

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

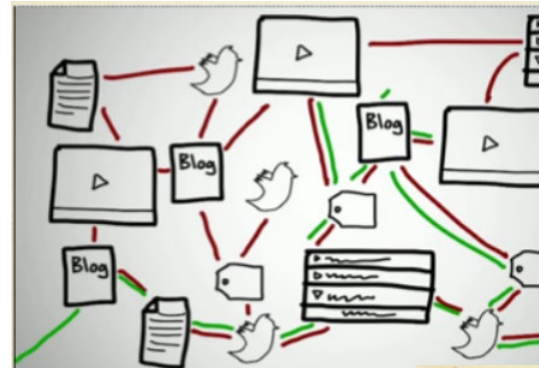




Ray Eames, 1977

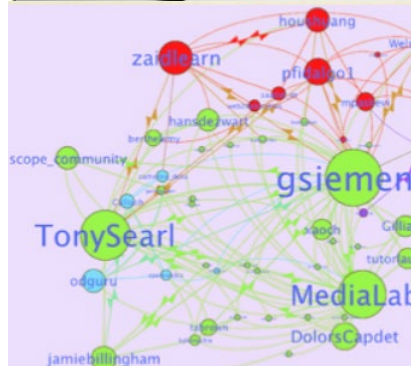
[http://www.eamesoffice.com/the-work/powers-of-ten /](http://www.eamesoffice.com/the-work/powers-of-ten/)





- 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

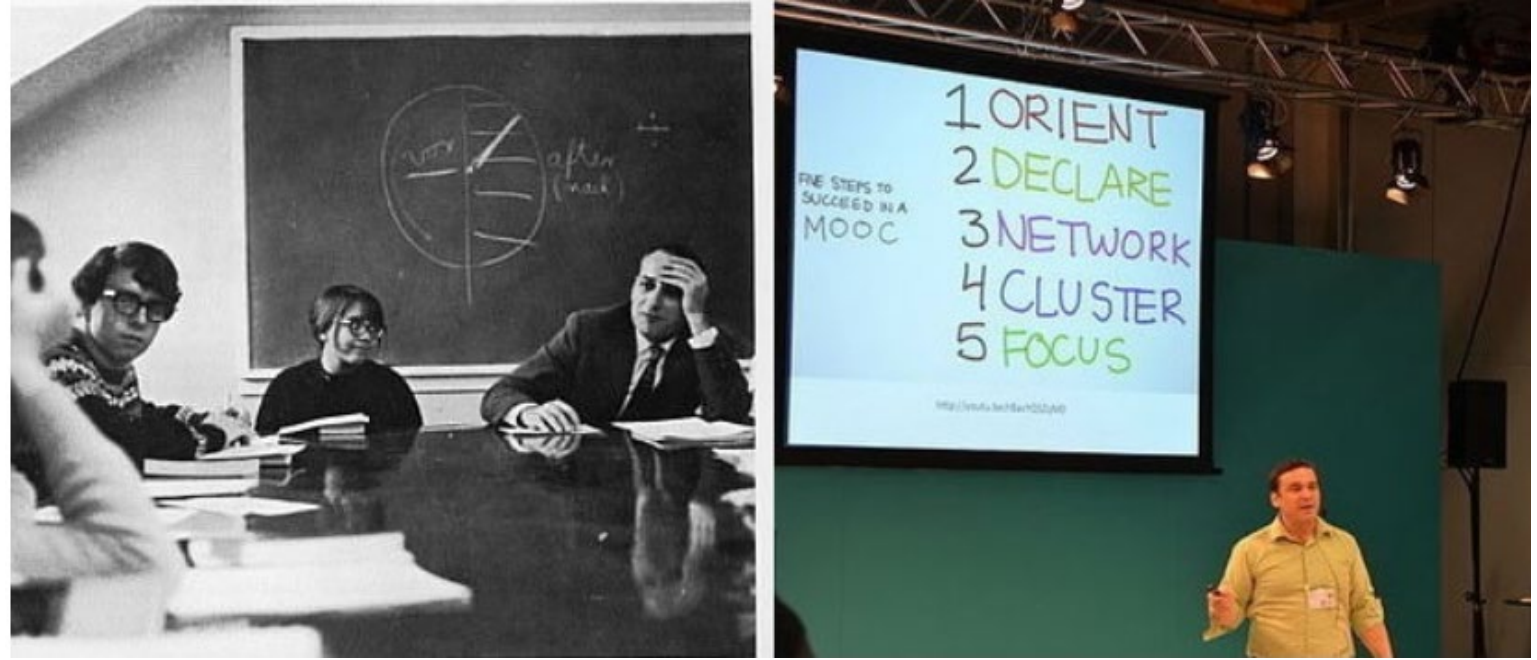


Image: [https://www.dissentmagazine.org/online\\_articles/the-new-mooc-strategy-rise-of-the-higher-ed-empires](https://www.dissentmagazine.org/online_articles/the-new-mooc-strategy-rise-of-the-higher-ed-empires)

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



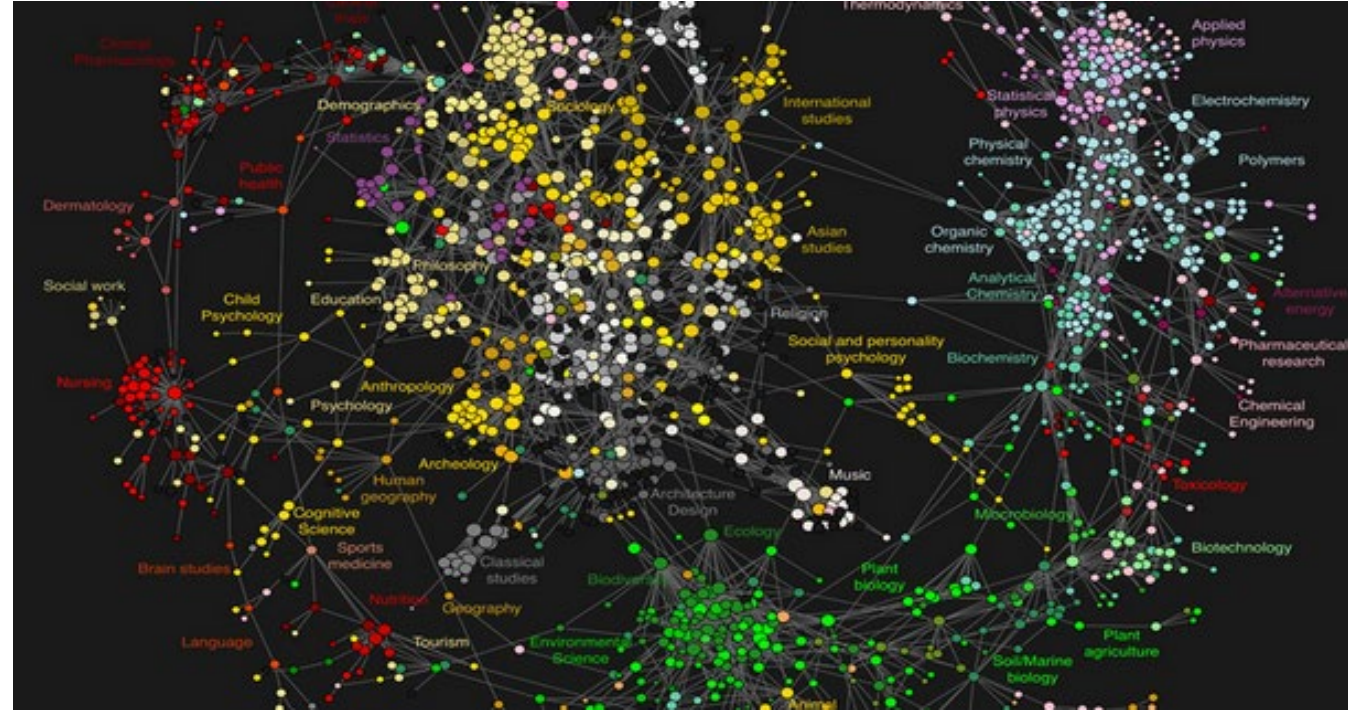
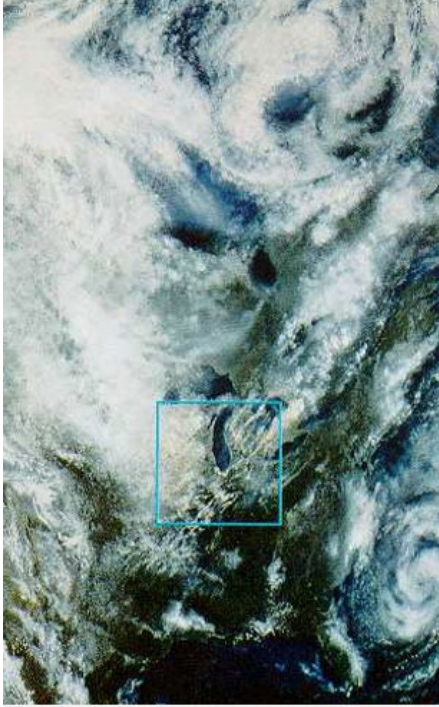


