A Personal Learning Framework

Stephen Downes World Conference in Online Learning, Toronto, Canada, October 18, 2017

http://www.downes.ca/presentation/479

The Backchannel

Use Twitter with the hashtag #icde2017

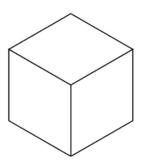
Or go to http://bit.ly/icde2017 and use the live comments form

If it looks broken, just reload it. ⁽²⁾

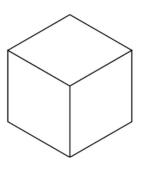
Discussion Thread: 755 icde2017. Tag: icde2017 Updating every 10 seconds.

AthraSultan: Michael PhD student presented about Open Educatinal Practices .. Good Luck in your studying journey <u>@mpaskevi...</u> https://t.co/8nNx8Zus8T

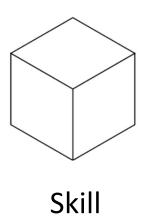
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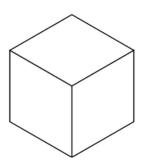


Knowledge

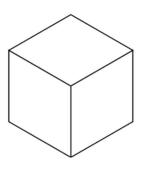




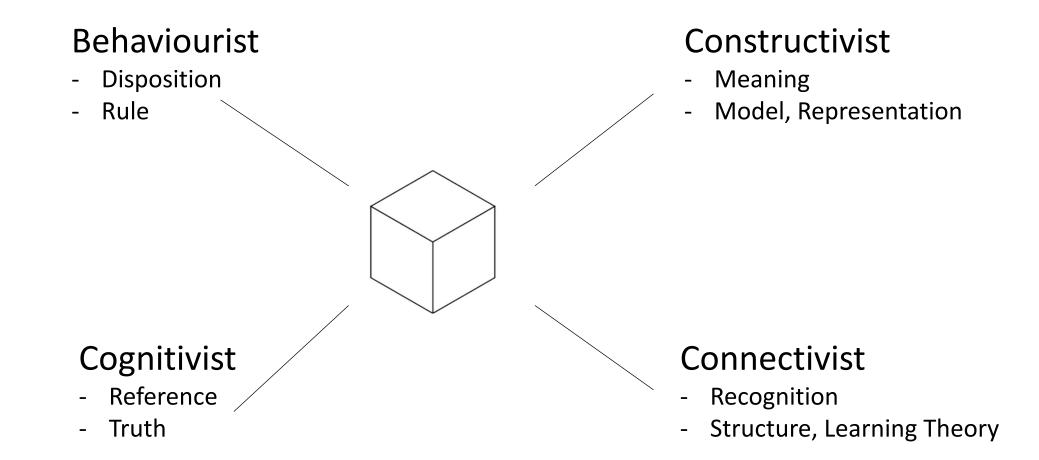




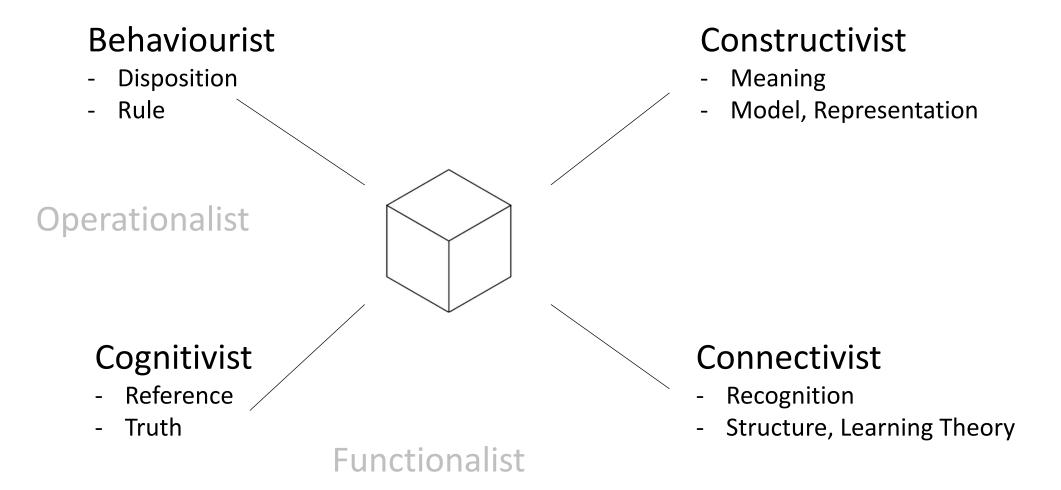
Competency



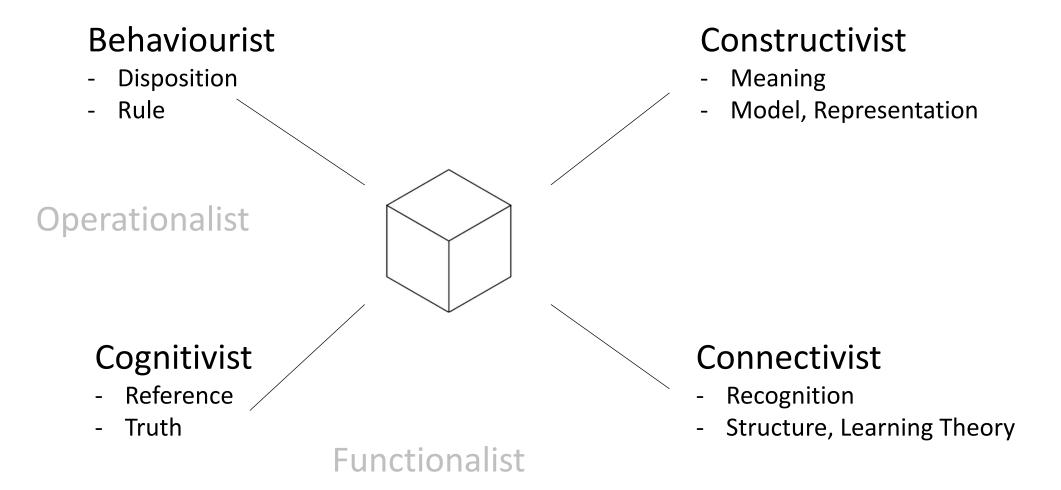
Content

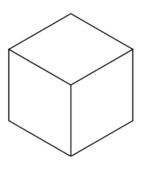


