

# Supporting an Open Learning Network

Free and Open Source Software, Open Knowledge, Education and  
Technology

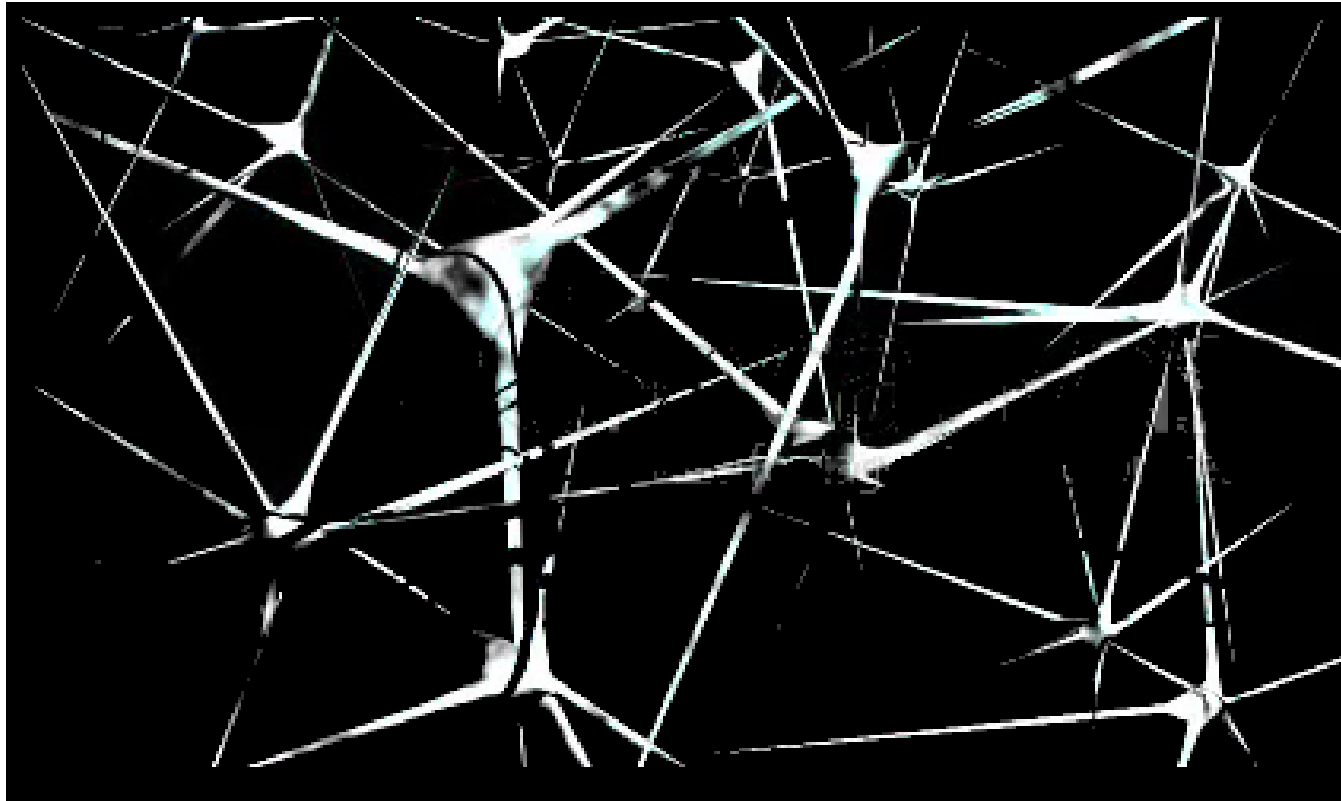
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<http://www.clipcanvas.com/video-footage/gfx-graphics-neural-network-human-7728.html>

- Learning and cognition happen in a network
- Networks need to be open in order to function

## The Argument in One Slide





<http://www.youtube.com/watch?v=9sJUDx7iEJw>

- Freedom to run, to read, to share, to modify
- Perspectives on freedom, as holder, as searcher

## Openness?



- Openness – standards, software, systems
- Openness – educational resources, courses, assessment

## Openness in Education



<http://vimeo.com/17570724>

<http://www.adlnet.gov/>

- Learning Object Metadata <http://ltsc.ieee.org/wg12/> <http://www.imsglobal.org/metadata/> SCORM
- Learning Design, Common Cartridge, Tools Interop

# Open Standards

an online **Course**



**Management  
System**



<http://www.youtube.com/watch?v=WvCiv5KCbeE&fmt=22>

- Moodle <http://moodle.org/>
- Sakai, Elgg, Atutor, LAMS <http://www.schoolforge.net/>

