

A large, leafy tree with a thick trunk and a black wrought-iron fence in the foreground. The tree's branches are spread out, and the leaves are a vibrant green. The fence is made of vertical bars with decorative finials. In the background, a building and a car are partially visible through the foliage.

Stephen Downes

AMEE 2015

Glasgow, Scotland

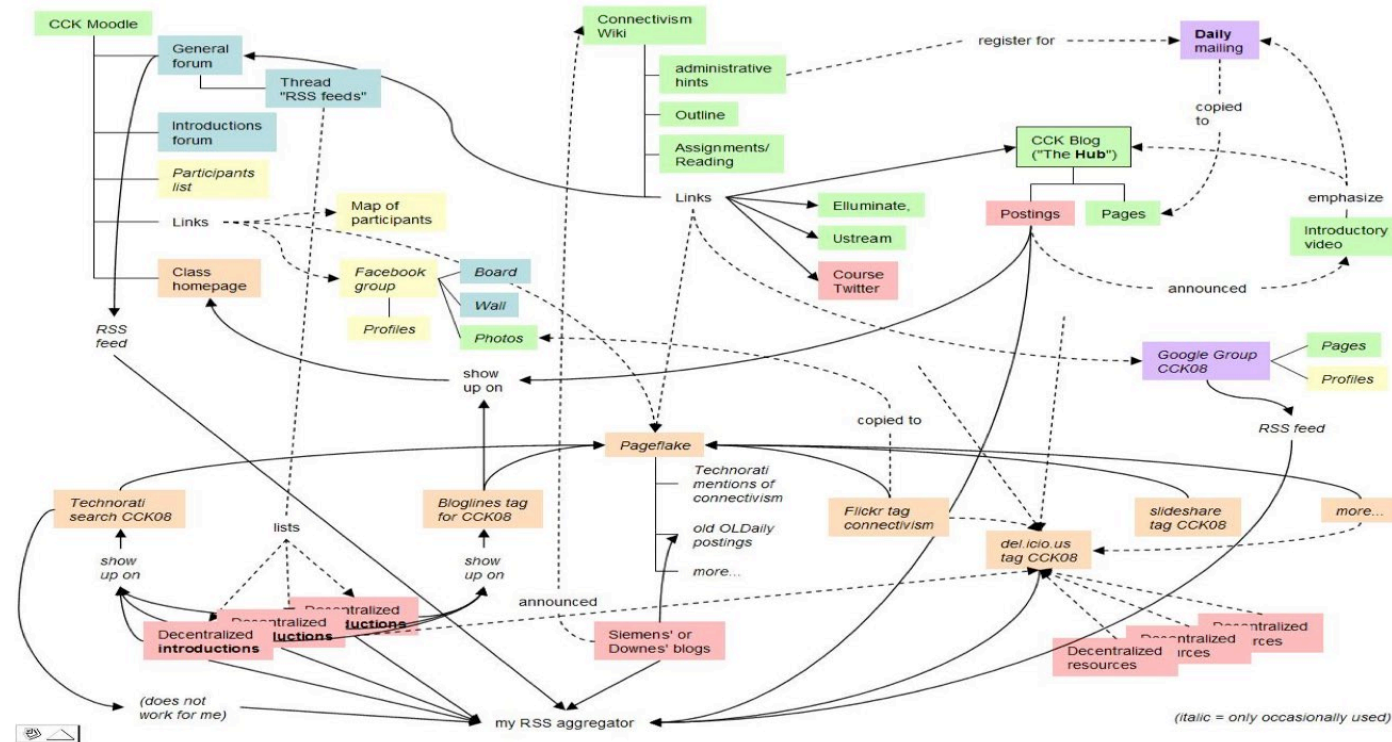
September 6, 2015

The MOOC Ecosystem



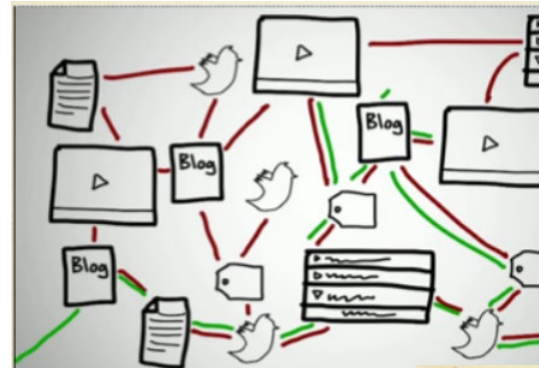
Ray Eames, 1977

[http://www.eamesoffice.com/the-work/powers-of-ten /](http://www.eamesoffice.com/the-work/powers-of-ten/)



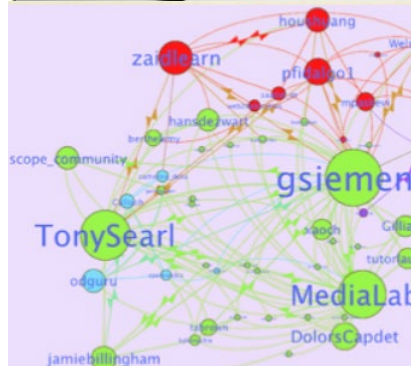
2,000

MOOC



- ALL CATEGORIES
- VIA MOBIMOOC TEXT MESSAGE
- TWITTER #MOBIMOOC
- VIA MOBIMOOC CALL
- VIA MOBIMOOC EMAIL
- VIA CROWDMAP WEBSITE
- PROJECT: GOATIN (MANITOBA, CA)
- VIA SMARTPHONE APP
- PROJECT: SEAN ABAJIAN FIELD TESTS MLEARNING (LOS ANGELES, US)

Inge de Waard



The madness and mayhem of DS106



20,000

Series of MOOCs



INTRODUCTION TO Artificial Intelligence

In partnership with STANFORD ENGINEERING

Course Discussion Progress Information Profile

Next

- Available units:
- 1. Welcome to AI
 - 2. Problem Solving
 - Homework 1(closed)
 - 1. Peg Solitaire ?
 - 2. Loaded Coin ?
 - 3. Maze ?
 - 4. Search Tree ?
 - 5. Search Tree 2 ?
 - 6. Search Network ?
 - 7. A* Search ?
 - 3. Probability in AI
 - 4. Probabilistic Inference

Correct!

A* SEARCH

	1	2	3	4	5	6
a	4	4	4	3	2	1
b	3	3	3	3	2	1
c	2	2	2	2	2	1
d	1	1	1	1	1	0

start

goal

ADMISSABLE ?
YES NO

FIRST NODE TO EXPAND
b1 a2

SECOND NODE TO EXPAND
b1 c1 a2 a3 b2

THIRD NODE TO EXPAND
d1 c2 b3 e4

Next

200,000

xMOOC



2,000,000

The Early MOOCisphere

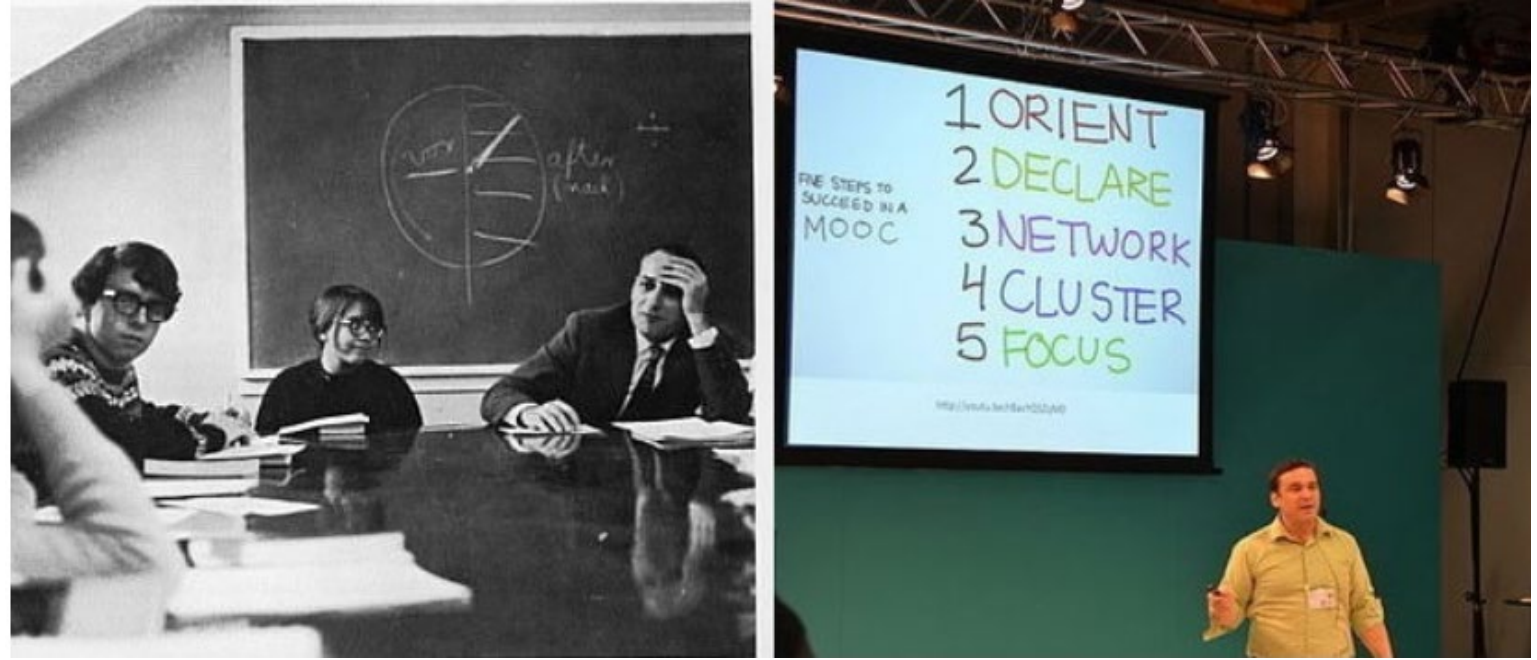


Image: https://www.dissentmagazine.org/online_articles/the-new-mooc-strategy-rise-of-the-higher-ed-empires

