

# A Model of Personal Learning

Take Two

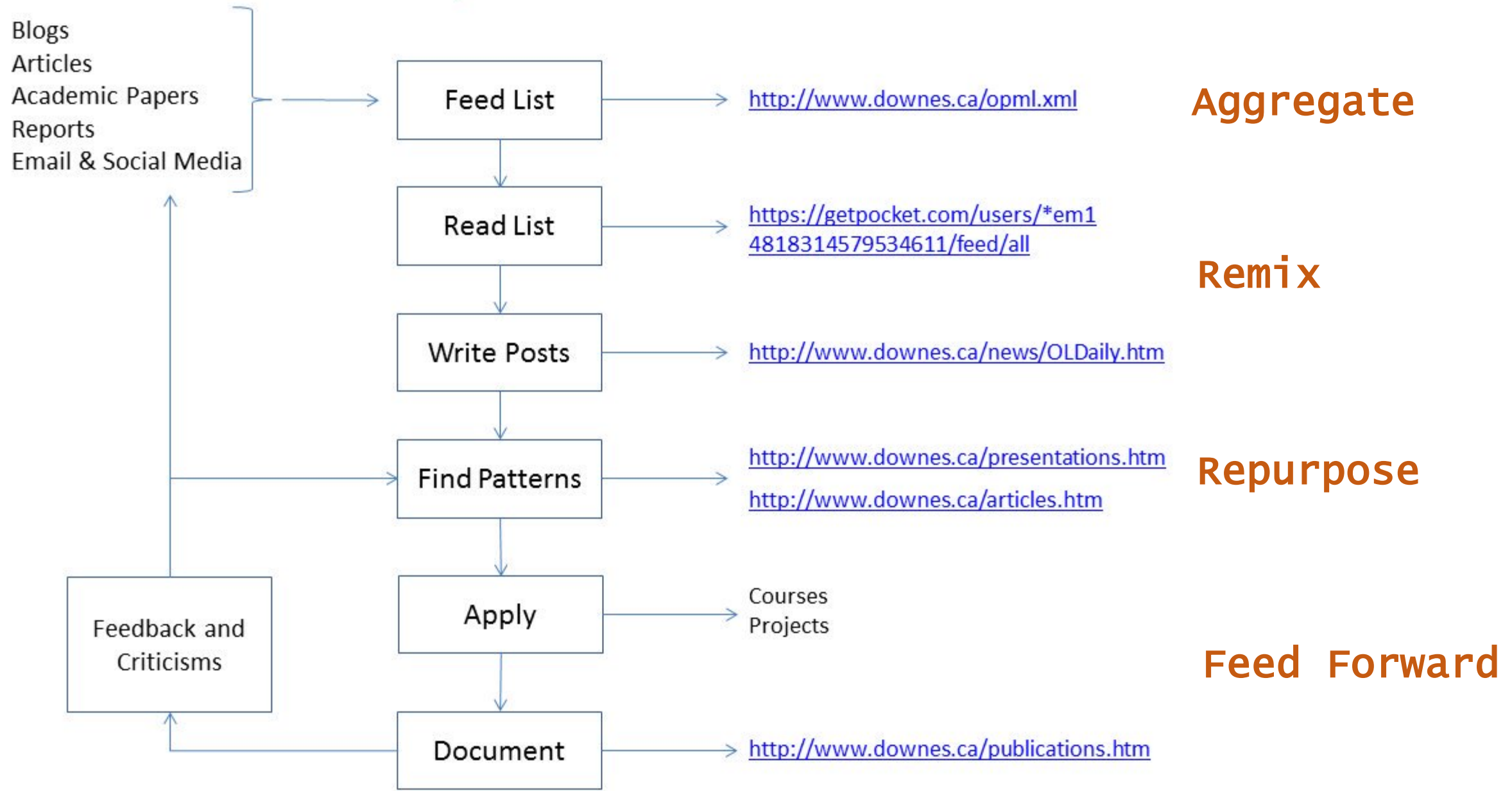


Stephen Downes  
Ghent, June 20, 2017

# Three Decades of Enquiry...

- 1986 – Models and Modality
- 1993 – The Network Phenomenon
- 1997 – Online Learning Environment (Ole)
- 1998 – The Future of Online Learning
- 1998 – Content Syndication and Online Learning
- 2000 – Learning Objects
- 2001 – Knowledge, Learning, Community
- 2001 – From Virtual to Reality
- 2002 – The Learning Marketplace
- 2003 – E-Learning 2.0
- 2004 – Horse and Palm Tree / Reading the Signs / “We are But Stewards”
- 2004 – Connectivism and Connective Knowledge
- 2006 – Models for Sustainable OER
- 2006 – Groups and Networks / The Semantic Condition
- 2007 – Personal Learning Environment
- 2007 – Personal Learning Environment
- 2008 – Massive Open Online Courses / Open Instruction
- 2009 – Speaking in LOLcats
- 2010 – Role(s) of the Educator
- 2010 – Critical Literacies
- 2011 – Knowledge as Recognition
- 2012 – Learning and Performance Support
- 2014 – Collaboration vs Cooperation
- 2014 – Personal Learning
- 2014 – The Personal Graph
- 2015 – Design vs Environment (Outcomes vs Affordances)
- 2016 – Change Drivers and Attractors / Transformation

# Stephen Downes Research Workflow



# 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 standards-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 a Gmail inbox with the following email list:

Name	Subject	From	Date
stephen@downes.ca	Greetings and invitatio...	JOSE MANUEL SAN...	2017-01-05 3:02 PM
downess on owa.nrc.ca	Greetings and invitatio...	JOSE MANUEL SAN...	2017-01-05 3:03 PM
stephen@downes.ca	Re: Greetings and invit...	Downes, Stephen	2017-01-09 12:21 PM
downess on owa.nrc.ca	Re: Greetings and invit...	Downes, Stephen	2017-01-09 12:23 PM
Templates	Re: Greetings and invit...	JOSE MANUEL SAN...	2017-01-13 4:00 PM
Sent	Re: Greetings and invit...	Downes, Stephen	2017-01-13 4:36 PM
stephen@downes.ca	Re: Greetings and invit...	JOSE MANUEL SAN...	2017-01-13 4:55 PM
downess on owa.nrc.ca	Re: Greetings and invit...	JOSE MANUEL SAN...	2017-02-14 9:24 PM
Archives	Re: Greetings and invit...	Downes, Stephen	2017-02-20 11:03 AM
Local Folders	Re: Greetings and invit...	JOSE MANUEL SAN...	2017-02-22 3:15 PM
2017	Re: Greetings and invit...	JOSE MANUEL SAN...	2017-02-23 10:38 AM
Junk (36)	Invitation letter (Mexico)	JOSE MANUEL SAN...	2017-03-02 2:04 PM
stephen@do...es.ca (36)	Re: Invitation letter (M...	JOSE MANUEL SAN...	2017-03-02 2:08 PM
downess on owa.nrc.ca	Mexico Conference!!!	JOSE MANUEL SAN...	2017-03-29 2:53 PM
Trash	Re: Mexico Conference!!!	JOSE MANUEL SAN...	2017-03-29 4:28 PM
stephen@downes.ca	Re: Mexico Conference!!!	JOSE MANUEL SAN...	2017-03-30 11:10 AM
Deleted Item... owa.nrc.ca	Flight tickets	JOSE MANUEL SAN...	2017-04-26 9:10 AM
Trash - down... owa.nrc.ca	Re: Flight tickets	JOSE MANUEL SAN...	2017-04-26 9:13 AM
Local Folders	Flight tickets	JOSE MANUEL SAN...	2017-04-26 9:28 AM
Outbox	Re: Flight tickets	JOSE MANUEL SAN...	2017-04-27 12:08 AM
Local Folders			
stephen@downes.ca			
_conferences			

The selected email is from JOSE MANUEL SANCHEZ SORDO to Stephen Downes. The subject is "Greetings and invitation from Mexico." The body of the email reads:

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.

# A Day in the Life?

The screenshot displays the EveryCloud web interface for user stephen@downes.ca. The interface includes navigation tabs for Workspace, Account, Black/Whitelist, and Statistics. Below these are tabs for Email Search and Email Archive. A 'User options' section contains a 'Report spam' dropdown and a 'Perform action' button. The main area shows an email inbox for 'Incoming' mail, displaying 'Page 1 of 4 pages (373)'. The inbox table has columns for Date, Encryption, From, To, Subject, Display filter, Reason, Status, and Size. The table contains 15 rows of email data, each with a 'Preview' button. At the bottom, there are controls for '100 Rows per page', 'Export (.csv)', and 'Page' navigation.

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 greates	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	scorew2	Delivered	18 kB	Preview
15.05.2017	TLS	postmaster@seap.minhap.es	stephen@downes.ca	Warning: could not send message for pa	Clean	scorew2	Delivered	15 kB	Preview
15.05.2017	TLS	postmaster@seap.minhap.es	stephen@downes.ca	Warning: could not send message for pa	Clean	scorew2	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

<http://postlayer.com/>

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

# A Day in the Life?

**Yes this is my start page**

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

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



# A Day in the Life?

The screenshot shows the Feedly web application interface. The browser address bar displays <https://feedly.com/i/latest>. The left sidebar contains a navigation menu with sections for 'Today', 'Read later', and 'FEEDS'. Under 'FEEDS', the 'All' feed is selected, showing 340 unread articles. Below this, a list of categorized feeds is visible, including 'ed - admin', 'ed - analytics', 'ed - companies', 'ed - computing', 'ed - consultants', 'ed - corporate', 'ed - design', 'ed - faculty', 'ed - foundations', 'ed - higher ed', 'ed - instructional design', 'ed - international', 'Ed - Journals', and 'ed - languages'. The main content area is titled 'All' and shows 340 unread articles. A search bar is located in the top right of the main area. The featured article is titled 'Here We Go Again: Net Neutrality' by ACRLog by Maura Smale, with a 2-minute read time. Below the article title is a 'NOTES' section with an 'Add note' button. The article text begins with: 'With so much in the news since the new federal administration took office earlier this year it's easy to be overwhelmed – I certainly have been, especially in recent weeks. So you might have missed the announcement that the Federal Communications Committee has proposed to repeal regulations on commercial internet providers that guarantee net neutrality. Net neutrality is an admittedly somewhat clunky term that requires companies that sell internet access to treat all content equally. As a concept it's a bit easier to explain using the negative'.

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

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

# A Day in the Life?

My List

The continuing rise of graph databases

```
MATCH (character_name:'The Doctor',
-[:APPEARED_IN]->(ep:Episode),
(character_name:'Kathleen Fey')
-[:APPEARED_IN]->(ep:Episode)
WITH ep
MERGE (ep)-[:APPEARED_IN]->(c)-[:APPEARED_IN]->(ep)
```

Compliance is Not the End Goal of Education

EE	Quick Definition Statements	What it looks like	The Silicon Slack Trade (Why?)	Exam statements to the 100+ Profound Learner
uplast	Learning because I have to	Have little to no interest in learning material but doing as I am asked for it.	Seeing the "how" and the "what" but not understanding relevance for learning.	"Why are we class?"
asend	Learning because I see interest.	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 we"
overed	Learning because I want to add my value in creating a network and/or others.	Creating, making, and showcasing learning that is meaningful to the network. Learning is becoming intrinsically valued.	Striving to create their own "why" and responding to real life situations, meaning something of value.	"I started on and have to return to my study. Why I do this class."

Competency-Based Education

Sharing some stuff from my open EdTech road show

OER-Enabled Pedagogy

One business case for OER examined

Why You Should Try Mastodon

delicious social bookmarking

It's Free!

The best sites bubble up. See the most popular bookmarks for any tag.

Search the biggest collection of bookmarks in the universe...

