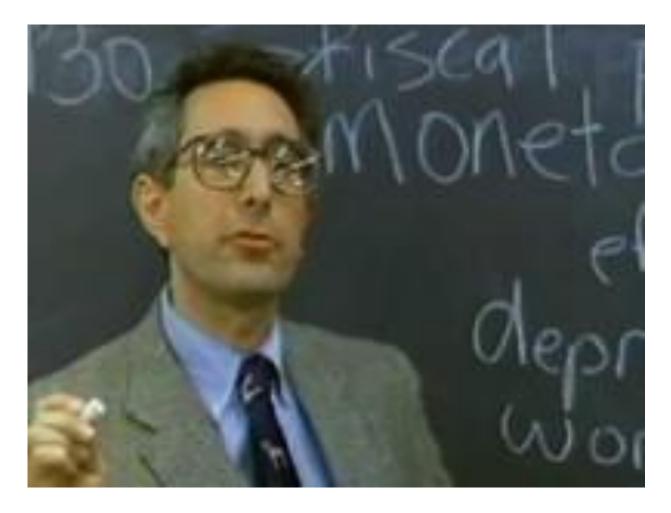


What does online learning look like to you?



Image: https://www.utep.edu/extendeduniversity/utepconnect/blog/november-2020/is-online-education-here-to-stay.html

Like This...?



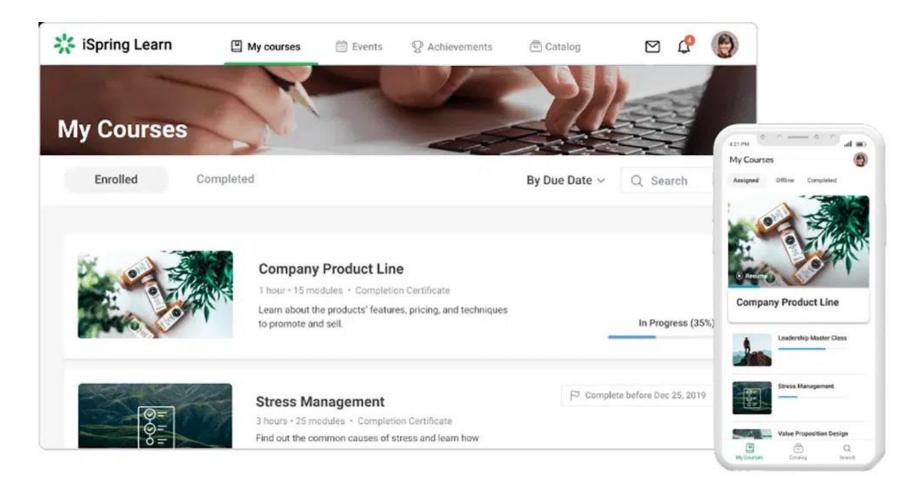
The world's most boring lecture

Like This....?



Taking notes with pen and paper while watching a teacher use a whiteboard

Like This...?

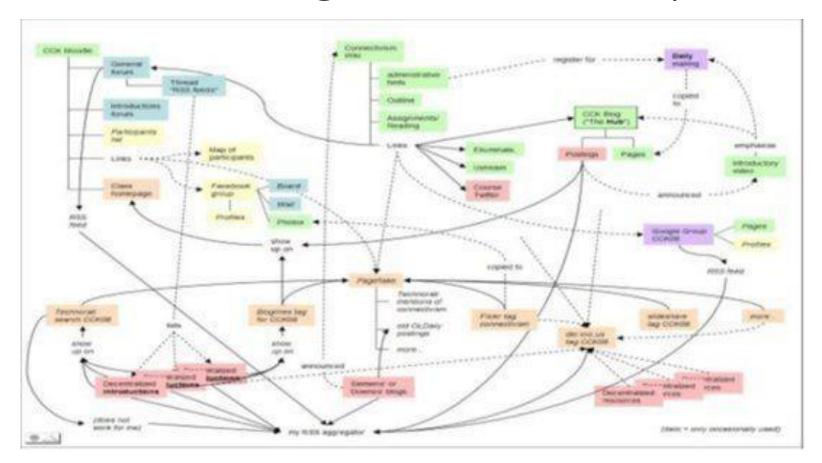


Some learning management system.