Intuitionalist

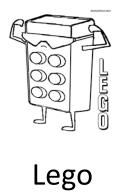


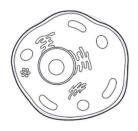
Intuitionalist





Content

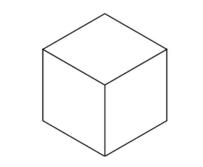


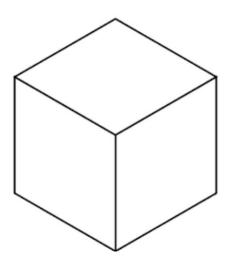


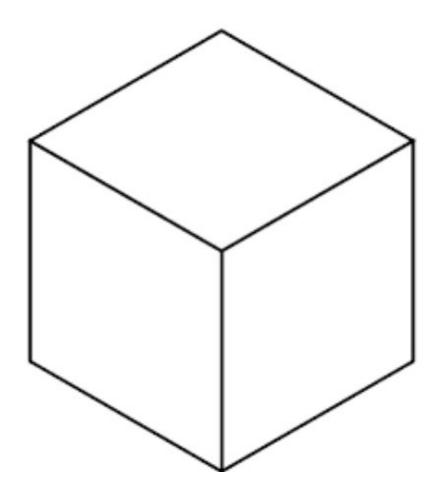
Cell

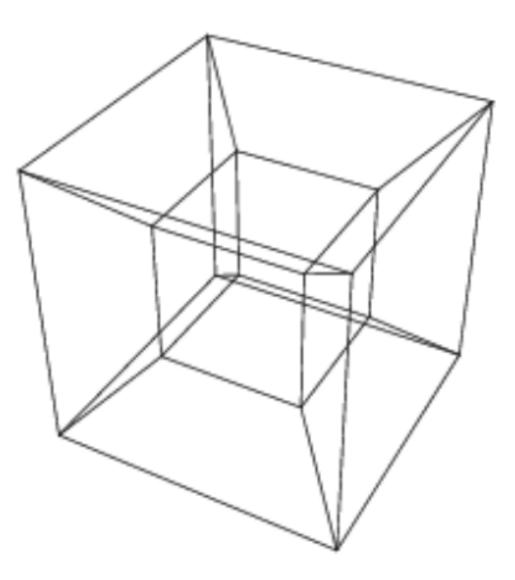


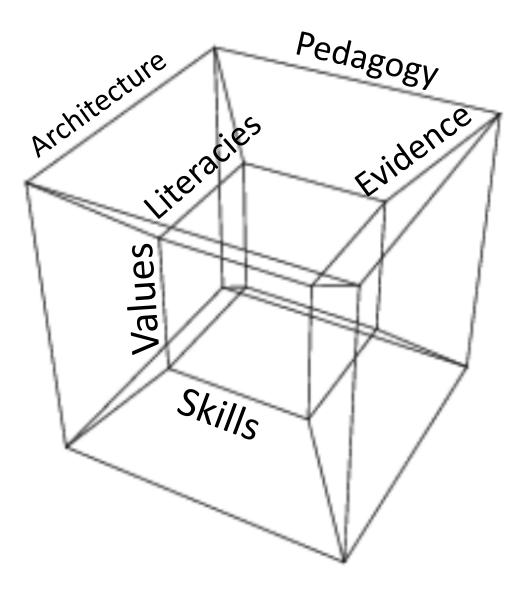
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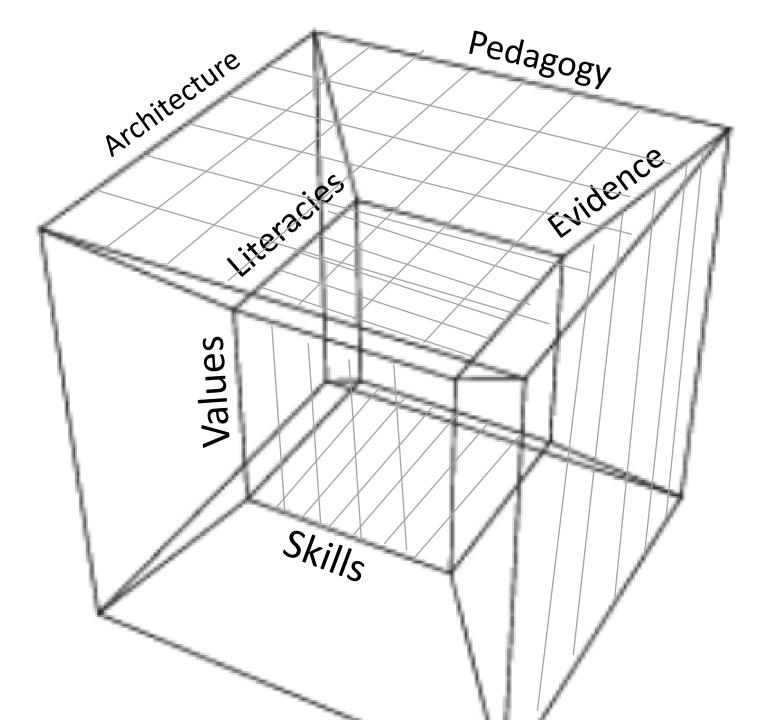












Pedagogy

Personalization?

What is a personalized 21st century education

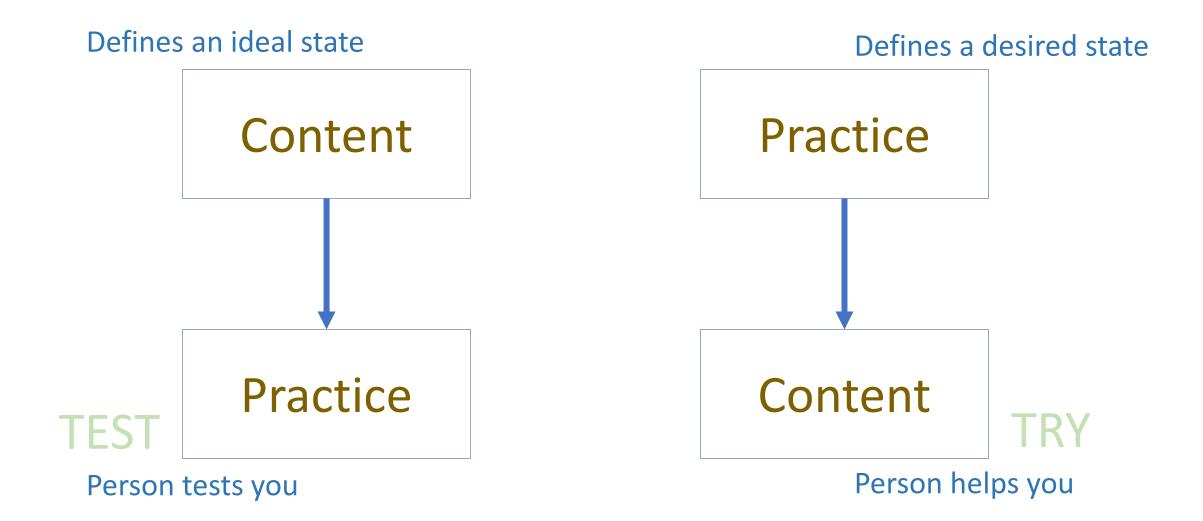
- personalized education plan (developed by teacher)
- adaptive learning via assessment
- grouping by proficiency, not age
- teacher = director of learning
- cf Kettering Foundation, Individually Guided Education

Personalizing 21st Century Education: A Framework for Student Success Dan Domenech, Morton Sherman, John L. Brown Jossey-Bass, a Wiley Brand. 2016

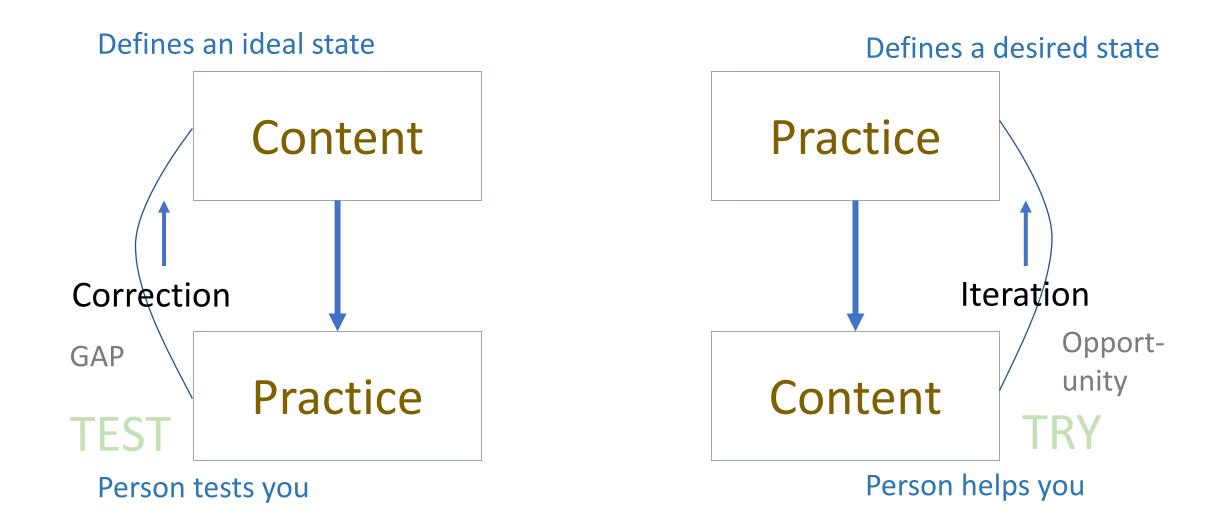
2. Two Approaches...