Fresh Bookmarks Hotlist Explore Tags

The most popular bookmarks on Delicious right now

Five Useful Design Techniques and Coding Solutions For Web Designers - Smashing Magazine

8 Bad Habits that Crush Your Creativity And Stifle Your Success | Copylogger

<https://getpocket.com>

# A Day in the Life?

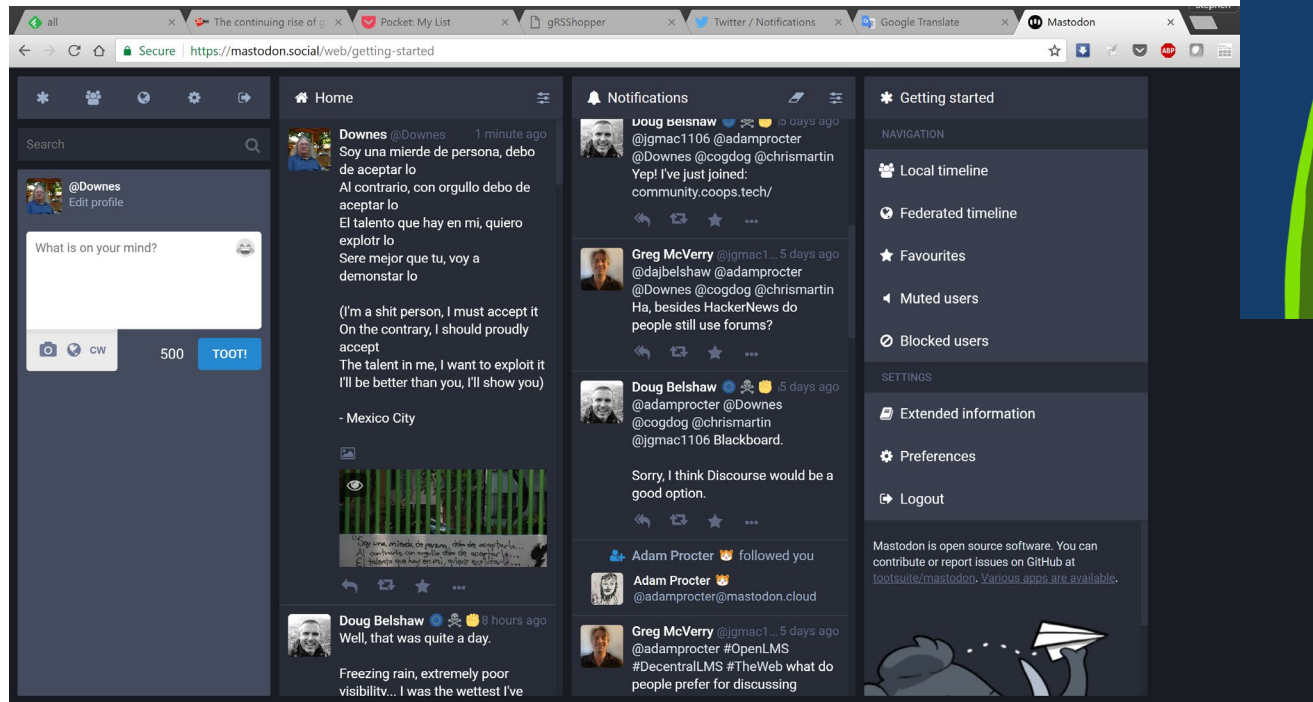
<https://www.linkedin.com/in/stdownes/>

The image displays three overlapping social media profiles for Stephen Downes. The top profile is LinkedIn, showing a search bar, navigation icons (Home, My Network, Jobs, Messaging, Notifications, Me, Work), and a profile card for Stephen Downes, National Research Council Canada, with 500+ connections. The middle profile is Twitter, showing a browser window with the URL <https://twitter.com/downes>, a profile picture, a bio, and statistics: 7,375 tweets, 1 following, 8,936 followers, 9 likes, and 0 moments. The bottom profile is Google+, showing a browser window with the URL <https://plus.google.com/u/0/+StephenDownes>, a profile picture, a bio, and a grid of photos.

<https://twitter.com/downes>

<https://plus.google.com/u/0/+StephenDownes>

# A Day in the Life?



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

α APP.NET

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



# Learning

codecademy

Dashboard

▼ Courses

📎 Ruby 0%

📎 Python 100%

Get Started



stackoverflow Questions Developer Jobs Documentation BETA Tags Users Search... Log In Sign Up

## Multiple AVCaptureVideoDataOutput in same AVCaptureSession

Ask Question

I was wondering if it's possible to add multiple `AVCaptureVideoDataOutput` to `AVCaptureSession` with a single camera device input?

3

My experiments indices that adding a second `VideoDataOutput` will cause `canAddOutput` return NO. But I couldn't find anywhere on Apple's documentation says multiple data output is disallow.

ios iphone ios-camera

asked Jun 15 at 21:29  
Jason Guo 1,596 1 4 11

This question has an open bounty worth +50 reputation from Jason Guo ending in 6 days.  
Looking for an answer drawing from credible and/or official sources.  
I would like to see a credible source that clarify if this is feasible or not, either from an apple support engineer or Apple documentation. Alternatively, a work-around of this problem is acceptable too.

add a comment

asked 4 days ago  
viewed 29 times  
active today

### Related

- 30 How to properly release an AVCaptureSession
- 11 AVCaptureSession with multiple Outputs?
- 0 iOS SDK: Adding AVCaptureVideoDataOutput to AVCaptureSession causes it to slowly leak memory indefinitely
- 2 Can I have AVCaptureVideoDataOutput and AVCaptureMovieFileOutput in the same session?
- 6 AVCaptureSession capture output crashing (AVCaptureVideoDataOutput) in IOS7

Resume (0%)

<https://stackoverflow.com>

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

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

# Learning

The image shows a screenshot of the Athabasca University website. The main content area features a news article titled "Next CIDER Webinar Monthly Session – June 3" dated June 2, 2015. Below the article are social media sharing buttons for Facebook, Twitter, Google+, Pinterest, and LinkedIn. A banner for "CIDER SESSIONS SPECIAL SEASON 2014-15 The Community of Inquiry Webinars" is visible. The right sidebar contains an "Email Newsletter" sign-up form, a "Connect with AU" section with social media icons, and an "Online Event" section for "Corporate Learning Management" on June 27, 2017, with a "Register" button. A URL is provided for the event: <https://www.elearningguild.com/content.cfm?selection=doc.2973>. The top of the page features a navigation menu with "TECHNICAL COMMUNICATION", "ELEARNING", and "COLDFUSION". A large graphic of a world map with orange location markers is overlaid on the right side of the page.

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

# Saving

www.downes.ca/cgi-bin/admin.cgi?action=edit&post=66923

General Harvester Users Newsletters Database Meetings Accounts Permissions Viewer

## Edit post


[Admin]

[New] [List] Author  
[New] [List] Banned\_sites  
[New] [List] Box  
[New] [List] Chat  
[New] [List] Cite  
[New] [List] Config  
[New] [List] Course  
[New] [List] Event  
[New] [List] Feed  
[New] [List] Field  
[New] [List] File  
[New] [List] Form  
[New] [List] Graph  
[New] [List] Journal  
[New] [List] Link  
[New] [List] Media  
[New] [List] Optlist  
[New] [List] Page  
[New] [List] Person  
[New] [List] Post  
[New] [List] Presentation  
[New] [List] Project  
[New] [List] Provider  
[New] [List] Publication  
[New] [List] Queue

[View Post] [List All Posts] [Create New Post]

Preview:

**Innovation Starts At Home...?**  
Tony Hirst, OUInfo, 2017/06/19



This commentary from Tony Hirst is true not only of OU but also of every large organization - public sector and private sector - I have ever encountered. With size comes control. Here's Tony Hirst: "The OU was innovative because folk *understood* technologies of all sorts and made creative use of them. Many of our courses included emerging technologies that were examples of the technologies being taught in the courses. We ate the dogfood we were telling students about. Now we've put the dog down and just show students cat pictures given to us by consultants."

Today: Total:2 [Comment] [Direct Link] [Edit] [Delete][Spam]

post_title	Innovation Starts At Home...?
post_link	https://blog.ouseful.info/2017/06/18/innovation-starts-at-home/
post_author	Enter post_author name: Author List: Tony Hirst [Edit] [Remove]

Publish!  
Web:   
Twitter:   
Facebook:   
RSS:   
JSON:

<https://getpocket.com>

<http://grssshopper.downes.ca/>

# Post List

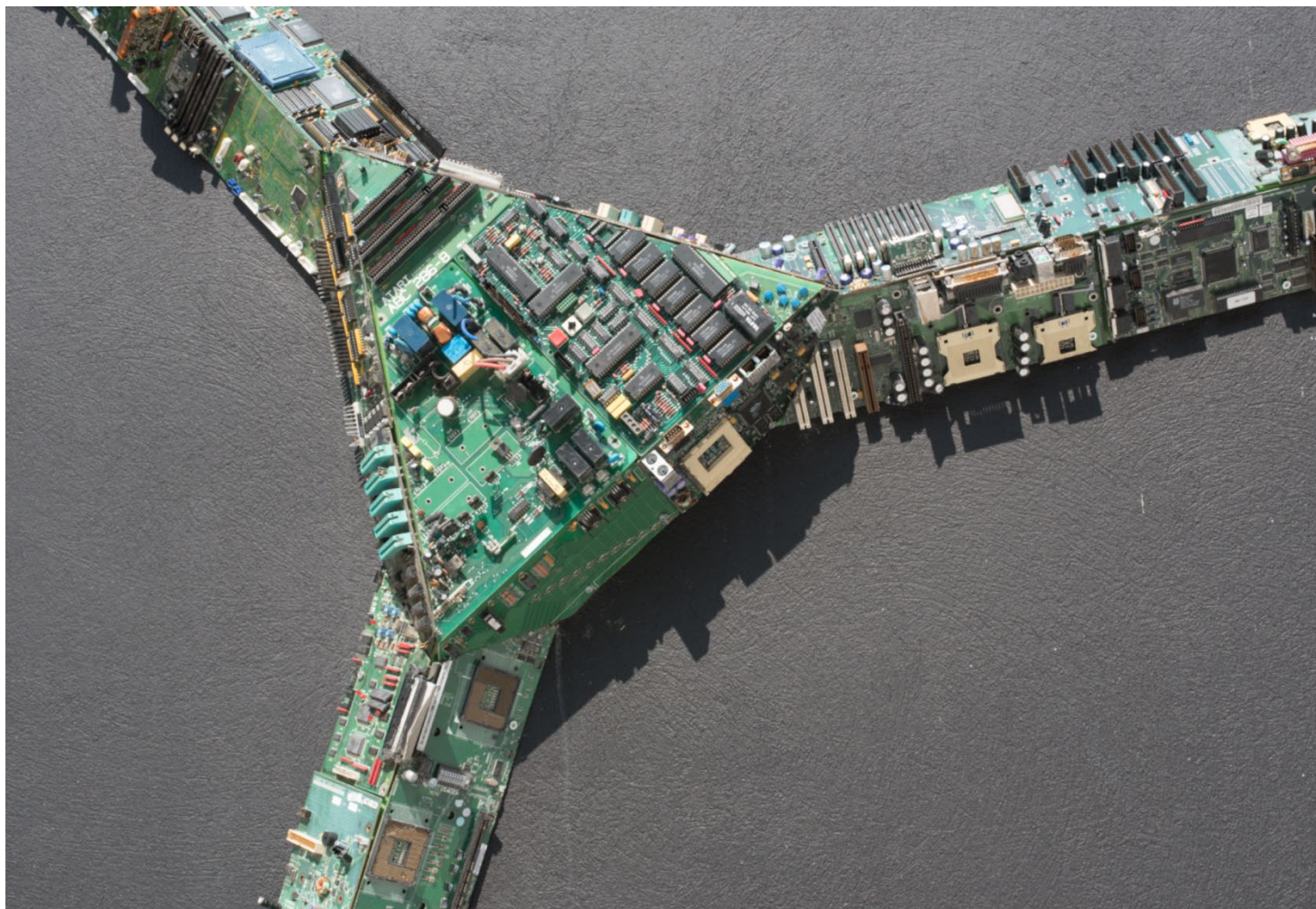
- 1 -- article, 22 Jun 1995 -- [Moo? No, this is a MAUD](#)
- 2 -- article, 22 Feb 1996 -- [Censorship My Way](#)
- 3 -- article, 26 Apr 1996 -- [Logical Fallacies: Index](#)
- 4 -- article, 6 May 1996 -- [On-Line Conferencing](#)
- 5 -- article, 18 Dec 1996 -- [Use META to add sound](#)
- 6 -- article, 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](#)

