

A Model of Personal Learning



Stephen Downes
Mexico City
May 16, 2017

- What does personal learning look like? Stephen Downes demonstrates the model he has developed over fifteen years of research on education technology and learning design. Based on gRSShopper – the software developed to run his newsletter and a series of Massive Open Online Courses (MOOCs) - Downes looks at the day-to-day routine of a personal learner with examples from his practice and a live demonstration of learning activities. Through the presentation Downes will explain the philosophy of Connectivism, a learning approach based on developing and growing personal learning networks, and will describe the ARFF (Aggregate Remodel Repurpose Feed Forward) model of learning activities. Finally, he will offer insights regarding some key technologies on the horizon, such as server virtualization and augmented reality, and offer thoughts on the future of online learning.

A Note About Models

- With models, the answers are determined before the system or simulation is ever run...
- Eg. “Carnegie Mellon University received a two-year grant for research on and development of MOOCs platforms '*intelligent enough to mimic the traditional classroom experience*'.”

<http://unescochair.blogs.uoc.edu/blog/2014/06/25/a-goal-for-google-and-carnegie-mellons-mooc-research/>



What's missing in the standard-based models-based approach is what we used to think of as BAD

- **Bricolage** – the doesn't allow or cater for bricolage.
- **Affordances** – leverage the technology to improve learning and teaching.
- **Distribution** – implications for the institutional practice of e-learning."

A Day in the Life?

The screenshot shows an Outlook window titled "2017 05 17 - Mexico - downe...". The interface includes a menu bar (File, Edit, View, Go, Message, Events and Tasks, Tools, Help), a toolbar with "Get Messages", "Write", "Chat", "Address Book", "Tag", and "Quick Filter", and a search bar. The left sidebar shows a folder tree with "Inbox", "Drafts", "Sent", "Archives", "Local Folders", "Junk (36)", "Trash", and "Outbox". The main pane displays a list of emails with columns for "Name", "Subject", "From", and "Date". The selected email is from "JOSE MANUEL SAN..." dated "2017-01-05 3:02 PM".

Name	Subject	From	Date
JOSE MANUEL SAN...	Greetings and invitatio...	JOSE MANUEL SAN...	2017-01-05 3:02 PM
JOSE MANUEL SAN...	Greetings and invitatio...	JOSE MANUEL SAN...	2017-01-05 3:03 PM
Downes, Stephen	Re: Greetings and invit...	Downes, Stephen	2017-01-09 12:21 PM
Downes, Stephen	Re: Greetings and invit...	Downes, Stephen	2017-01-09 12:23 PM
JOSE MANUEL SAN...	Re: Greetings and invit...	JOSE MANUEL SAN...	2017-01-13 4:00 PM
Downes, Stephen	Re: Greetings and invit...	Downes, Stephen	2017-01-13 4:36 PM
JOSE MANUEL SAN...	Re: Greetings and invit...	JOSE MANUEL SAN...	2017-01-13 4:55 PM
JOSE MANUEL SAN...	Re: Greetings and invit...	JOSE MANUEL SAN...	2017-02-14 9:24 PM
Downes, Stephen	Re: Greetings and invit...	Downes, Stephen	2017-02-20 11:03 AM
JOSE MANUEL SAN...	Re: Greetings and invit...	JOSE MANUEL SAN...	2017-02-22 3:15 PM
JOSE MANUEL SAN...	Re: Greetings and invit...	JOSE MANUEL SAN...	2017-02-23 10:38 AM
JOSE MANUEL SAN...	Invitation letter (Mexico)	JOSE MANUEL SAN...	2017-03-02 2:04 PM
JOSE MANUEL SAN...	Re: Invitation letter (M...	JOSE MANUEL SAN...	2017-03-02 2:08 PM
JOSE MANUEL SAN...	Mexico Conference!!!	JOSE MANUEL SAN...	2017-03-29 2:53 PM
JOSE MANUEL SAN...	Re: Mexico Conference!!!	JOSE MANUEL SAN...	2017-03-29 4:28 PM
JOSE MANUEL SAN...	Re: Mexico Conference!!!	JOSE MANUEL SAN...	2017-03-30 11:10 AM
JOSE MANUEL SAN...	Flight tickets	JOSE MANUEL SAN...	2017-04-26 9:10 AM
JOSE MANUEL SAN...	Flight tickets	JOSE MANUEL SAN...	2017-04-26 9:13 AM
JOSE MANUEL SAN...	Flight tickets	JOSE MANUEL SAN...	2017-04-26 9:28 AM
JOSE MANUEL SAN...	Re: Flight tickets	JOSE MANUEL SAN...	2017-04-27 12:08 AM

The detailed view of the selected email shows the following content:

From: JOSE MANUEL SANCHEZ SORDO <jmss@comunidad.unam.mx>
Subject: **Greetings and invitation from Mexico.**
To: Me <stephen@downes.ca>
Cc: Me <Stephen.Downes@nrc-cnrc.gc.ca>

Dear Dr. Downes, My name is José Manuel Sánchez Sordo i'm a teacher at National Autonomous University of México (UNAM). The reason i'm writing you this mail is because here at my job we're gonna be celebrating our 10th anniversary as work team at the Digital Evaluation and Education Laboratory led by Dr. Arturo Silva Rodríguez and it would be an honor if you join us in our celebration with a conference about your works related with distance learning and personal learning (we're really active in these areas, and personally i quote your work a lot, in fact my doctoral research is about Extended mind and Connectivism).

In case you could join us, the conference would be near May 15-20 (2017), unfortunately we cant pay for the conference, cause as you may know Mexico is passing by difficult times and we as public university don't have a lot of money. We can only pay for the planes, the hotel and travel allowances.

As i already told you, it would be a real honor if you could join us. Your works has inspired us a lot.

Thanks so much and we will be waiting for your reply.

--
Lic. José Manuel Sánchez Sordo
Laboratorio de Educación y Evaluación Digital
Universidad Nacional Autónoma de México, FES Iztacala.

Unread: 0 Total: 20 Today Pane

A Day in the Life?

The screenshot displays the EveryCloud web interface. At the top, there's a navigation bar with the EveryCloud logo, tabs for 'Workspace', 'Account', 'Black/Whitelist', and 'Statistics', and a user profile for 'stephen@downes.ca' with a 'Logout' button. Below this is an 'Email Search' and 'Email Archive' section. The main area shows 'User options' with a 'Report spam' dropdown and a 'Perform action' button. The central part is an email inbox table with columns for Date, Encryption, From, To, Subject, Display filter, Reason, Status, and Size. The table is filtered to 'Incoming' and 'Adopted' status. At the bottom, there are controls for '100 Rows per page', 'Export (.csv)', and pagination for 'Page 1 of 4 pages (373)'.

Date	Encryption	From	To	Subject	Display filter	Reason	Status	Size	Search
15.05.2017	TLS	djroca@uod.edu.sa	stephen@downes.ca	Hello	Clean	noreason	Delivered	11 kB	Preview
15.05.2017	TLS	cloudplatform-noreply@google.	stephen@downes.ca	Unlimited storage	Clean	noreason	Delivered	68 kB	Preview
15.05.2017		curtsy@leoclubatl.com	stephen@downes.ca	Your-new order #8990712 : The great	Spam	spamip-net	-	6 kB	Preview
15.05.2017		caesar@leoclubatl.com	stephen@downes.ca	iPhone Photography -- Knock Your SOC	Spam	spamip-net	-	5 kB	Preview
15.05.2017		campustechconf@lrp.com	stephen@downes.ca	Campus Tech speakers answer your que	Clean	user-wl	Delivered	15 kB	Preview
15.05.2017	TLS	progress@americanprogressac	stephen@downes.ca	Republicans—It's Your Turn to Call Out	Clean	user-wl	Delivered	18 kB	Preview
15.05.2017	TLS	pinbot@explore.pinterest.com	stephen@downes.ca	???? 10 Funnies Pins you might like	Clean	headerw2	Delivered	57 kB	Preview
15.05.2017		info@email.homehardware.ca	stephen@downes.ca	Get set for the great outdoors with our M	Clean	noreason	Delivered	15 kB	Preview
15.05.2017	TLS	no-reply@flipboard.com	stephen@downes.ca	Your FlipDigest: stories from Flipboard a	Clean	noreason	Delivered	48 kB	Preview
15.05.2017	TLS	insider@wolfram.com	stephen@downes.ca	Wolfram Insider: Issue 3, 2017	Clean	scorewI2	Delivered	18 kB	Preview
15.05.2017	TLS	postmaster@seap.minhap.es	stephen@downes.ca	Warning: could not send message for pa	Clean	scorewI2	Delivered	15 kB	Preview
15.05.2017	TLS	postmaster@seap.minhap.es	stephen@downes.ca	Warning: could not send message for pa	Clean	scorewI2	Delivered	15 kB	Preview
15.05.2017		stephen6277@dogthun.net	stephen@downes.ca	Secret Protocol to Fix TOENAIL FUNGU	Spam	spamip-net	-	35 kB	Preview
15.05.2017		no-reply@evertonpublishersinc.	stephen@downes.ca	Special offer. Get Smartphone with disc	Clean	noreason	Delivered	11 kB	Preview
15.05.2017	TLS	events@americanprogress.org	stephen@downes.ca	Watch Live at 9 am: 2017 Ideas Confere	Clean	cleanip-net	Delivered	16 kB	Preview