Two Approaches...

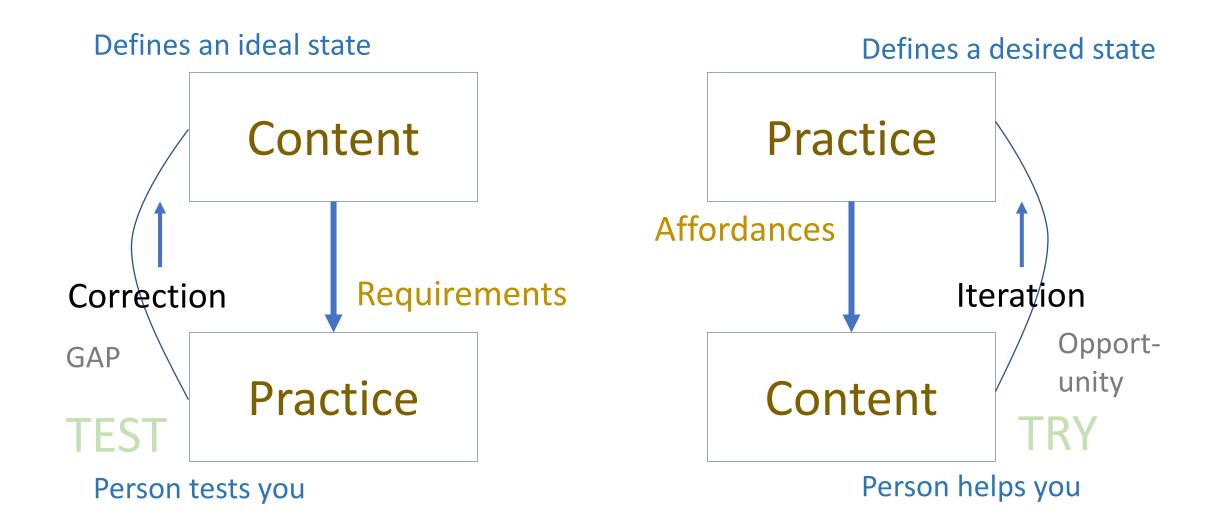


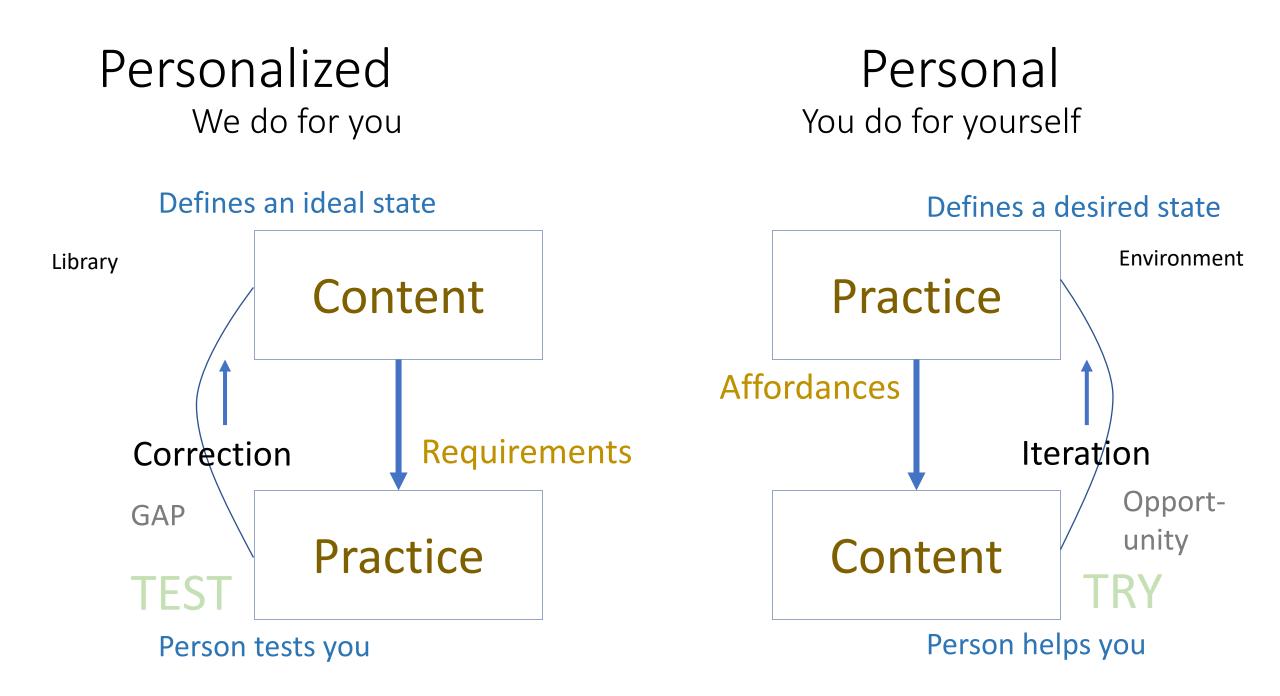
Two Approaches...



Library

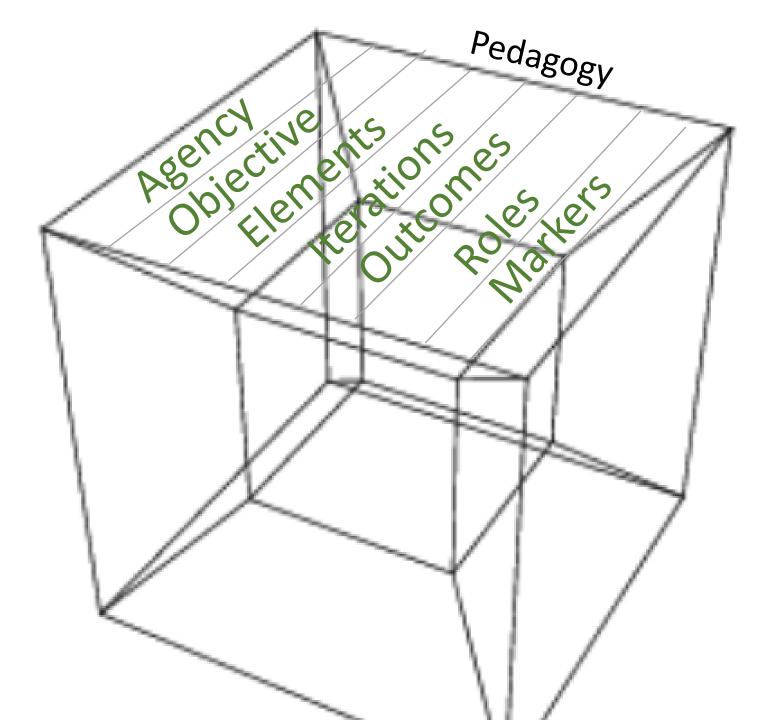
Environment





Personal vs. Personalized

- Compare between:
 - Personalized health care (something the National Health Service or Health Management Organization provides)
 - Personal health care (something you do for yourself)
- Personal goals versus institutional goals
- Practice versus content