20,000,000

National MOOC Strategy



Image: <http://culture-communication.fr/en/what-is-the-point-of-a-mooc-for-an-arts-organization/>

200,000,000

MOOC and Culture

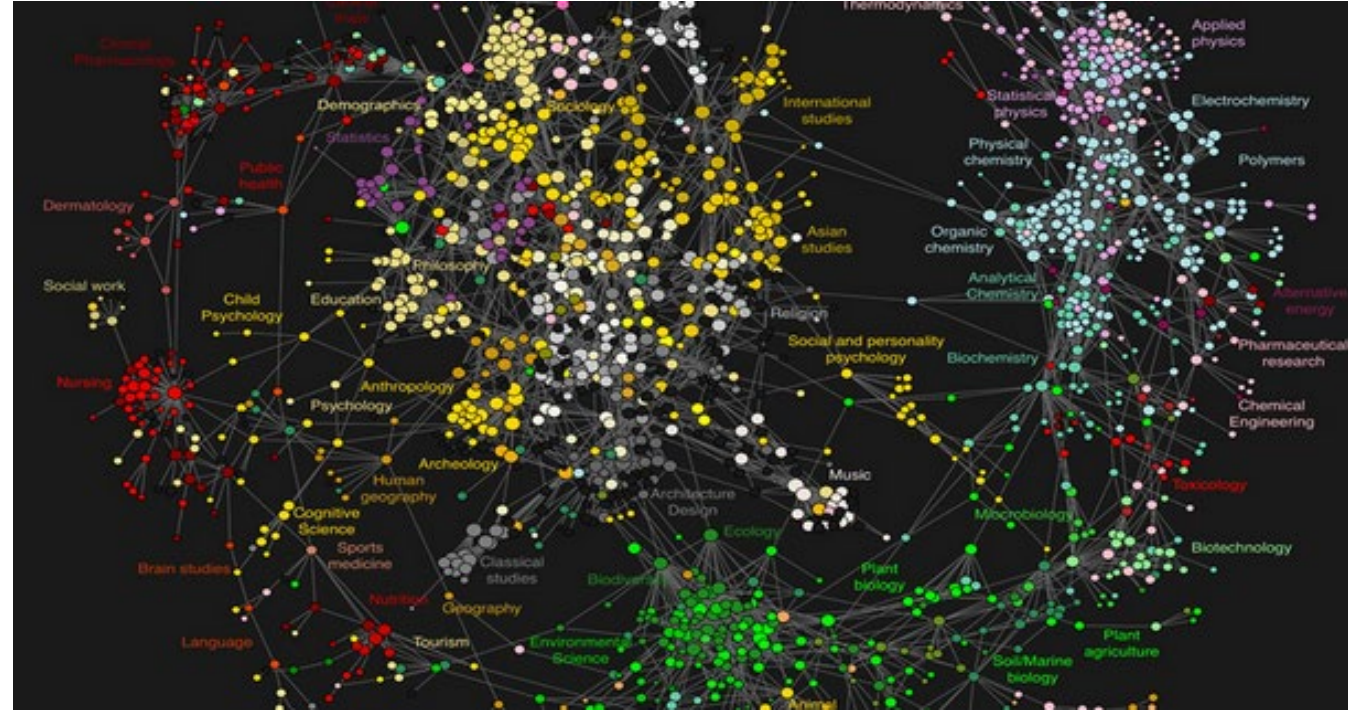
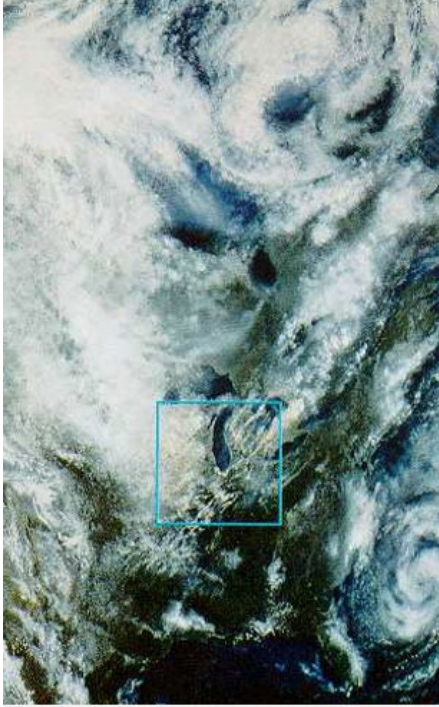


Image: <http://blog.physicsworld.com/2009/03/12/the-atlas-of-science/>

2 billion

MOOC World

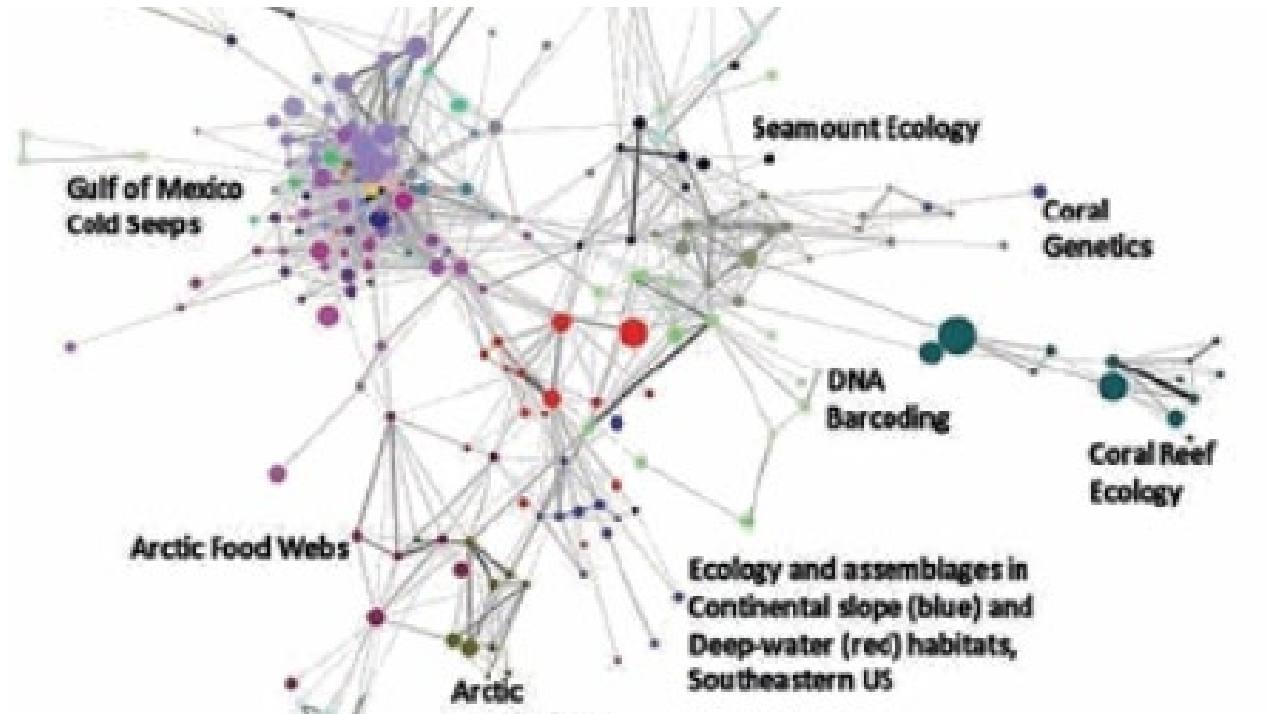


Image: <http://www.infotoday.com/online/may12/Belter-Visualizing-Networks-of-Scientific-Research.shtml>

200,000,000

Open Resource Network

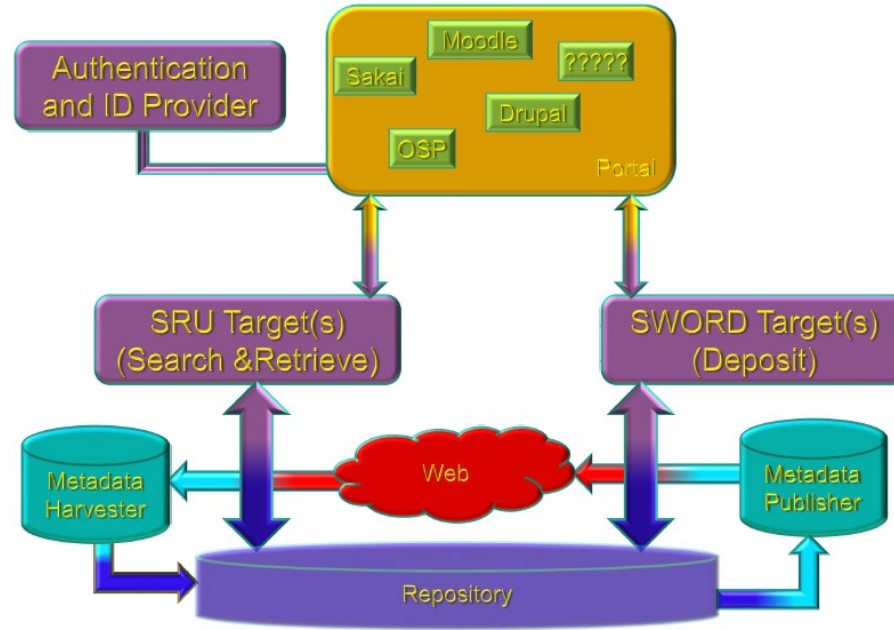


Image: https://www.dissentmagazine.org/online_articles/the-new-mooc-strategy-rise-of-the-higher-ed-empires