Image: <http://blog.physicsworld.com/2009/03/12/the-atlas-of-science/>

2 billion

MOOC World

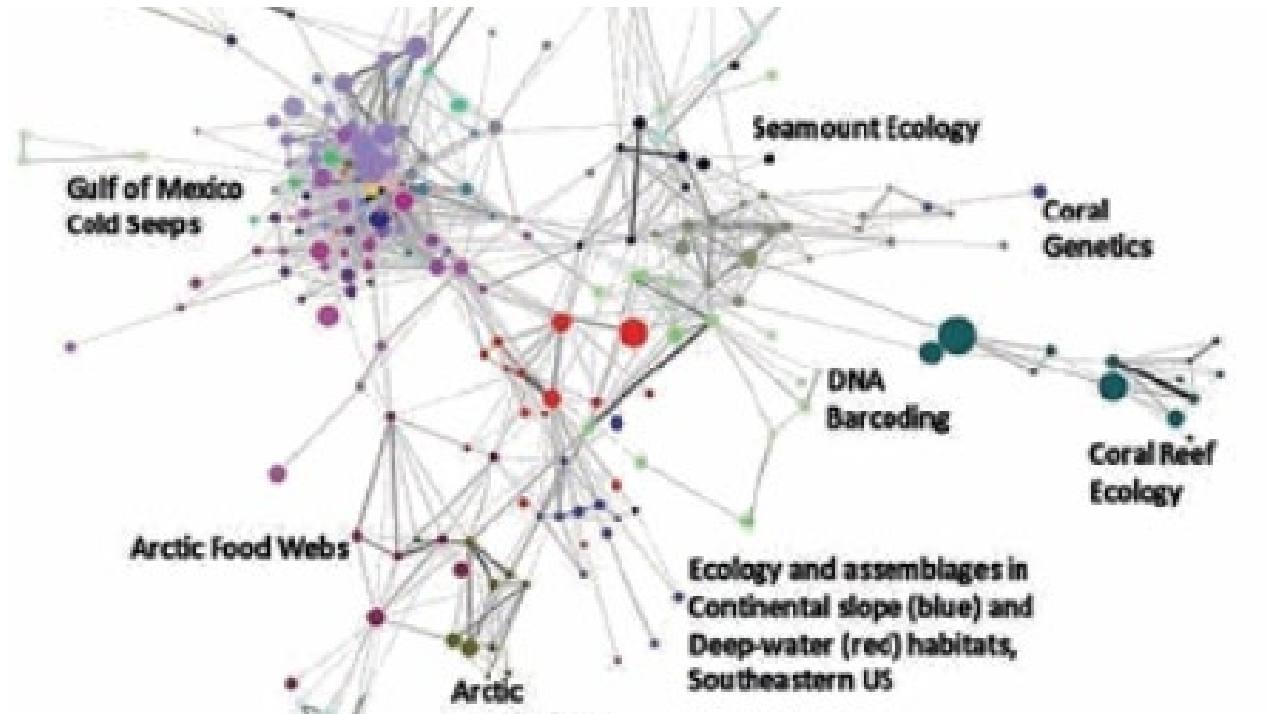


Image: <http://www.infotoday.com/online/may12/Belter-Visualizing-Networks-of-Scientific-Research.shtml>

200,000,000

# Open Resource Network



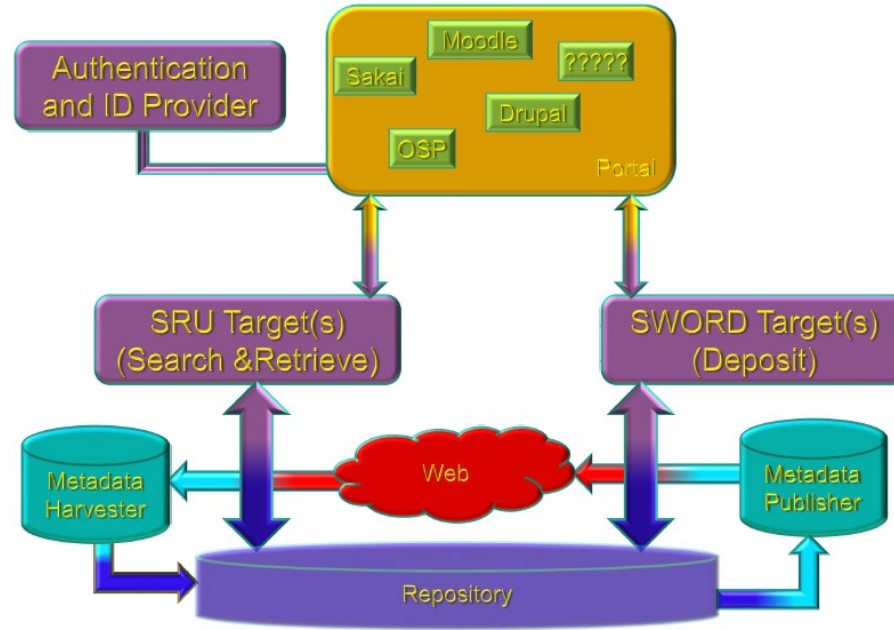


Image: [https://www.dissentmagazine.org/online\\_articles/the-new-mooc-strategy-rise-of-the-higher-ed-empires](https://www.dissentmagazine.org/online_articles/the-new-mooc-strategy-rise-of-the-higher-ed-empires)