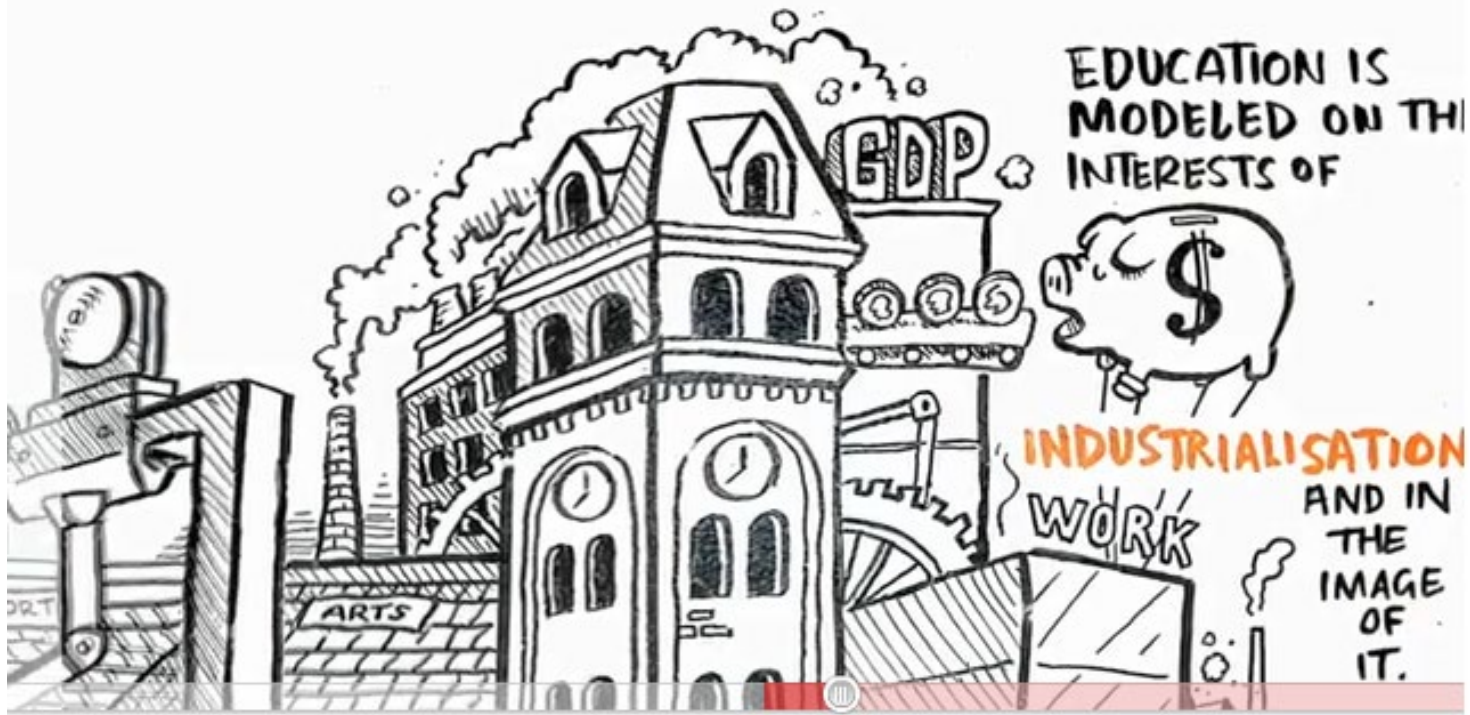
**Open Source Software**

<http://www.youtube.com/watch?v=hw5k98GV7po>

- Projects: OCW, Khan, MERLOT [http://www.oergrapevine.org/OER\\_projects](http://www.oergrapevine.org/OER_projects)  
<http://wiki.oercommons.org/mediawiki/index.php/Projects>
- Licensing: GFDL; CC by, SA, NC, ND <http://creativecommons.org/>