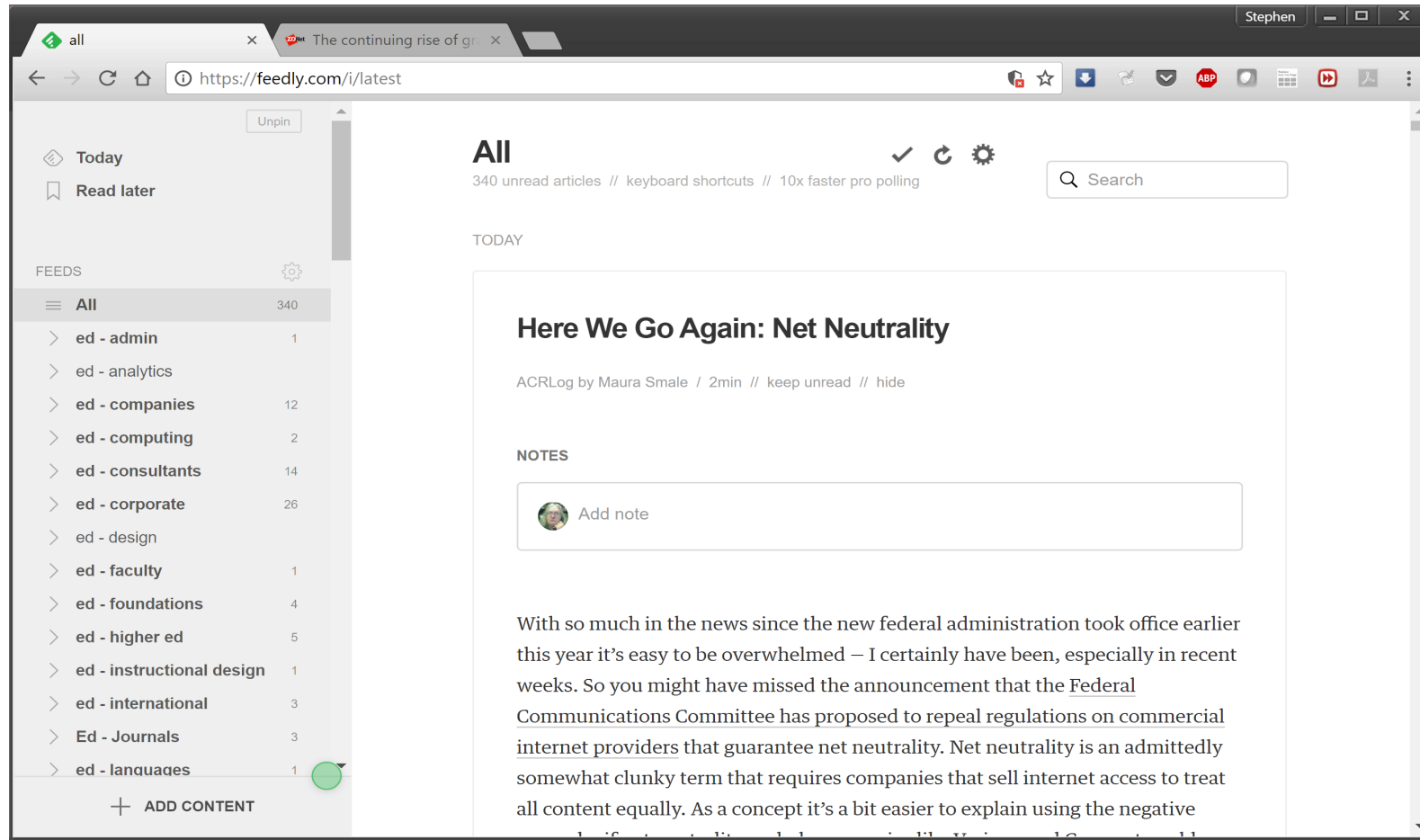
A Day in the Life?

Yes this is my start page

Downes	Audio	Photos	Social	MLB	Video	NRC
NewPost	Google Music	Camera Roll	Google Plus	Games	Live - Watch	Wiki-ICT
ListPosts	CBC Radio	Albums	Medium	Scores	Live- Create	Wiki-LPSS
Presentation	Jamendo	Let's Make Art	Twitter	Standings	My Channel	Zone
Pages	SoundCloud	OneDrive Photos	Twitter Activity	Blue Jays	YouTube	SAP
Admin	Ed Radio			Banter	Netflix	Service
						GCCollab
Services	Travel	News	Email	Slides	Blog	Intellexir
Bank	Expedia	Weather	OWA Email	Slideshare	Half an Hour	FedScience Library
Maps	Air Canada	Google News	Everycloud	Upload Slides	NewBlog Post	GCCampus
Translate	Lufthansa	Feedly			Drive	
Unix Date		Pocket				

<http://www.downes.ca/start.html>

A Day in the Life?



<https://feedly.com/i/latest>

<http://www.downes.ca/opml.xml>

A Day in the Life?

The screenshot shows the GetPocket website interface. The browser address bar displays <https://getpocket.com/a/queue/>. The website header includes navigation links for Home, Recommended, and Explore, along with a search icon and a user profile for 'Downes'. A sidebar on the left lists categories like My List, Favorites, Archive, Articles, Videos, Images, and Tags. The main content area is titled 'My List' and features a grid of article cards. Each card includes a title, a thumbnail image, a brief description, and the source website.

Article 1: "The continuing rise of graph databases" by zdnet.com. The thumbnail shows a blue digital network with text overlays: `MATCH (m:Character {name:'The Doctor'}, -[:APPEARED_IN]->(ep:Episode), &[:Character {name:'Peter Pez'}] -[:APPEARED_IN]->(ep:Episode)) WITH ep MERGE (m) -[:APPEARED_IN]->(ep); (c) -[:APPEARED_IN]->(ep)`.

Article 2: "Compliance is Not the End Goal of Education" by georgecoursos.ca. The thumbnail is a table with columns: EE, Quick Definition Statements, What it looks like, The Simon Sinek Scale (Why?), and Exam statements to the as Twitter Professors Learn.

EE	Quick Definition Statements	What it looks like	The Simon Sinek Scale (Why?)	Exam statements to the as Twitter Professors Learn
ullant	Learning because I have to.	Have little to no interest in learning material but doing as I am asked to do.	Seeing the "how" and the "what" but not understanding relevance for learning.	"Why are we this?"
paged	Learning because I am interested.	Have an interest in what is being shared and can see relevance.	Starting to see "why" from someone else's perspective and seeing relevance to learning.	"That is a pretty cool thought of that so..."
covered	Learning because I want to add one value difference for myself and/or others.	Creating, making, and connecting learning that is meaningful for the individual. Learning is becoming intrinsically valued.	Starting to create their own "why" and connecting to real life, eventually creating something of value.	"I started on and search others the relevant really clear way to do this class."

Article 3: "A Delphi study of effective practices for developing competency-based learning models in higher education" by distance-educator.com. The thumbnail says "Competency-Based Education".

Article 4: "Sharing some stuff from my open EdTech road show" by clintialonde.net. The thumbnail shows a person with a speech bubble and the letters "BY".

Article 5: "OER-Enabled Pedagogy" by opencontent.org. The text describes writing about open pedagogy and open educational practices.

Article 6: "One business case for OER examined" by tonybates.ca. The thumbnail shows a man speaking with the OpenLearn logo.

Article 7: "Why You Should Try Mastodon" by academiaesthetic.com. The thumbnail shows a cartoon illustration of a mammoth.

<https://getpocket.com>

A Day in the Life?

Stephen

Twitter, Inc. [US] | <https://twitter.com/downes>

Home Moments Notifications Messages Search Twitter Tweet

Downes ✓
@Downes
Wondering where the lions are
Casselman, Ontario
downes.ca
Joined July 2007
Born on April 6, 1959

