

Find something you have in common
Bring them around to your point of view
Make them laugh at themselves



Erin McKean

Image: http://www.imdb.com/media/rm3822688768/tt0161180

The humour is in the listener

http://halfanhour.blogspot.com/2010/09/uniqueness-and-conformity.html

Today's Topic Constraints and Conditions



Learning Networks, or Networks that Learn

Using networks to learn...

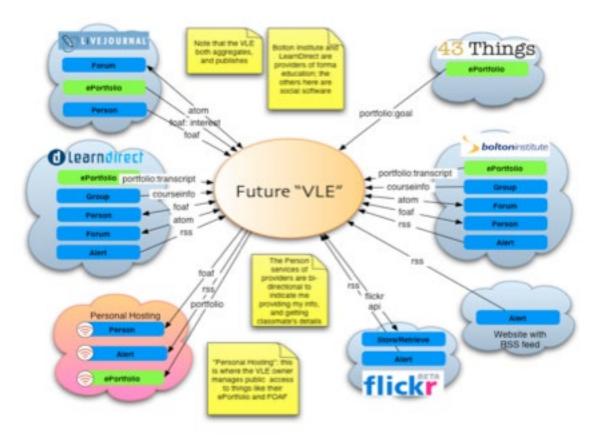


Image: http://www.cetis.ac.uk/members/ple/resources/edf.ppt

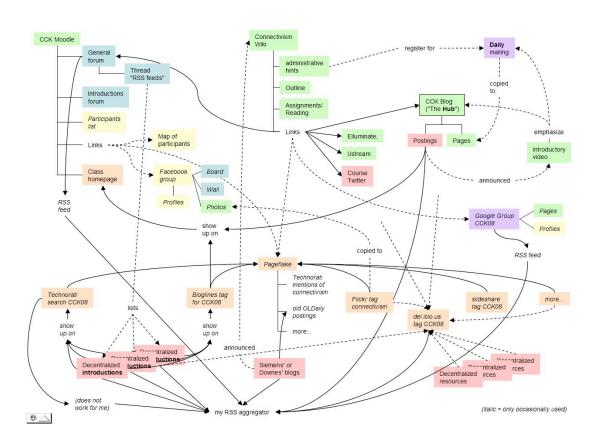
The Personal Learning Environment

http://ple.elg.ca/

An instantiation of these constraints

A distributed learning environment

The MOOC



#PLENK2010

http://connect.downes.ca/

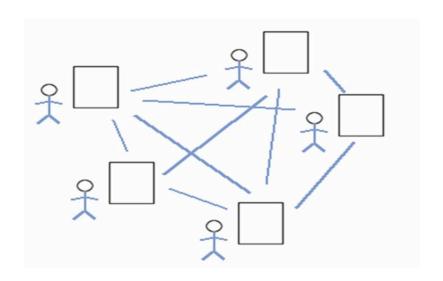
Attempting to understand using yesterday's values...

Power, trust, incentive, propagation, broadcast, messaging
What we saw were surface phenomena
That's why we saw so many maps



Yesterday

David Reed: the power of peer is in the peer Is the power of the brain in the neuron? Really?



Collective Connective Intelligence

We're trying to understand society by collecting individuals But a sand castle isn't just a pile of sand



Image: http://pixdaus.com/single.php?id=25529

Organization

http://www.downes.ca/presentation/257

Knowledge is distributed across a network of connections Learning is the ability to traverse and grow those networks



Connectivism

There is no curriculum, no body of knowledge The product of learning is the learner



Fernando Flores Emotional Fortitude

21st century skills

Image: http://www.masternewmedia.org/news/2008/06/01/making sense of new technologies.htm

Engagement and Empowerment

It's not that there's nothing to learn
But that it's complex, and needs to be navigated
Not memorized

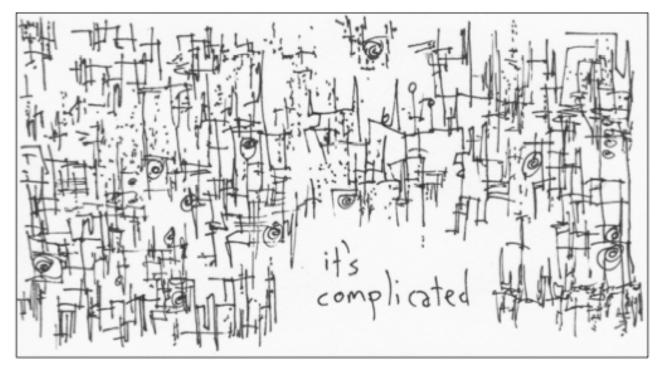


Image: http://www.gapingvoid.com/complicated128.jpg

Complexity

A tool for learning networks
It functions as a *node*Not as part of a *mass*



gRSShopper

http://grsshopper.downes.ca/

We function as nodes in the network

Aggregate, remix, repurpose, feed forward

Newmark: listen to people, repeat what they say, and then get out of the way.



http://ple.elg.ca/course/?p=18

We develop our neural net by participation in the social net That's also how we develop the social net