20,000,000

National Repositories

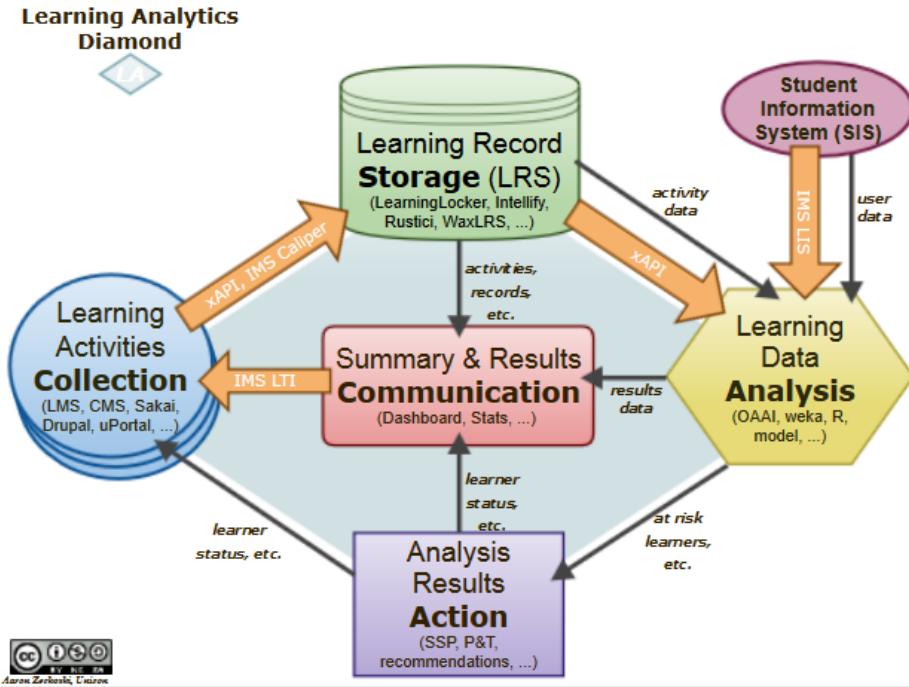
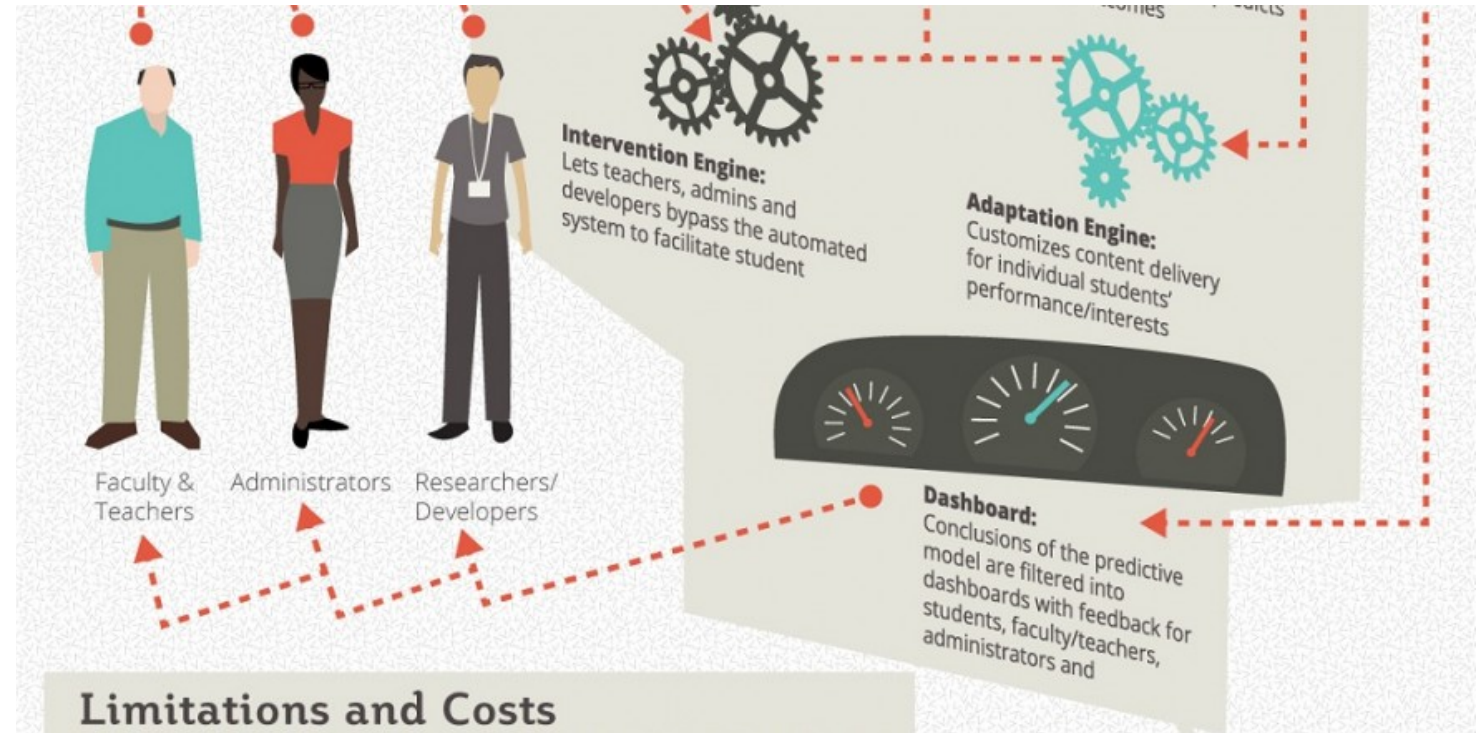


Image:<https://confluence.sakaiproject.org/pages/viewpage.action?pageId=92176618>

2,000,000

Collections and Systems



200,000

Learning Analytics

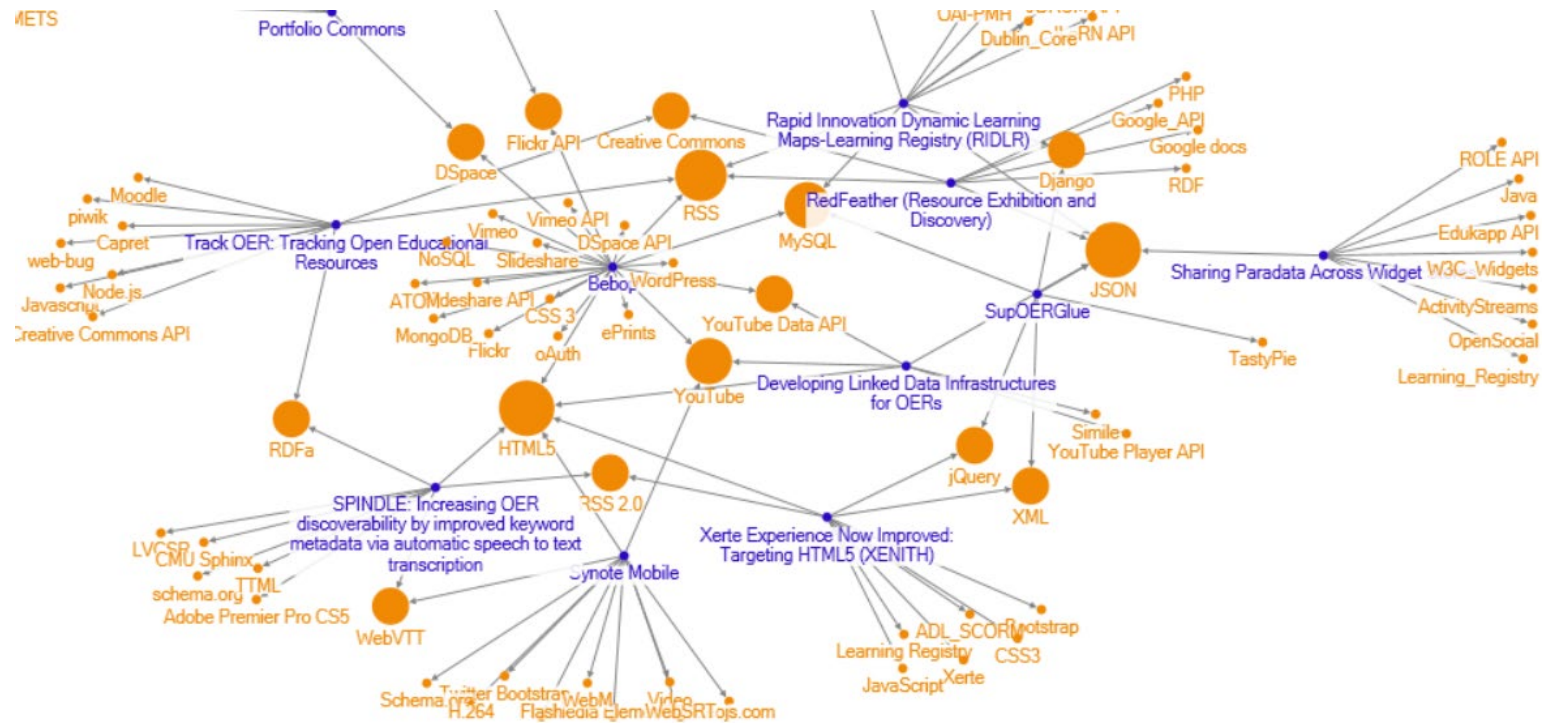


Image: <https://mashe.hawksey.info/2012/10/jisc-oer-rapid-innovation-finding-the-technologystandards-themes/>