TWEETS 7,375 FOLLOWING 1 FOLLOWERS 8,936 LIKES 9 MOMENTS 0 Edit profile

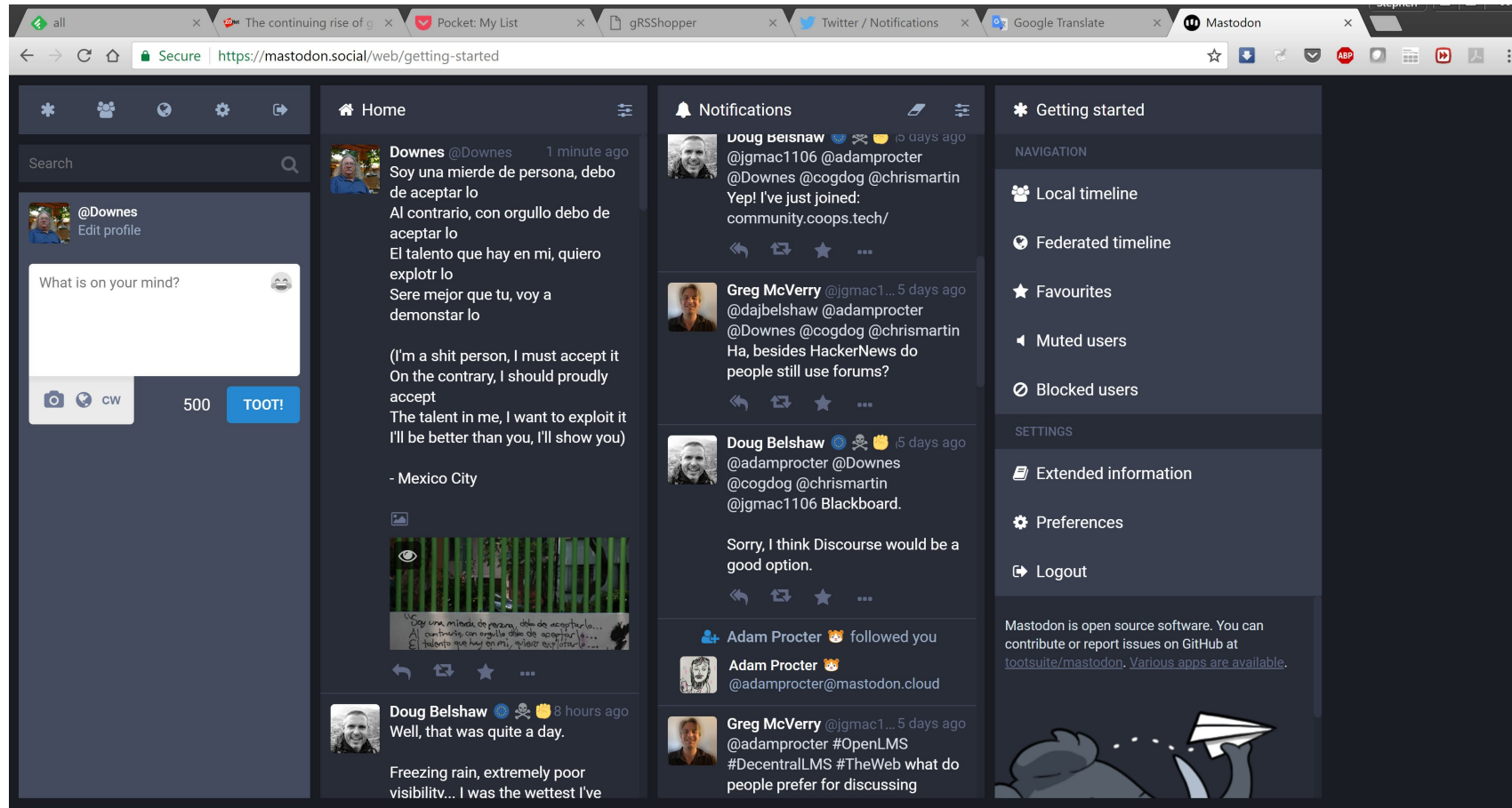
Tweets Tweets & replies Media

You Retweeted
KidsUpFrontTO @KidsUpFrontTO · May 13
Just arrived to Canada from Syria. First @BlueJays game. First time tasting popcorn. BIG fans of both! ❤️🍿 #LetsRise #KidsUpFront

Your Tweet activity
Your Tweets earned **12,014 impressions** over the last week
May 9 May 15
View your top Tweets

<https://twitter.com/downes>

A Day in the Life?



<https://mastodon.social/@Downes>

Learning

codecademy

Upgrade to Pro


Learn

Catalog



Dashboard

▼ Courses

 Ruby

0%

 Python

100%

Get Started



Ruby

Currently on: Introduction to Ruby.

Resume (0%)

Continue where you left off in Ruby. Next up is Introduction to Ruby.

<https://www.codecademy.com/learn>

Learning



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Next CIDER Webinar Monthly Session – June 3

June 2, 2015

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<http://news.athabascau.ca/news/next-cider-webinar-monthly-session-june-3/>

A Day in the Life?

Edit post

[\[Admin\]](#)

- [\[New\]](#) [\[List\]](#) Author
- [\[New\]](#) [\[List\]](#) Author_list
- [\[New\]](#) [\[List\]](#) Banned_sites
- [\[New\]](#) [\[List\]](#) Box
- [\[New\]](#) [\[List\]](#) Cache
- [\[New\]](#) [\[List\]](#) Chat
- [\[New\]](#) [\[List\]](#) Cite
- [\[New\]](#) [\[List\]](#) Config
- [\[New\]](#) [\[List\]](#) Custom
- [\[New\]](#) [\[List\]](#) Element
- [\[New\]](#) [\[List\]](#) Event
- [\[New\]](#) [\[List\]](#) Event_post
- [\[New\]](#) [\[List\]](#) Feed
- [\[New\]](#) [\[List\]](#) Field
- [\[New\]](#) [\[List\]](#) File
- [\[New\]](#) [\[List\]](#) Graph
- [\[New\]](#) [\[List\]](#) Identifier
- [\[New\]](#) [\[List\]](#) Journal
- [\[New\]](#) [\[List\]](#) Journal_list
- [\[New\]](#) [\[List\]](#) Learning
- [\[New\]](#) [\[List\]](#) Link
- [\[New\]](#) [\[List\]](#) Link_author
- [\[New\]](#) [\[List\]](#) Linktoread
- [\[New\]](#) [\[List\]](#) List
- [\[New\]](#) [\[List\]](#) Log
- [\[New\]](#) [\[List\]](#) Mapping

General Harvester Users Newsletters Database Meetings Accounts Permissions Viewer

Edit Post

[\[View Post\]](#) [\[List All Posts\]](#) [\[Create New Post\]](#)

Preview:

New post
2017/05/15
Today: Total: [\[Edit\]](#) [\[Delete\]](#)[\[Spam\]](#)

post_id	66715
post_type	Link
post_pretext	<i>Empty</i>
post_title	New post
post_link	<i>Empty</i>
post_author	Author List: Enter author name:

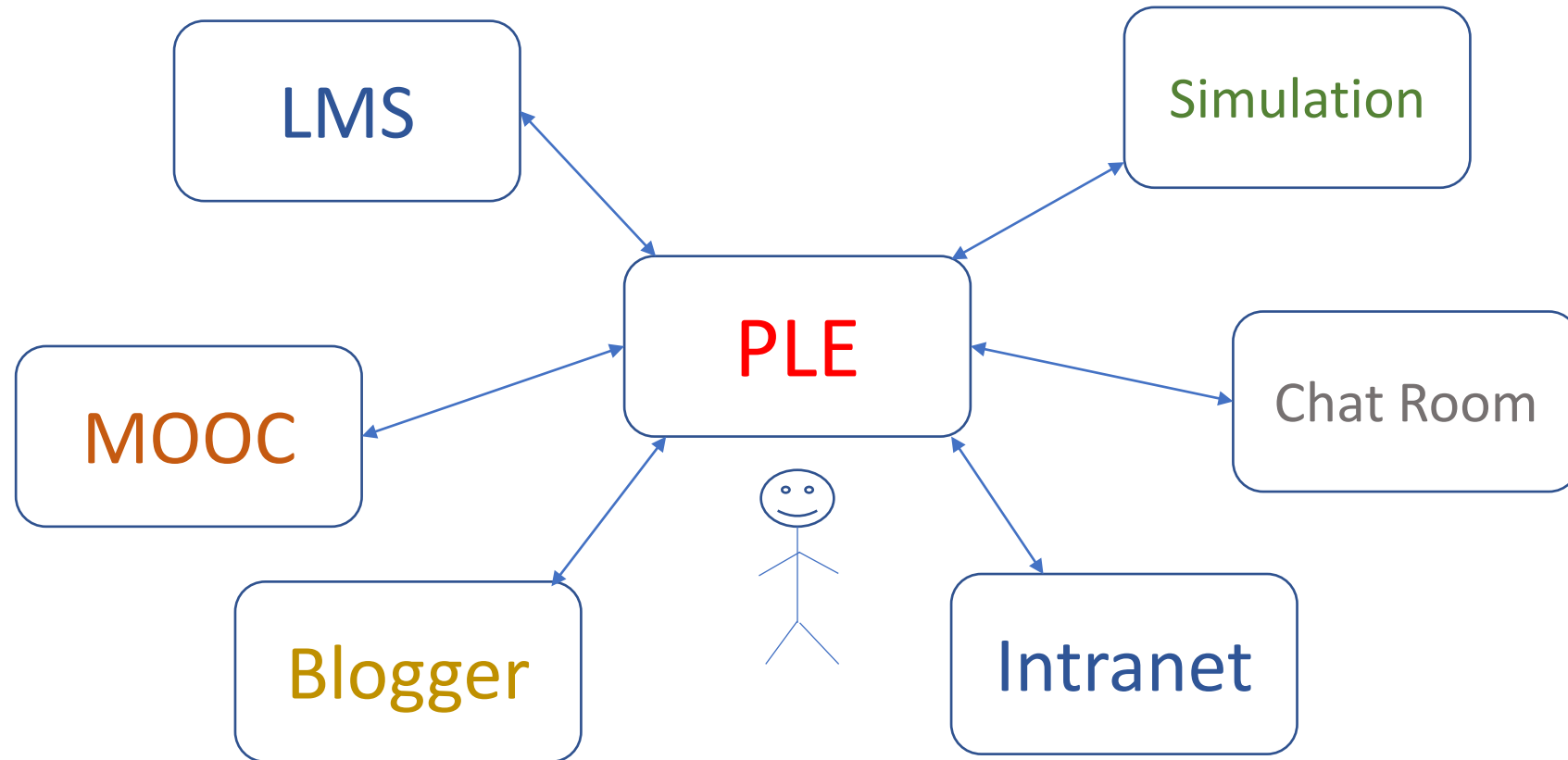
Post List

- 1 -- article, 22 Jun 1995 -- [Moo? No, this is a MAUD](#)
- 2 -- article, 22 Feb 1996 -- [Censorship My Way](#)
- 3 -- article, 26 Apr 1996 -- [Logical Fallacies: Index](#)
- 4 -- article, 6 May 1996 -- [On-Line Conferencing](#)
- 5 -- article, 18 Dec 1996 -- [Use META to add sound](#)
- 6 -- article, 22 Dec 1996 -- [Practical Solutions](#)
- 7 -- article, 23 Dec 1996 -- [Part One : Not My Religion](#)
- 8 -- article, 23 Dec 1996 -- [Part Two: Christmas Marketing Style](#)
- 9 -- article, 3 Jan 1997 -- [Existing Virtual Communities](#)
- 10 -- article, 3 Jan 1997 -- [Almost Correct?](#)
- 11 -- article, 7 Jan 1997 -- ['Trees' and other Putative 'Facts'](#)
- 12 -- article, 17 Feb 1997 -- [I Support Universal Access](#)
- 13 -- article, 4 Mar 1997 -- [Electronic Textbooks](#)
- 14 -- article, 10 Mar 1997 -- ['Professional' Web Course Design](#)
- 15 -- article, 26 May 1997 -- [Katz is Right, but for the Wrong Reasons](#)
- 16 -- article, 9 Jun 1997 -- [Looking for the Better Side](#)
- 17 -- article, 9 Jun 1997 -- ['Channeling'](#)
- 18 -- article, 8 Jul 1997 -- [Multimedia, Teaching and Learning](#)
- 19 -- article, 23 Jul 1997 -- [Distance Ed Instructional Designer](#)
- 20 -- article, 24 Jul 1997 -- [Geek Movie? Absolutely](#)