Learning is growth

Two kinds of knowledge Networks in general A common set of principles

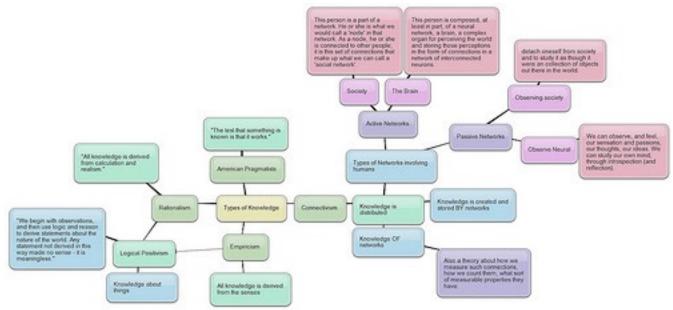
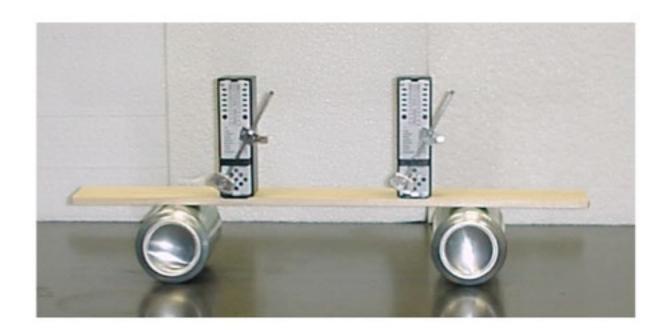


Image: http://techticker.net/2008/09/16/types-of-knowledge/

Networks, Network Theory

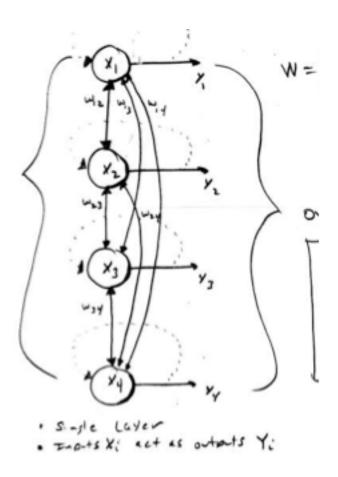
Self Organization



Metronomes

http://salt.uaa.alaska.edu/dept/metro.html
http://www.youtube.com/watch?v=W1TMZASCR-I

How networks learn = how networks form connections



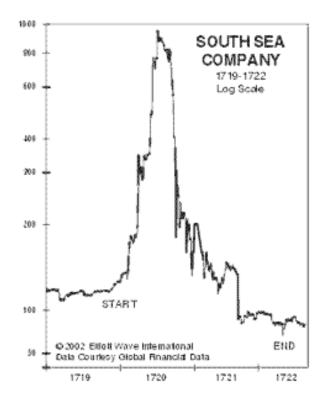
Principles of Association

Quality of network learning =

Retained and expanded capacity to form connections

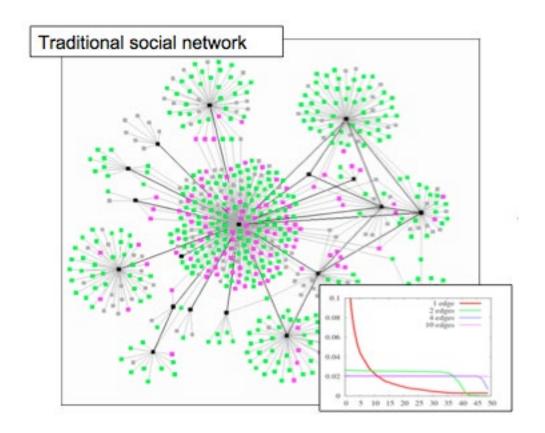
Cascade phenomena (diseases, propaganda) = network death





Cascade Phenomena

Centralized, based on influence, trust Characterized by power law, viral propagation, hierarchy

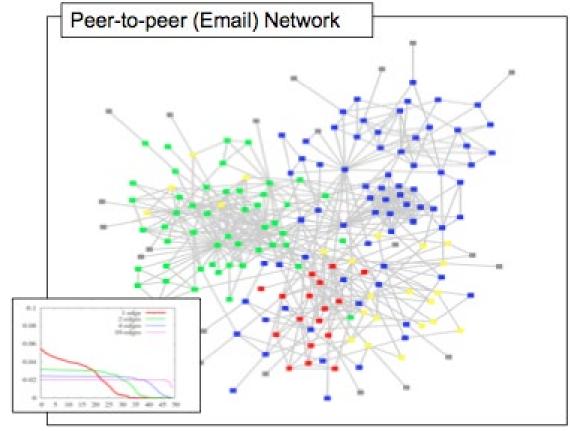


Network Structure - Tree

Distributed, discussion based

Balanced, democratic

Stable



Network Structure - Mesh

http://www.daniel-lemire.com/fr/abstracts/DIVERSITY2008.html blog/using-email-to-uncover-hidden-social-networks/

When networks are not limited by physical constraints They tend toward network death



Image: http://limitedfun.wordpress.com/category/photography/page/6/

The Limits of Scale Free

Decentralize

Distribute

Disintermediate

Disaggregate

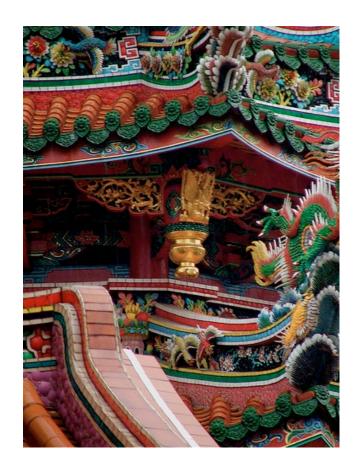
Dis-integrate

Democratize

(The Semantic Principle)

Dynamize

Desegregate



Stable (Self-Organizing) Networks

Autonomy – individual values, not collective (or corporate) values

Diversity – each person has a distinct perspective

Openness – there are fluid boundaries, no ownership or walls

Interaction – the knowledge is the network, not in the individual



Fernando Flores
Pluralistic Networks

The Semantic Principle

http://www.flickr.com/photos/stephen_downes/252157734/

These values are not just abstract

They represent a shift in business values from ownership and control to stewardship, agility and stability

They should inform everything from management practices to software purchases



Your Business Takeaway

http://www.downes.ca



Stephen Downes