20,000,000

# National Repositories

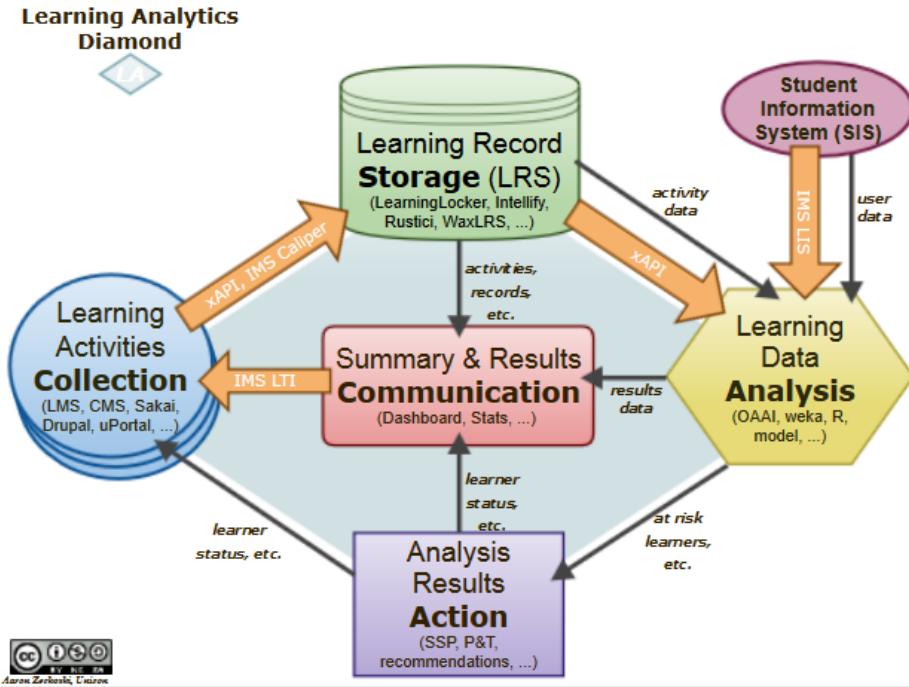
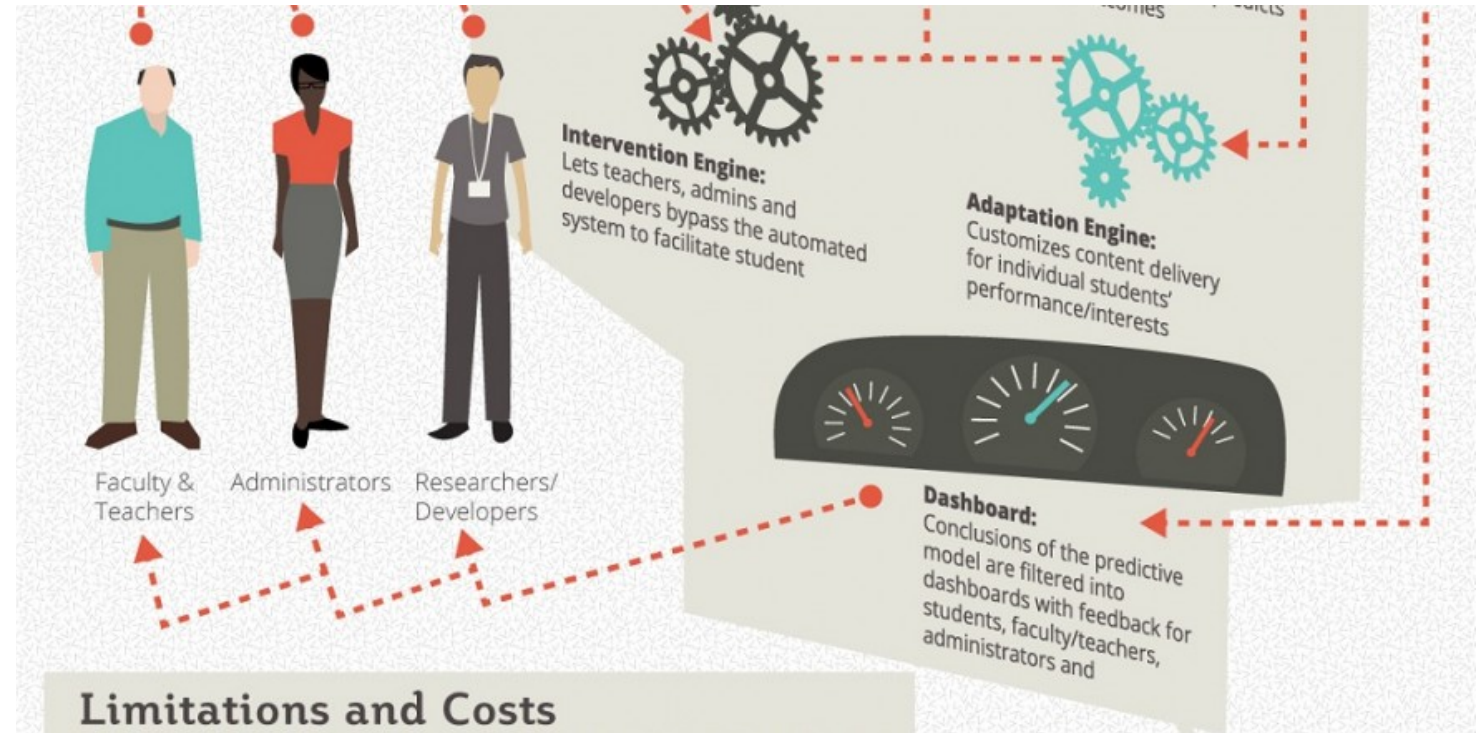


Image:<https://confluence.sakaiproject.org/pages/viewpage.action?pageId=92176618>

2,000,000

# Collections and Systems





200,000

# Learning Analytics





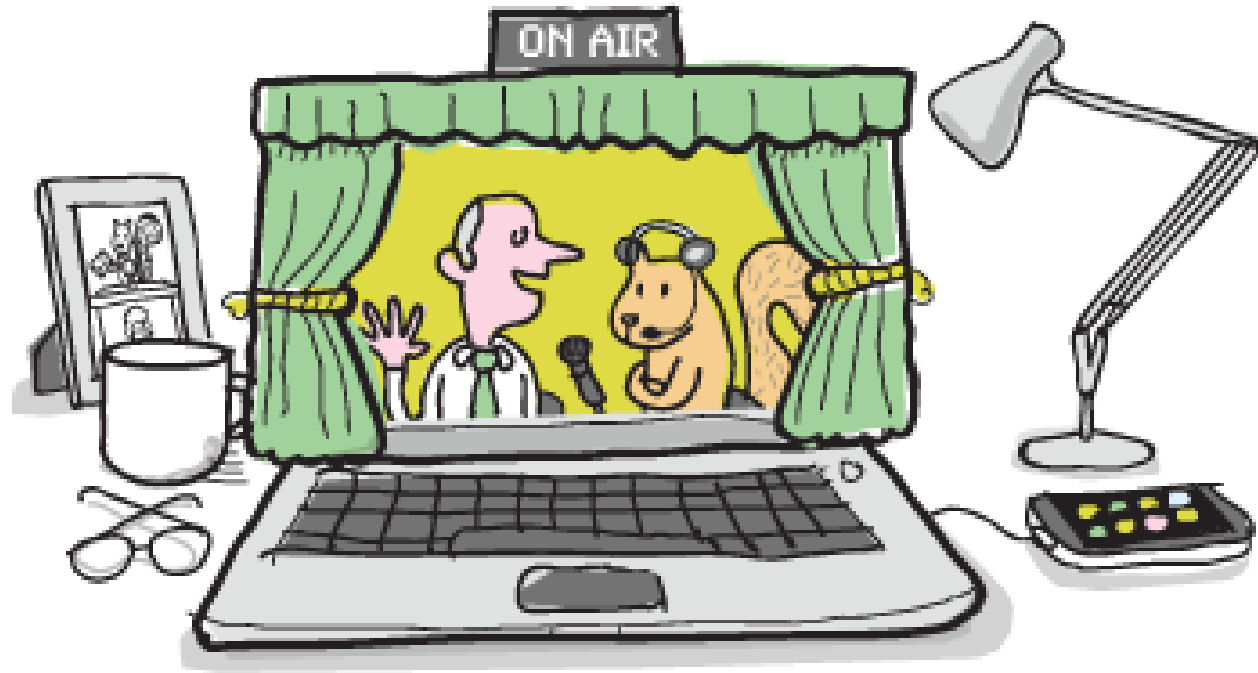


Image: <http://www.learningtimes.com/what-we-do/online-learning-services/cstp-level1/>