- 28460 -- link, 9 May 2017 -- [This is How Google will Collapse](#)
- 28461 -- link, 9 May 2017 -- [Experiential Learning: It's been happening for](#)
- 28462 -- link, 9 May 2017 -- [Fait Accompli: Agentive Tech Is Here](#)
- 28463 -- link, 10 May 2017 -- [Educational Technology and Education Conf](#)
- 28464 -- link, 10 May 2017 -- [Google Chrome won't be allowed on Window](#)
- 28465 -- link, 10 May 2017 -- [A Plan to Kill High School Transcripts ... an](#)
- 28466 -- link, 10 May 2017 -- [Email is the new RSS \(or a Factotum is Born](#)
- 28467 -- link, 10 May 2017 -- [Unsplashing](#)
- 28468 -- link, 11 May 2017 -- [Emotions are not hardwired but learned in ou](#)
- 28469 -- link, 11 May 2017 -- [Auto-Annotating News Articles To Scaffold I](#)
- 28470 -- link, 11 May 2017 -- [Learning's Role in Innovation](#)
- 28471 -- link, 11 May 2017 -- [Globalization at a Crossroads](#)
- 28472 -- link, 12 May 2017 -- [I So Want Try a Docker/Kitematic Containerl](#)
- 28473 -- link, 12 May 2017 -- [An Algorithm Summarizes Lengthy Text Sur](#)
- 28474 -- link, 12 May 2017 -- [Spotlight On Adea 2017 Triennial and Its Key](#)
- 28475 -- link, 12 May 2017 -- [Open Distribution of Virtual Containers as a l](#)
- 28476 -- link, 12 May 2017 -- [New post](#)
- 28477 -- link, 12 May 2017 -- [Some thoughts on Keybase, online security, a](#)
- 28478 -- link, 12 May 2017 -- [How to Become a Coach or Consultant After](#)

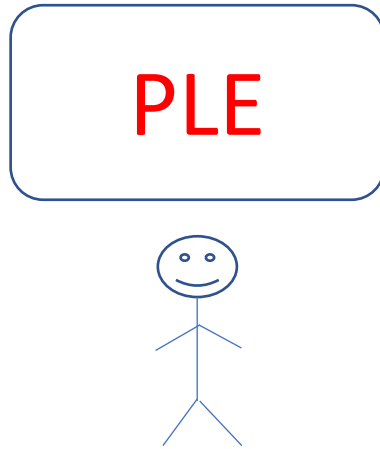
http://www.downes.ca/post_list.html

Overview of the Concept of PLEs



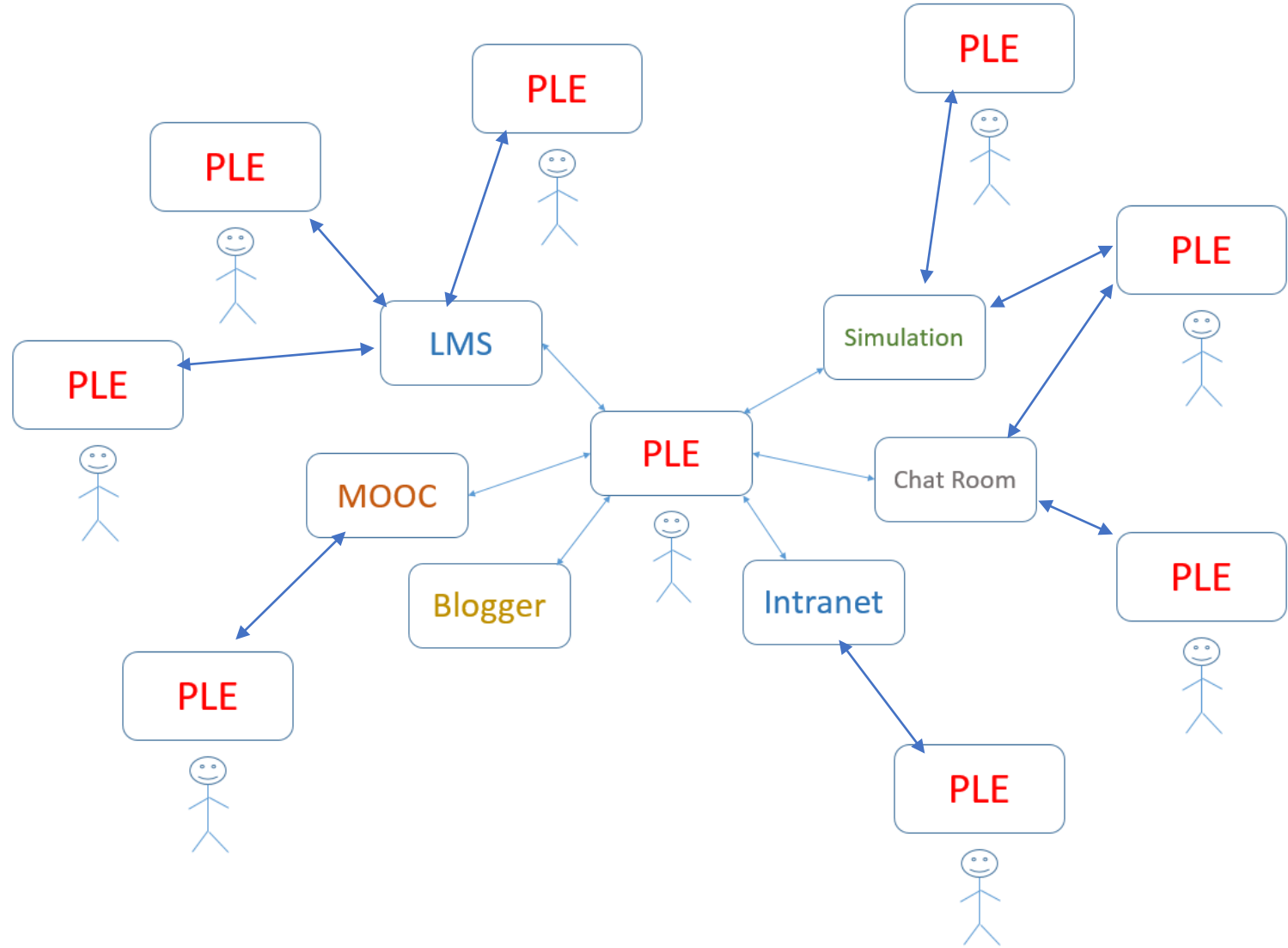
Access to many services in one personal environment

Properties of the PLE...

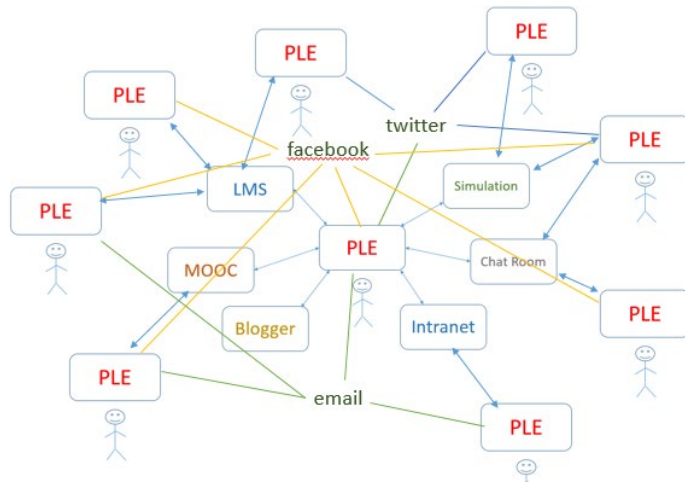


- What information should it record?
- Who owns the data? How private is it?
- What should it *do*?
- What would a person do with it?
- Where, exactly, is a PLE located?

The Network of PLEs



Properties of the Network...