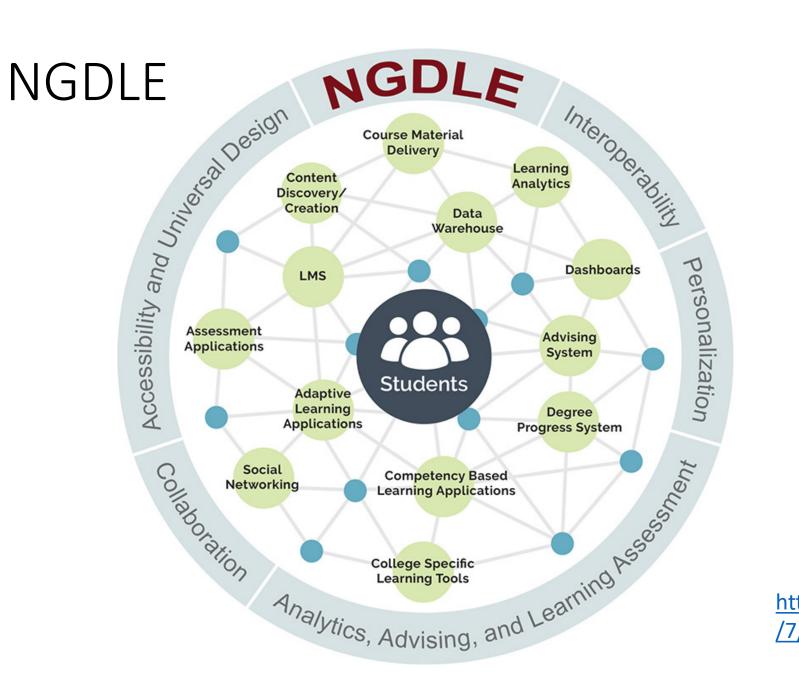


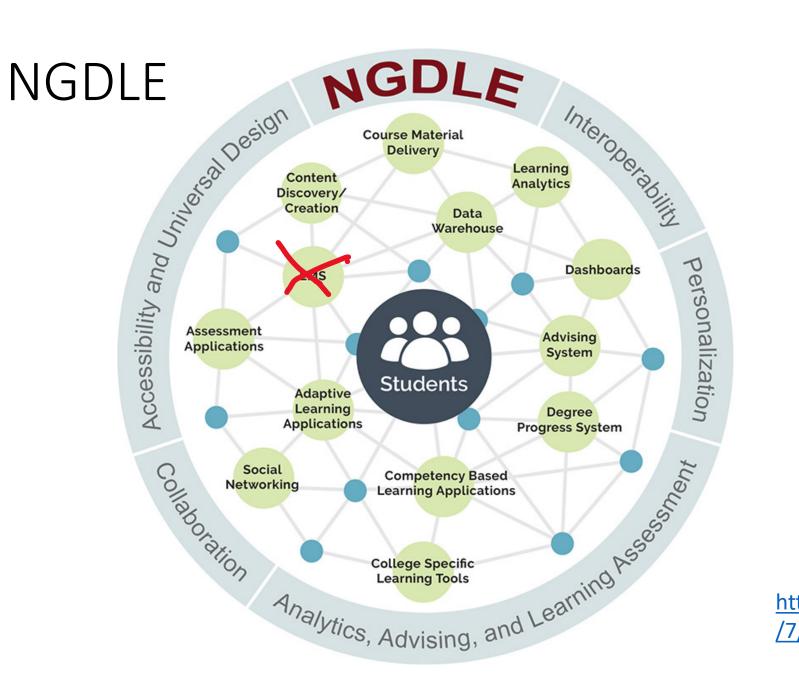
Architecture

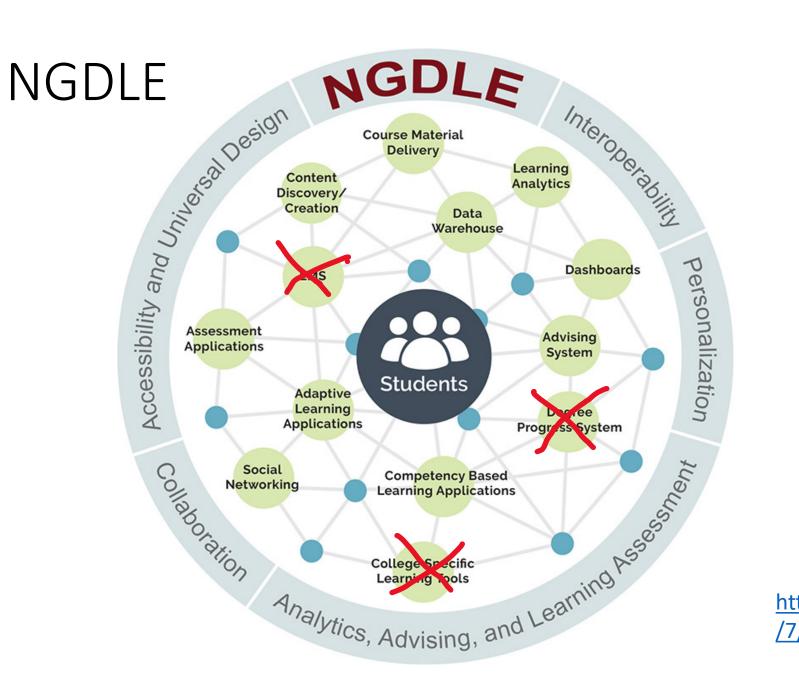
JISC E-Learning Framework

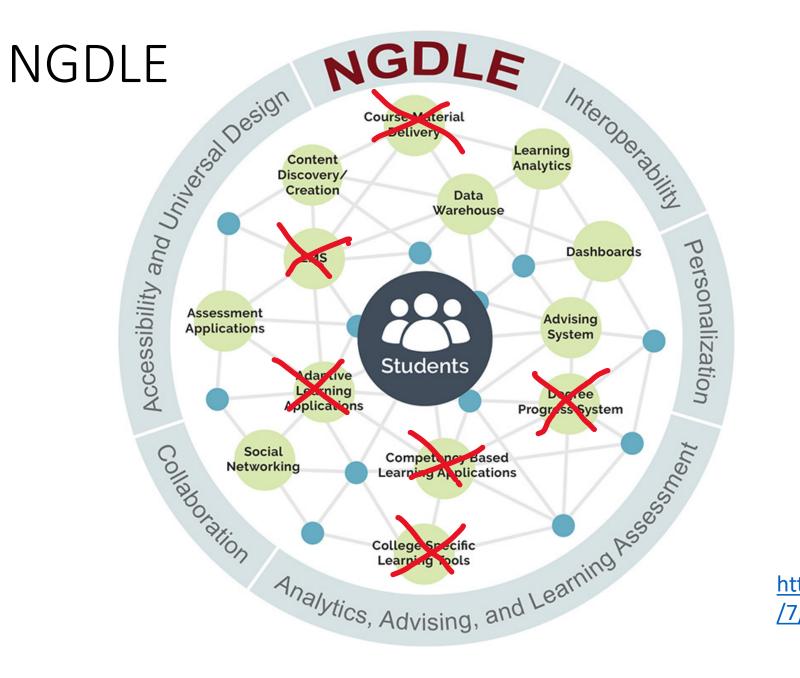
Sample User Agents				
Assignment marking tool	Authoring applications	Library System	Portal	
Student Enrolment Portlet	Timetabling	VLE / LMS		
	Learnin	g Domain Services		
Activity Author	Activity Management	Assessment	Competency	
Course Management	Course Validation	Curriculum	Grading	
Learning Flow	Marking	Personal Development	Quality Assurance	
Reporting	Resource List	Sequencing	Tracking	
ePortfolio				
	Con	nmon Services		
AV conferencing	Alert	Archiving	Authentication	
Authorisation	Calendaring	Chat	Content Management	
Context	DRM	E-mail management	Federated Search	
Filing	Format Conversion	Forum	Group	
Harvesting	Identifier	Logging	Mapping	
Member	Messaging	Metadata Management	Metadata Schema Registry	
Packaging	Person	Presence	Rating / Annotation	
Resolver	Role	Rules	Scheduling	
Search	Service Registry	Terminology	User Preferences	