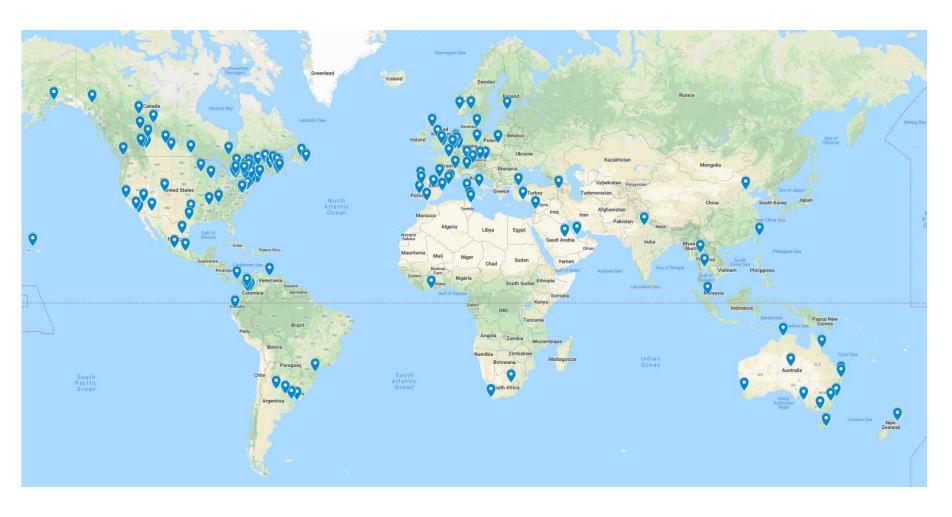
Los nueve eventos de instrucción de gagne

I have been learning online for 35 years...



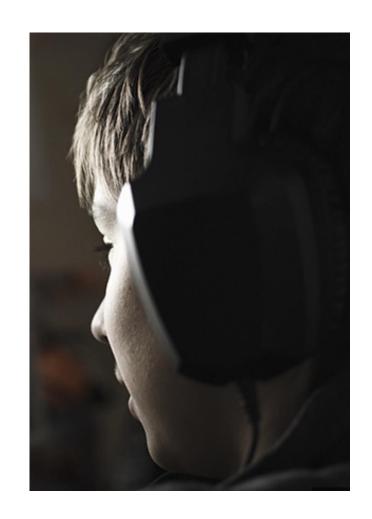
... and my learning looks like this

Did it Work?



So What's Different?

- 1. Hacking my traditional schooling
- 2. It's about what I want to do!
- 3. Process, not content
- 4. Learning from experts
- 5. Finding my own voice



1. Hacking my traditional schooling



Image: https://www.nbcnews.com/tech/security/parents-end-chain-ransomware-hit-rcna646

Some things I did...

- Grade 5 created my own newspaper
- Early teens developed my own photographs
- High school defined my own projects
- Grade 11 overthrew the social sciences department
- University worked on the student newspaper
- Grad anti-government protests over school funding
- Teacher accepted assignments in any medium
- Researcher threw out the rulebook

Examples

 Hackschooling makes me happy | Logan LaPlante https://www.youtube.com/watch?v=h11u3vtcpaY&t=314s



"Hackers are people who challenge and change the system, to make it work differently, to make it work better"

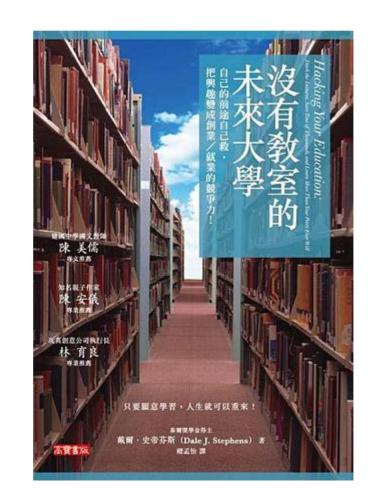
Start at 5:14

Examples

 The Next Generation of Students - "the economic downturn has bred a whole generation of 'just-try-to-stop-me' kids, determined to get the knowledge they need for success even if it comes from outside the traditional educational framework" Wired:

https://www.wired.com/insights/2013/06/hackingyour-education-the-next-generation-of-students/

Image: https://z7852458.pixnet.net/blog/post/306458466-
[%E6%9B%B8%E7%B1%8D%E9%96%B1%E8%AE%80]%E6%B2%
92%E6%9C%89%E6%95%99%E5%AE%A4%E7%9A%84%E6%9C
%AA%E4%BE%86%E5%A4%A7%E5%AD%B8(hacking-your-educa