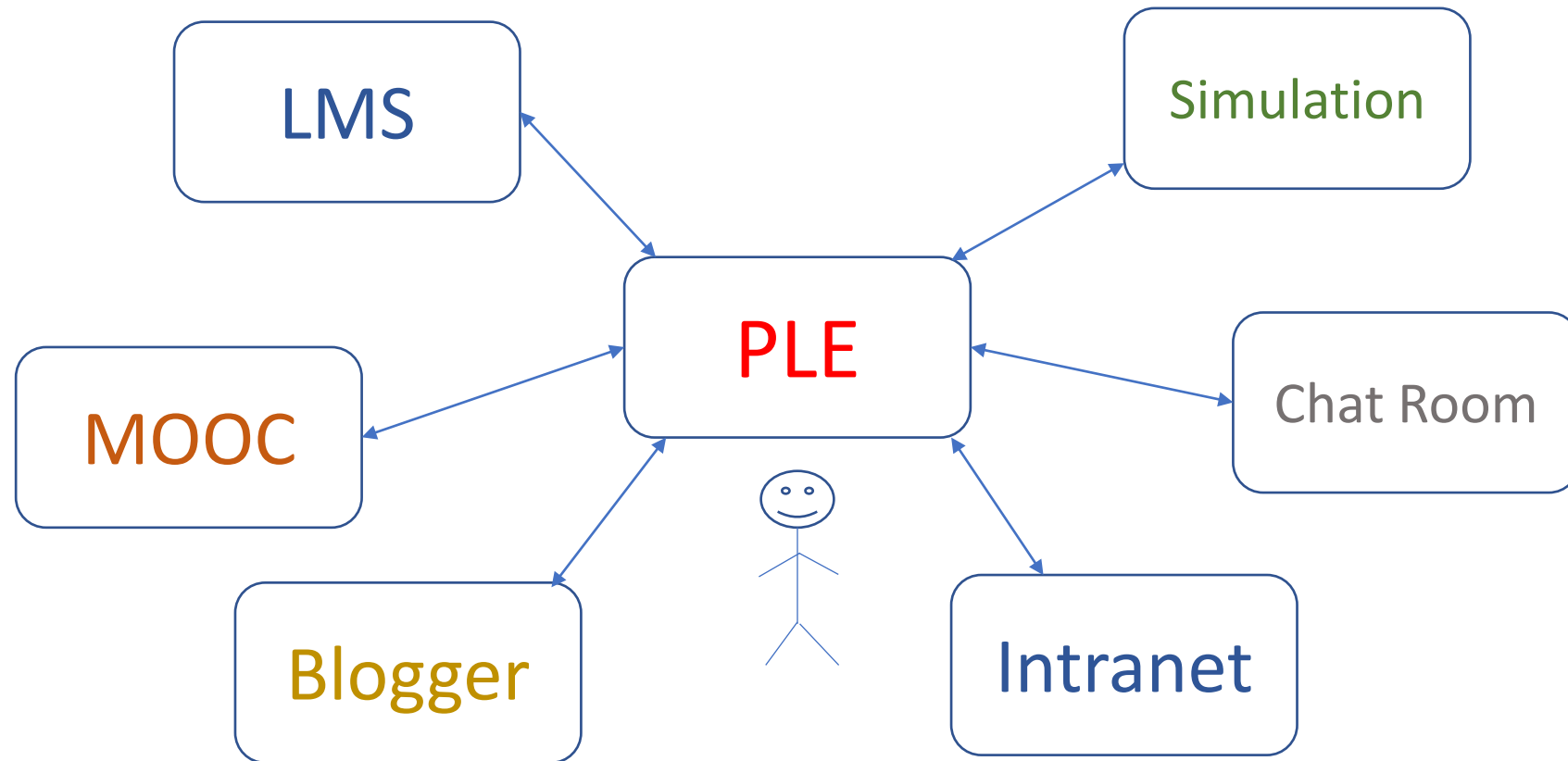
[http://www.downes.ca/post\\_list.html](http://www.downes.ca/post_list.html)



# The Personal Learning Environment

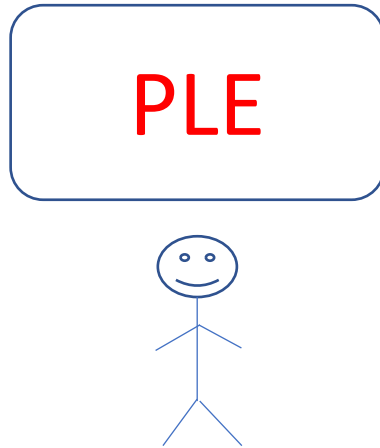


# Overview of the Concept of PLEs



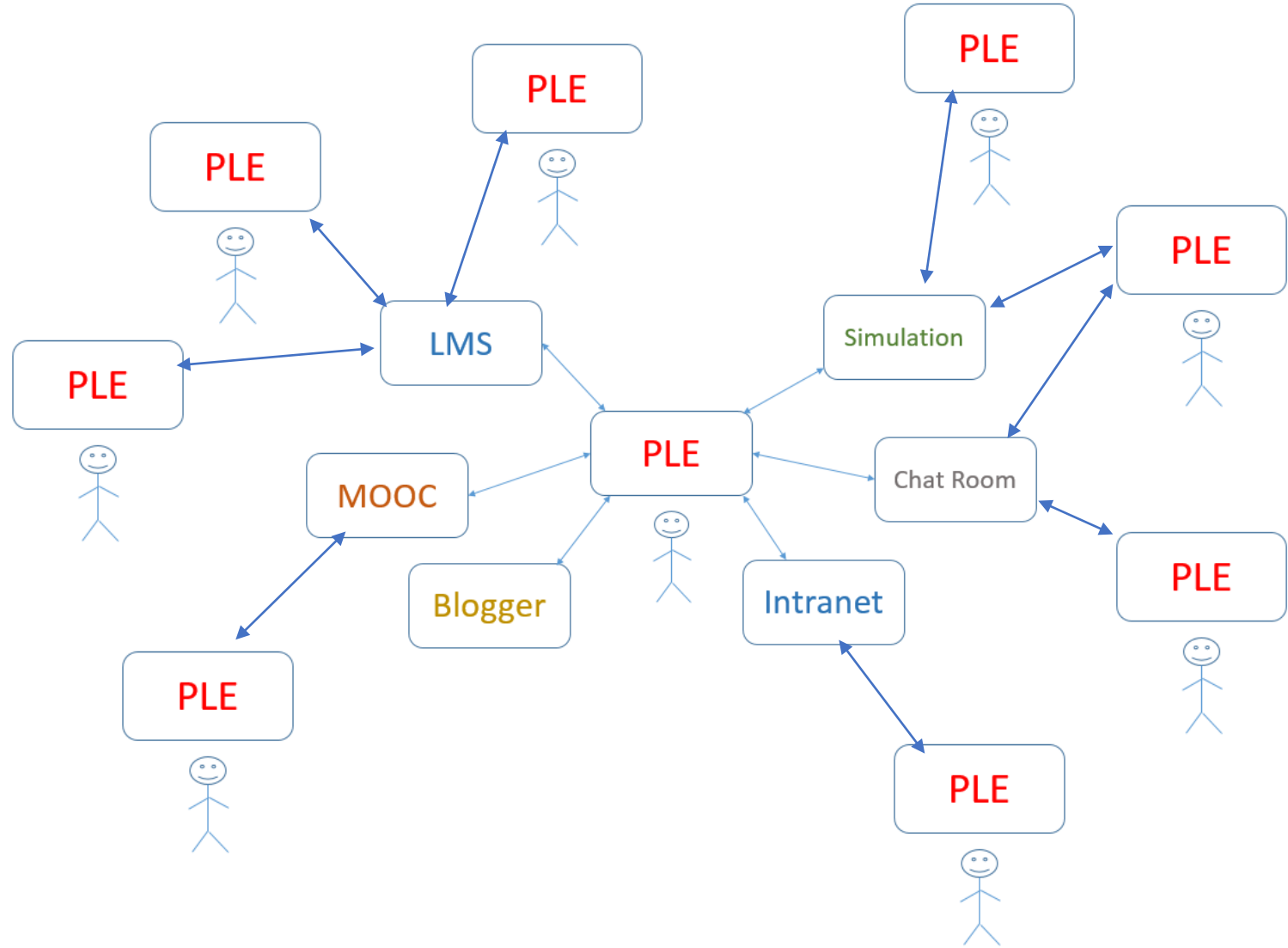
Access to many services in one personal environment

# Properties of the PLE...



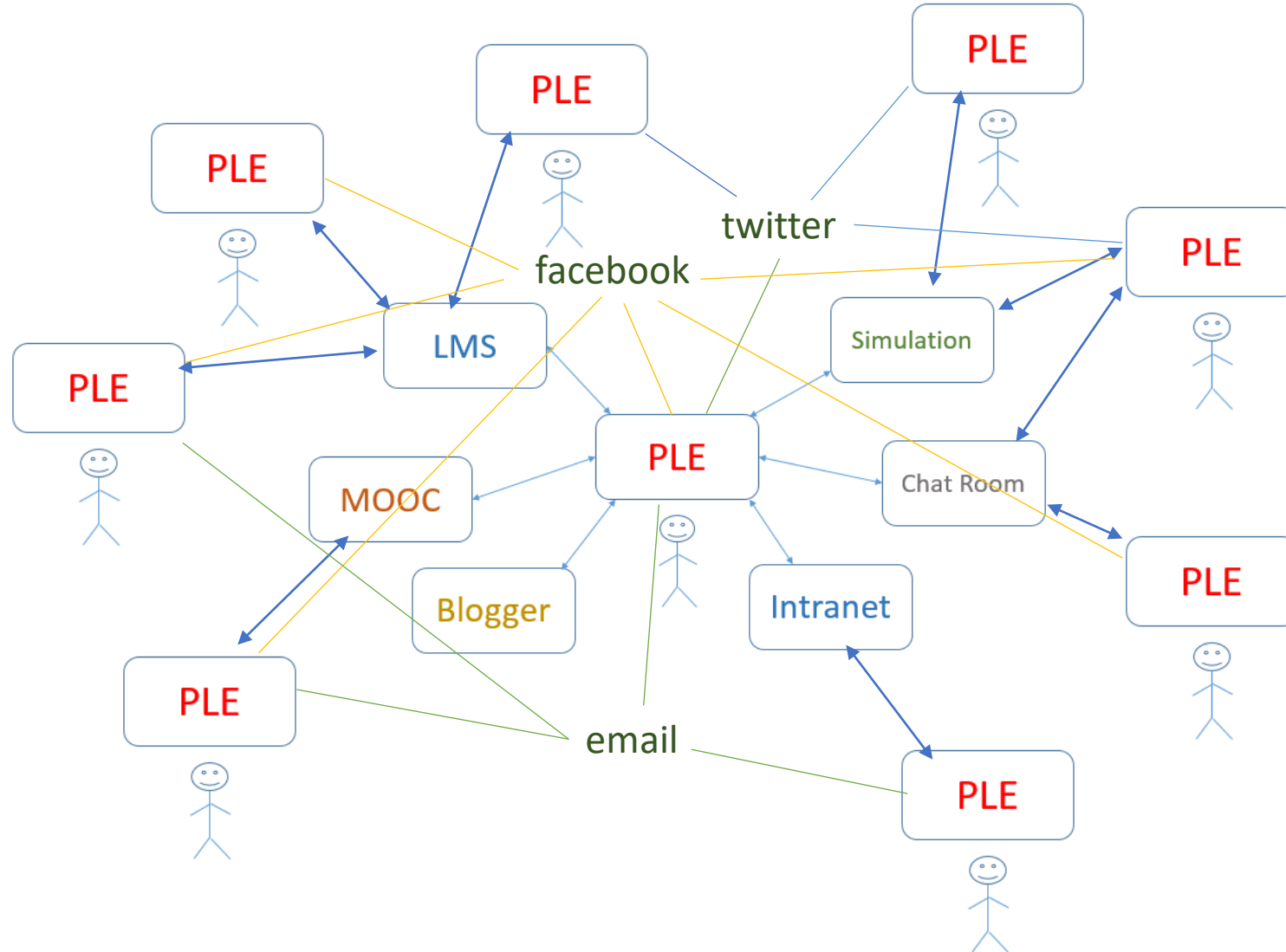
- What information should it record?
- Who owns the data? How private is it?
- What should it *do*?
- What would a person do with it?
- Where, exactly, is a PLE located?