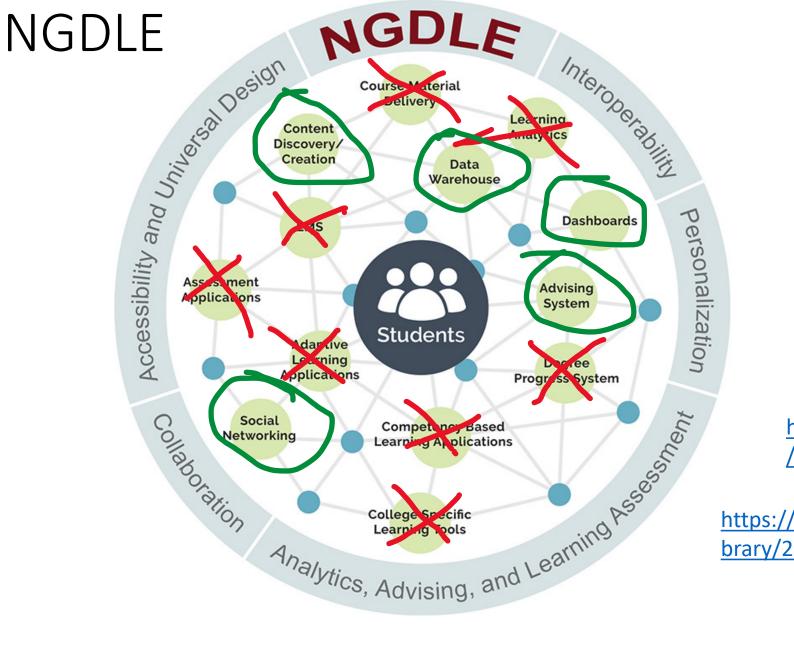
Sarah Porter http://slideplayer.com/slide/4631545/





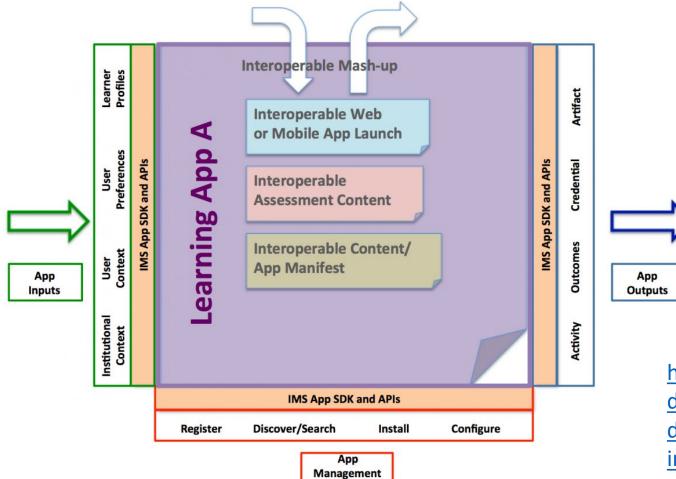






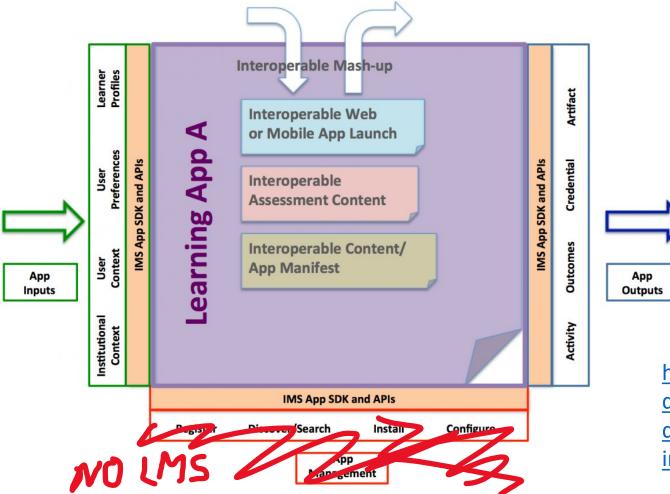
https://library.educause.edu/~/media/files/li brary/2015/4/eli3035-pdf.pdf

Anatomy of an Interoperable Learning App



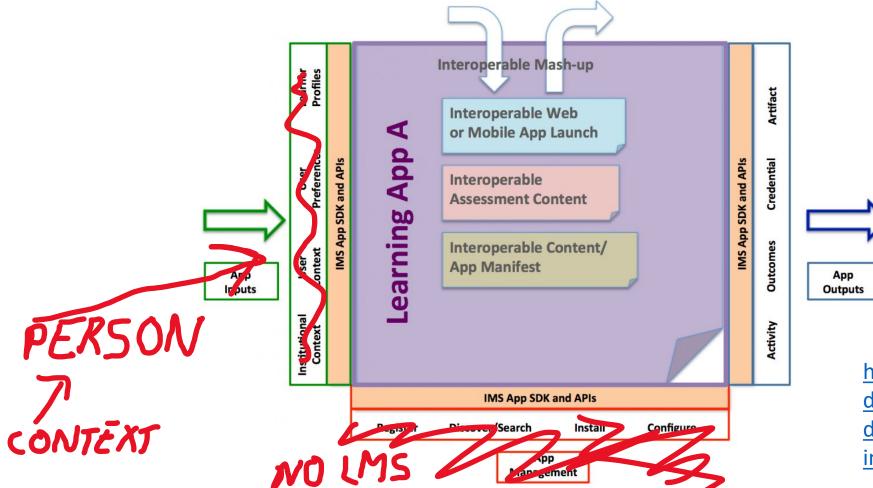
https://www.imsglobal.org/article/ deeper-dive-next-generationdigital-learning-environment-ngdleinteroperability-part