Examples

- EduPunk ¿Qué es el Edupunk?
- https://escuelaplanob.com/que-es-el-edupunk/



Only special people create their own learning

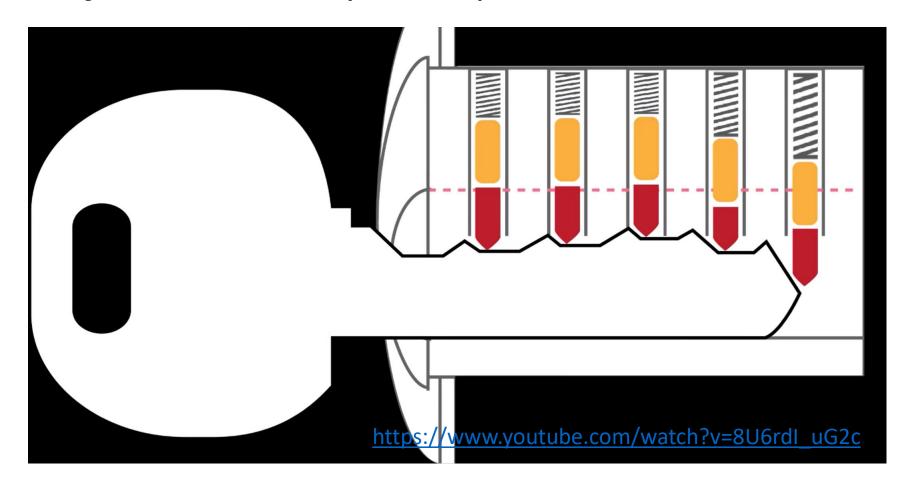


As teachers, what do you value? What do you reward?

- Do you encourage creativity?
- Do you allow students to chage the rules?
- Can students find their own resources?
- Do you respect your students' opinions?
- Do you model innovation and creativity?
- Do you recognize multiple points of view?
- Do your students want to be like you?



It takes just one key to open a door



You can be that key, if you want

2. It's about what I want to do

I was never interested in learning content

For me, learning was always about what I wanted to do

Stack exchange: rotating a cube -

https://math.stackexchange.com/questions/3701555/3d-

trigonometry-rotating-a-cube

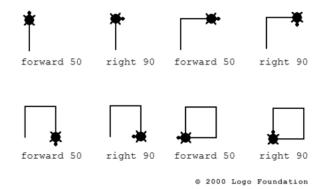
https://www.geogebra.org/m/b2ay9zww

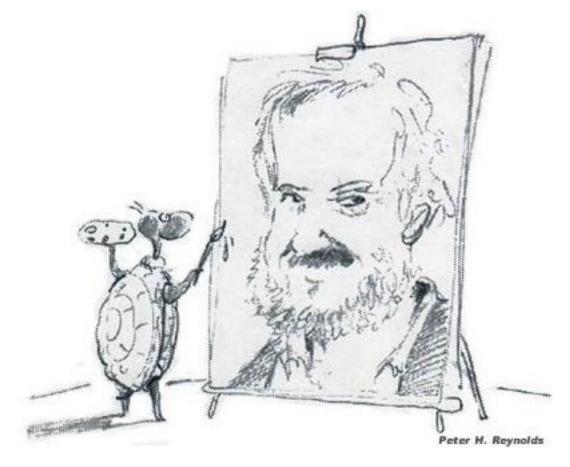
Constructionism

1.2.5. A Pragmatic Model: Lego-Logo

We use here as an example of our recent work in the constructionist direction a project called Lego-Logo. This project encapsulates key elements of our theoretical approach, and it also represents the style of relationship we are attempting to build with the world of schools, with the world of informal education, with the education industry and with the general public interested in education.

The idea of working with Lego construction materials developed out of two interests. Work with Sherry Turkle had deepened our understanding of and interest in the role in learning of intense relationships children form with objects, and construction sets seemed to be a very good context in which to pursue these interests. At the same time (1983/4) the idea of developing motion as a major theme of study in K-12 was taking

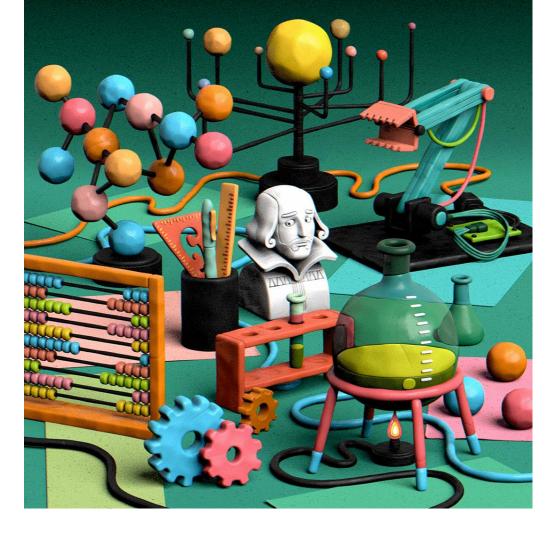




http://dailypapert.com/constructionism-a-new-opportunity-for-elementary-science-education-2/https://dailypapert.com/wp-content/uploads/2021/02/Constructionism-NSF-Proposal.pdf