2,000

Synchronous Event

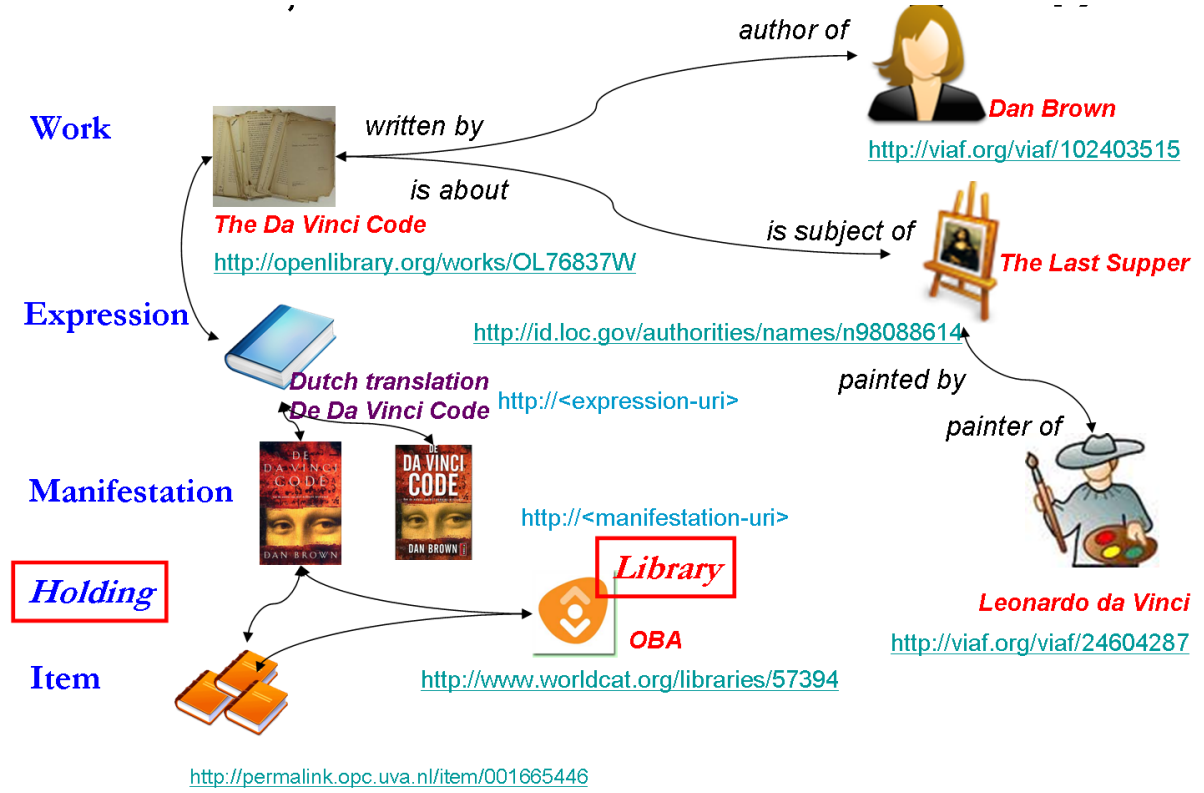


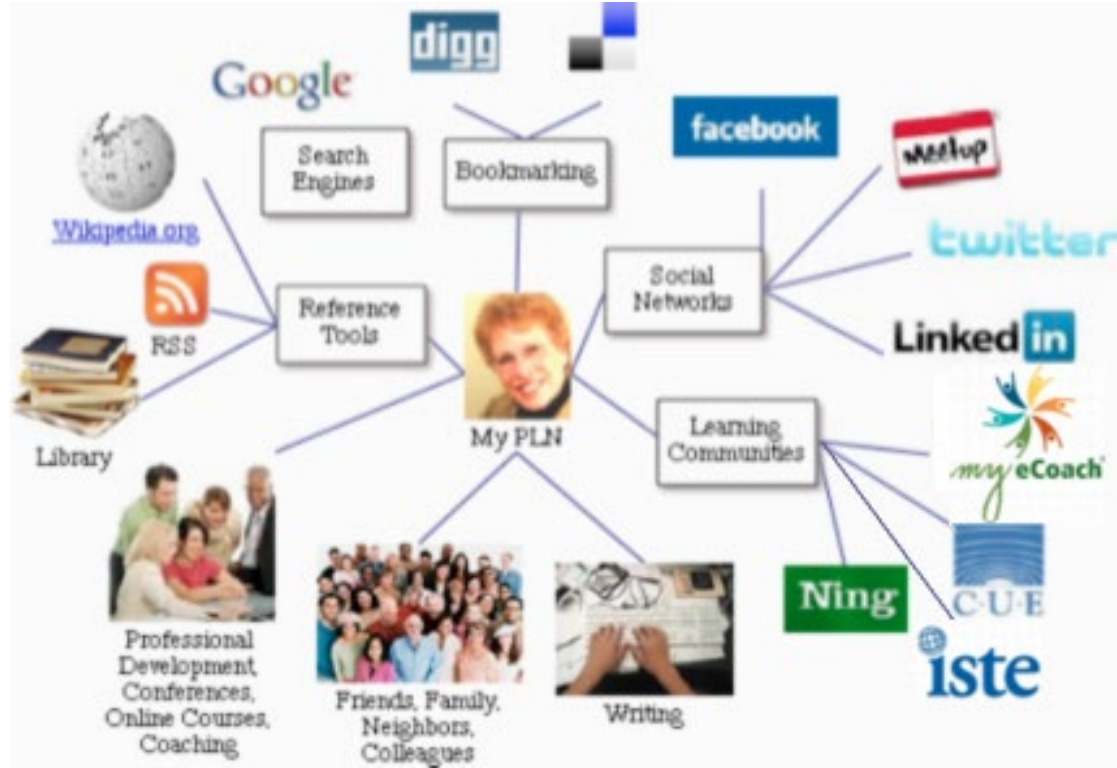
Image: <http://www.learningtimes.com/what-we-do/online-learning-services/cstp-level1/>

200

Dunbar's Number(ish)







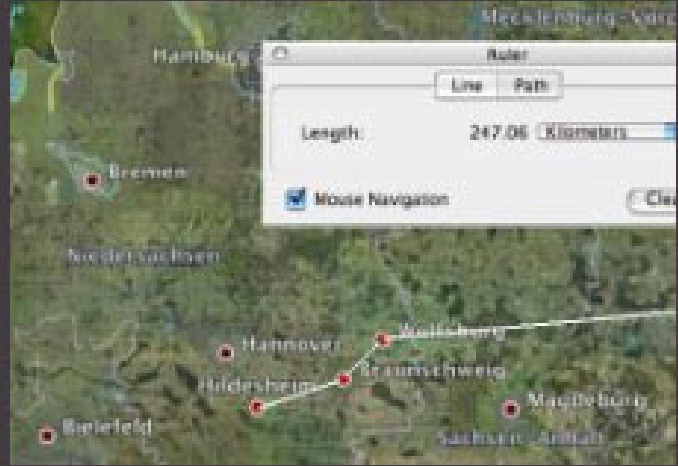
2

## You (and a Friend)





Pattern of the moment

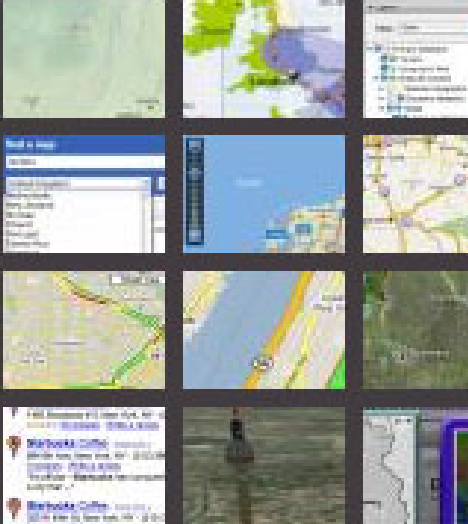


Length: 247.06 Kilometers

Distance Measurement

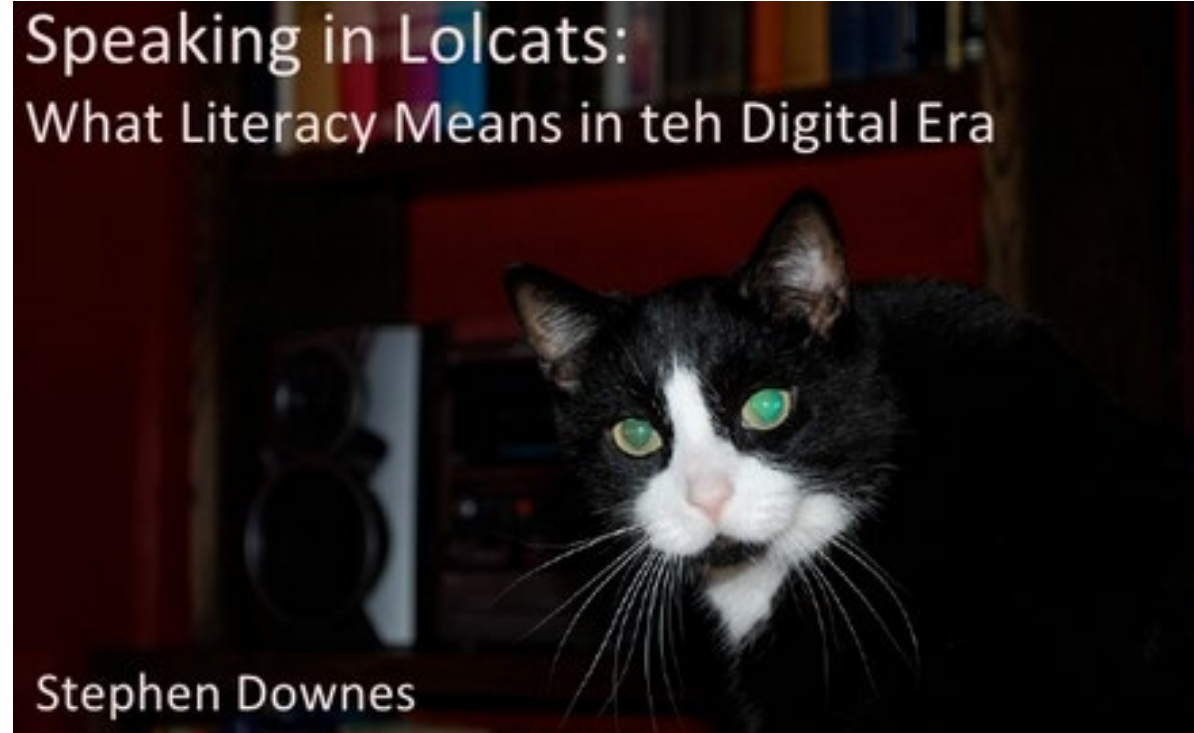
Patterns overview [220]