Anatomy of an Interoperable Learning App

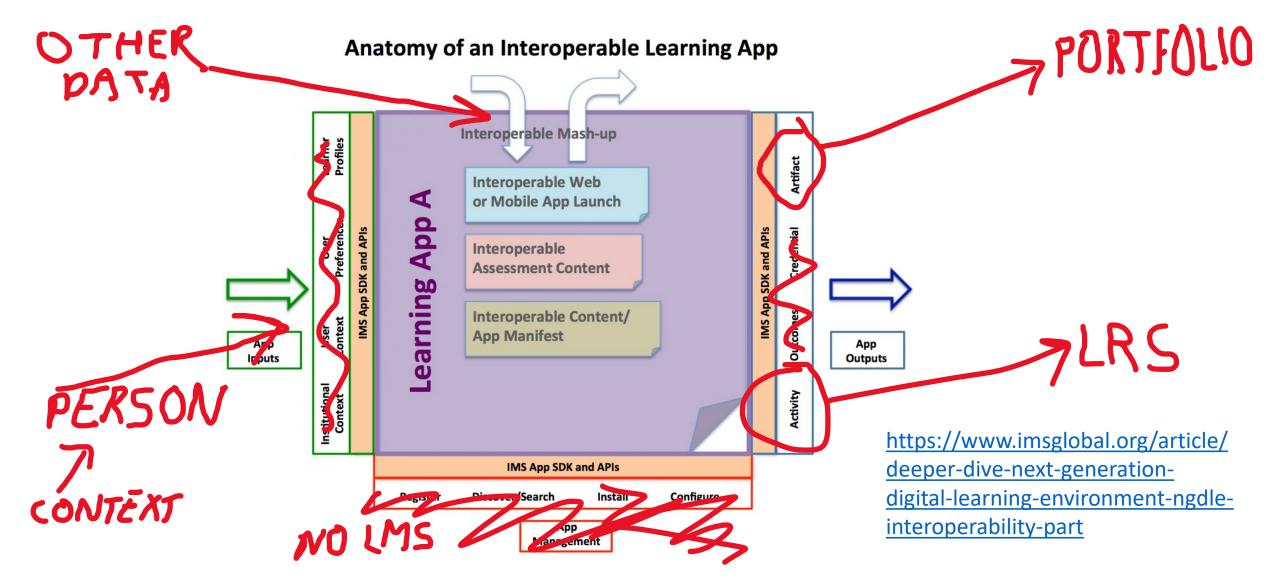


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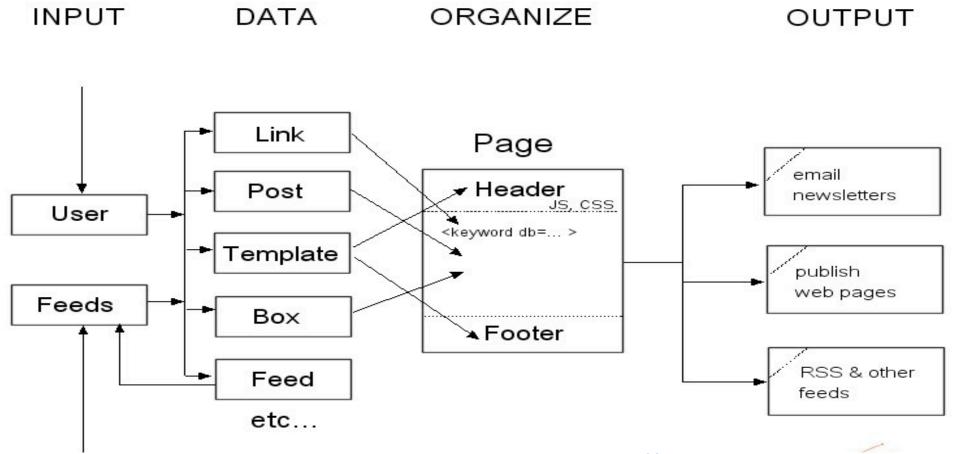
Anatomy of an Interoperable Learning App



https://www.imsglobal.org/article/ deeper-dive-next-generationdigital-learning-environment-ngdleinteroperability-part

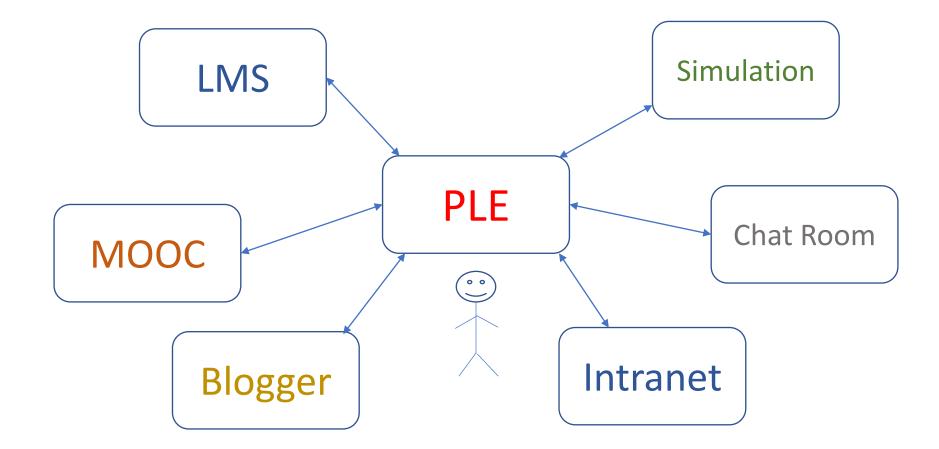






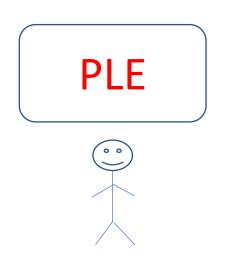
http://grsshopper.downes.ca

Overview of the Concept of PLEs

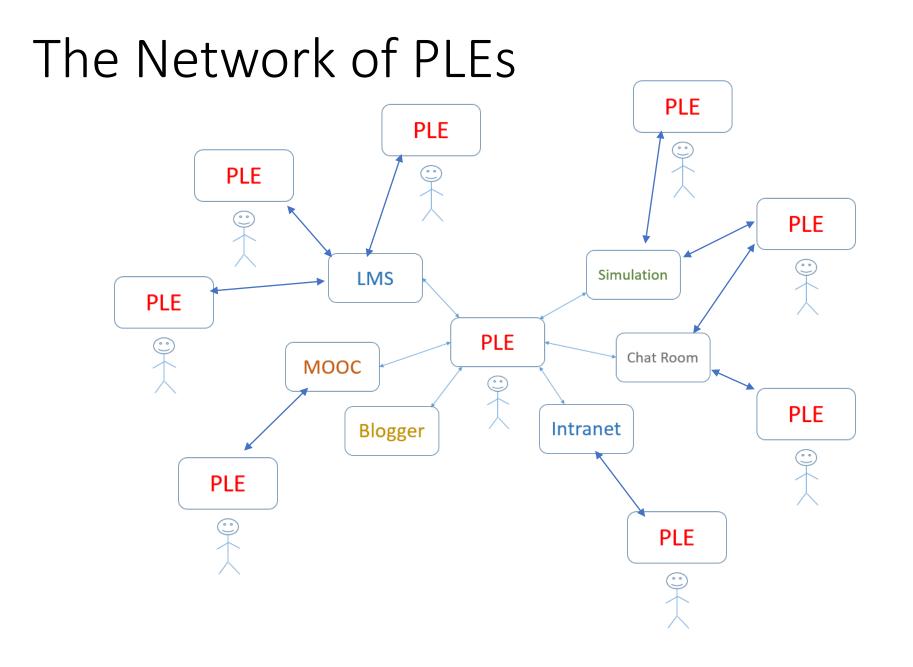


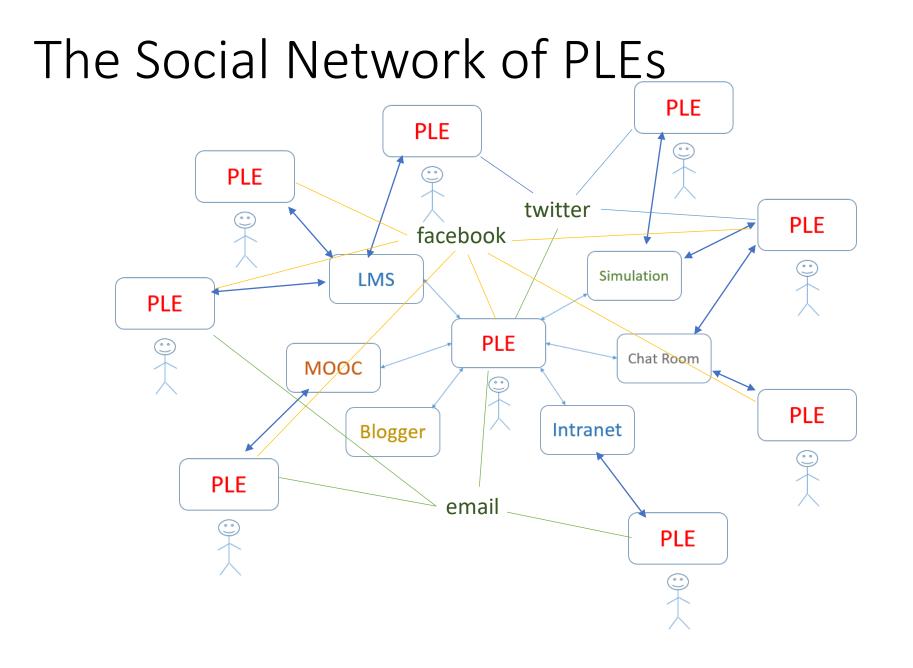
Access to many services in one personal environment

Properties of the PLE...

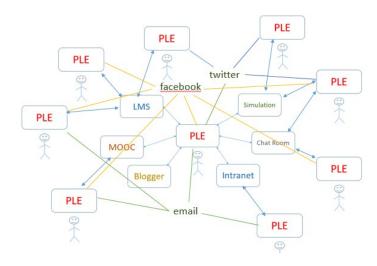


- What information should it record?
- Who owns the data? How private is it?
- What should it *do*?
- What would a person do with it?
- Where, exactly, is a PLE located?