# The Network of PLEs

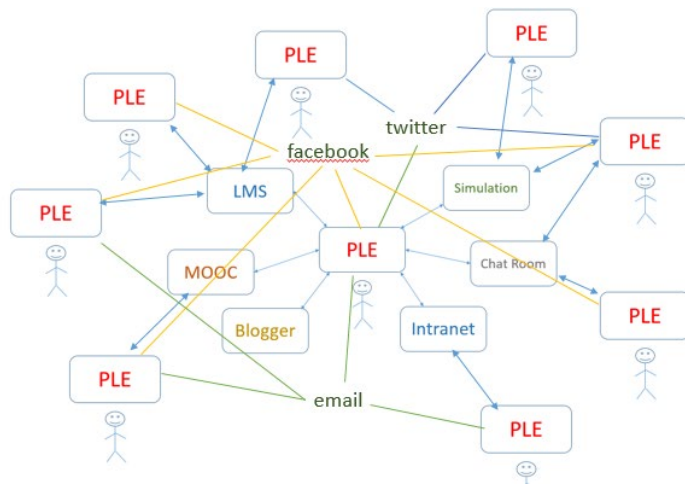




# The Social Network of PLEs



# 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

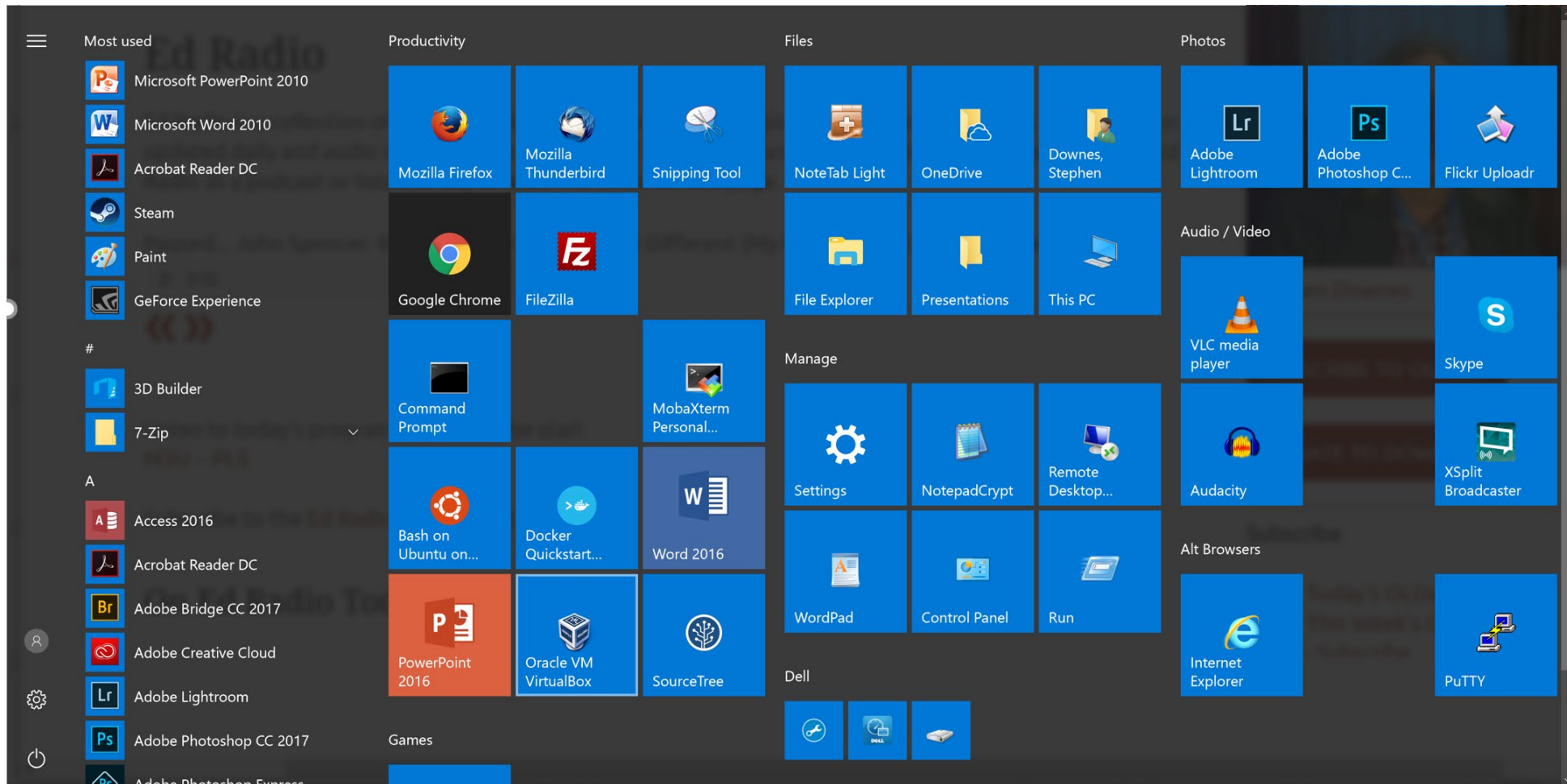




Education is  
not a search  
problem



# Making



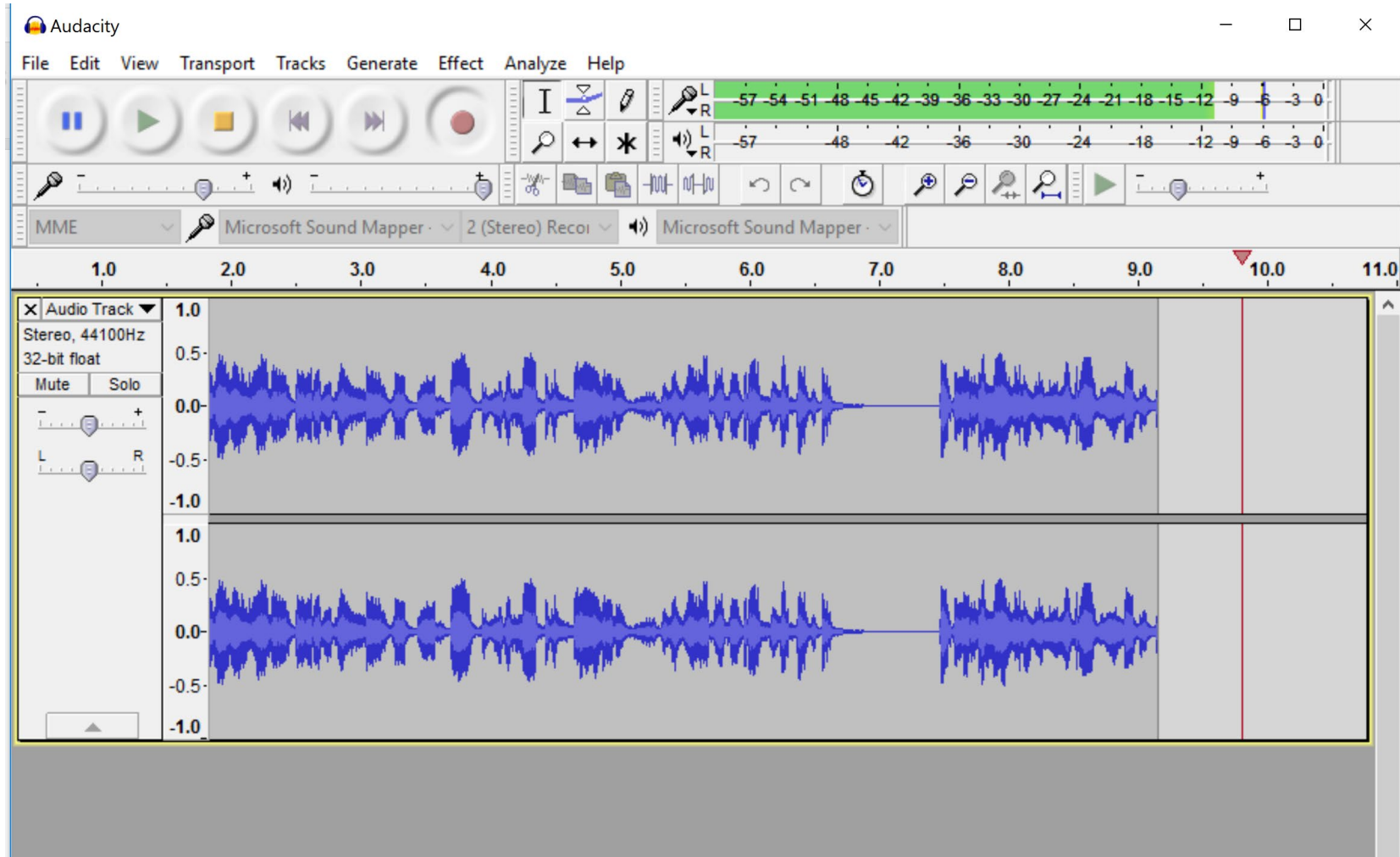


# Making



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

# Making



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

# Making

The image shows a Google Docs interface. On the left, a sidebar lists documents from 'Previous 7 days', 'Previous 30 days', and 'Earlier'. The main document is titled 'LTSC Monthly Meeting - 13 June 2017'. An 'Outline' sidebar is open, showing a table of contents with sections: 'IEEE LTSC Monthly...', 'Participating Today', 'Proposed Agenda', 'LTSC Administrat...', 'WG Reports', and 'New Business'. The main content area contains the following text:

**IEEE LTSC Monthly Meeting**  
**Tuesday, 13 June 2017, 9:00am EDT**

Setting up **join.me** once you've connected to <https://join.me/avronbarr>

1. Click on the phone handset icon (top of your screen) to set up audio (dial-in or VOIP).
2. Click on the "Participant's" icon to see who's here.
3. Click on the chat icon to open the Chat window.

**THIS MEETING WILL BE RECORDED** for the convenience of members who cannot attend at this time. The notes and recording from the May meeting are [here](#).

You are encouraged to edit this document before and during the meeting: <https://goo.gl/Plg056>

Recording of today's meeting is here: [https://recordings.join.me/2\\_DnzLrr8E-el23POiilw](https://recordings.join.me/2_DnzLrr8E-el23POiilw)

**Participating Today**

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

# Making



REBUS Community

FAQ

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News



Home / Projects: Active Open Textbook Projects / [PHIL] Introduction to Philosophy [lead: Christina Hendricks, UBC]

Log in to post

[PHIL] INTRODUCTION TO PHILOSOPHY [LEAD: CHRISTINA HENDRICKS, UBC]



General Project / Book Info & Discussion

6 months ago · hugh

170  
POSTS



Project Leads Discussion

21 days ago · zoe

7  
POSTS



Ethics [section ed: George Matthews]

2 months ago · hugh

28  
POSTS



Aesthetics [section ed: W. Scott Clifton]

2 months ago · hugh

18  
POSTS



This topic is deleted!