20,000

Community of Practice

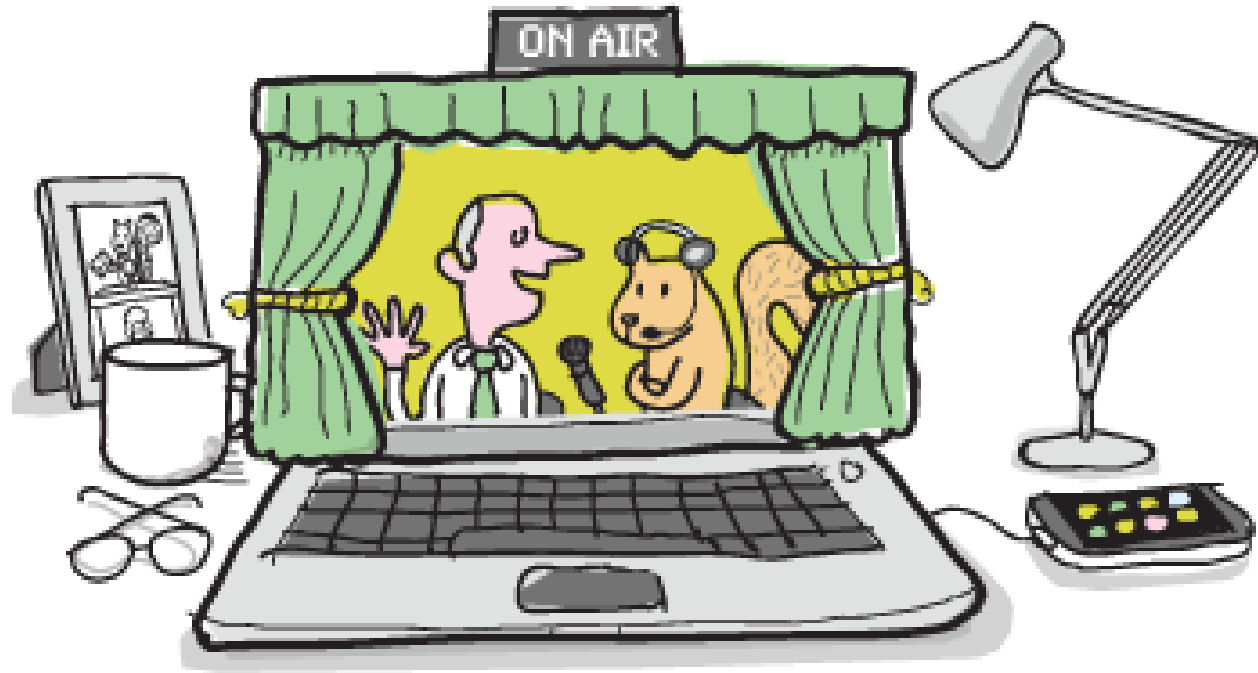


Image: <http://www.learningtimes.com/what-we-do/online-learning-services/cstp-level1/>

2,000

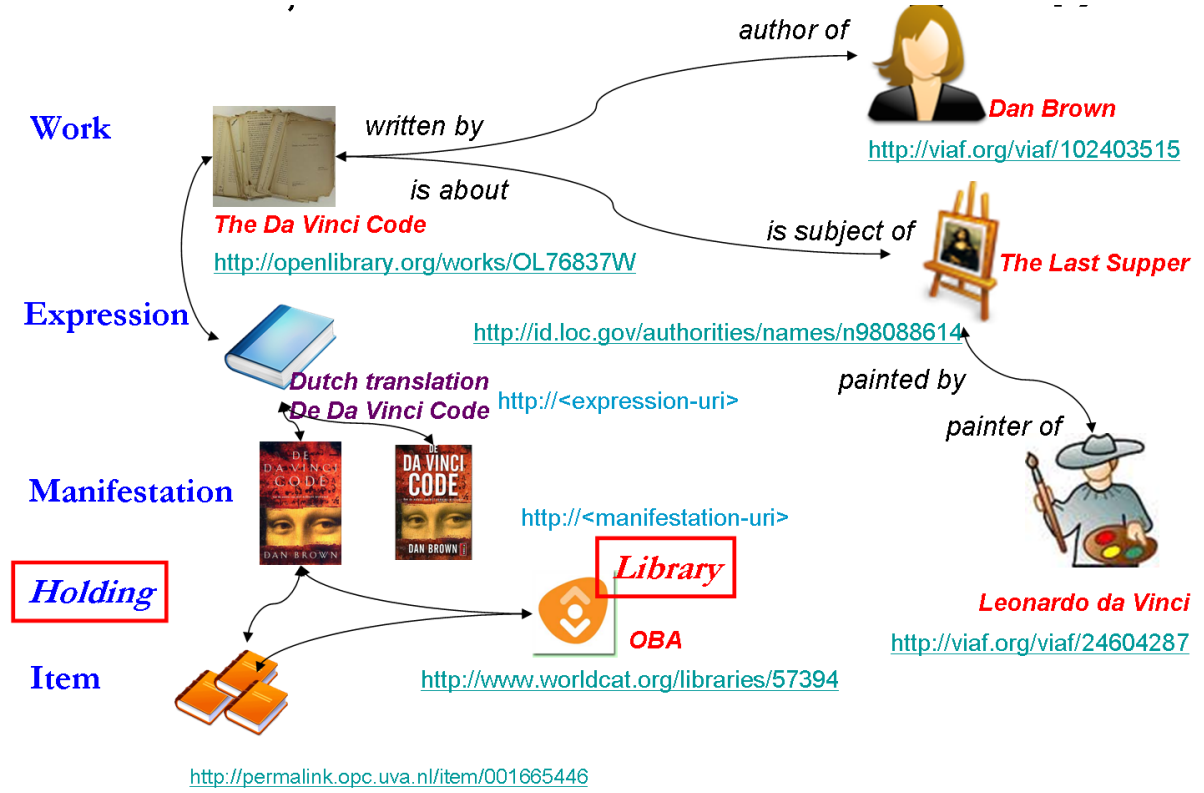
Synchronous Event

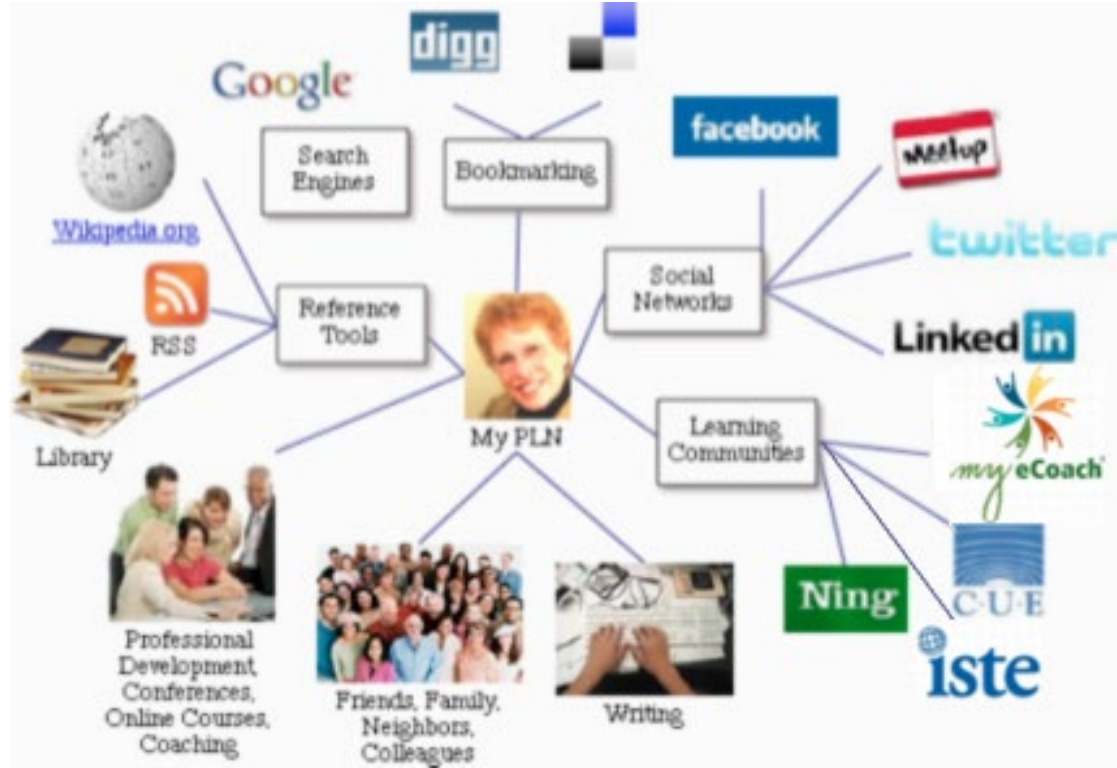


Image: <http://www.learningtimes.com/what-we-do/online-learning-services/cstp-level1/>