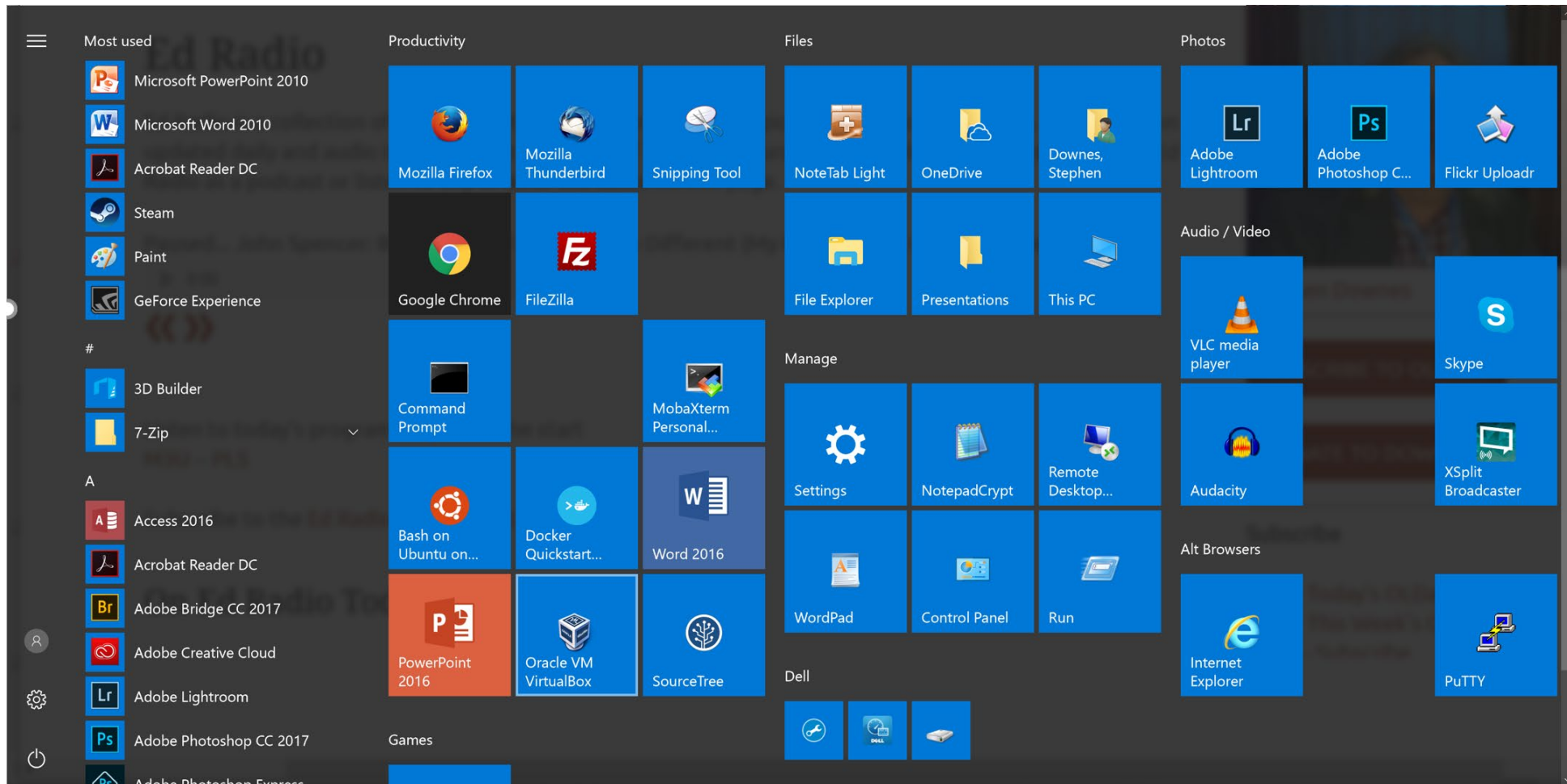


- How do people find each other? Services?
- How do they communicate? What do they share?
- How does a single PLE work with services?
- Do we need centralized registries?

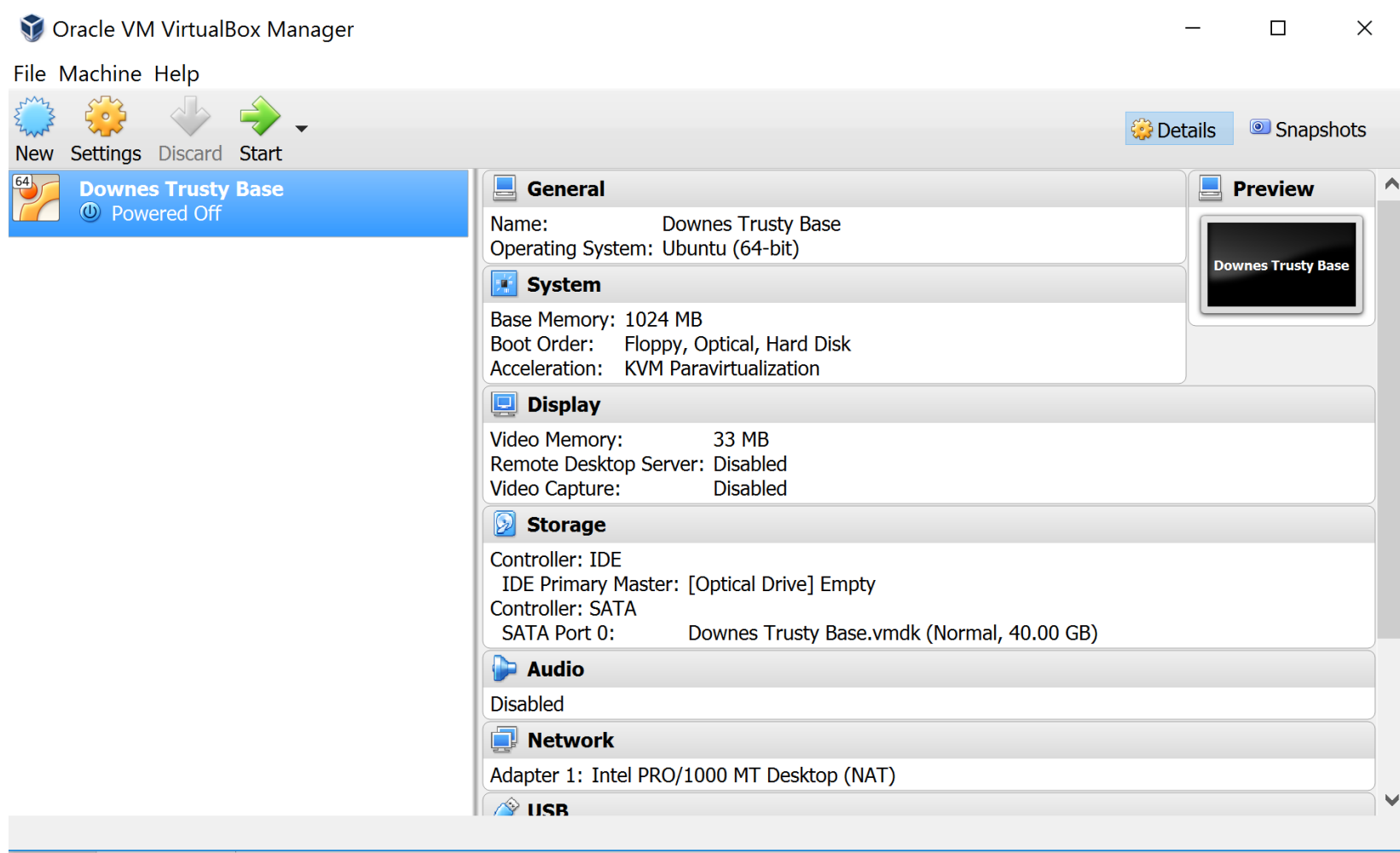
Why a personal learning environment?

- What is the *value proposition* for a PLE?
 - Note: value isn't what you can *do*, it's how you benefit
 - This is usually stated in financial terms (earn more, cost less)
 - Can also be stated in terms of quality: faster, bigger, better
 - And can be non-financial goods: satisfaction, happiness, memories

Making



Making



<https://www.virtualbox.org/>

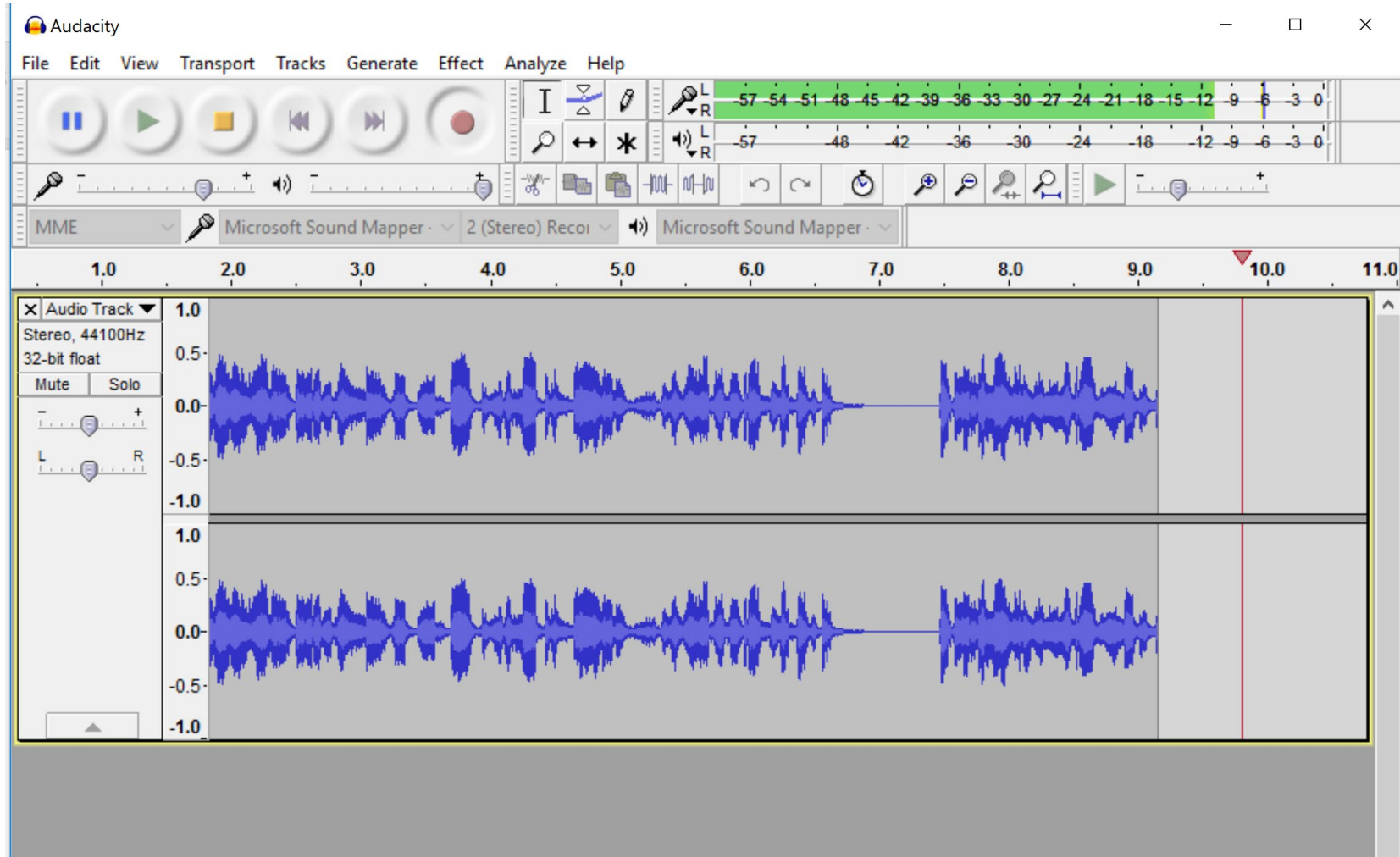
Making

Making



<https://lightroom.adobe.com/>

Making



<http://www.audacityteam.org/download/>

Making

Google Docs Search

Previous 7 days Owned by anyone Last opened by me

Document Name	Owner	Last Opened
LTSC Monthly Meeting - 9 May 2017	Avron Barr	9 May 2017
Previous 30 days		
The Future of Teaching and Learning in the Digital Age	me	3 May 2017
CCGN Open Education Platform (CC Summit, 2017)	Cable Green	25 Apr 2017
Platform Discussions at CC Summit	Kelsey Wiens	24 Apr 2017
xAPI Profiles Orientation Document	Aaron Silvers	21 Apr 2017
Intro to Phil : Plan of action	Hugh McGuire	20 Apr 2017
Earlier		
Future of Teaching and Learning	me	1 Apr 2017
CSPS Technology Integration Projects Business Case	me	31 Mar 2017
Feature Requirements Template	Geoff Graham	29 Mar 2017
Blank ChanceED Charter	dave cormier	20 Mar 2017