2 months ago · hugh

1  
POSTS

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



# Making

SCREEN

XSPLOT BROADCAST V2'S NEW SCREEN CAPTURE  
CAPTURE OF A SPECIFIC REGION OF A

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

Elapsed Time: 02:35:05

ON AIR

640 x 360 @ 30.00 fps, 307%

A Model of Personal Learning (Take 2)

Scene 1

- Desktop region (184, 10) - 3266 x 2006
- Text (A Model of Personal Learning (Take 2))
- Logitech HD Webcam C615
- Window region "PowerPoint Slide Show - [2017 01 27 - Current State of Learning Technologies.pptx]" in "powernt.exe..."
- Logitech HD Pro Webcam C920 (1)
- Window region "Be-ODL Conference - YouTube - Mozilla Firefox" in "firefox.exe" process (10, 19) - 3814 x 2053

Scene 1 | Scene 2 | Scene 3 | Scene 4 | +



# Sharing



Stephen Downes

Knowledge, Learning, Community

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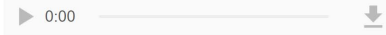
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Paused... John Spencer: Be Wildly and Unabashedly Different (My Hope for My Cohort as They Graduate)



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



Stephen Downes

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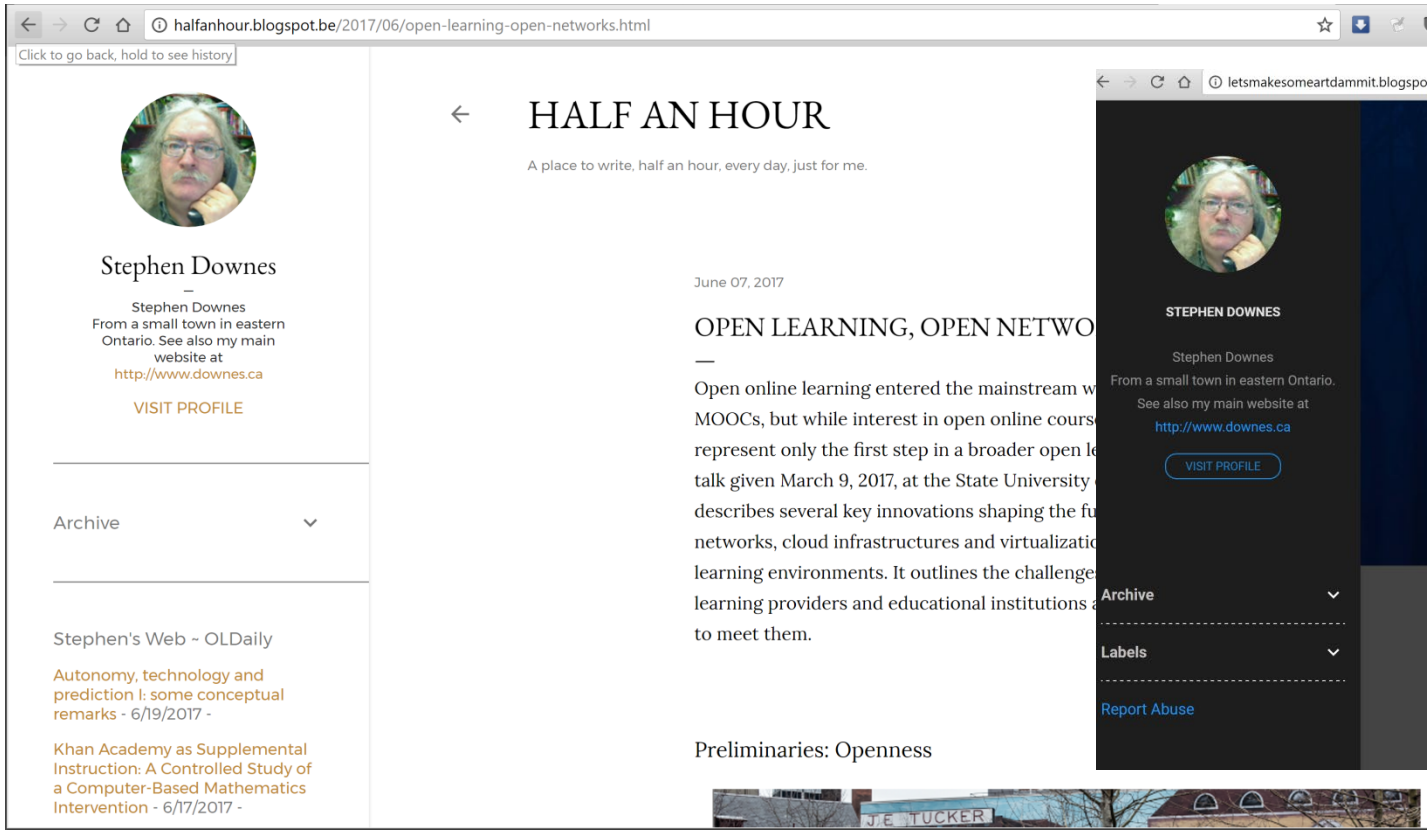
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# Sharing



halfanhour.blogspot.be/2017/06/open-learning-open-networks.html

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**Stephen Downes**

Stephen Downes  
From a small town in eastern Ontario. See also my main website at <http://www.downes.ca>

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Stephen's Web - OLDaily

Autonomy, technology and prediction I: some conceptual remarks - 6/19/2017 -

Khan Academy as Supplemental Instruction: A Controlled Study of a Computer-Based Mathematics Intervention - 6/17/2017 -

← **HALF AN HOUR**


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

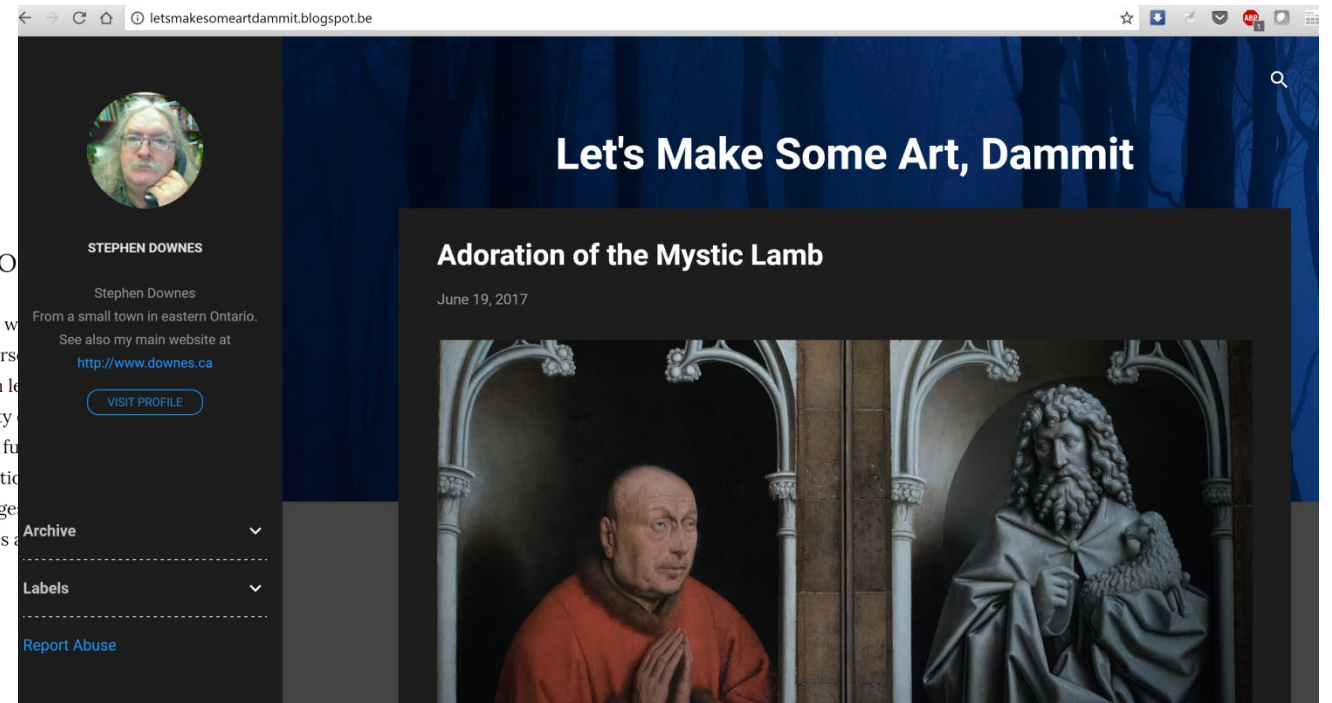
June 07, 2017

**OPEN LEARNING, OPEN NETWORKS**


Open online learning entered the mainstream with MOOCs, but while interest in open online courses represent only the first step in a broader open learning talk given March 9, 2017, at the State University describes several key innovations shaping the future of networks, cloud infrastructures and virtualized learning environments. It outlines the challenges for learning providers and educational institutions to meet them.

Preliminaries: Openness





letsmakesomeartdammit.blogspot.be



**STEPHEN DOWNES**

Stephen Downes  
From a small town in eastern Ontario. See also my main website at <http://www.downes.ca>

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**Let's Make Some Art, Dammit**

**Adoration of the Mystic Lamb**

June 19, 2017



<http://letsmakesomeartdammit.blogspot.com>

<http://halfanhour.blogspot.com>

# Sharing

The screenshot shows the SlideShare interface for user Stephen Downes. The top navigation bar includes the SlideShare logo, a search bar, an 'Upload' button, and a user profile picture. Below the navigation bar 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 user's profile for Stephen Downes, including a profile picture, an 'Edit profile' button, and statistics: 335 SlideShares, 2,045 Followers, and 2 Clipboards. His location is listed as Moncton, New Brunswick, Canada, and his profession as a Researcher in Technology / Software / Internet. Social media links for Twitter and LinkedIn are provided. Below the profile is a section for 'Ads You May Be Interested In', featuring a 'Free 5s Warehouse Guide' and 'Easy to Use ITSM Software'. The right column displays a presentation titled 'Open Learning, Open Networks' by Stephen Downes, presented at the Open SUNY COTE 2017 Conference in Syracuse, New York, on March 9, 2017. The presentation has 4,805 views. To the right of the presentation is a list of other presentations, including 'Open Learning, Open Networks', 'Designing & Personalizing Learning Experiences', 'Personal learning environments and technologies', and 'Trends in education'. Below the list are counts for 'Documents' (1), 'Infographics' (0), and 'Videos' (0). A video player interface is visible at the bottom of the presentation, showing '1 of 13' slides and navigation controls.