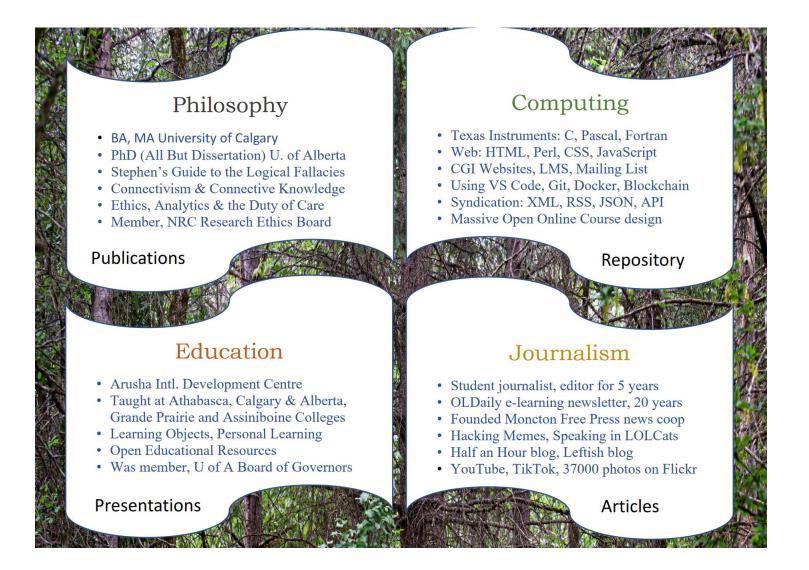
Making

Imagine asking a prospective student not, "What do you want to major in?" but rather, "What would you like to be able to make?"



"I would like to make a porcelain cup. I would like to make a cure for cancer. I would like to make someone feel less anxious and alone. I would like to make a computer game. I would like to make a solution to homelessness in my town."

What I do



My work, learning and research are inseparable from my making

Today, I made a presentation, combining words and images

What I do



My work, learning and research are inseparable from my making

Yesterday, I made a collection of photographs about Madrid

It's the same thing to me

Wait, isn't this a talk about online learning?

Take a picture Make a presentation Write a blog post Design a game Write an application Share a calendar Start a newspaper Found a club or society Record a live video Create a podcast Describe how to open a lock Rotate a cube in 3D Teach a class Share your opinions Research cancer Operate a robot Make a decision

Follow your dreams

- All of this is about online learning
- It's about what we can do online



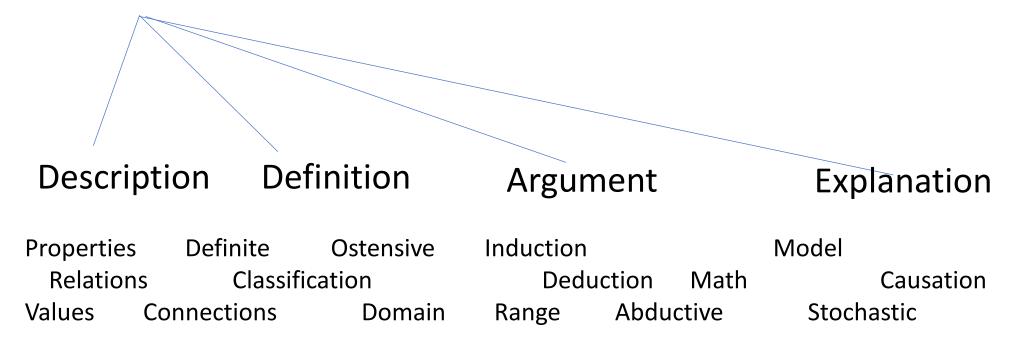
←It doesn't really matter what!