<https://docs.google.com/>

Making


The screenshot shows the REBUS Community forum interface. At the top, there is a navigation bar with the REBUS logo, the text 'REBUS Community', and links for 'FAQ', 'Licensing', 'Contact', and 'News'. A search icon and a 'Login / Sign Up' button are also present. Below the navigation bar, the breadcrumb trail reads: 'Home / Projects: Active Open Textbook Projects / [PHIL] Introduction to Philosophy [lead: Christina Hendricks, UBC]'. A blue button labeled 'Log in to post' is visible. The main content area displays a list of forum posts for the category '[PHIL] INTRODUCTION TO PHILOSOPHY [LEAD: CHRISTINA HENDRICKS, UBC]'. Each post includes a user profile picture, a title, the time since posted, the author's name, the number of posts, and the number of views. The first post is titled 'General Project / Book Info & Discussion' by user 'hugh', posted 6 months ago, with 170 posts and 24.1k views. It includes a comment from '@geoslack' from about 18 hours ago. The second post is 'Project Leads Discussion' by 'zoe', posted 21 days ago, with 7 posts and 154 views. The third is 'Ethics [section ed: George Matthews]' by 'hugh', posted 2 months ago, with 28 posts and 1.1k views, including a comment from '@geoslack'. The fourth is 'Aesthetics [section ed: W. Scott Clifton]' by 'hugh', posted 2 months ago, with 18 posts and 647 views, including a comment from '@wturgeon'. The fifth entry is 'This topic is deleted!' by 'hugh', posted 2 months ago, with 1 post and 3 views, and no replies.

Post Title	Author	Time Ago	Posts	Views	Replies
General Project / Book Info & Discussion	hugh	6 months ago	170	24.1k	1
Project Leads Discussion	zoe	21 days ago	7	154	0
Ethics [section ed: George Matthews]	hugh	2 months ago	28	1.1k	1
Aesthetics [section ed: W. Scott Clifton]	hugh	2 months ago	18	647	1
This topic is deleted!	hugh	2 months ago	1	3	0

<https://forum.rebus.community/category/17/phil-introduction-to-philosophy-lead-christina-hendricks-ubc>

Making

SCREEN CAPTURE



The screenshot displays the XSplit Broadcaster software interface. On the left, the 'Scene Sources' panel shows a checked window region '20140915174257.mp4 - VLC media player' in 'vlc.exe' process. The 'Current Scene' panel shows 'Scene 1' selected. The main preview window shows a smaller version of the video being captured. On the right, the VLC media player window is shown in full, displaying the same video content. The VLC window title is '20140915174257.mp4 - VLC media player' and it shows playback controls at the bottom.

XSPLIT BROADCAST V2'S NEW SCREEN CAPTURE ALLOWS FOR THE CAPTURE OF A SPECIFIC REGION OF A WINDOW!

<https://www.xsplit.com/>

Sharing



Stephen Downes

Knowledge, Learning, Community

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[Publications](#)

[Newsletter](#)

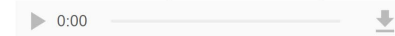
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Ed Radio

Ed Radio is a collection of audio reports centered around the topics of education and media. The collection is updated daily and audio is drawn from a number of different sources, listed below. You can subscribe to Ed Radio as a podcast or listen to any or all of the items on this page.

Paused... John Spencer: Be Wildly and Unabashedly Different (My Hope for My Cohort as They Graduate)



Listen to today's programming from the start

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<http://www.downes.ca/edradio.htm>



Stephen Downes

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Sharing

Half an Hour

A place to write, half an hour, every day, just for me.

Saturday, April 22, 2017

How We Know

In my view, knowledge is a subjective feel, but there's a nice story behind it.

The subjective feel appears circular: I say that I know when I can't not know.

The story lies in the cause of this subjective feel: to know is to recognize.

Recognition is involuntary, hence the modality of 'can't not know'. It is also non-grounded. The subjective feel is the knowledge.

It's like recognizing a person. Your mother walks through the train station and you pick her out of the crowd. This recognition is not based on any particular rule or principle, not based on any essential features, not based on any inferential process.

Yes, you could be mistaken in the train station - an alien disguised as your mother may have appeared instead. But your knowledge is not at fault. You know what your mother looks like; that's where your certainty lies.



Stephen Downes

Writer, philosopher, educator, journalist. Specialist in online learning and new media technologies. For social networks, papers, presentations and newsletter please visit my home page at <http://www.downes.ca>

<http://halfanhour.blogspot.com>

Sharing

The screenshot shows the SlideShare website interface. At the top, there is a navigation bar with the SlideShare logo, a search bar, and an 'Upload' button. Below the navigation bar, there are tabs for 'Home', 'Technology', 'Education', 'More Topics', 'My Clipboards', and 'For Uploaders'. The main content area is divided into two columns. The left column displays the profile of Stephen Downes, including his profile picture, a bio, location (Moncton, New Brunswick, Canada), and various statistics (335 SlideShares, 2,045 Followers, 2 Clipboards). The right column features a presentation player for 'Open Learning, Open Networks' by Stephen Downes, with a video player showing a street scene and a list of other presentations on the right side.

Stephen Downes
335 SlideShares
2,045 Followers
2 Clipboards

Moncton, New Brunswick, Canada
Researcher
Technology / Software / Internet
www.downes.ca
<http://www.downes.ca>
Twitter LinkedIn

Ads You May Be Interested In

- Free 5s Warehouse Guide**
Thousands of warehouse managers have used 5s to improve safety & efficiency
- Easy to Use ITSM Software**
Easy Integration with Highly

Open Learning, Open Networks 4,805

Presentations 334

- Open Learning, Open Networks
- Developing a Personal Learning Environment
- Personal learning environments and technologies
- Trends in education

Documents 1
Infographics 0
Videos 0

<https://www.slideshare.net/Downes>

Sharing



Stephen Downes

Knowledge, Learning, Community



Open Learning, Open Networks



SUNY Open COTE 2017, Syracuse, New York, .

Open online learning entered the mainstream with the growth and popularity of MOOCs, but while interest in open online courses has never been greater MOOCs represent only the first step in a broader open learning infrastructure. In this keynote Stephen Downes will describe several key innovations shaping the future of open learning: distributed social networks, cloud infrastructures and virtualization, immersive reality, and personal learning environments. The talk will outline the challenges this evolving model will pose to learning providers and educational institutions and recommend policies and processes to meet them. [Link to hosted video.](#)

Keynote, Mar 09, 2017.

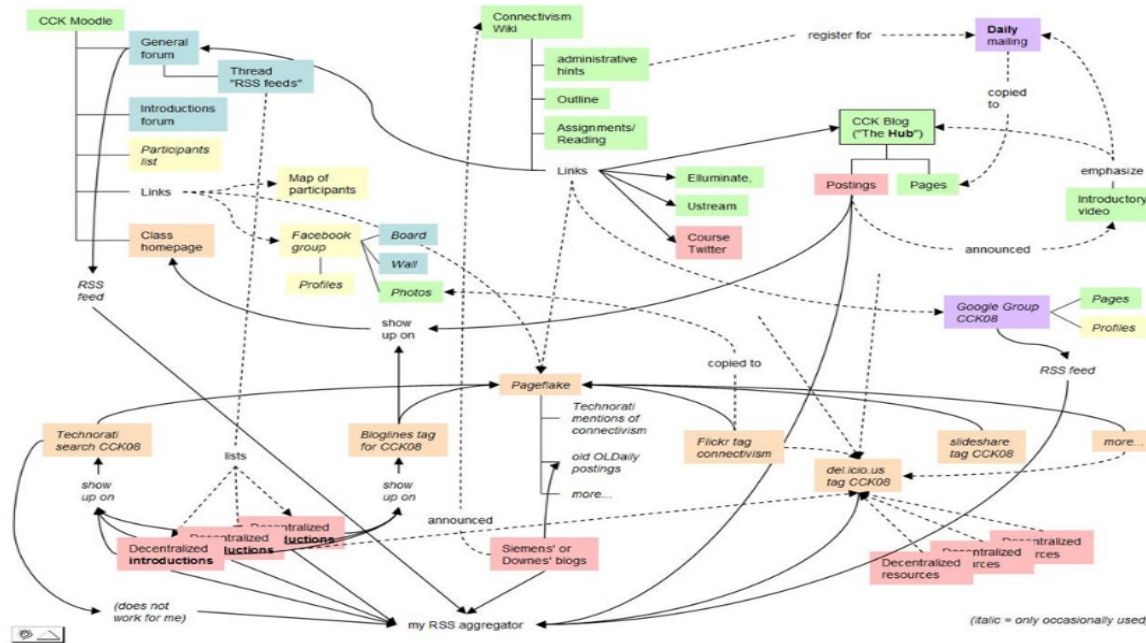
Downloads: [\[Slides\]](#) [\[Audio\]](#) [\[Conference Link\]](#)