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



# Toward Personal Learning



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

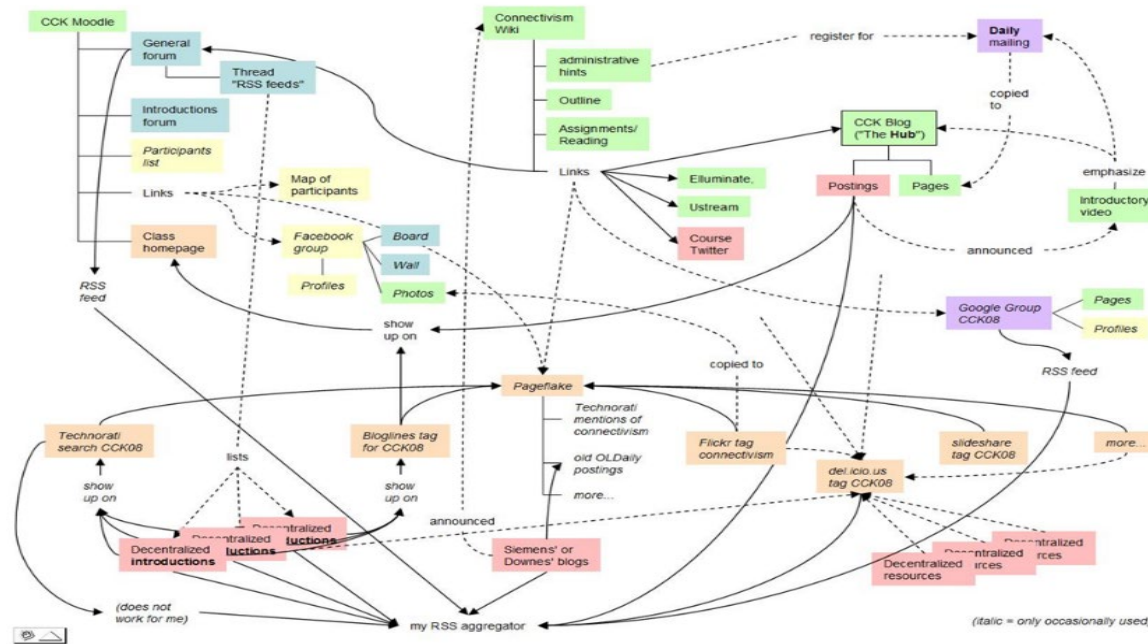
<http://www.downes.ca/presentation/468>



# 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



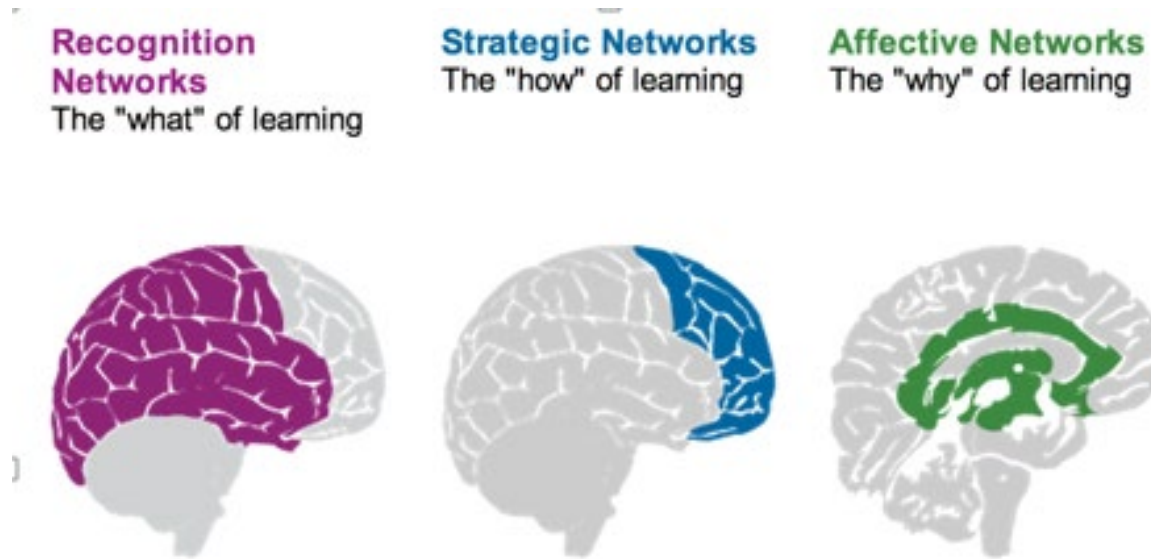
A MOOC is a Web, not a Website



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**

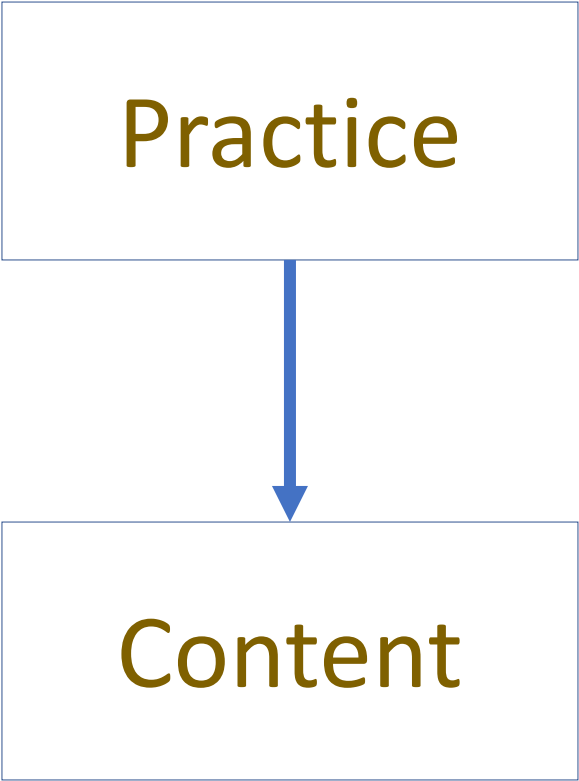
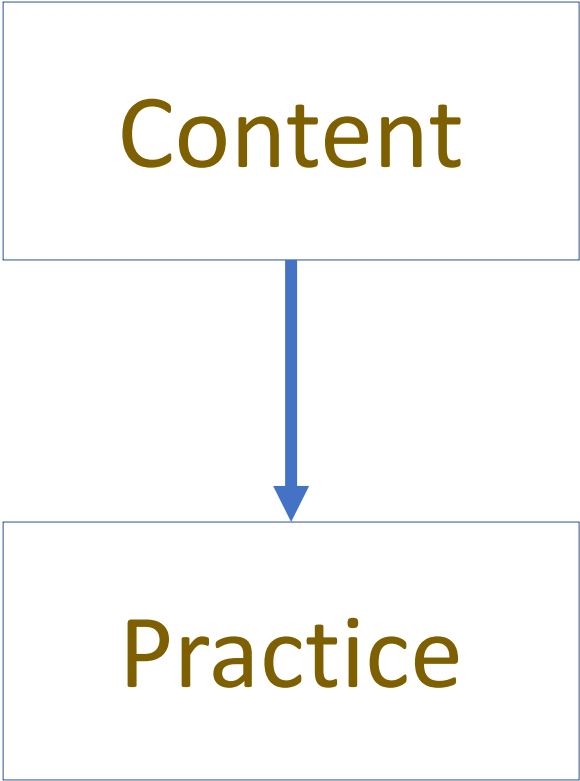
# Personalization



- What we learn
- How we Learn
- Why we learn

- **Rules-Based Events** (like notifications)
- **User Models**
- **Adaptive Learning**

# Two Approaches...



# Two Approaches...

Defines an ideal state

Content



Practice

TEST

Person tests you

Defines a desired state

Practice



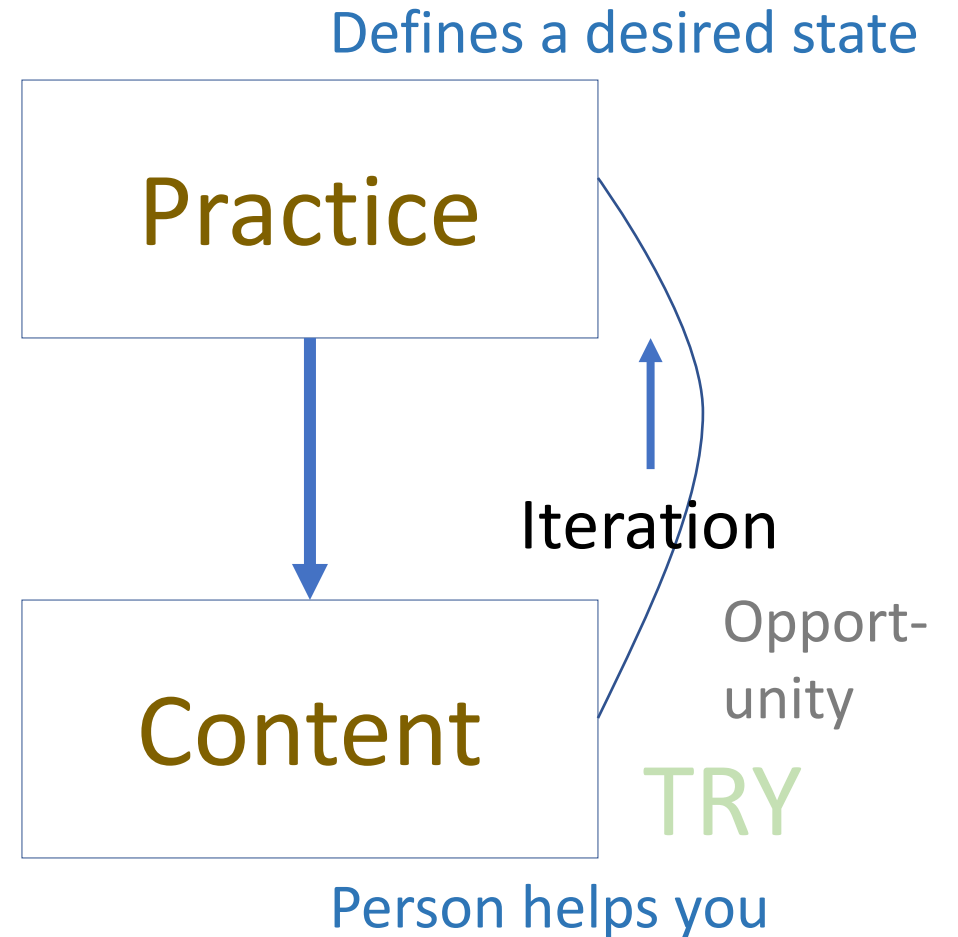
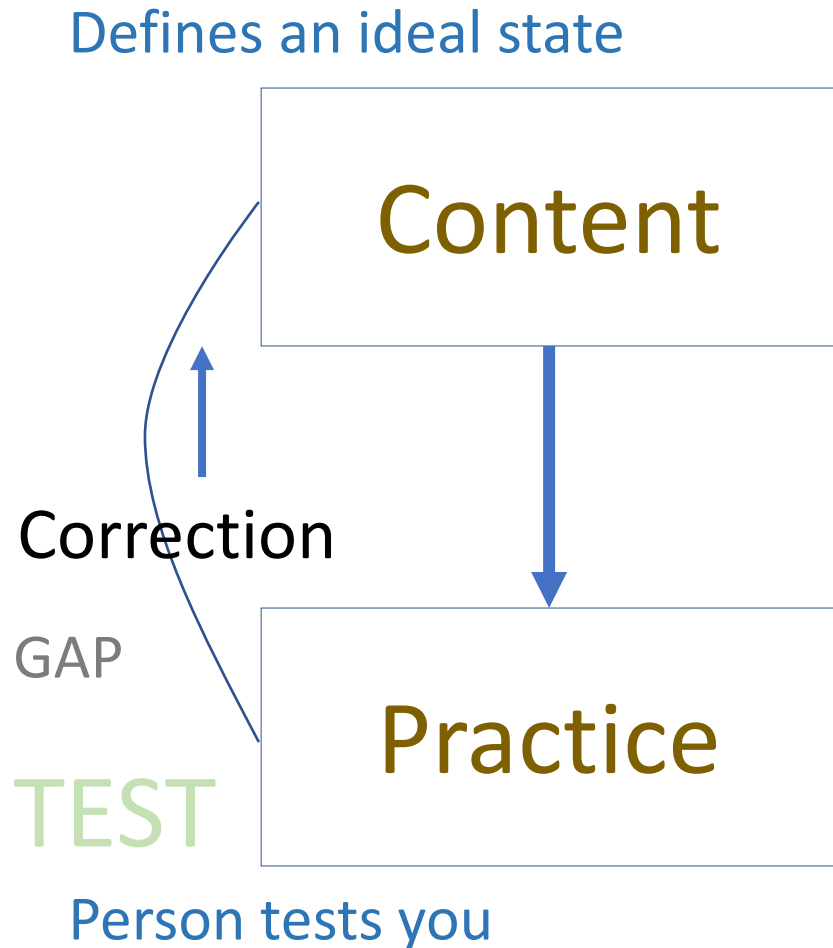
Content