3. Process, not content

The secret weapons of the online learner are logic and language

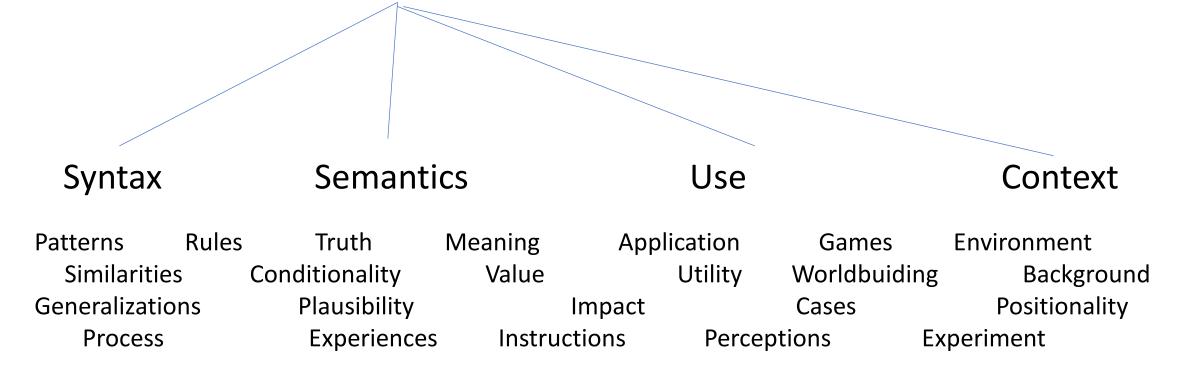
3. Process, not content

The secret weapons of the online learner are logic and language



3. Process, not content

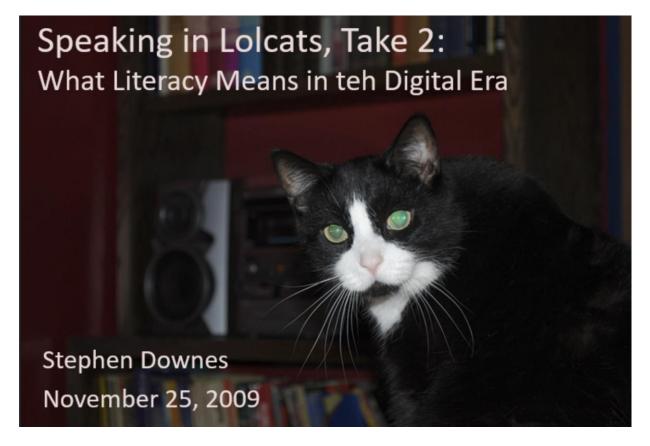
The secret weapons of the online learner are logic and language



When you look for these online, you will find

them everywhere

What do you think is happening on Facebook, Twitter, Imgur, TikTok and the rest of them?



https://www.downes.ca/presentation/233

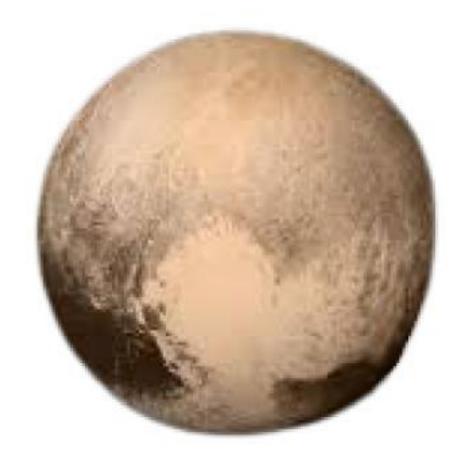
These are also the tools of learning when the content does not matter



... oh, and science and research too

Wait! The content doesn't matter?

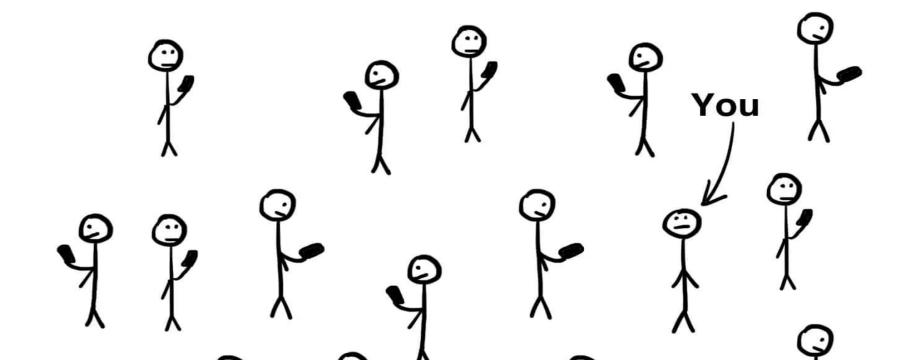
- Well, the content matters to some degree
- But the content is changing all the time
- It doesn't matter which content you use
- The rules of logic and language still apply
- And that's what you want to learn online



p.s. learned how to remove an image background in about 30 seconds at https://www.remove.bg/

The pragmatic pièce de résistance

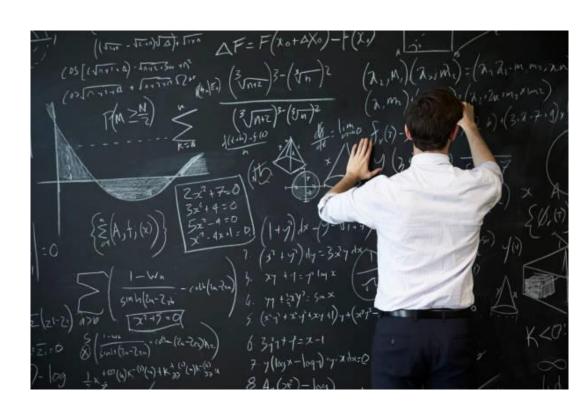
- Nobody cares about what you know
- They care about what you can do
- (And to a lesser extent, what you did)



4. Learning from experts

- Experts are often terrible teachers
- They don't even speak your language
- And they don't want to teach you

Tony Bates: teach the experts to be good teachers...