200

Dunbar's Number(ish)





2

You (and a Friend)



Pattern of the moment

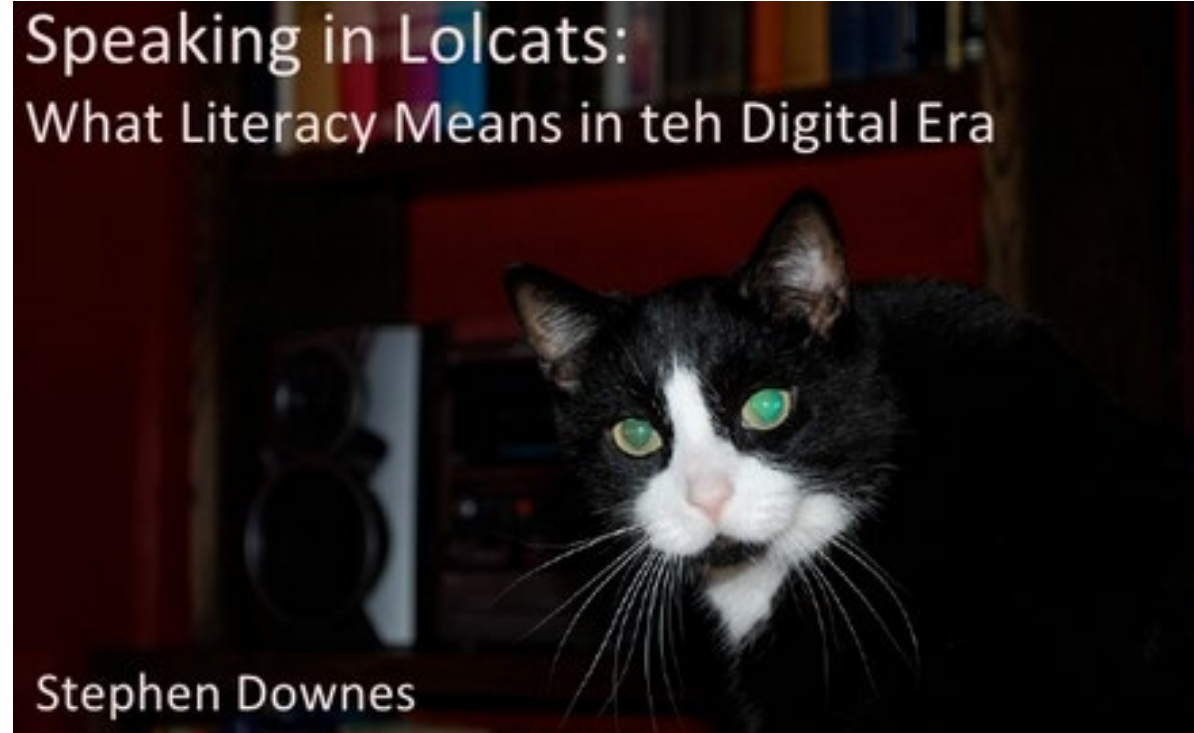
Patterns overview [220]

View patterns as **Thumbnails**

Distance Measurement

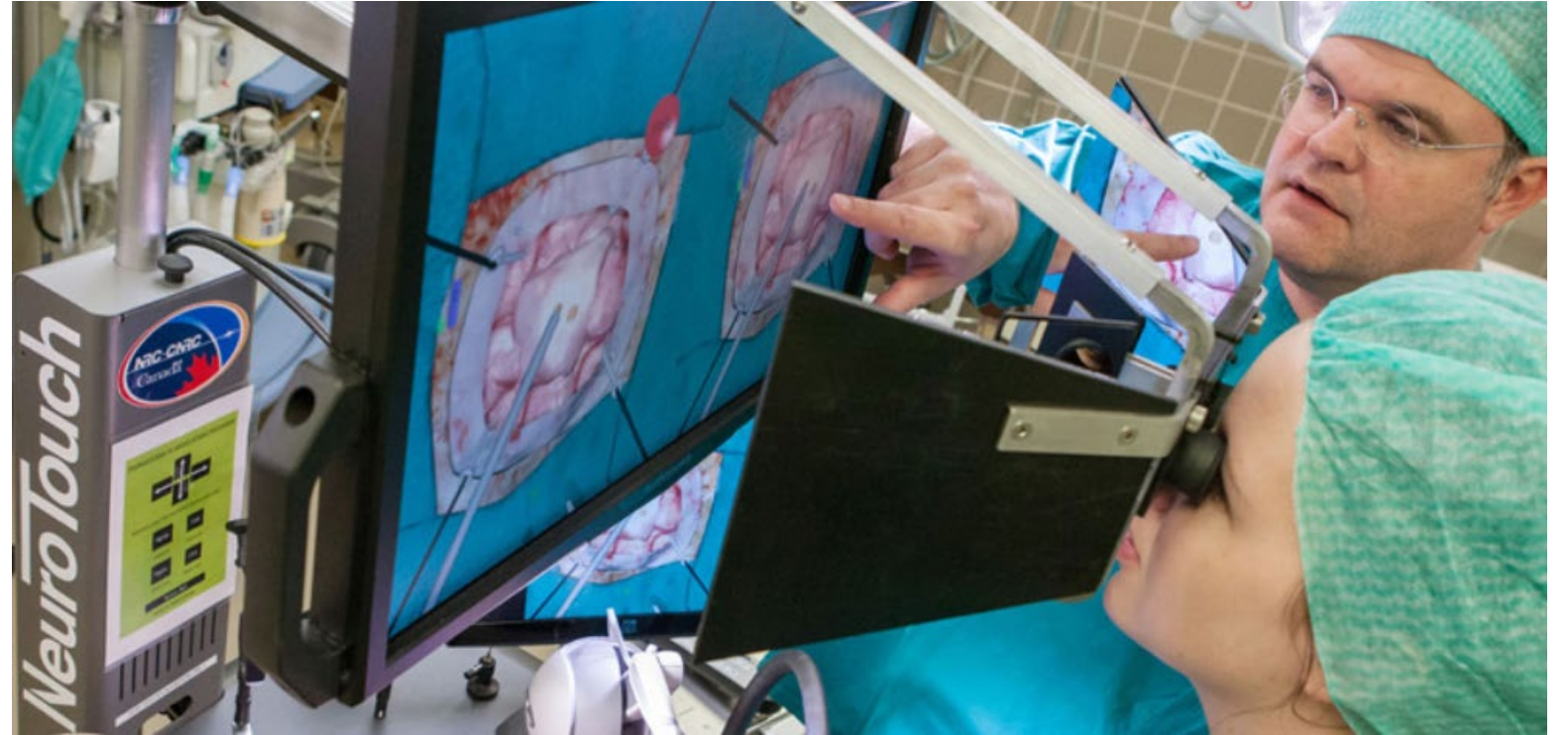
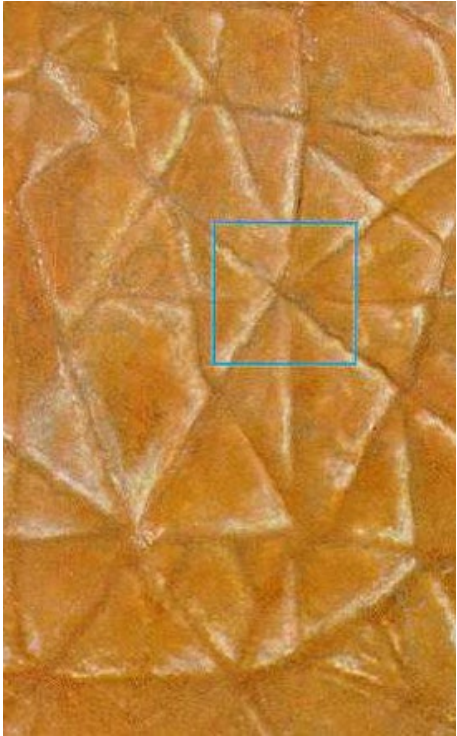
0.2