TRY

Person helps you

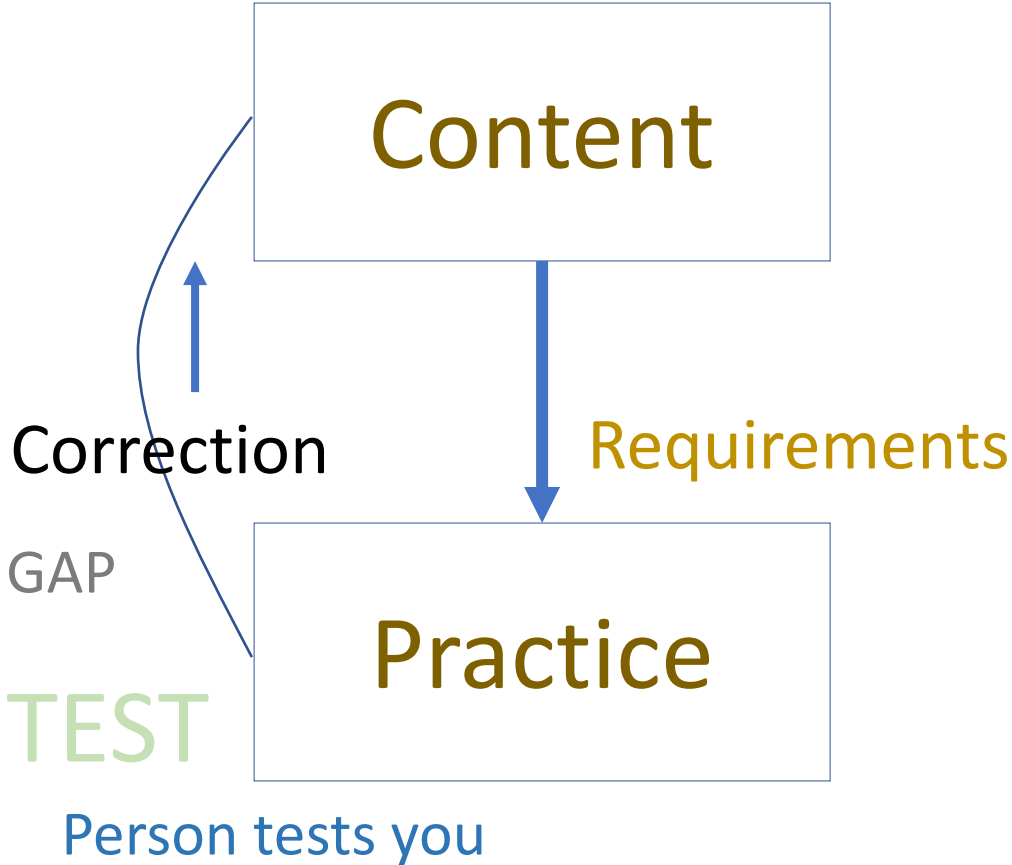


# Two Approaches...



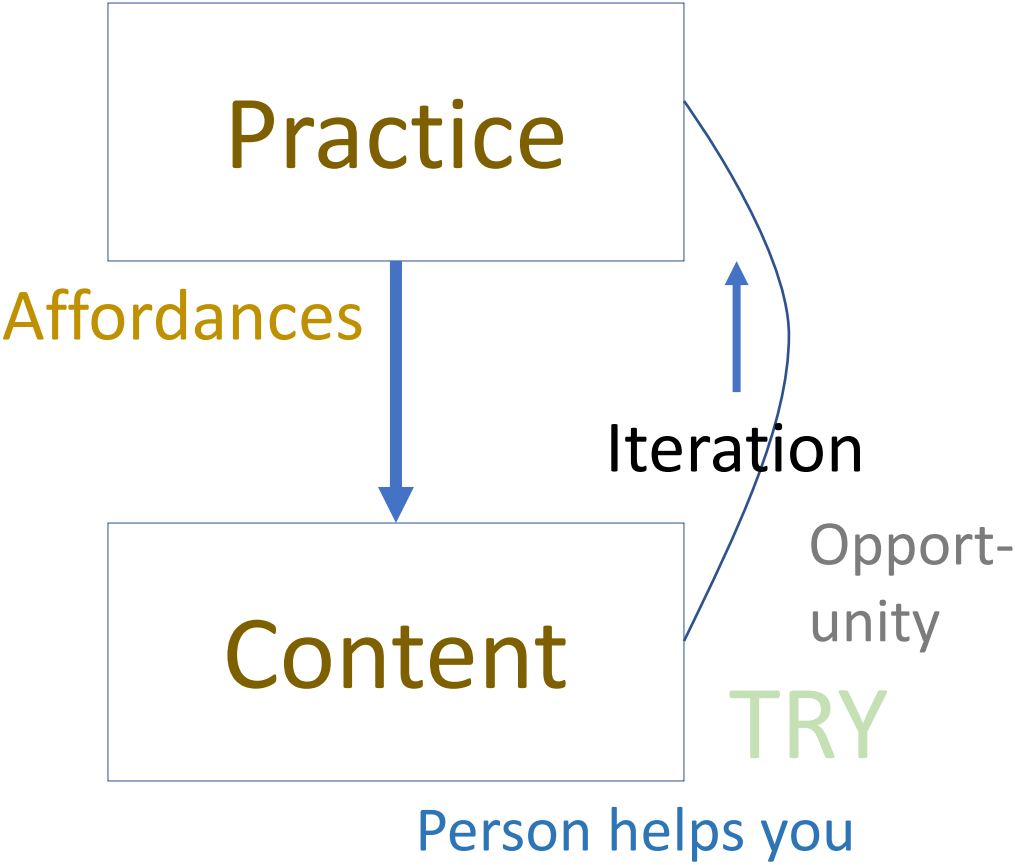
# Library

Defines an ideal state



# Environment

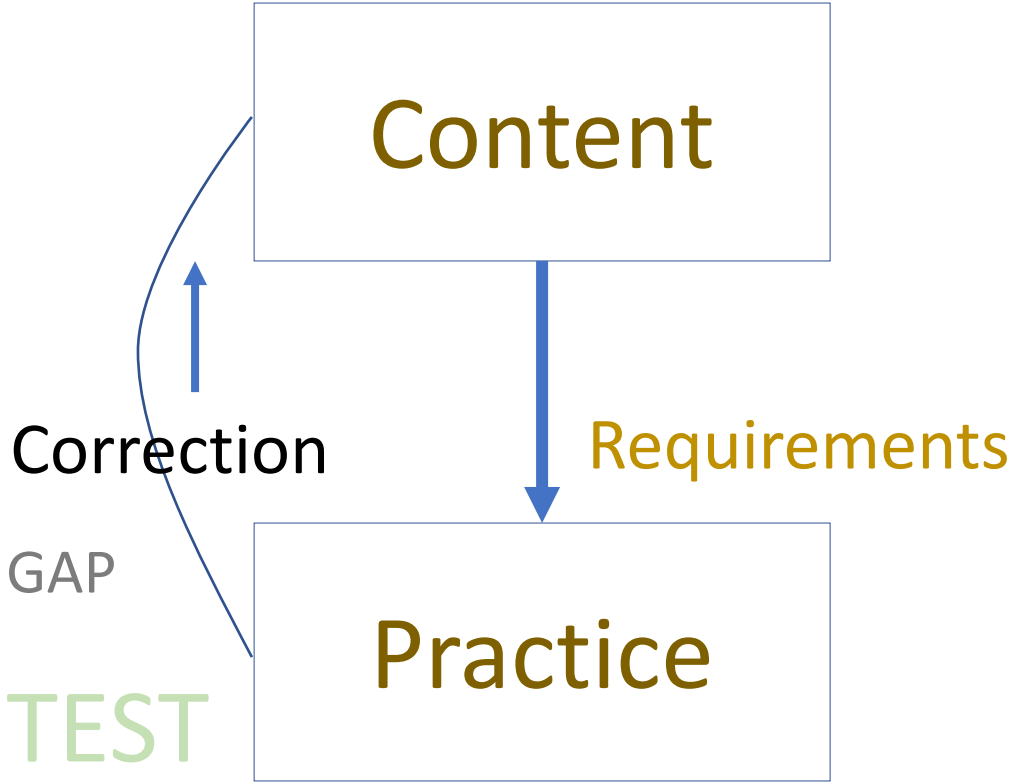
Defines a desired state



# Personalized

We do for you

Defines an ideal state

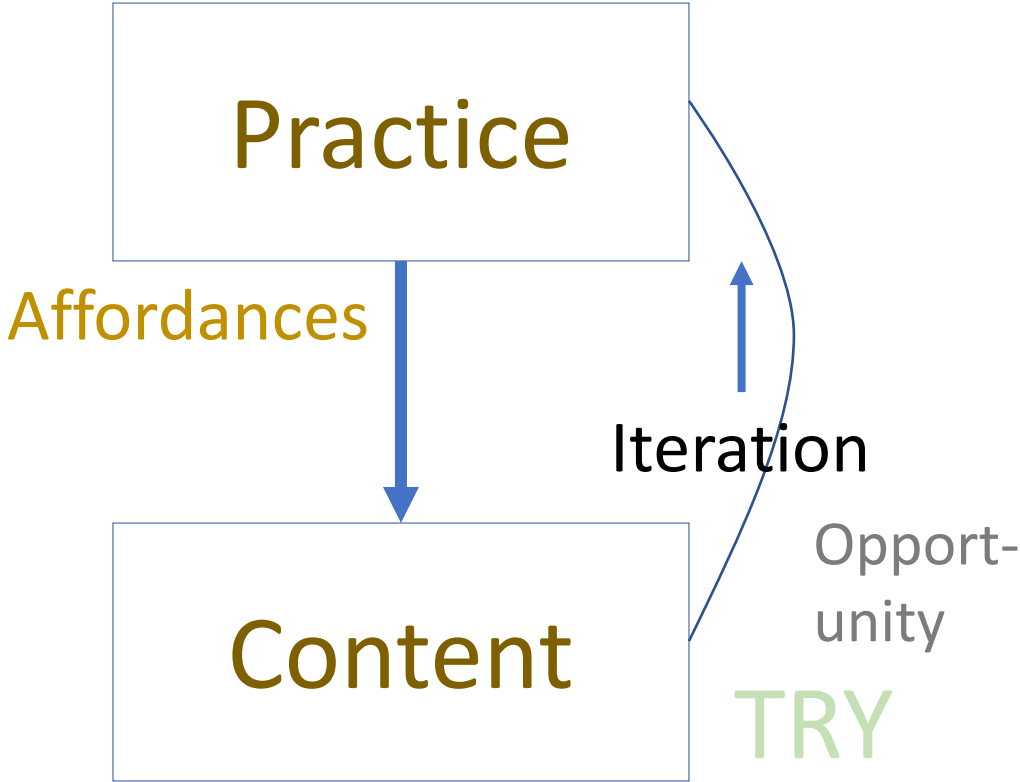


Person tests you

# Personal

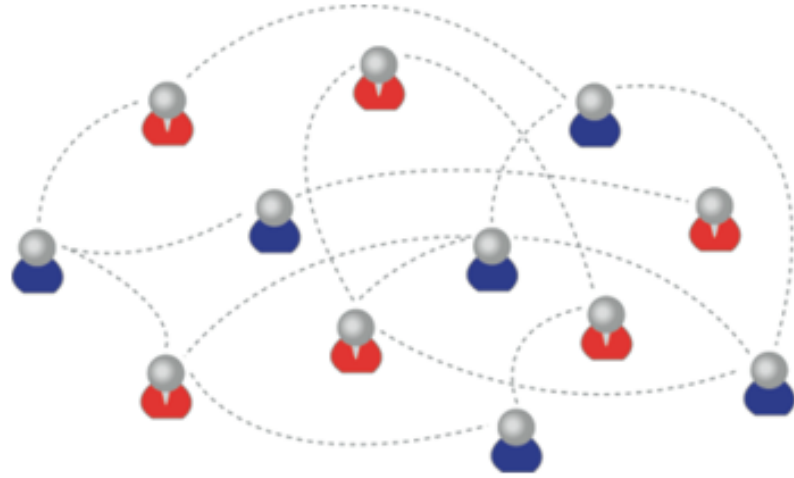
You do for yourself

Defines a desired state



Person helps you

# Learning Outcomes



We are using one of these

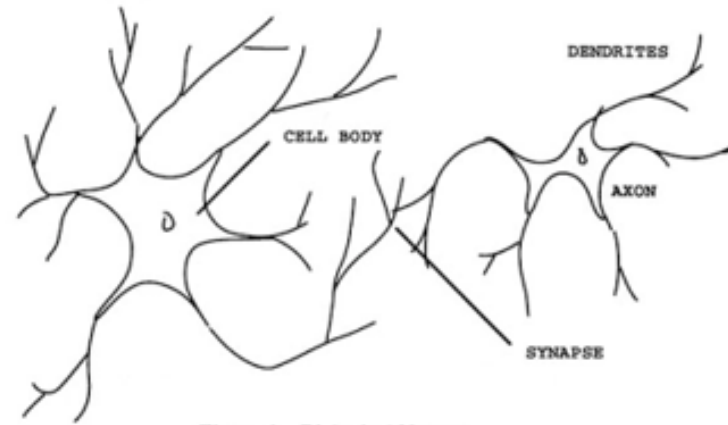


Figure 1. Biological Neuron

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

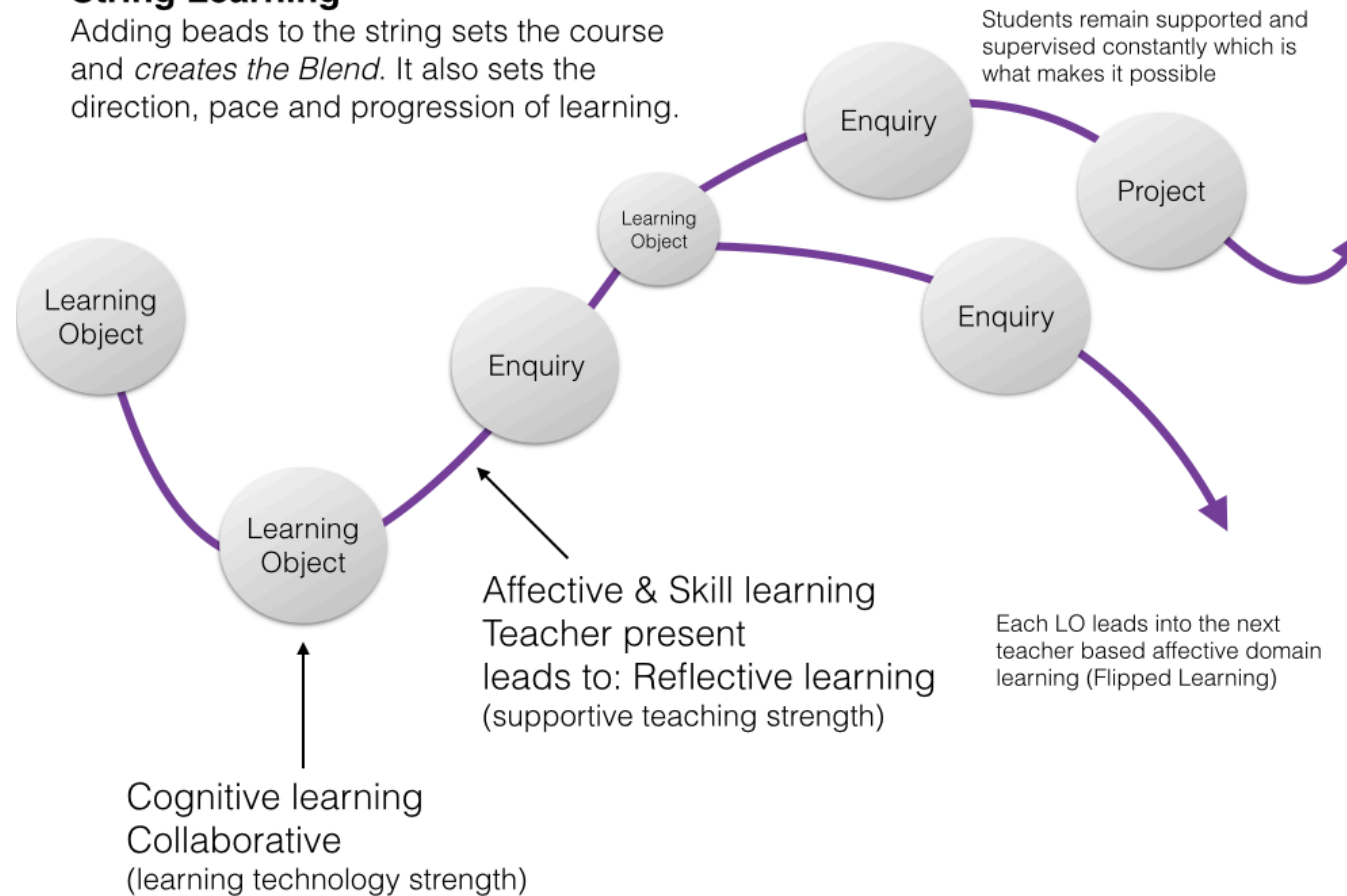
- More than neural networks?
  - Embodied learning, stigmergy, extended memory (Andy Clark)
- Is my library a part of my cognition?
  - Which books?
- The problem of explanation



# Cloud Environments

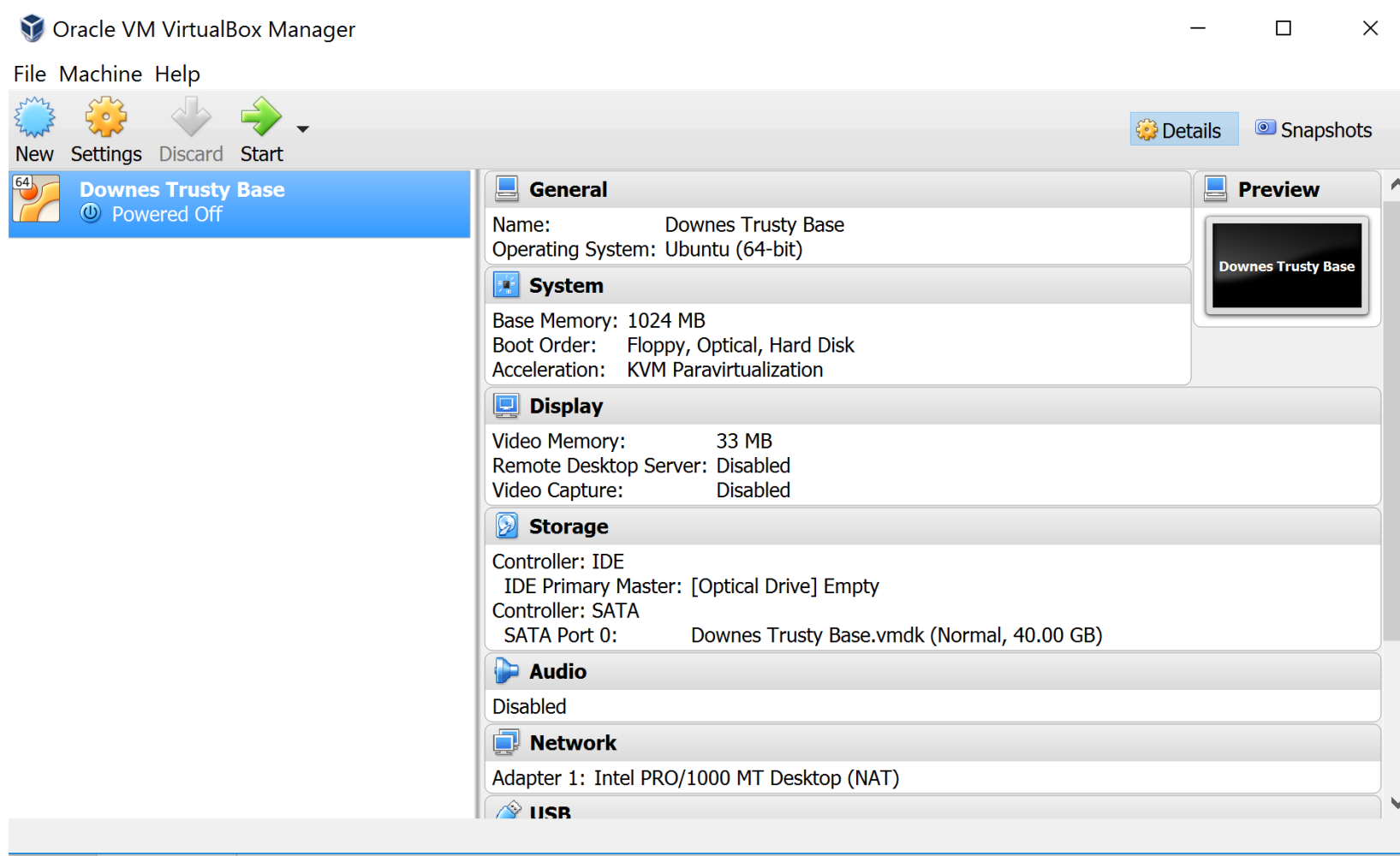