View patterns as **Thumbnails**



0.2

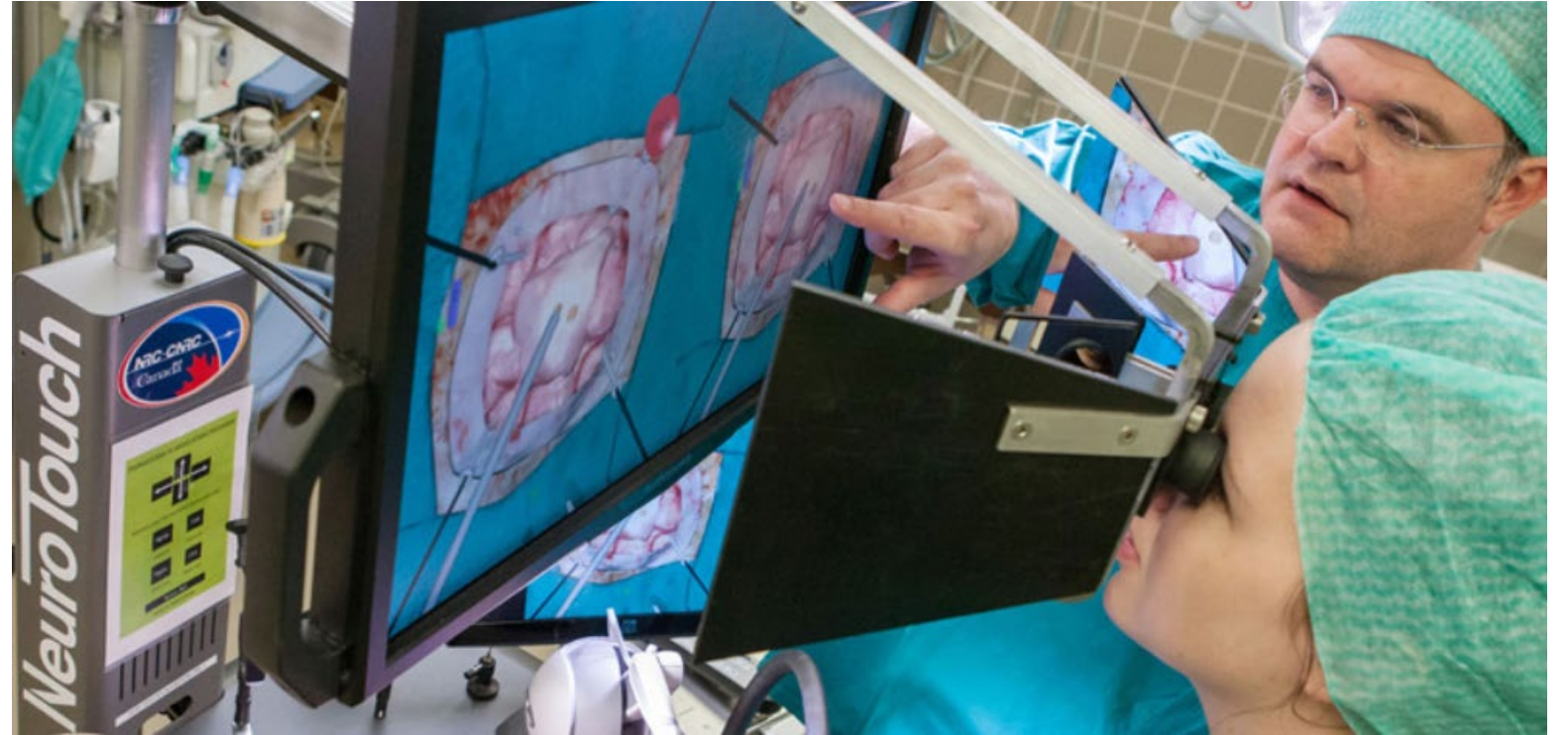
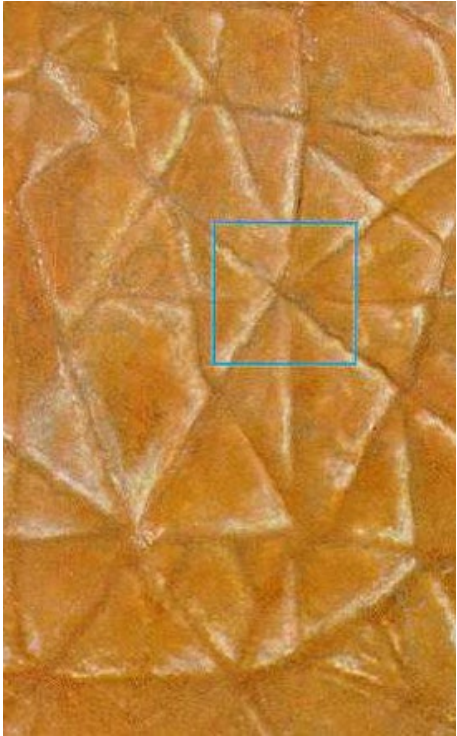
## Interfaces