# Open Educational Resources

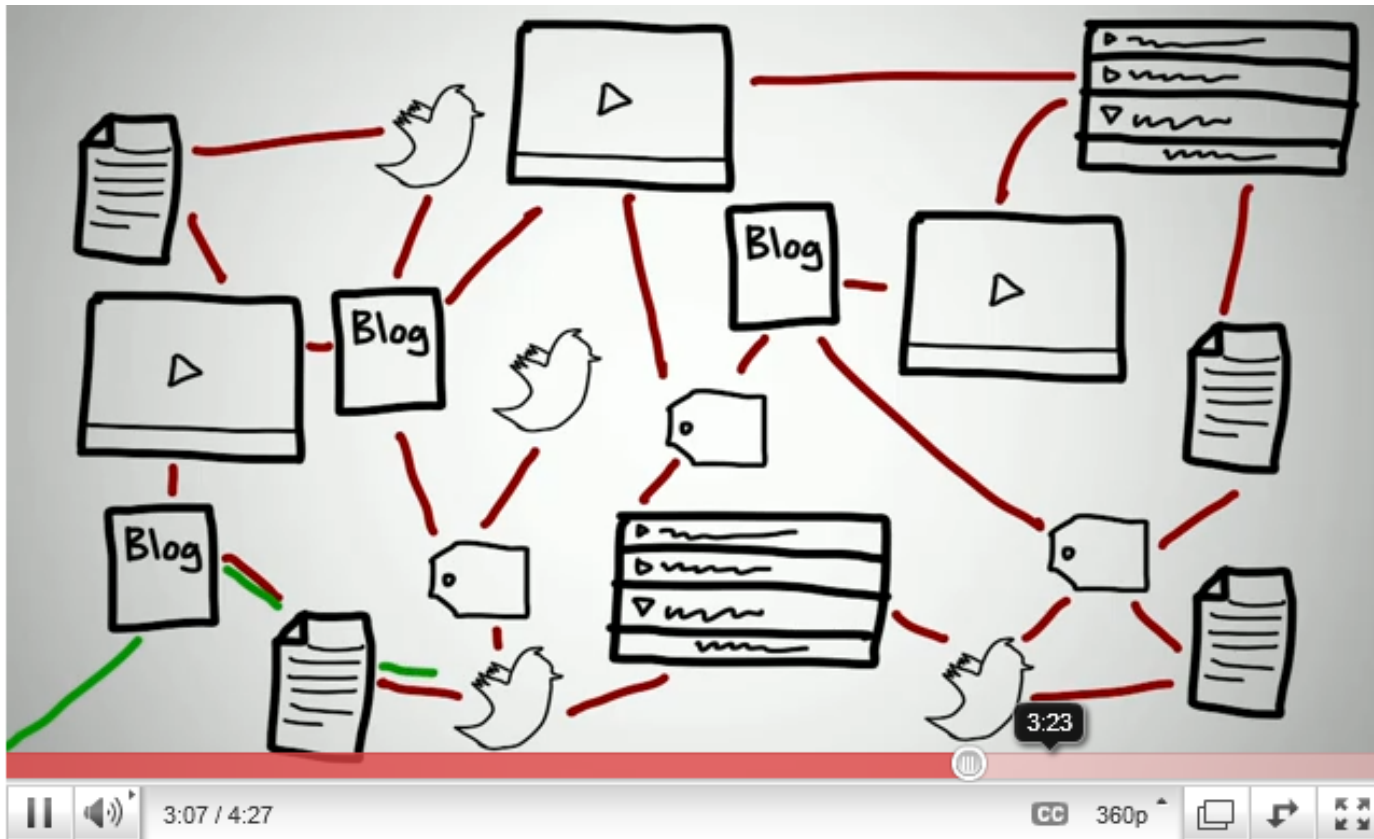




<http://www.youtube.com/watch?v=zDZFcdGpL4U>

- Models: Endowment, Membership, Donations...  
<http://ijello.org/Volume3/IJKLOv3p029-044Downes.pdf>
- Issues: Lock-in, high-bar, flooding, conversion  
<http://www.downes.ca/post/7804>

## Sustainability Issues



<http://www.youtube.com/watch?v=eW3gMGqcZQc>

- MOOC: Massive Open Online Course
- Network Design, Community Based

<http://cck11.mooc.ca/>

# Open Courses



<http://www.youtube.com/watch?v=FPEuu5mpC4s>

- Aggregate – gather resources from wherever they may be
- Remix – mash up, put together, join
- Repurpose – localize, adapt, mark up, tag, review, lip dub
- Feed forward – as video, slides, graphics, text



[http://www.youtube.com/watch?v=iLL6x\\_TNMSo](http://www.youtube.com/watch?v=iLL6x_TNMSo)

- Big Data, Web of Data, Semantic Web, RSS, Geo, FOAF...
- Mash-ups, APIs, the Cloud, Social Network

## The Open Learning Ecosystem



<http://www.youtube.com/watch?v=X0il0pgTUx0>

- <http://www.downes.ca>
- Free Learning

# Stephen Downes