Properties of the Network...

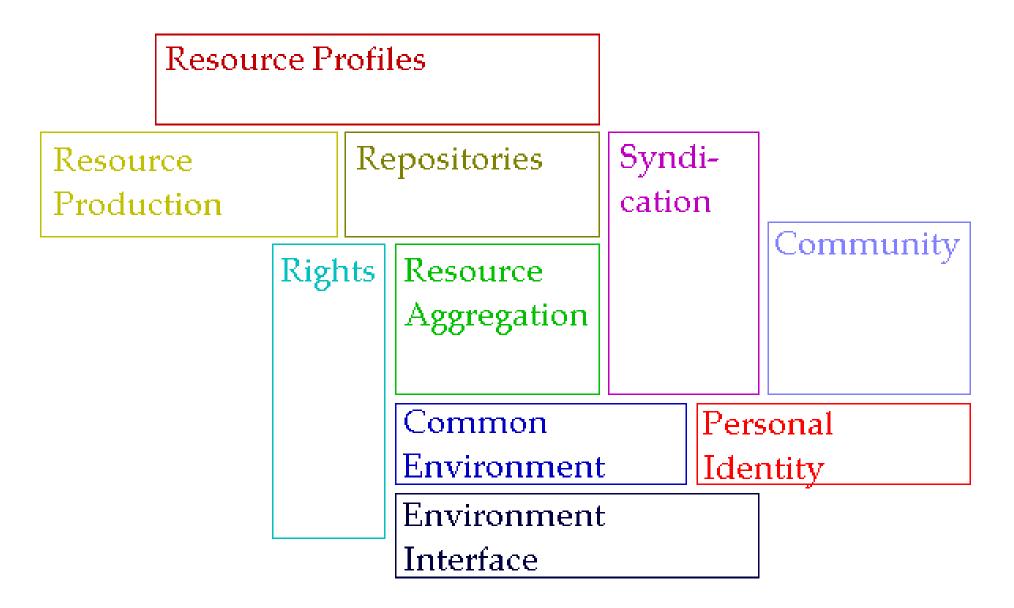


- How do people find each other? Services?
- How do they communicate? What do they share?
- How does a single PLE work with services?
- Do we need centralized registries?

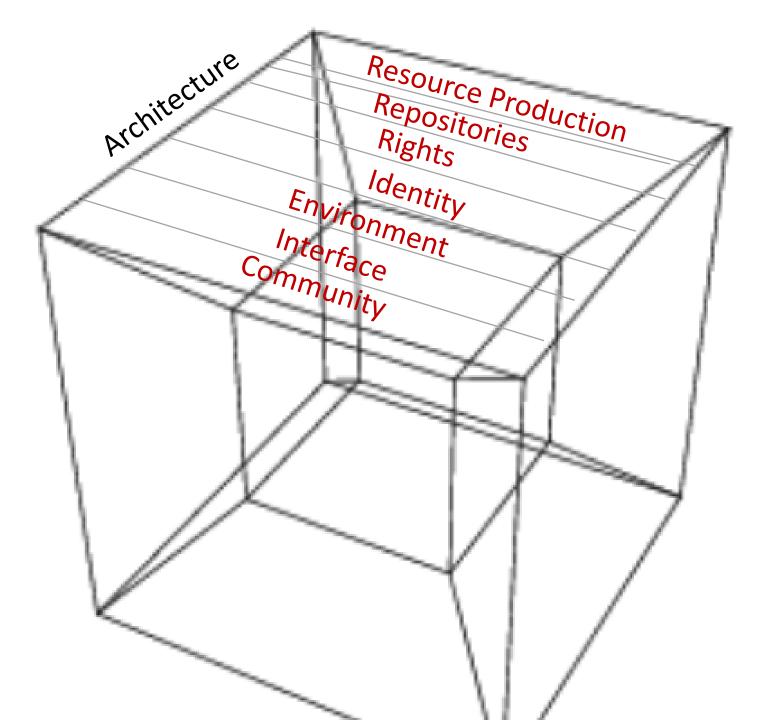
Why a personal learning environment?

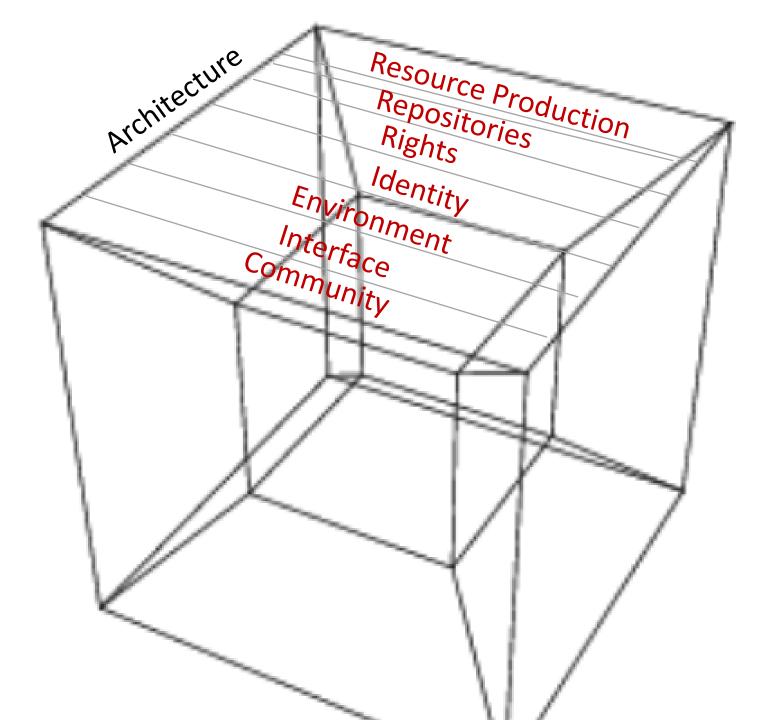
- What is the *value proposition* for a PLE?
 - Note: value isn't what you can *do*, it's how you benefit
 - This is usually stated in financial terms (earn more, cost less)
 - Can also be stated in terms of quality: faster, bigger, better
 - And can be non-financial goods: satisfaction, happiness, memories