0.02

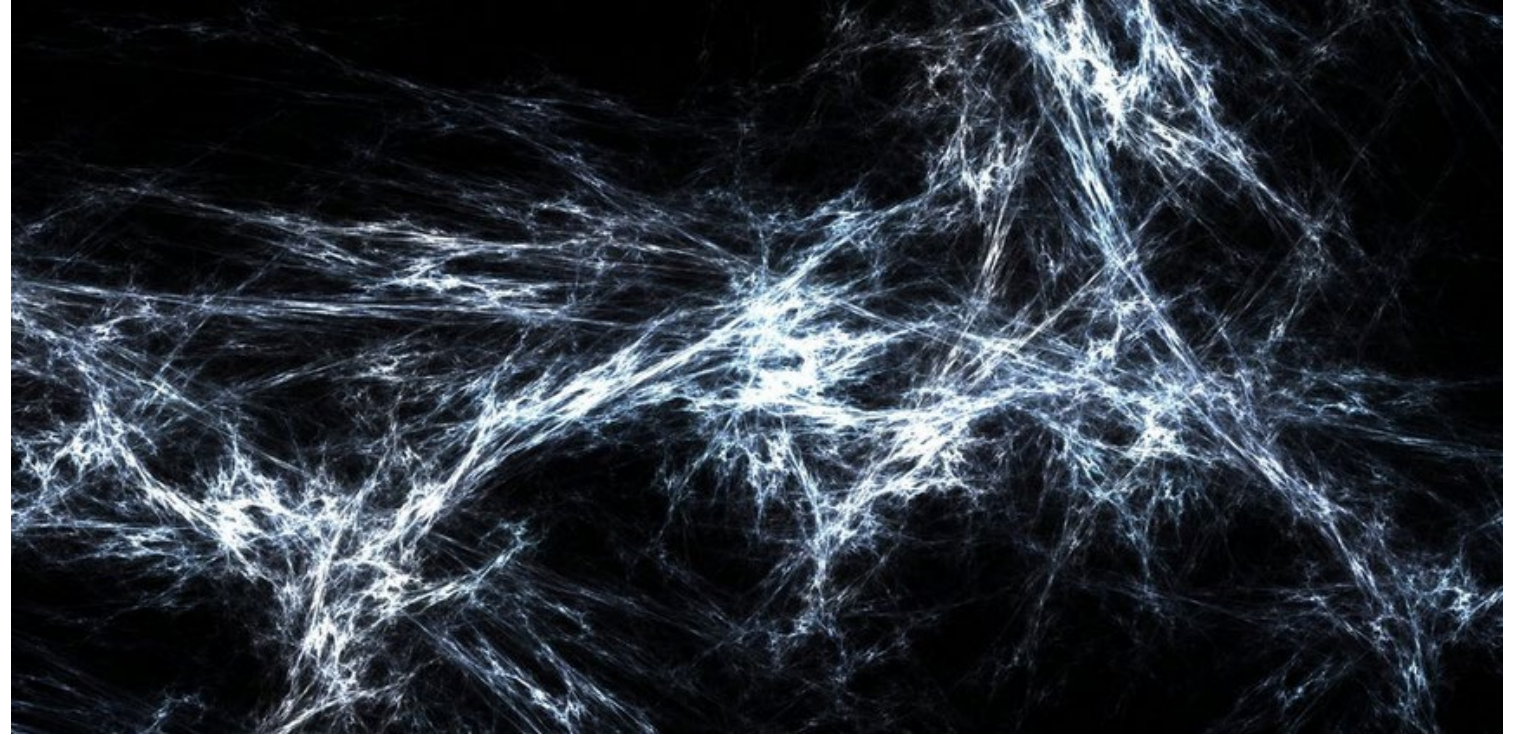
## Language and Text





0.002

Touch



0.0002

Neural Network



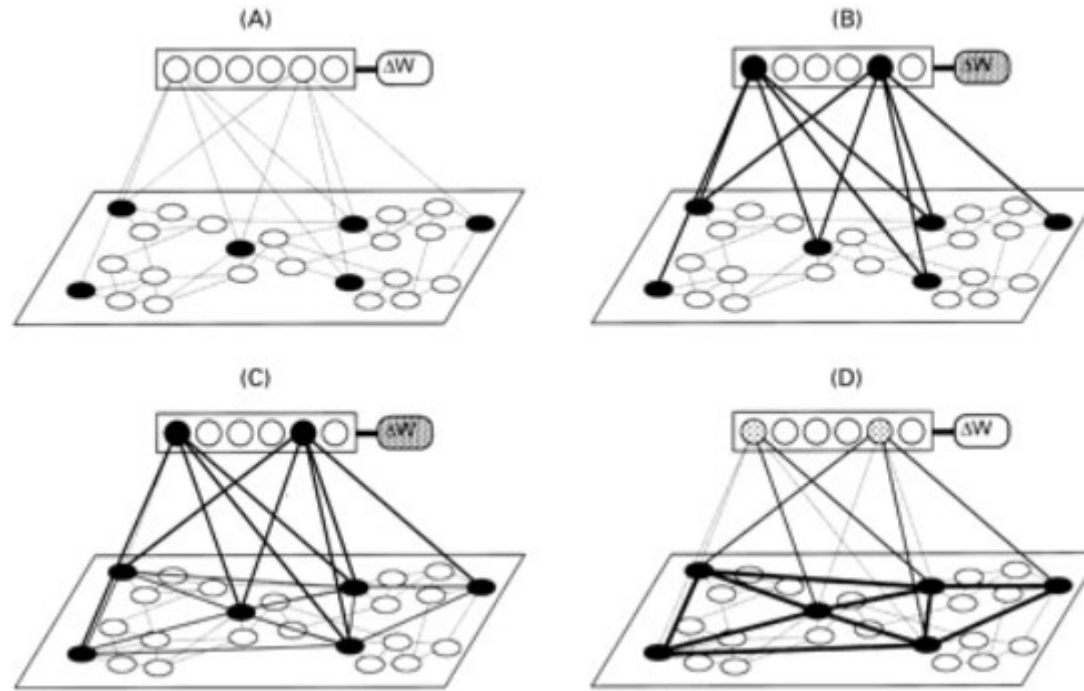
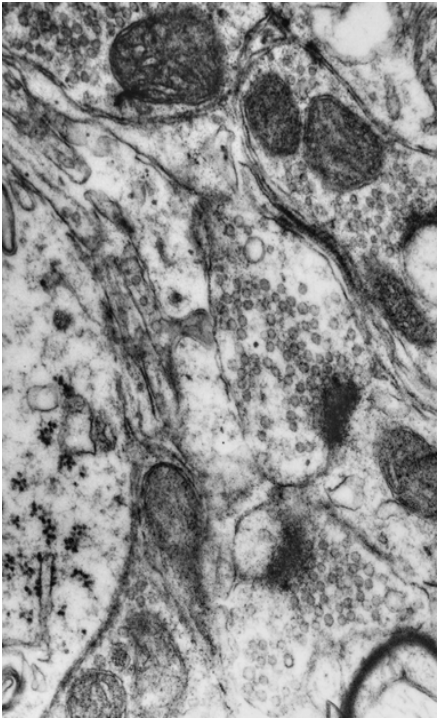


Image: <http://brain.oxfordjournals.org/content/124/4/647>

0.00002

Synapse



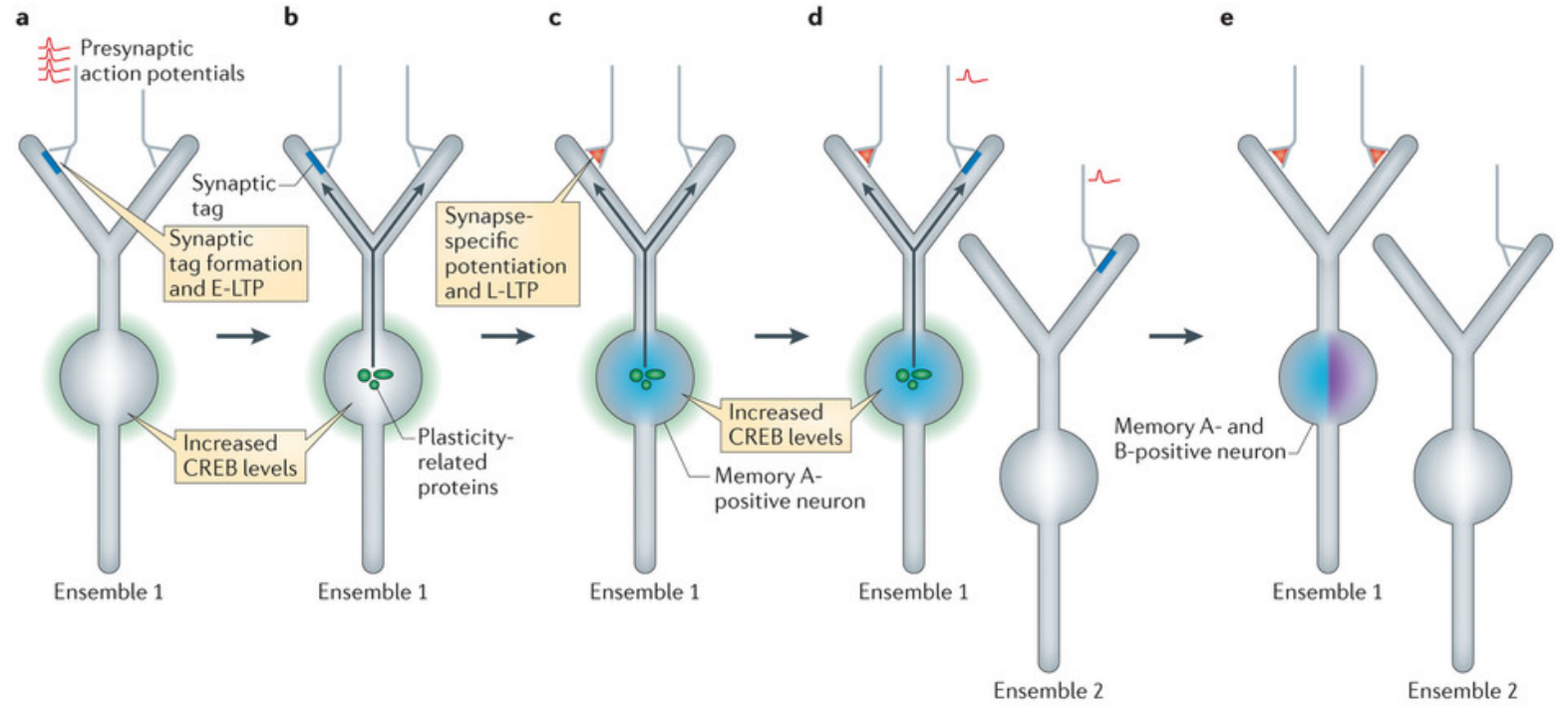
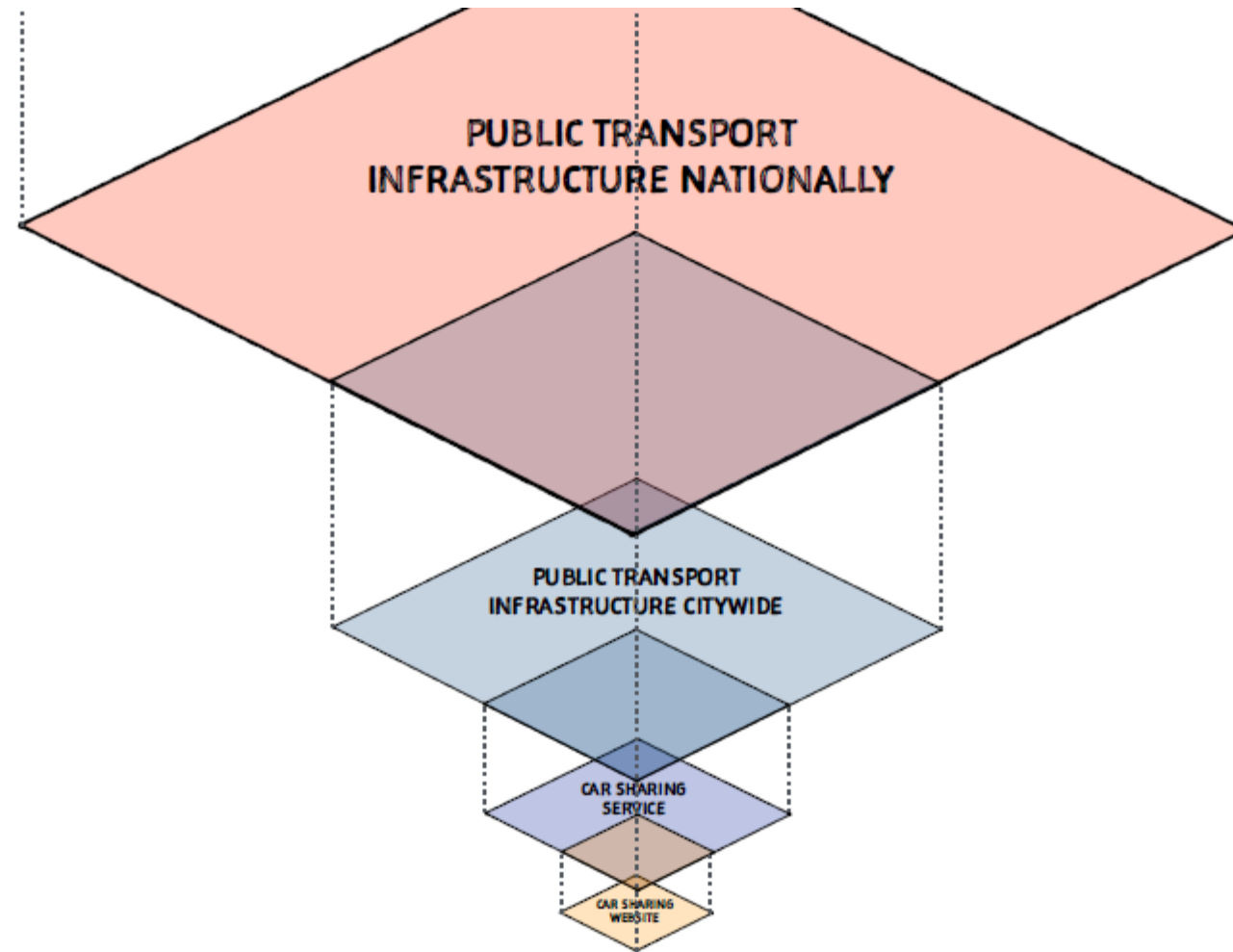