So what are experts good for?

- Experts are *models* of best practice
- Most of their knowledge cannot be found in a book (Michael Polanyi, 'tacit knowledge' or 'personal knowledge') https://en.wikipedia.org/wiki/Tacit knowledge
- Experts participate in communities of practice where they share their knowledge and collaborate with their peers (Etienne Wenger, CoP) https://www.communityofpractice.ca/background/what-is-a-community-of-practice/

(You can tell this is an important slide because there are no pictures)

Models for learning by doing

- Labs or workshops
- Apprenticeship, internship
- Simulations and games
- Real-world projects

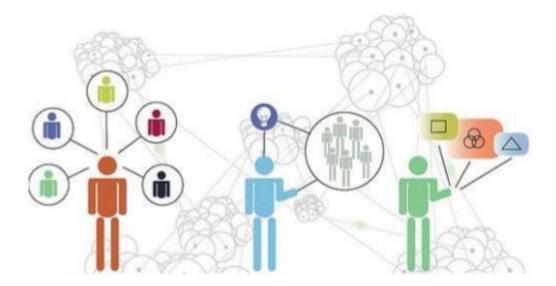


Tony Bates: https://www.tonybates.ca/2014/08/06/models-for-teaching-by-doing-labs-apprenticeship-etc/

Professional communities **Professional** community **Experts Students**

Something I made (with my friend George Siemens) connectivism Learning Theory

George Siemens (2005) and Stephen Downes (2005)

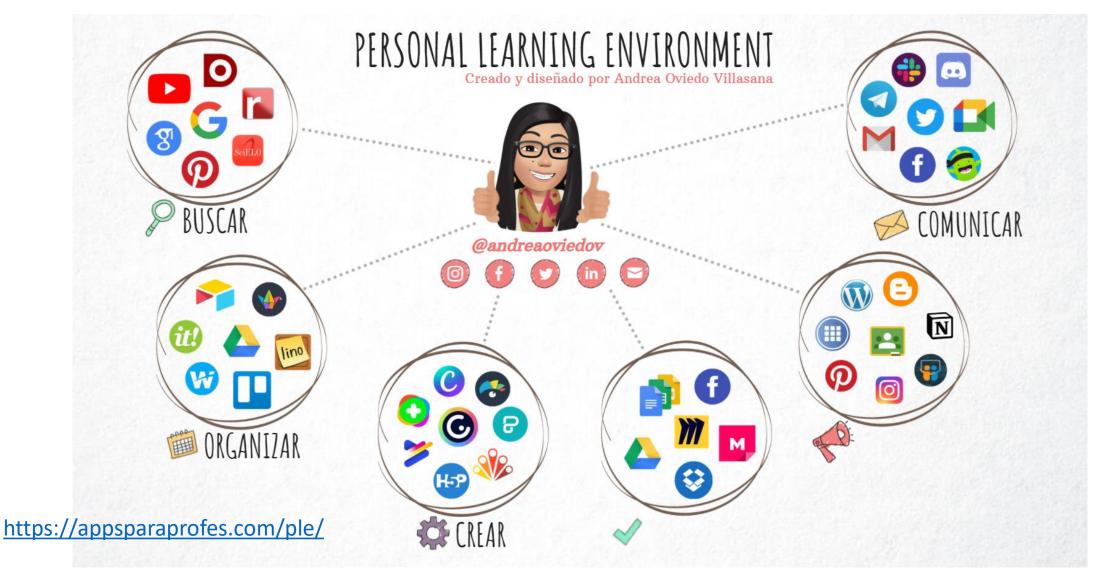




A.Austen, P.C.Chen, V. Darlington, D.Daylamani-Zad, S.De'Cage, C.Farrant

https://www.wgu.edu/blog/connectivism-learning-theory2105.html#openSubscriberModal
The big huge connectivism paper: http://www.asianjde.com/ojs/index.php/AsianJDE/article/view/623

