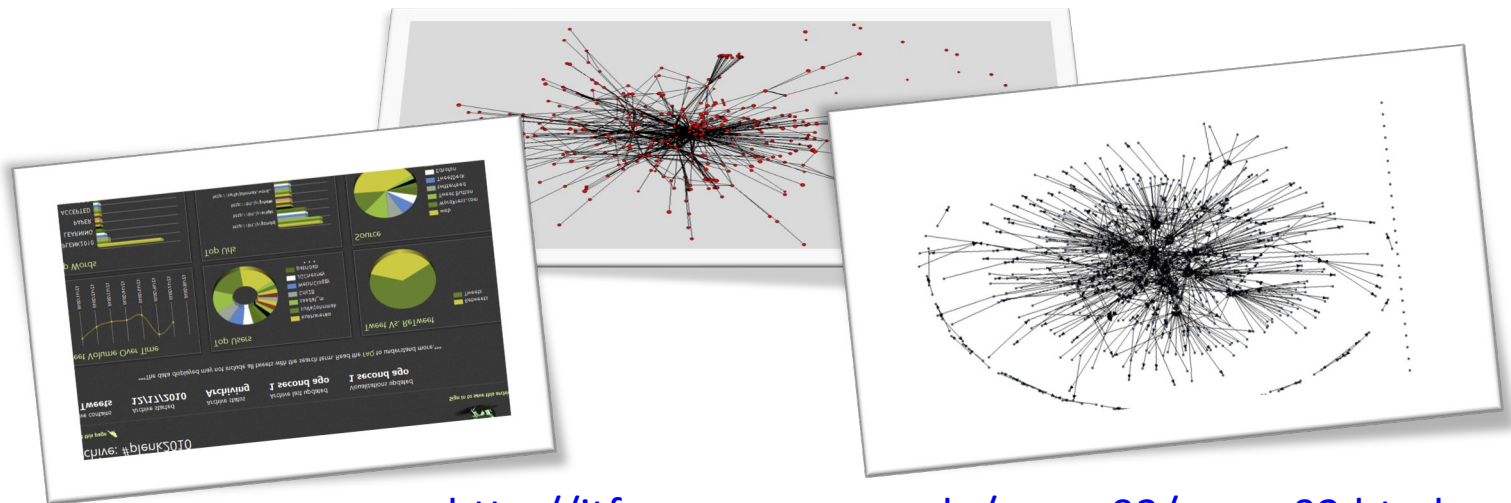http://www.downes.ca/presentation/233
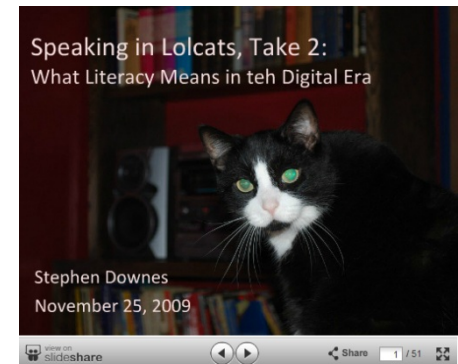
Success Factors

- What sort of decentralized network will best support learning-as-growth?

The Semantic Condition

- Autonomy, diversity, openness, interactivity
- These conditions are the conditions for a constructive dialogue…
- And are thus the design principles for a MOOC

http://itforum.coe.uga.edu/paper92/paper92.html

How to Evaluate Learning

- Learning is not possession of a collection of facts, it's the expression of a capacity

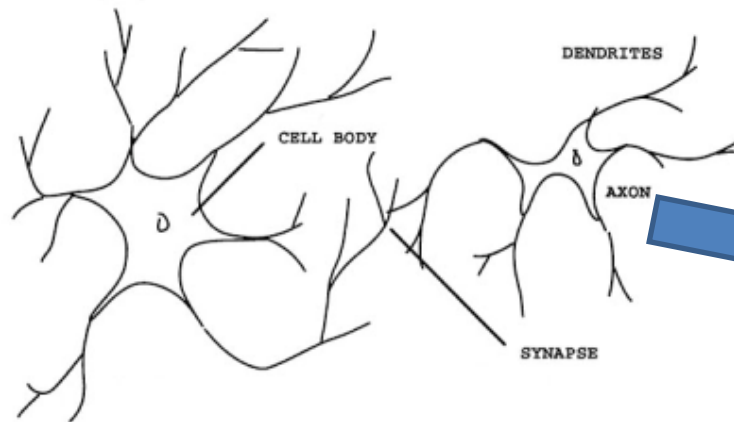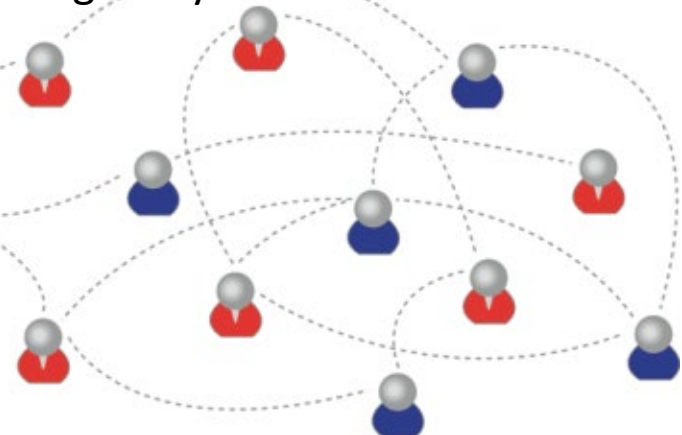- Learning is recognized by a community of experts in a network