Image: <http://www.slideshare.net/jamiehworke/nervous-system-3-32538833>

0.000002

Bit

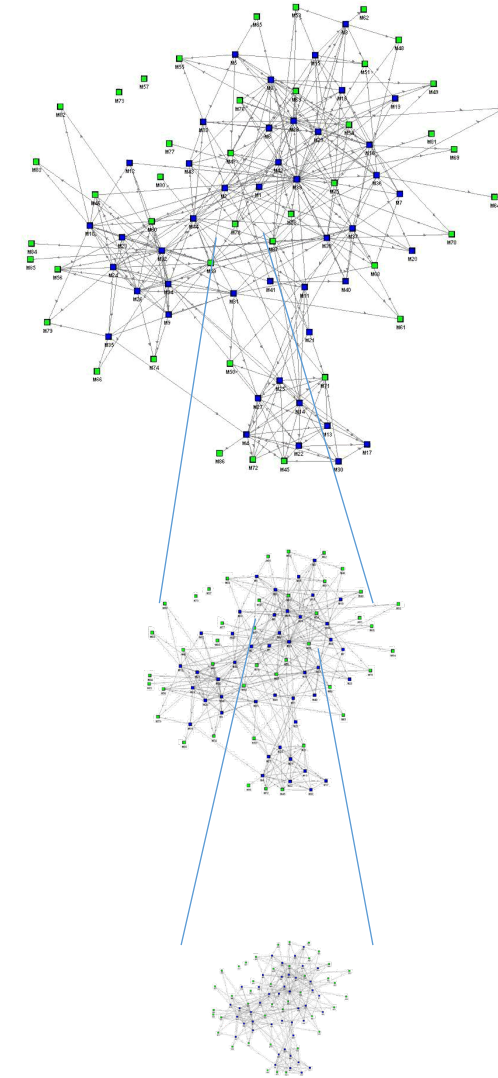
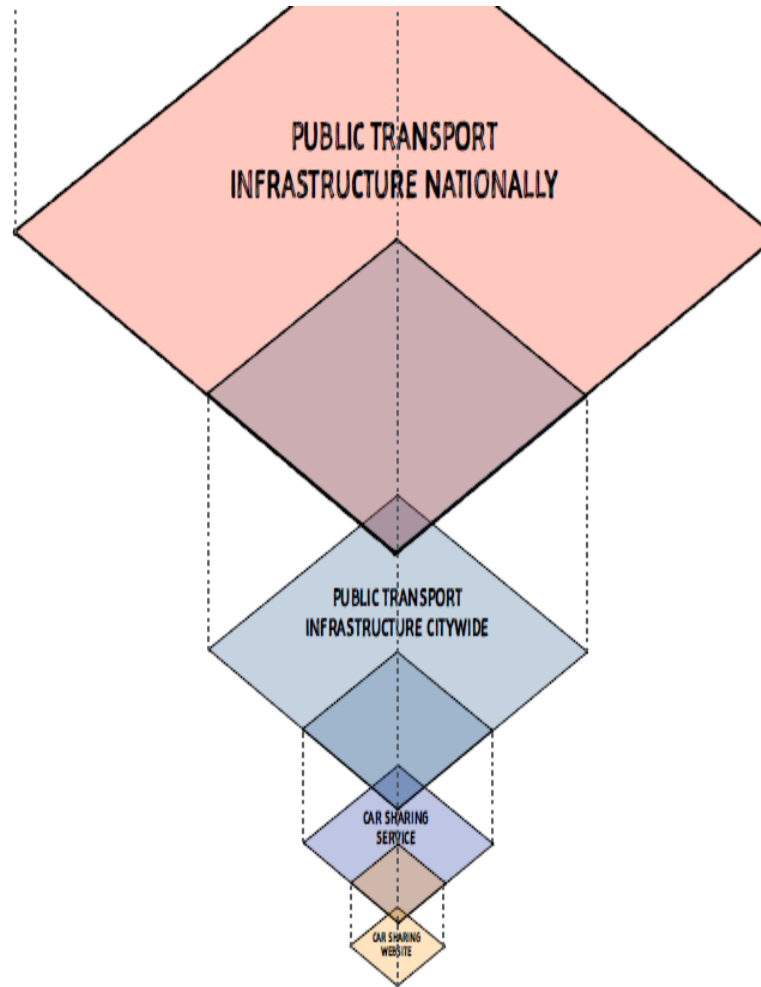
# Lessons



**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

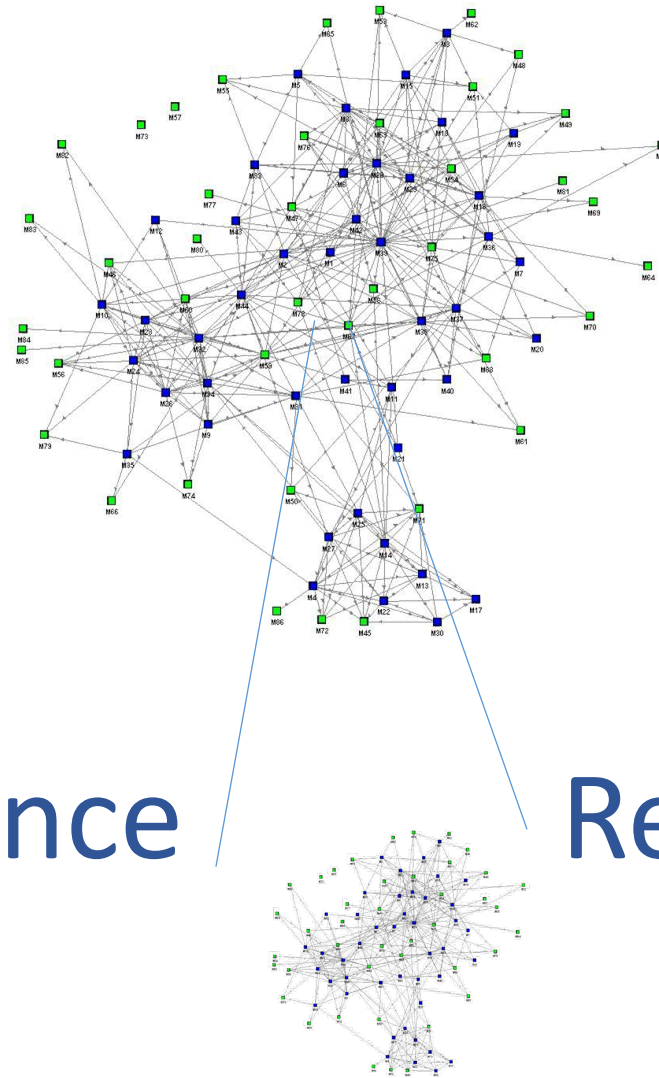
Two Dogmas of ~~Empiricism~~  
Educationism