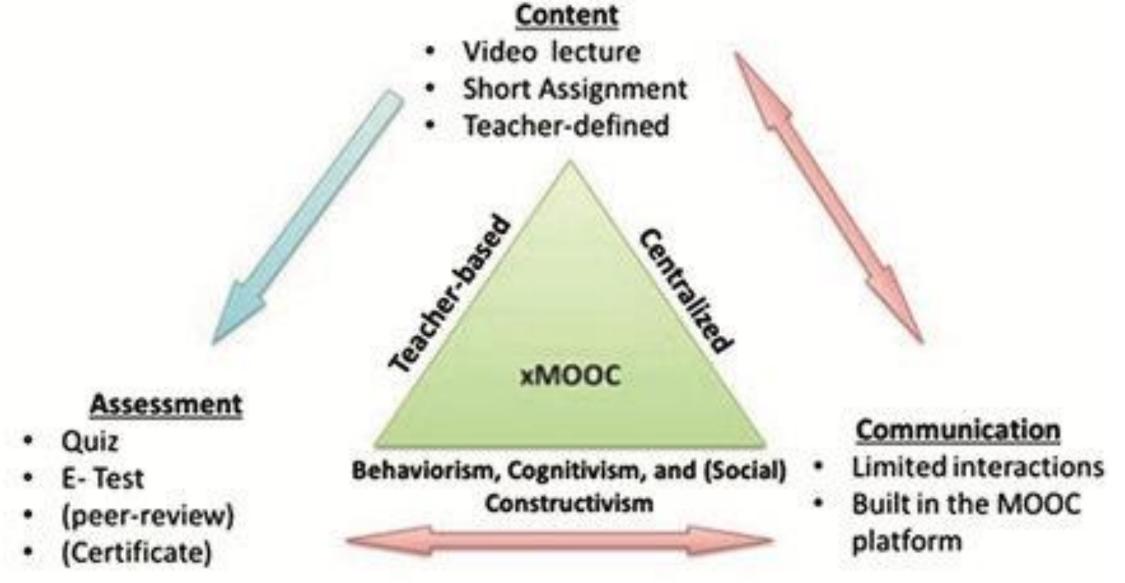
How I make my own learning



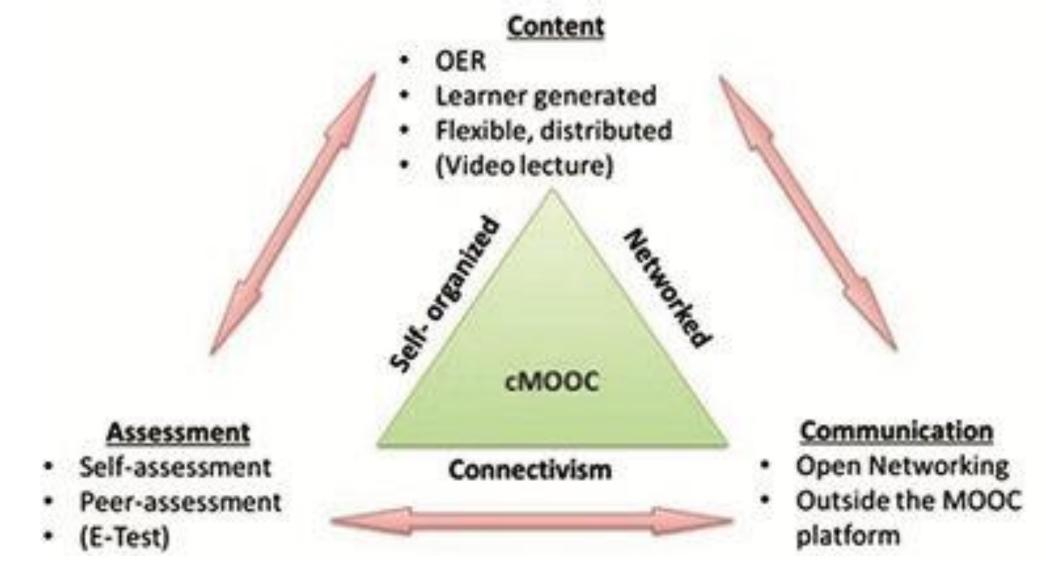
How communities can make their own learning (or, another thing I made with George)



Elements of an xMOOC (traditional learning)