Interfaces



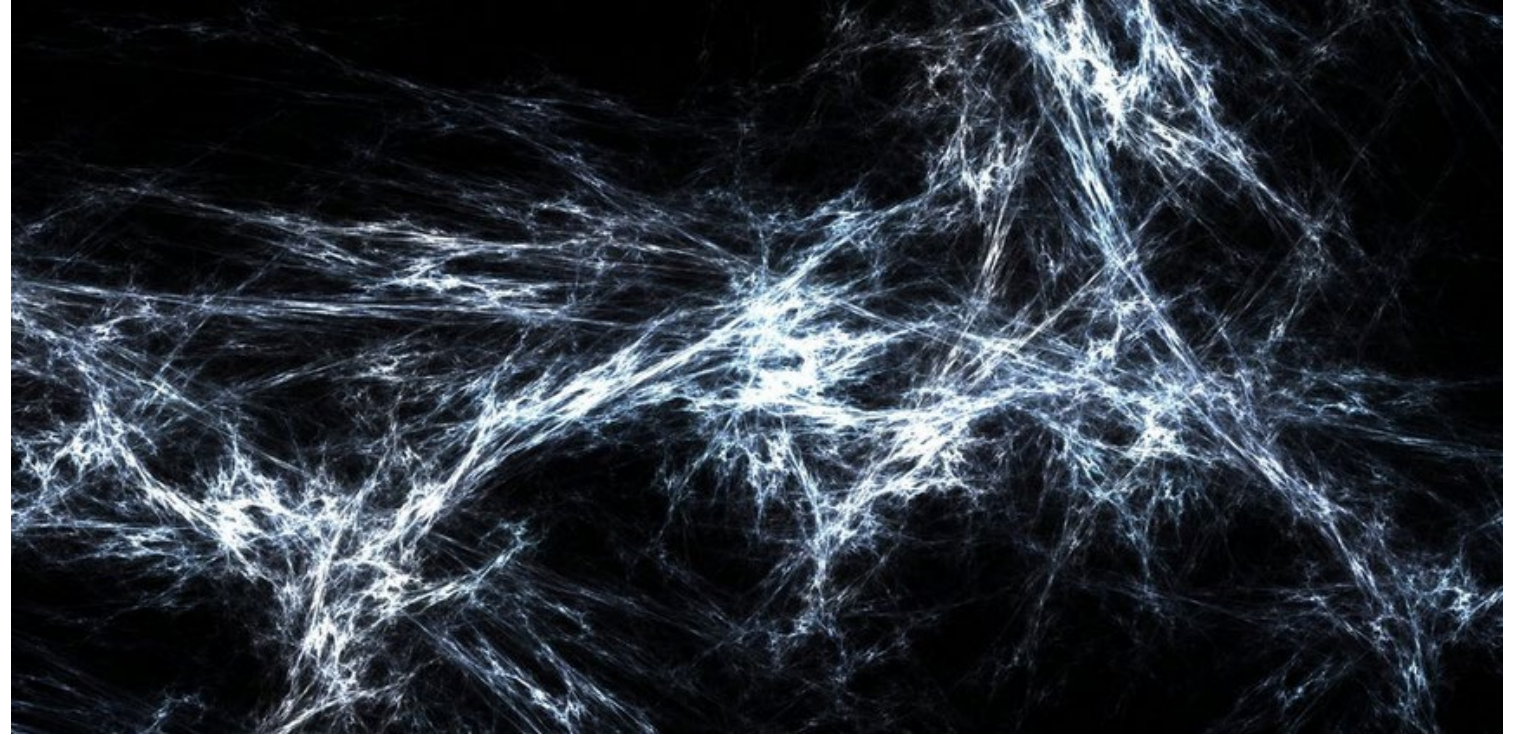
0.02

Language and Text



0.002

Touch



0.0002

Neural Network

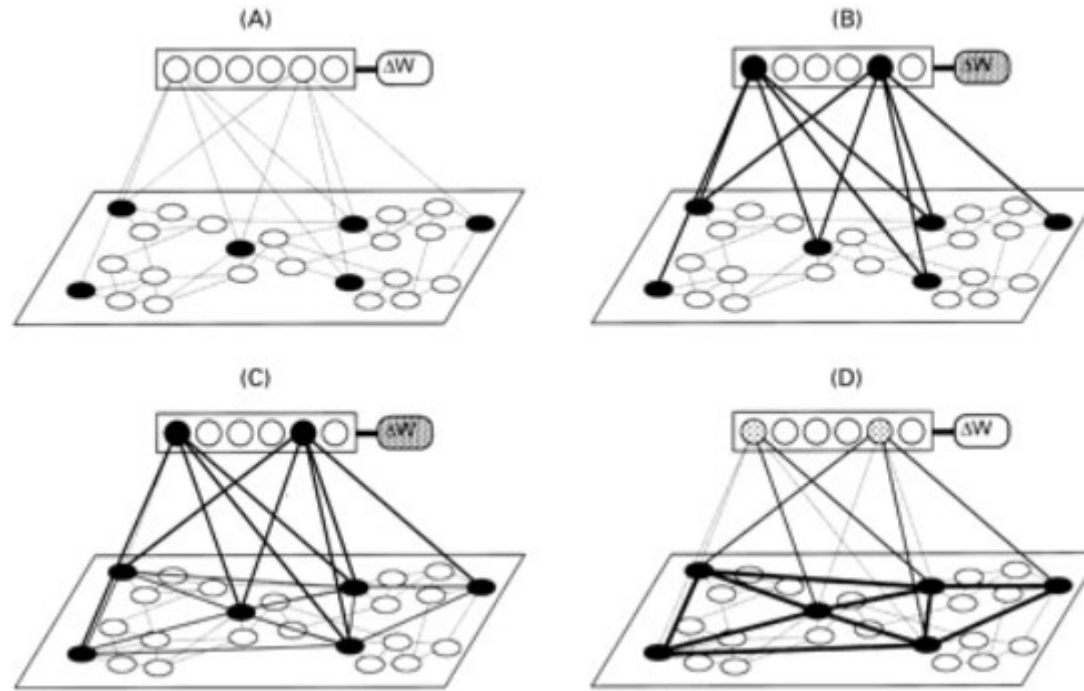
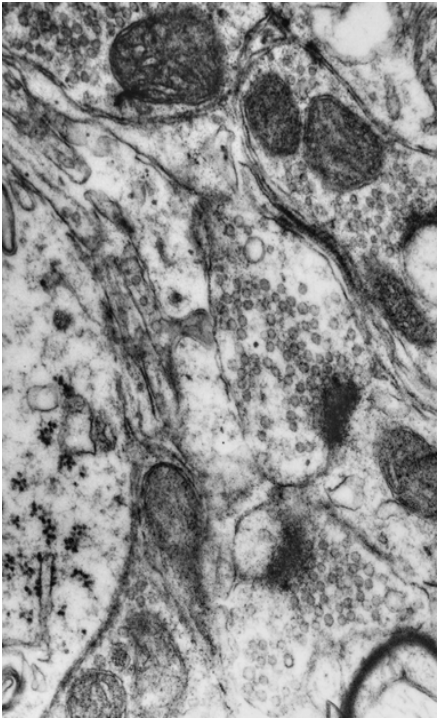