Learning analytics

DENDRITES
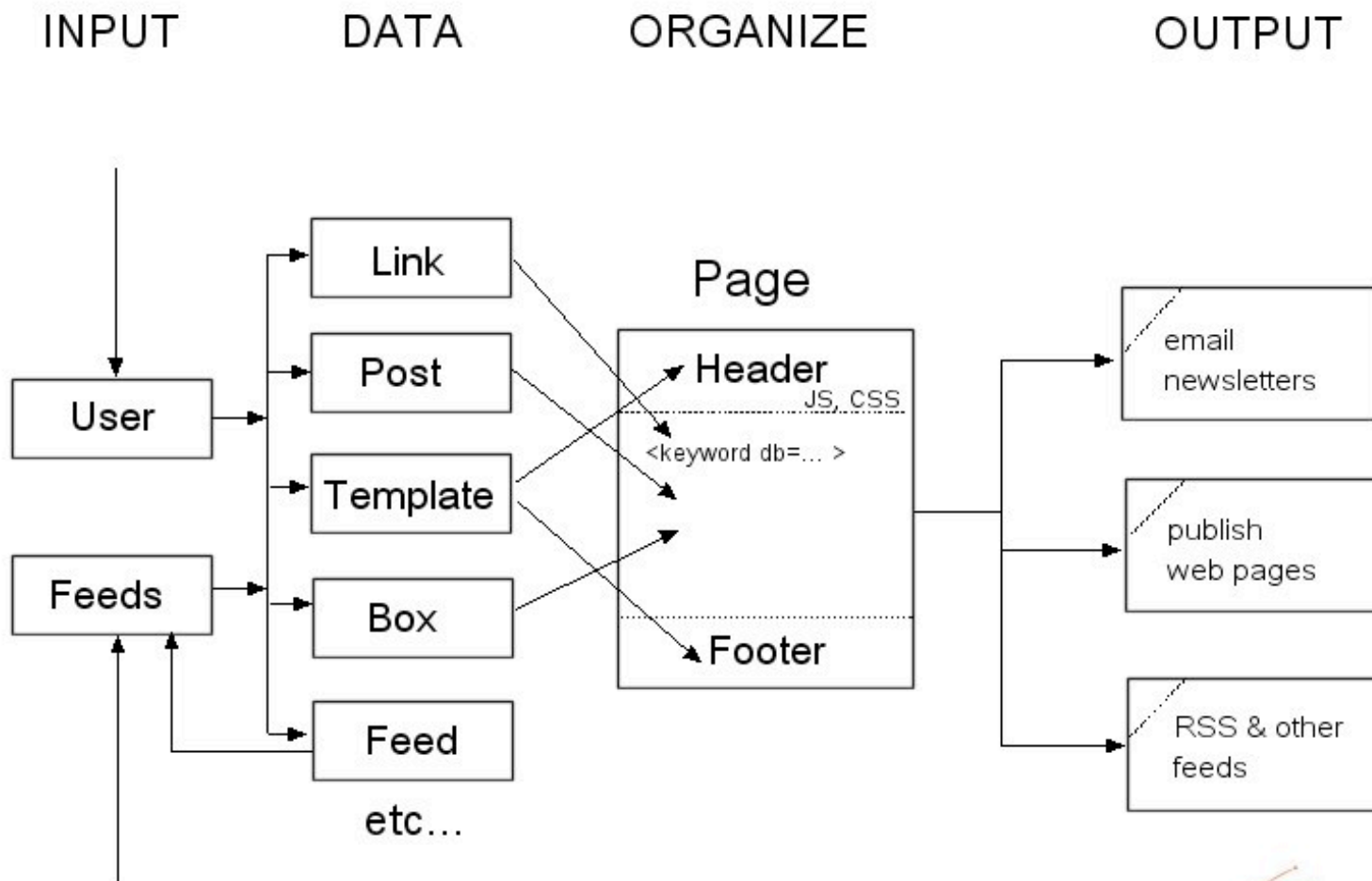
CELL BODY

AXON

SYNAPSE

Figure 1. Biological Neuron

We recognize our understandings…

…by the way we use them in our social network

Aggregated Conversations

gRSShopper

INPUT   DATA   ORGANIZE   OUTPUT

User

Feeds

Link

Post

Template

Box

Feed

etc…

Page

Header
JS, CSS
<keyword db=… >

Footer

email newsletters

publish web pages

RSS & other feeds

http://grsshopper.downes.ca

http://www.downes.ca