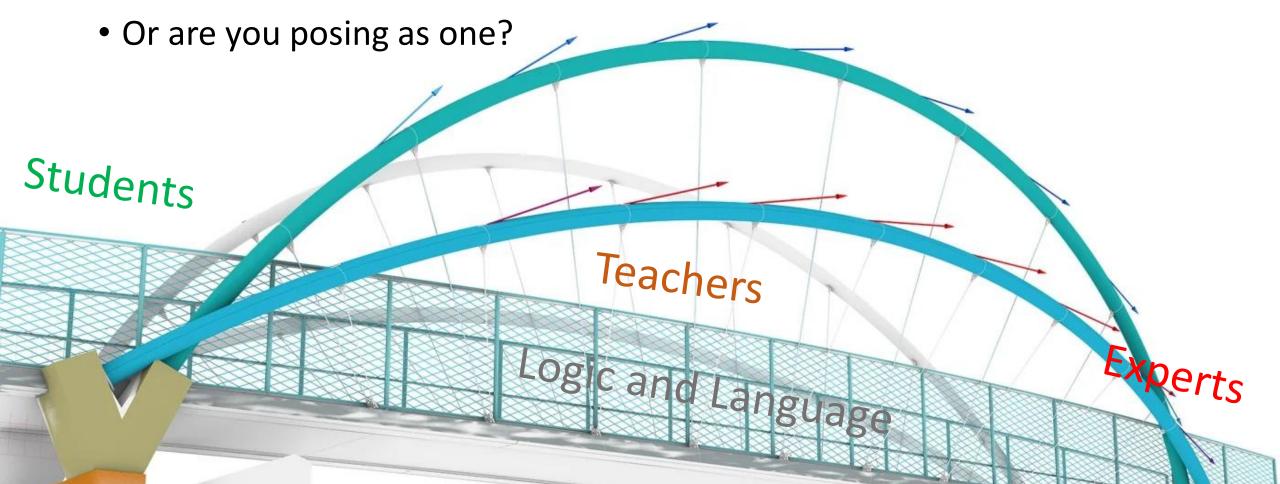


Elements of a cMOOC (online learning)



What model are you teaching your students?

• Are you offering a *bridge* to an expert?



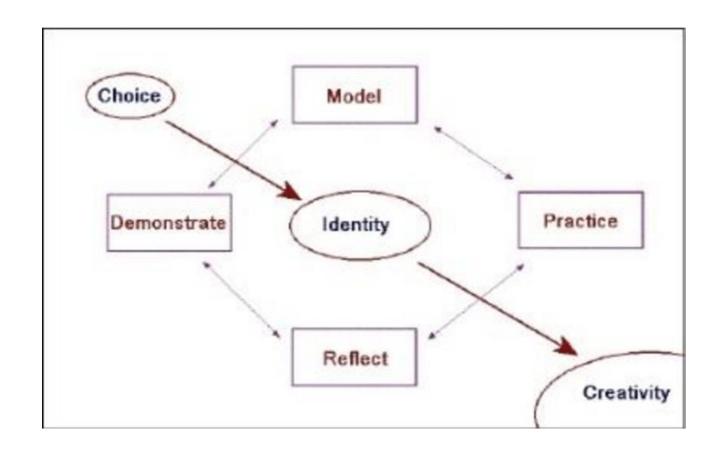
5. Finding my own voice

- The key to online learning isn't about finding courses or lessons or videos or whatever
- The key is to use all these (and whatever else you can find) to create your own learning online



How to be Heard https://www.downes.ca/post/2

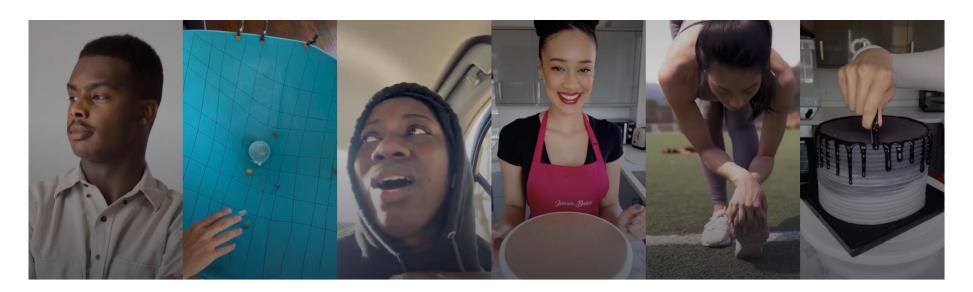
To teach is to model and demonstrate...



To learn is to practice and reflect

Finding our community

- Create, find, or join online communities
 - Look for existing communities on sites like Facebook, Reddit
 - Search for events on sites like MeetUp https://www.meetup.com/
 - Search for 'how do I...?' and find answers on discussion boards or Stack Overflow - https://stackoverflow.com/



Finding our community – Some Hints

- Key lesson: it's better to join an existing community than to start a new one on your own
- Look for people based on what they *do*, not what they know
- The more specific the search the better the match with a specific community (because the community is defined by *logic* and *language*)
 - e.g. don't search for bicycling, search for 'how to repair a derailleur'



Participation

- A four step model:
 - Read
 - Share
 - Ask
 - Build



Example: how to participate in a geocaching community:

https://www.geocaching.com/help/index.php?pg=kb.printer.friendly&id=4

(How did I find this example: I searched for 'local geocaching community' on Google – a precise search like this is better than a ague search for 'geocaching')

Instead of offering digital lessons, demonstrate how *you* learn about something online

- Even if you're not good at it. Especially if you're not good at it
- And make it genuine learning about something you don't know
- Take your time and model the full process from newbie to 133t



Still not sure?

- Search for 'how to join a community' on Google
- Find a few things you like
- Try it out does the advice work for you?
- If it does, maybe write a blog post about it
- Don't know how? Search for 'How to create a blog post' on Google Etc.

The main message: don't wait to be taught! It's not in the curriculum. Online learning is all about discovering for yourself.

Thank you

- Stephen Downes
- https://www.downes.ca

https://mastodon.social/@Downes