Image: <http://brain.oxfordjournals.org/content/124/4/647>

0.00002

Synapse

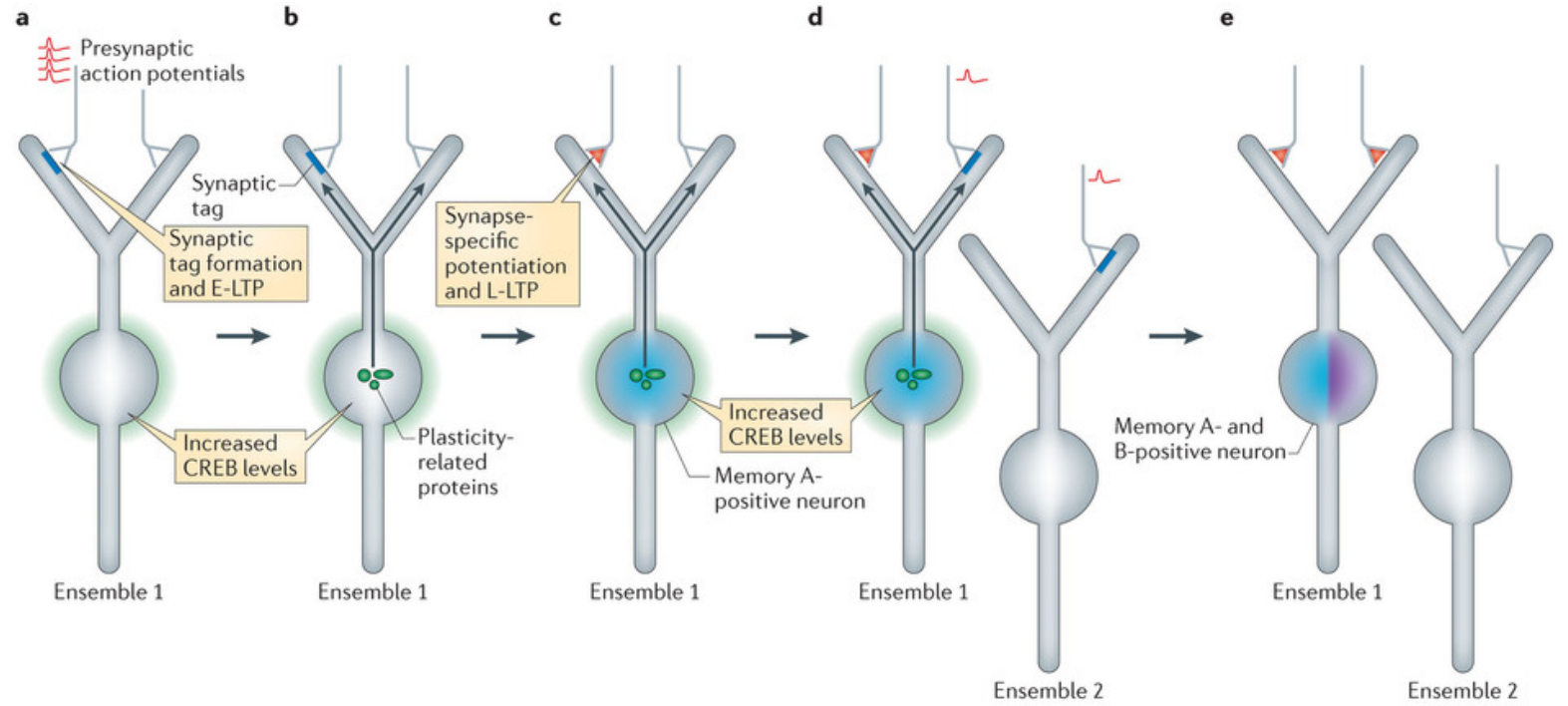
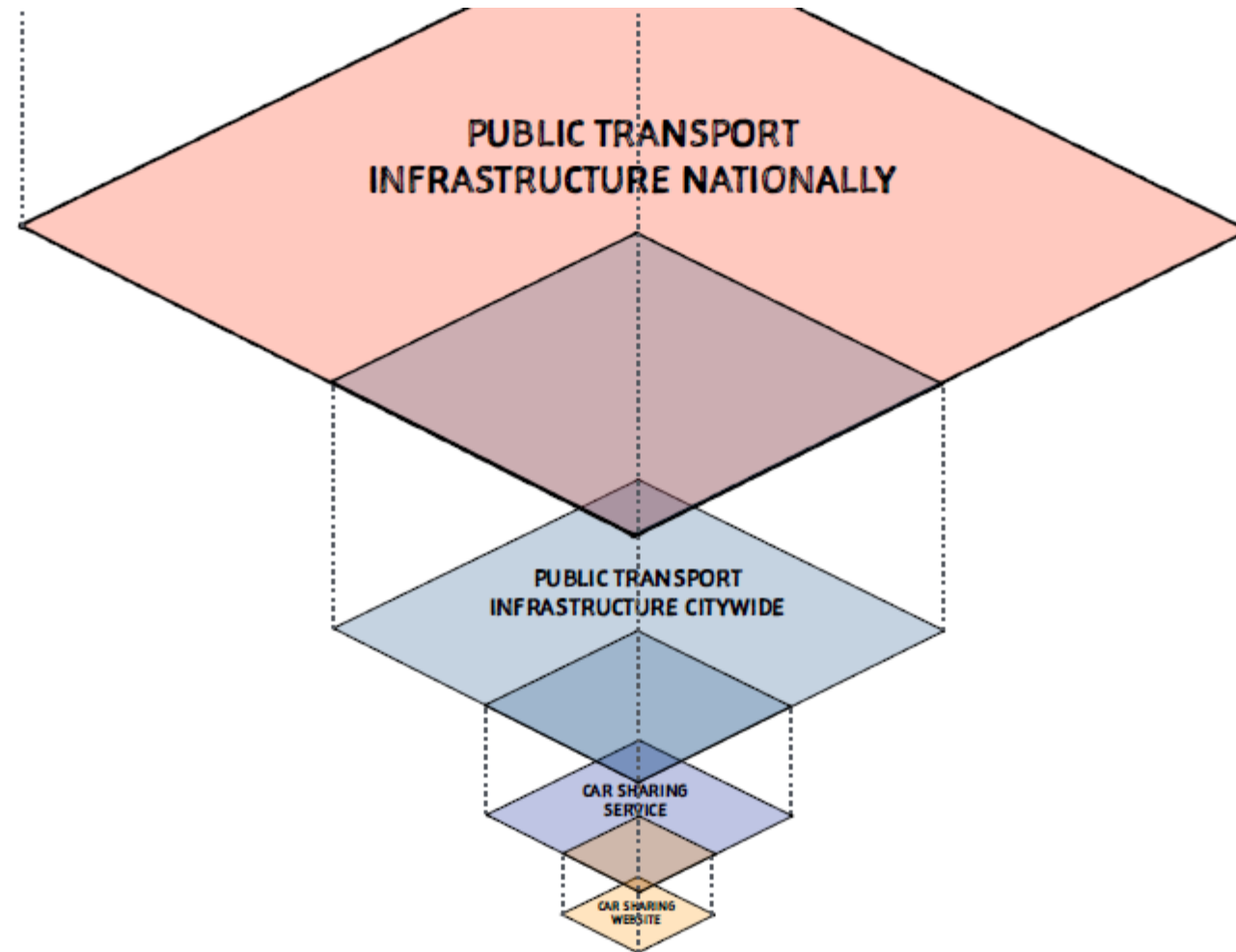


Image: <http://www.slideshare.net/jamiehworke/nervous-system-3-32538833>

0.000002

Bit

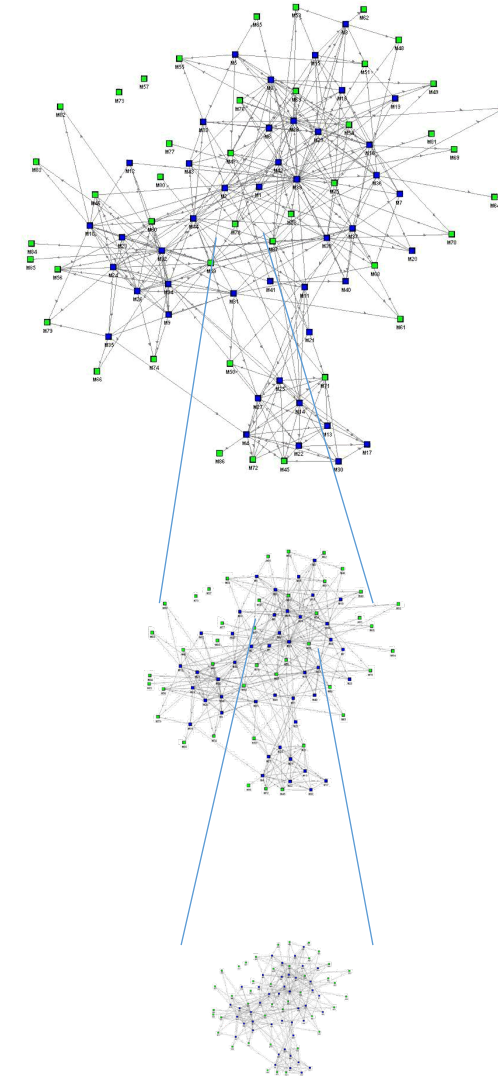
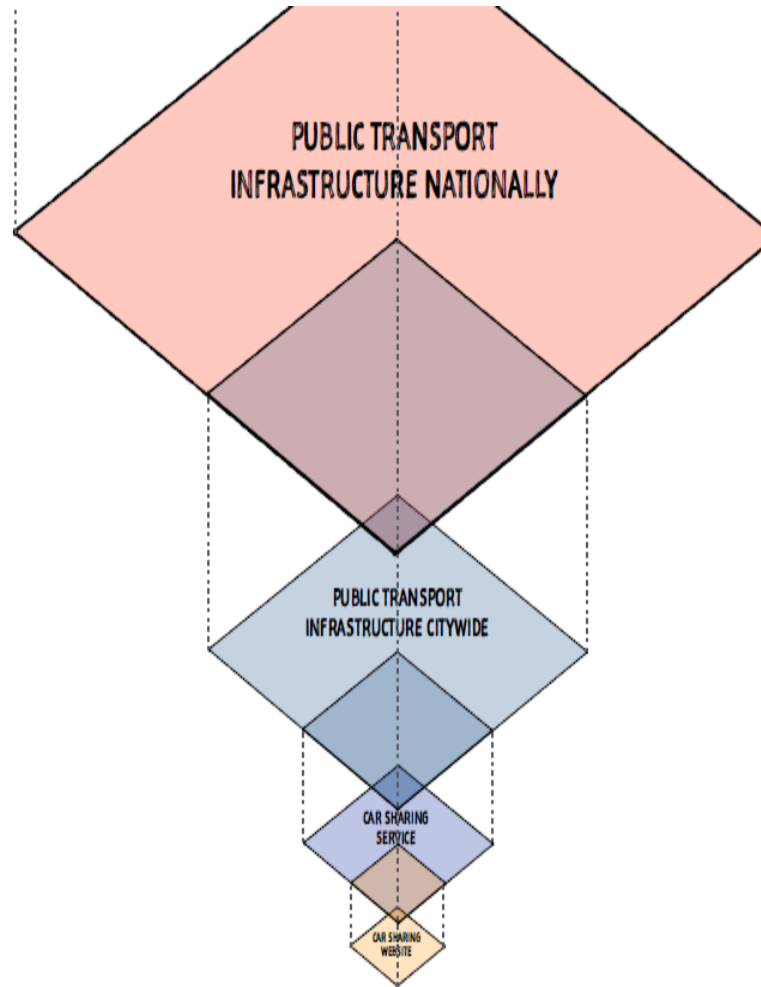
Lessons