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

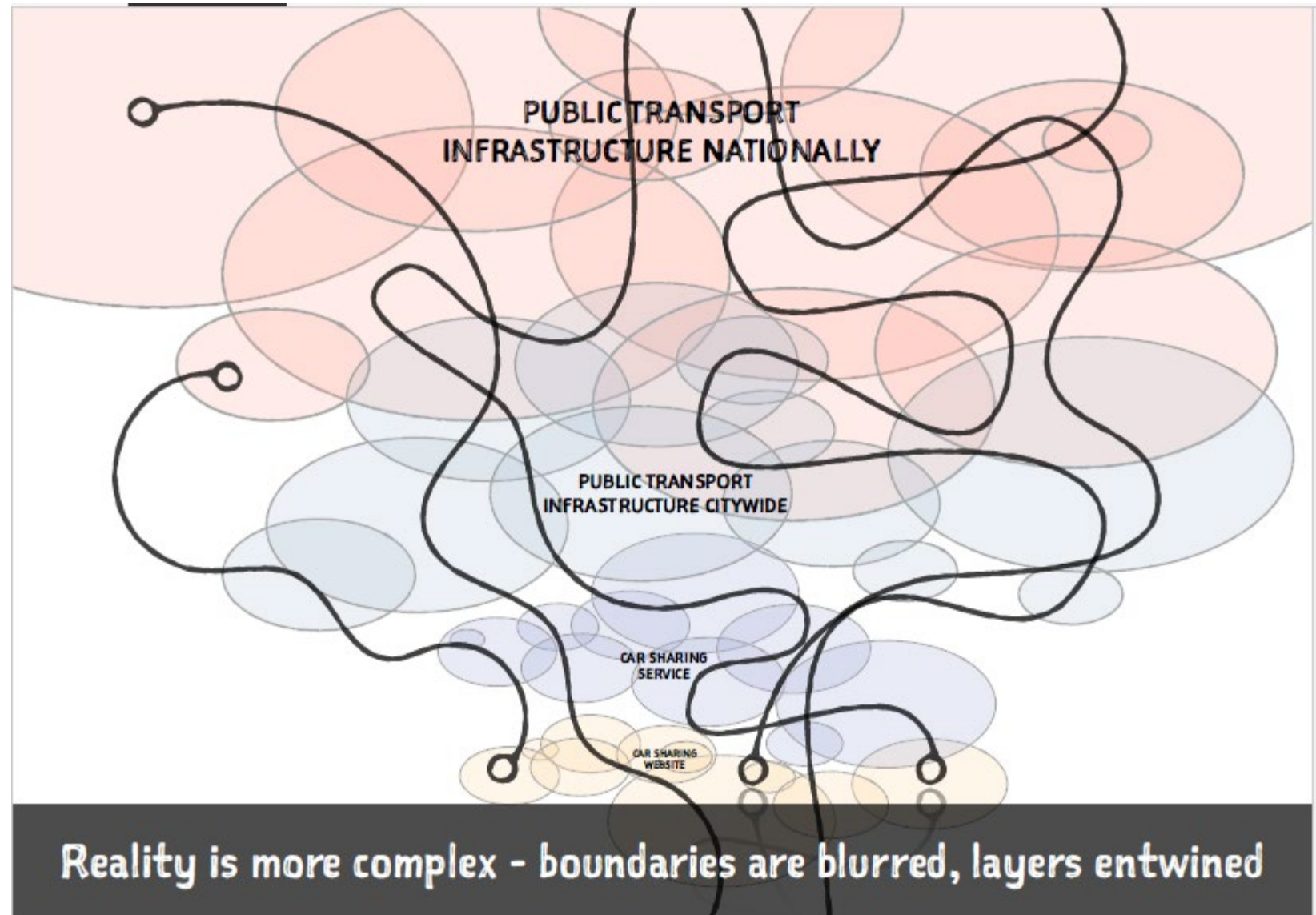
# Cognition

Emergence

Recognition

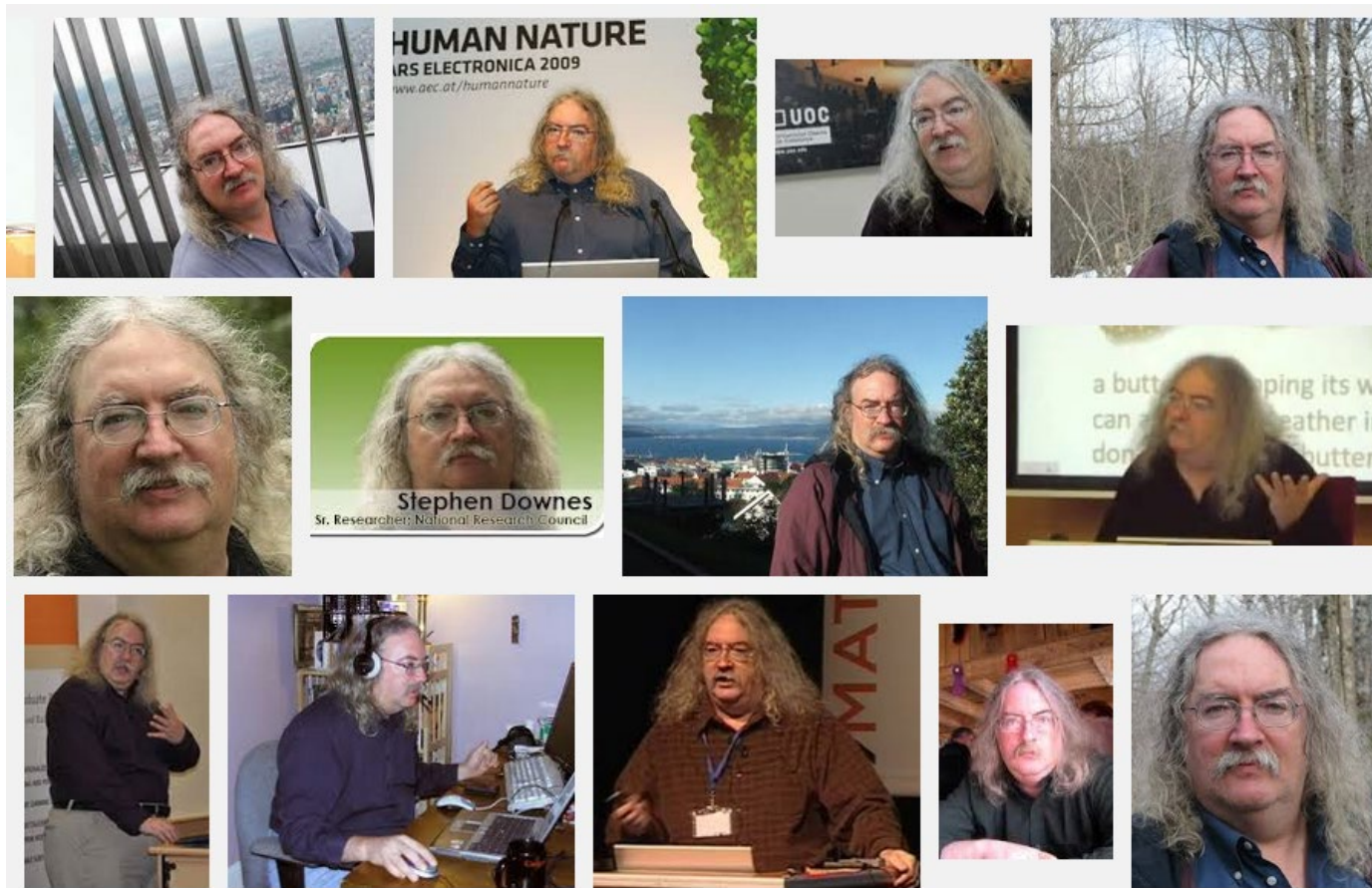


# Complex



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





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