<http://www.downes.ca/presentation/468>

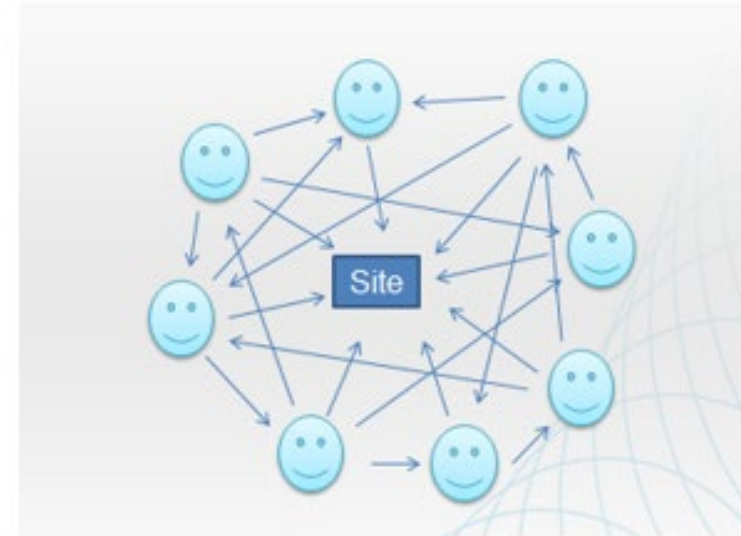
New learning Paradigms

Path	Field
Course	Curriculum (as in 'mapping')
Sequence / Prerequisite	Core / periphery / foundation
Movement / covered	Inquiry / Discovery / Gaps
Threshold / Levels	Coverage / Construction
Positioning – first / last	Grouping / Clustering
Objective / target	Serendipity / emergence
Leading / Led	Centred

The Connectivist MOOC (cMOOC) Design



A MOOC is a Web, not a Website

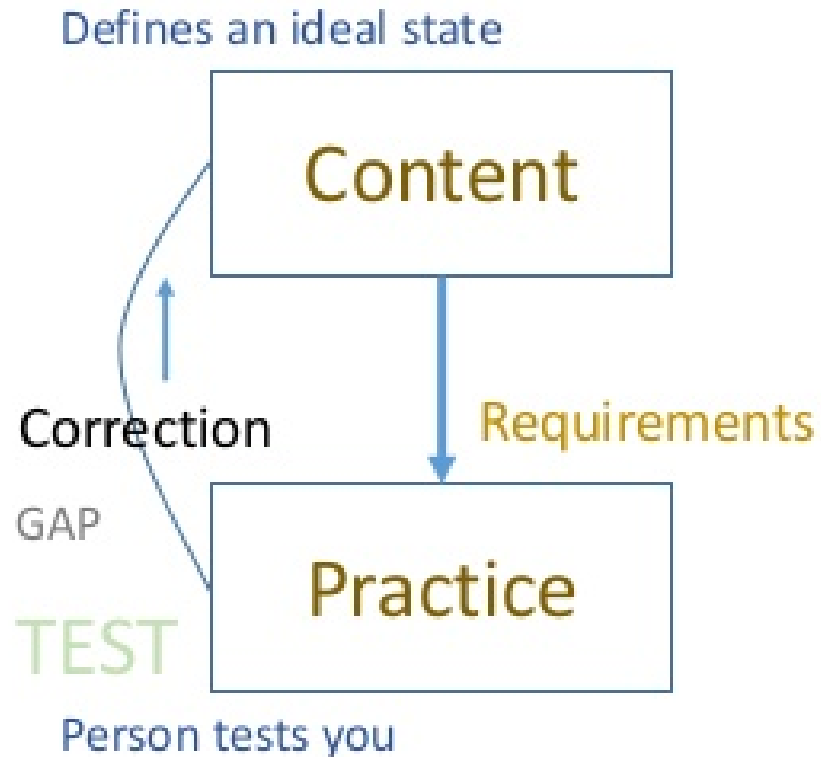


Instead of seeing a course as a series of contents to be presented, a course is a **network of participants** who find and exchange resources with each other

- An initial structure is developed and 'seeded' with existing **OERs**
- Participants **encouraged** to use their own sites to create or share resources
- A mechanism (gRSShopper) is employed to **connect them**

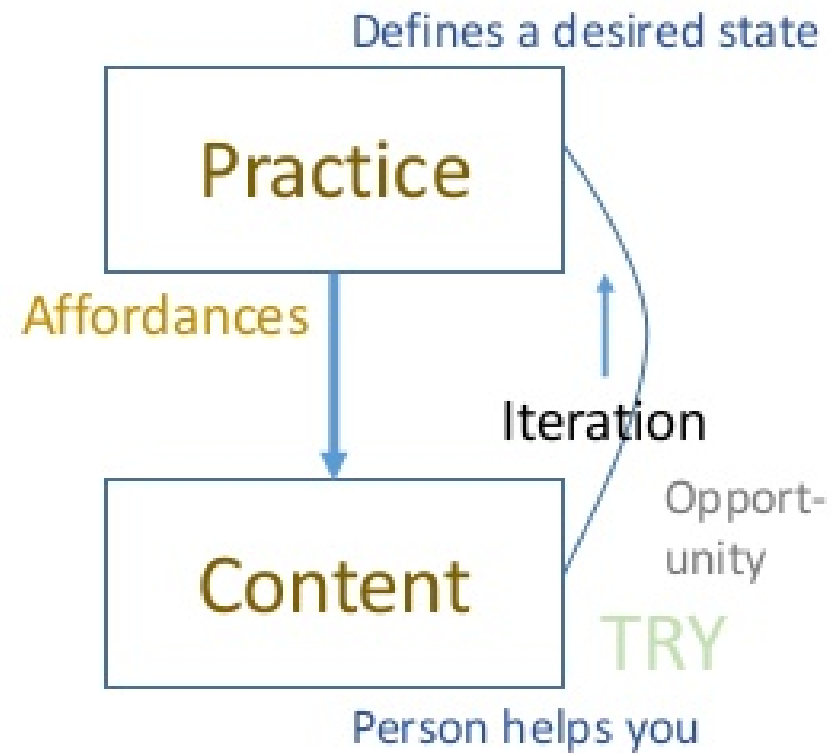
Personalized

We do for you



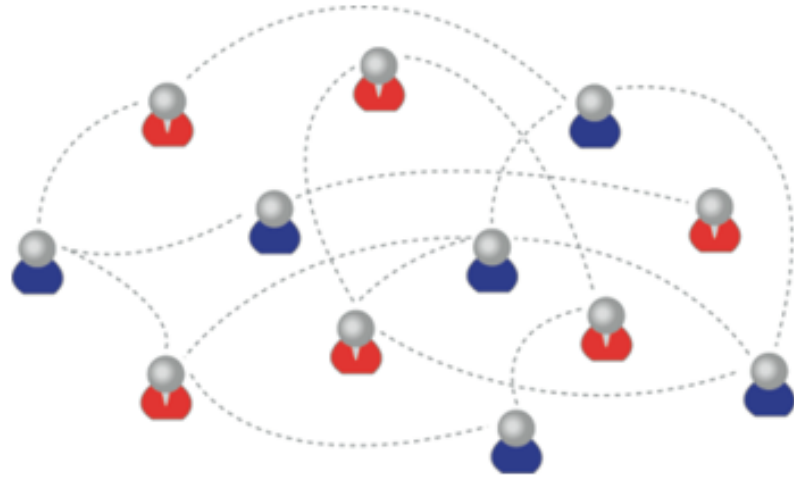
Personal

You do for yourself



Learning is Personal

Learning Outcomes



We are using one of these

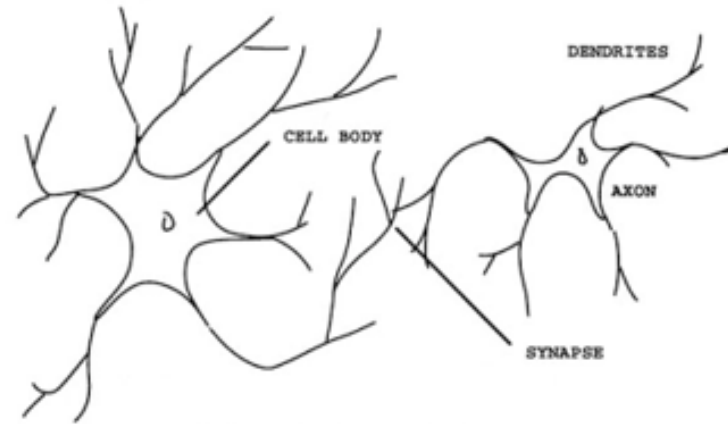


Figure 1. Biological Neuron

To create one of these

- Learning a discipline is a total state and not a collection of specific states
- It is obtained through immersion in an environment rather than acquisition of particular entities
- It is expressed functionally (can you perform 'as a geographer'?) rather than cognitively (can you state 'geography facts' or do 'geography tasks'?)