Zooming out increases area of complexity, not just the level

Andy Polaine: <http://www.slideshare.net/apolaine/design-to-the-power-of-ten>

Levels



Zooming out increases area of complexity, not just the level

Andy Polaine: <http://www.slideshare.net/apolaine/design-to-the-power-of-ten>

~~Quine's~~
Downes's

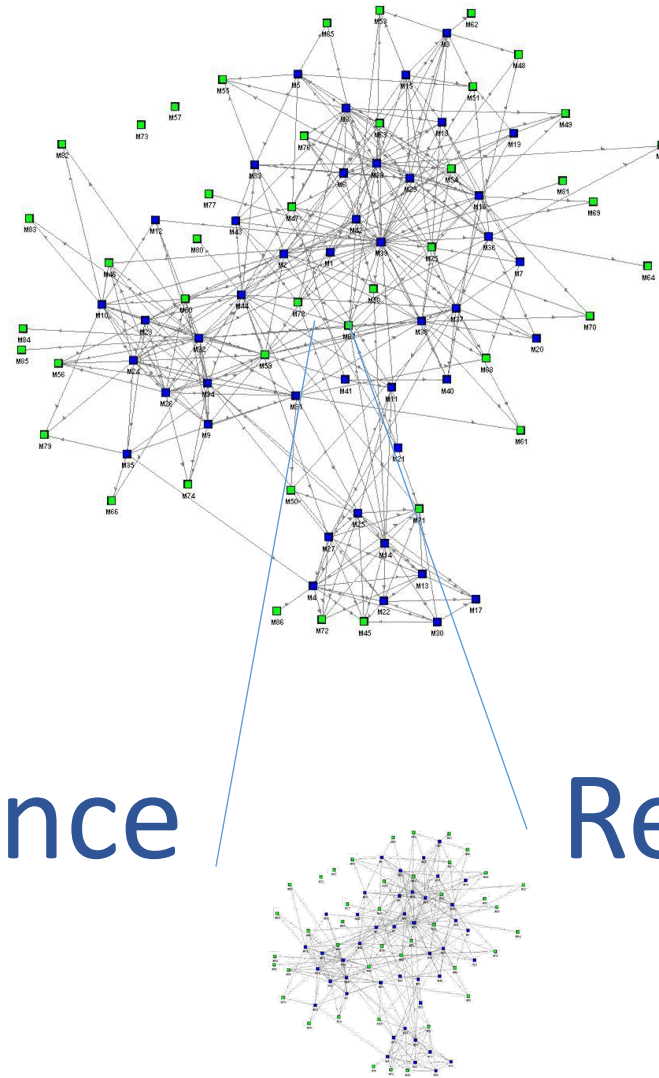
Two Dogmas of ~~Empiricism~~
Educationism

1. Reductionism is False
2. No Analytic-Synthetic Distinction

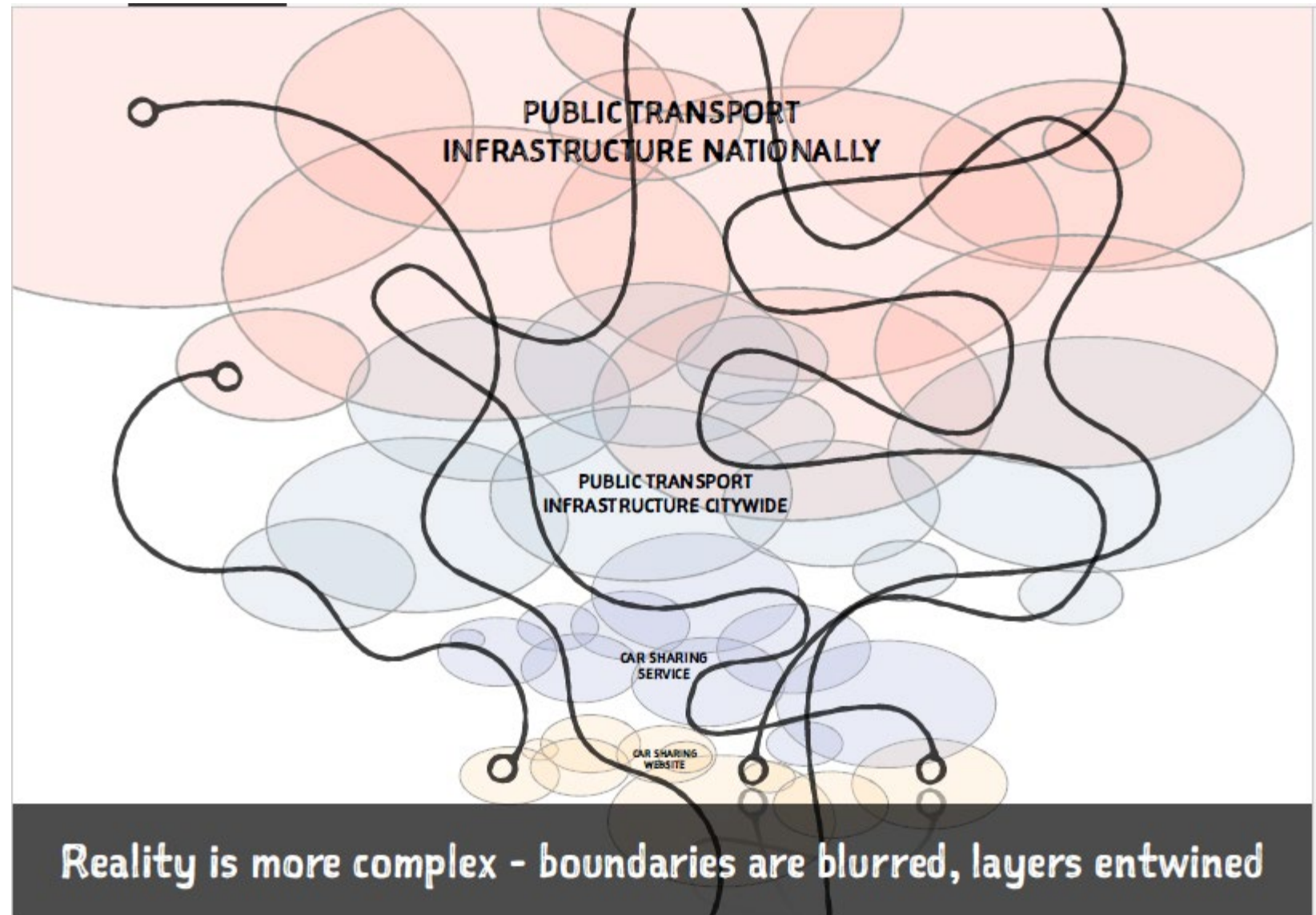
Cognition

Emergence

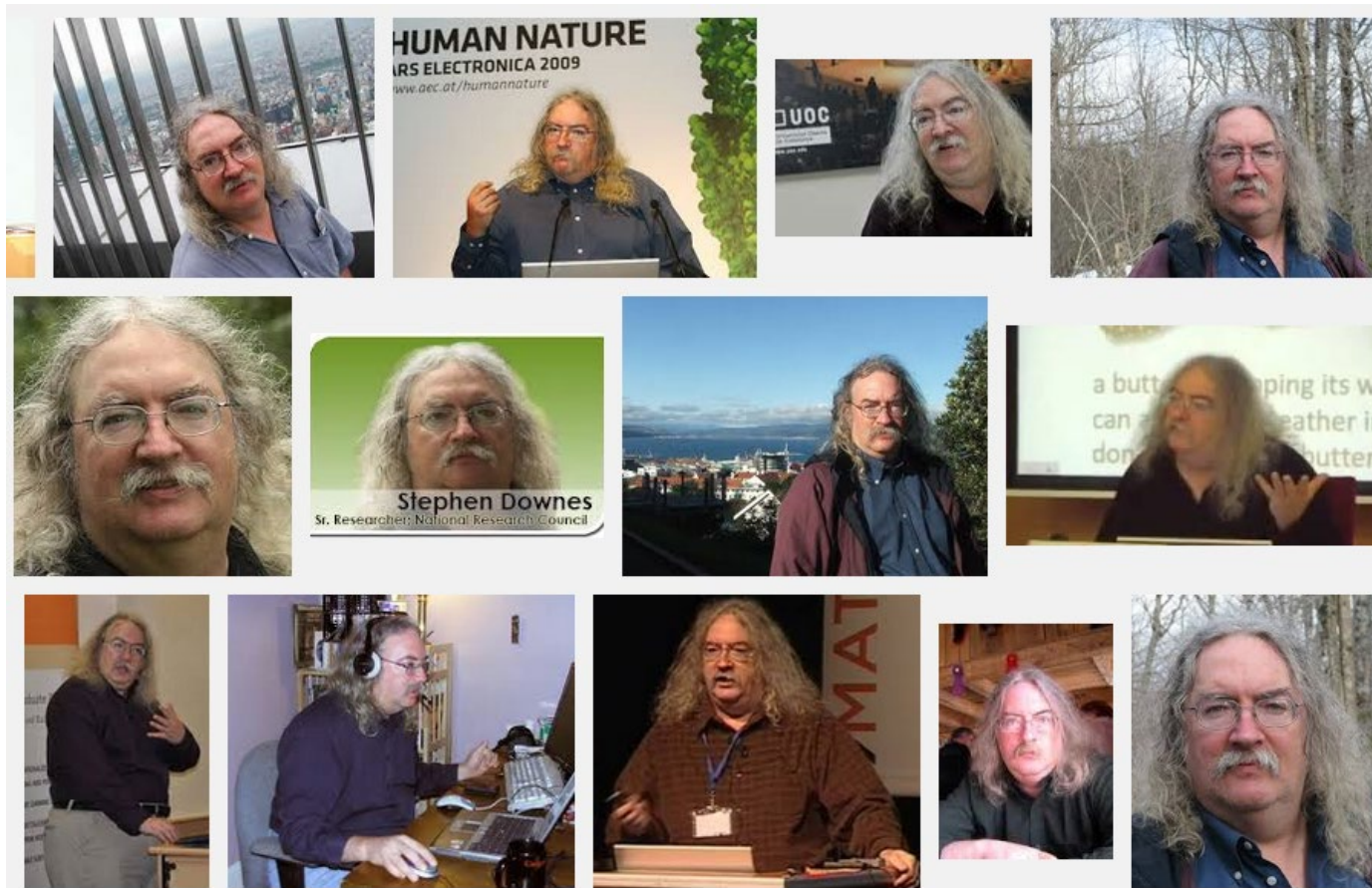
Recognition



Complex



Andy Polaine: <http://www.slideshare.net/apolaine/design-to-the-power-of-ten>



Stephen Downes
<http://www.downes.ca>