## String Learning

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>

# Making



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

# 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', '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 configuration details.

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

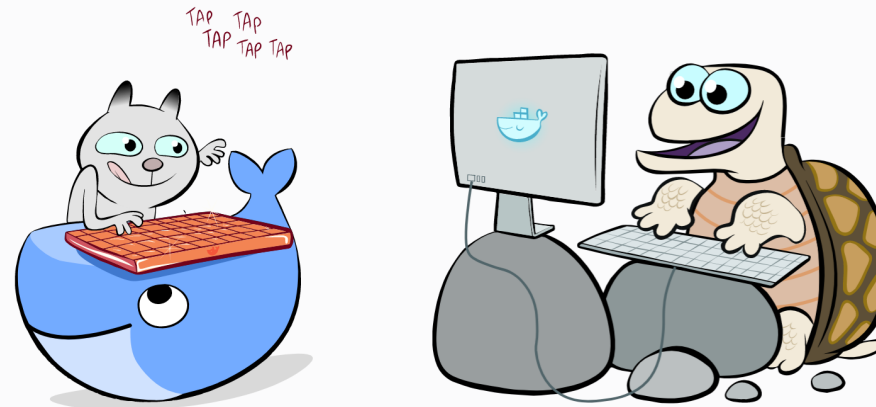
  

Instance: i-0203360f8deec276b (LRS)		Public DNS: ec2-52-60-218-119.ca-central-1.compute.amazonaws.com	
Instance ID	i-0203360f8deec276b	Public DNS (IPv4)	ec2-52-60-218-119.ca-central-1.compute.amazonaws.com
Instance state	running	IPv4 Public IP	52.60.218.119
Instance type	t2.micro	IPv6 IPs	-
Elastic IPs		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 ➤

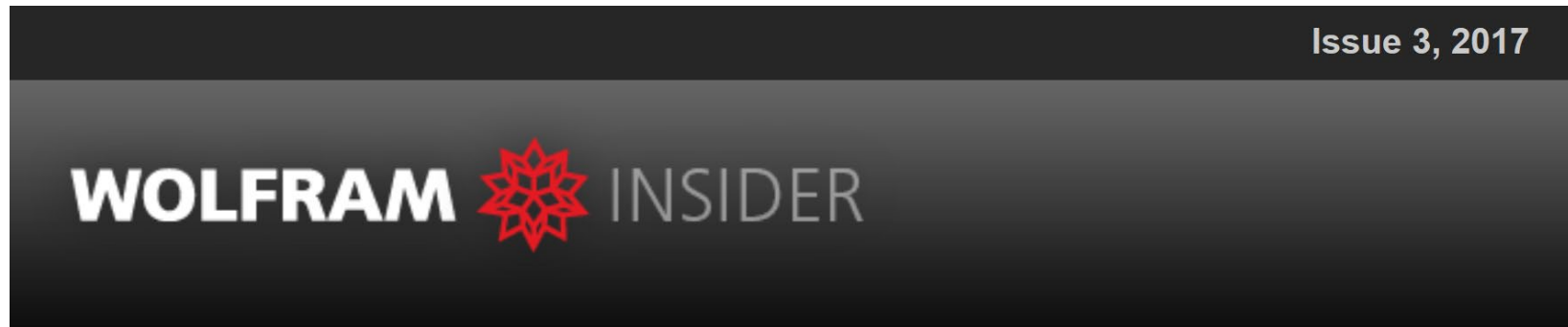
Show  entries Search:

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

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



# Cloud Services



## 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>