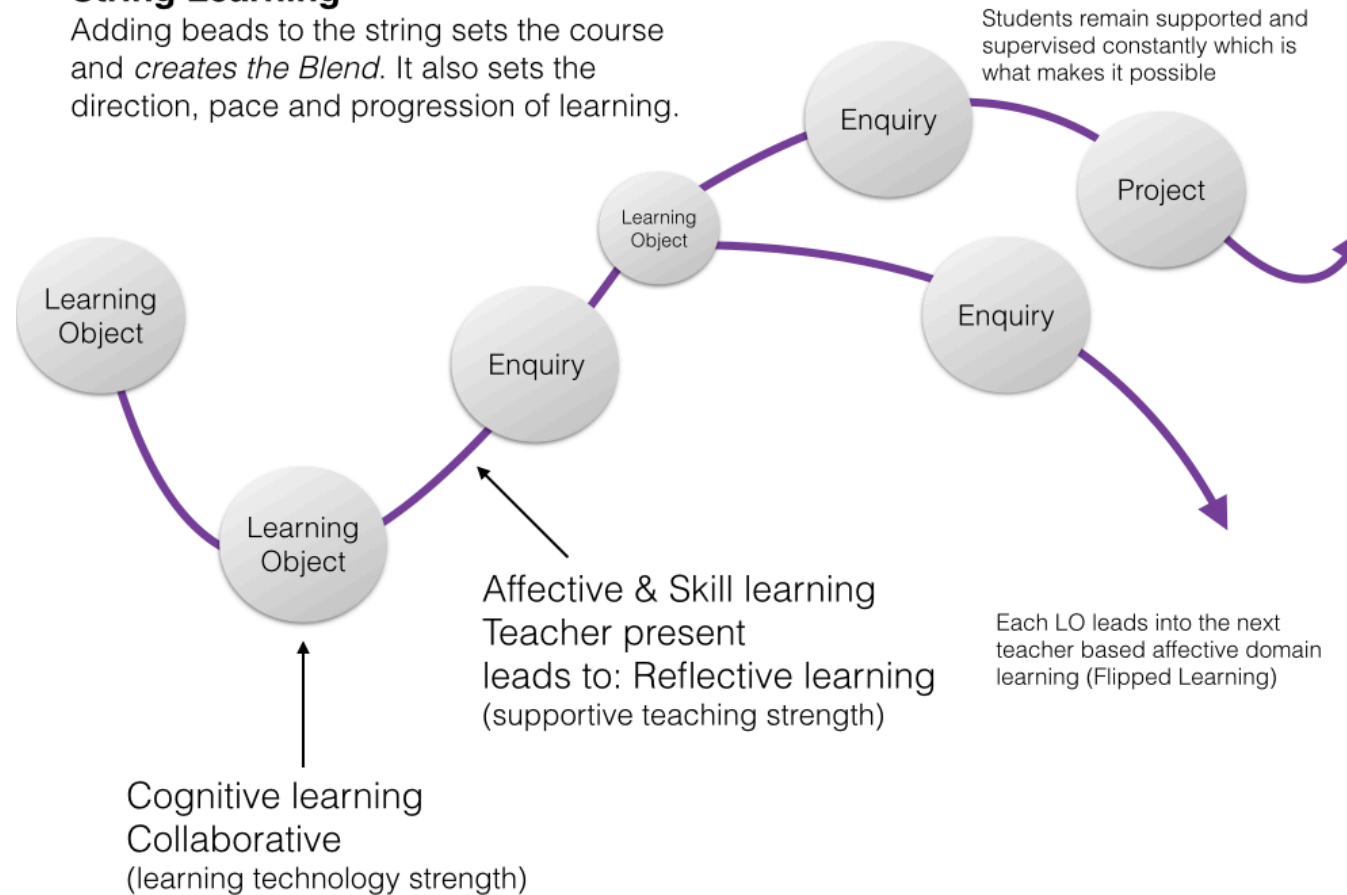
Extended Cognition

- More than neural networks?
 - Embodied learning, stigmergy, extended memory (Andy Clark)
- Is my library a part of my cognition?
 - Which books?
- The problem of explanation

Cloud Environments

String Learning

Adding beads to the string sets the course and *creates the Blend*. It also sets the direction, pace and progression of learning.



<https://www.linkedin.com/pulse/string-learning-blend-objects-geoff-rebbeck?articleId=6932346018329088240>

Cloud Environments

The screenshot displays the AWS Management Console interface. At the top, there's a navigation bar with 'Services', 'Resource Groups', and user information 'Stephen Downes'. A left-hand navigation menu lists various services like EC2 Dashboard, Events, Tags, Reports, Limits, INSTANCES, IMAGES, ELASTIC BLOCK STORE, and NETWORK & SECURITY. The main content area shows a list of EC2 instances with columns for Name, Instance ID, Instance Type, Availability Zone, Instance State, Status Checks, Alarm Status, Public DNS (IPv4), and IPv4 Public IP. Three instances are listed: LRS, PLE, and C and L, all in a 'running' state. Below the list, the details for instance 'i-0203360f8deec276b (LRS)' are shown, including its Public DNS, IPv4 Public IP, and various network and IAM settings.

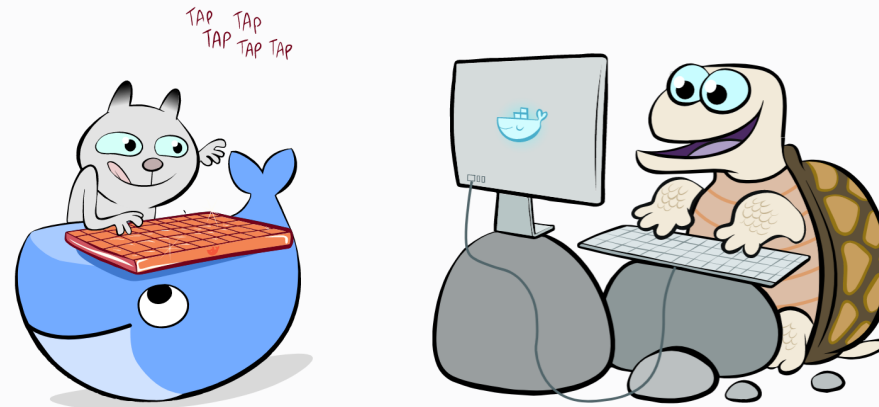
Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP
LRS	i-0203360f8deec276b	t2.micro	ca-central-1a	running	2/2 checks ...	None	ec2-52-60-218-119.ca-c...	52.60.218.119
PLE	i-086b155fce285dd7f	t2.medium	ca-central-1b	running	2/2 checks ...	None	ec2-52-60-175-41.ca-ce...	52.60.175.41
C and L	i-0d76c770a3b511f94	t2.medium	ca-central-1a	running	2/2 checks ...	None	ec2-52-60-150-138.ca-c...	52.60.150.138

Instance: i-0203360f8deec276b (LRS)		Public DNS: ec2-52-60-218-119.ca-central-1.compute.amazonaws.com	
Instance ID	i-0203360f8deec276b	Public DNS (IPv4)	ec2-52-60-218-119.ca-central-1.compute.amazonaws.com
Instance state	running	IPv4 Public IP	52.60.218.119
Instance type	t2.micro	IPv6 IPs	-
Elastic IPs		Private DNS	ip-172-31-30-33.ca-central-1.compute.internal
Availability zone	ca-central-1a	Private IPs	172.31.30.33
Security groups	launch-wizard-4 . view inbound rules	Secondary private IPs	
Scheduled events	No scheduled events	VPC ID	vpc-739b5b1a
AMI ID	ubuntu/images/hvm-ssd/ubuntu-xenial-16.04-amd64-server-20170202 (ami-7b74c91f)	Subnet ID	subnet-e401ce8d
Platform	-	Network interfaces	eth0
IAM role	-	Source/dest. check	True

<https://aws.amazon.com/console/>

Cloud Environments

A Better Way to Build Apps



ESCAPE THE APP DEPENDENCY MATRIX

Eliminate the “it works on my machine” problem once and for all. Package dependencies with your apps in Docker containers for portability and predictability during development, testing, and deployment.

WORKS WITH ANY STACK

Deploy both microservices and traditional apps anywhere without costly rewrites. Isolate apps in containers to eliminate conflicts and enhance security.

BETTER TEAM COLLABORATION

Streamline collaboration between developers and operators and get features and fixes into production faster. Productive developers doing frequent releases unleashes creativity to build awesome software.

<https://www.docker.com/>

















Learning Record Store

xAPI Statement Viewer

Statement List Get Statements ↻

Query Options ➤

Show entries Search:

Timestamp 	Actor Name 	Verb 	Object Name 	Object Type 	Authority Name 	
in 7 minutes	zlw7m	clicked	http://adnet.github.io/xAPI-Dashboard	Activity	tom	
in 7 minutes	zlw7m	clicked	http://adnet.github.io/#reporting	Activity	tom	
in 7 minutes	zlw7m	clicked	http://adnet.github.io/#	Activity	tom	
in 7 minutes	zlw7m	clicked	http://adnet.github.io/#scorm	Activity	tom	
in 7 minutes	zlw7m	clicked	http://adnet.github.io/#mobile	Activity	tom	
in 7 minutes	zlw7m	clicked	http://adnet.github.io/#reporting	Activity	tom	
in 7 minutes	zlw7m	clicked	http://adnet.github.io/#aptools	Activity	tom	
in 7 minutes	zlw7m	clicked	http://adnet.github.io/xAPI-Dashboard	Activity	tom	
in 6 minutes	zlw7m	clicked	http://adnet.github.io/xapi-statement-viewer	Activity	tom	
in 6 minutes	zlw7m	clicked	http://adnet.github.io/#lrstools	Activity	tom	

<http://adnet.github.io/xapi-statement-viewer/>

Cloud Services

Issue 3, 2017

WOLFRAM  **INSIDER**



JUST RELEASED

Wolfram Data Repository »

Building on the Wolfram Data Framework and the Wolfram Language, the Wolfram Data Repository provides a uniform system for storing data and making it immediately computable and useful. It is built to be a global resource for public data and data-backed publication.

 Read Stephen Wolfram's Data Repository [blog](#).

<https://datarepository.wolframcloud.com/>

Stephen Downes

<http://www.downes.ca>



<http://www.downes.ca/presentation/389>