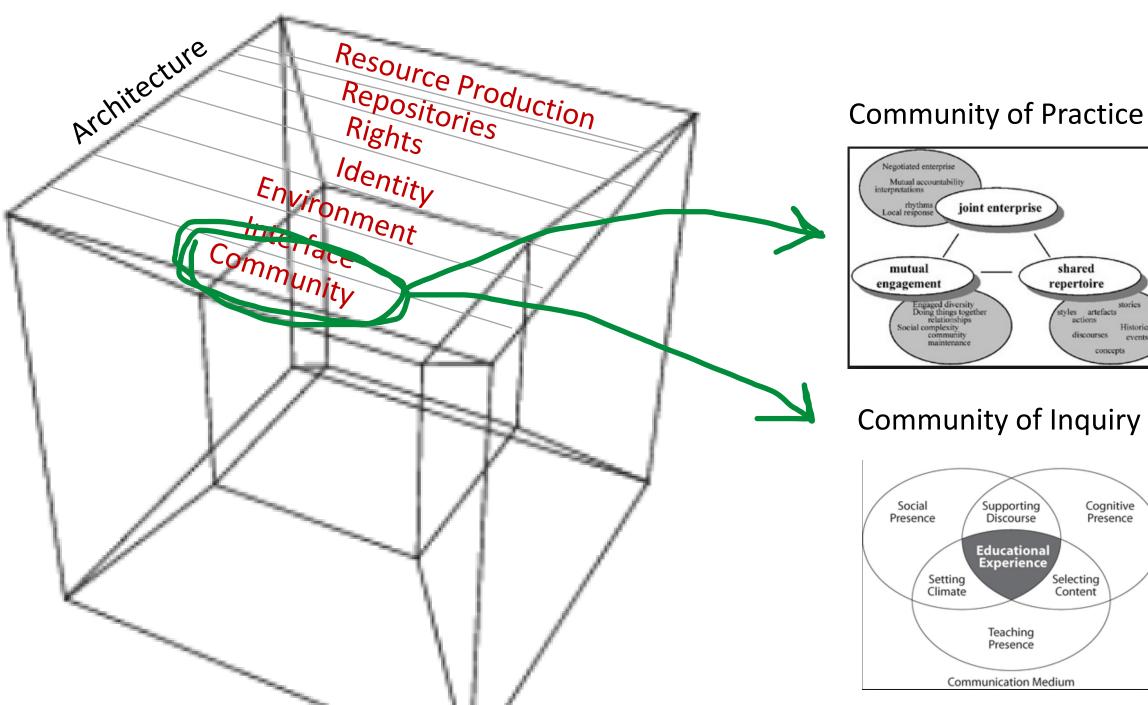




Personal Learning Architecture







joint enterprise shared

repertoire

styles artefacts

discourses

concepts

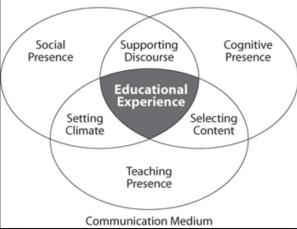
actions

stories

Historical

events

Community of Inquiry



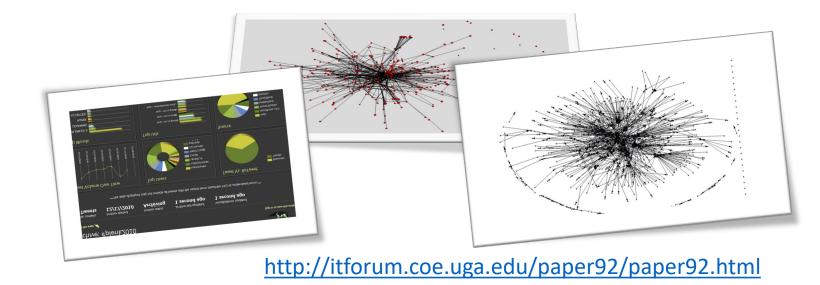


Groups Versus Networks

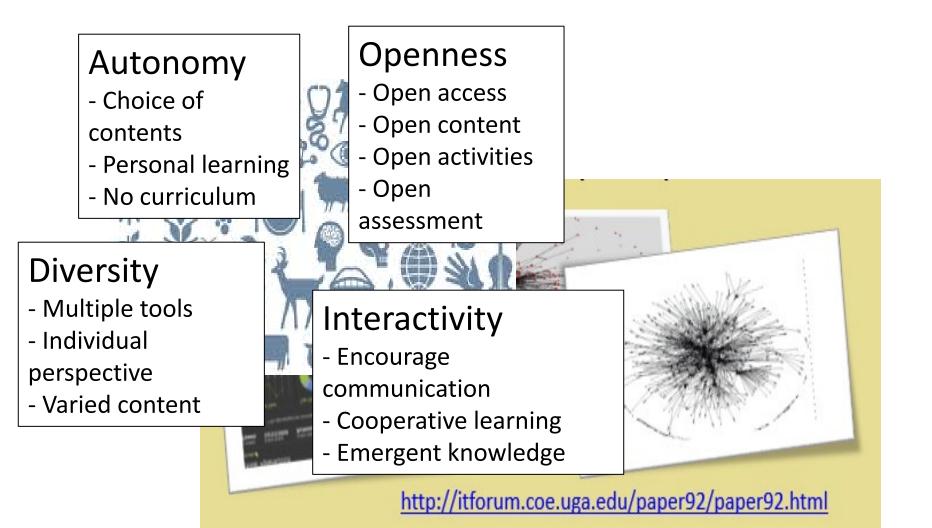


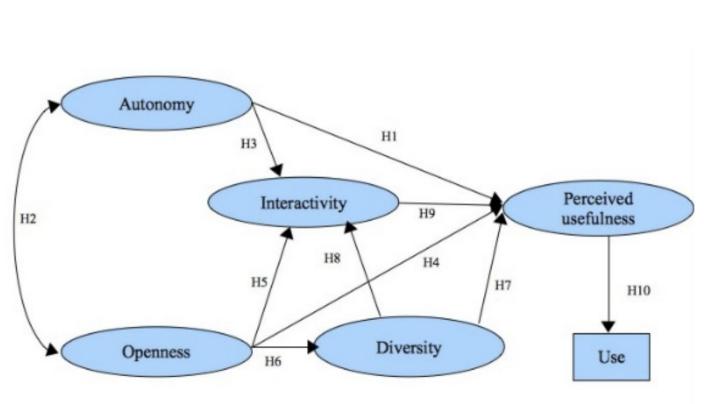
The Semantic Condition

- Autonomy, diversity, openness, interactivity
- These conditions are the conditions for a constructive dialogue...
- And are thus the design principles for a MOOC



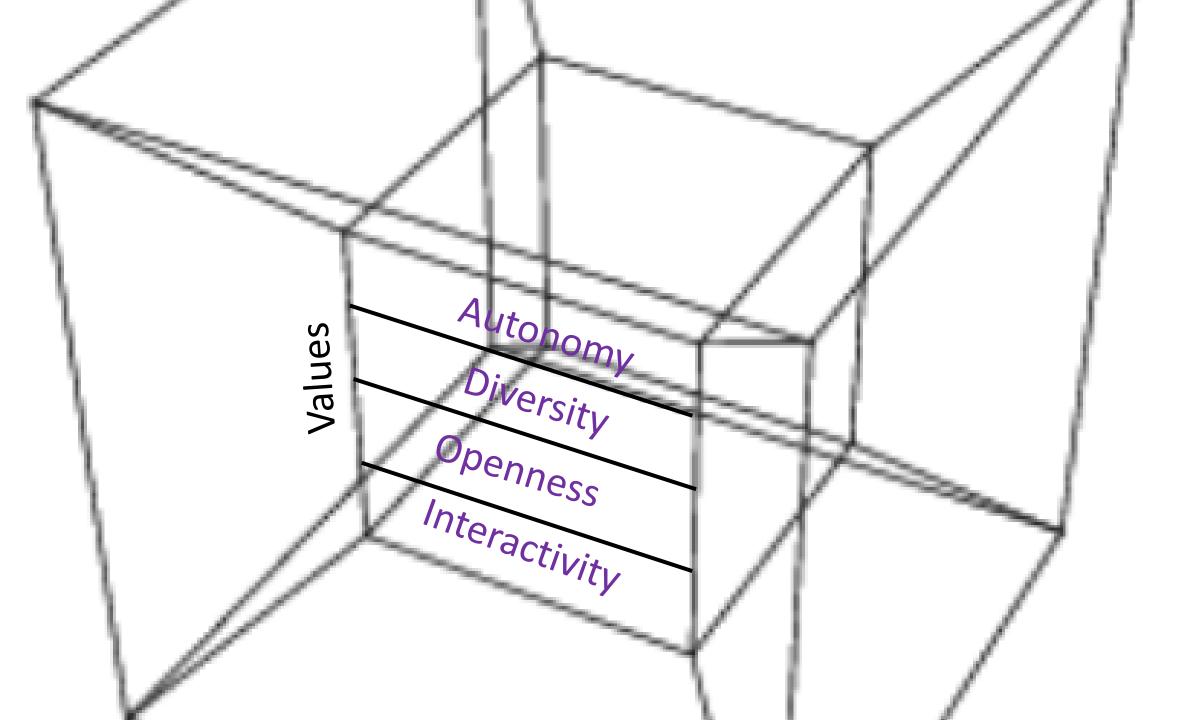
Values



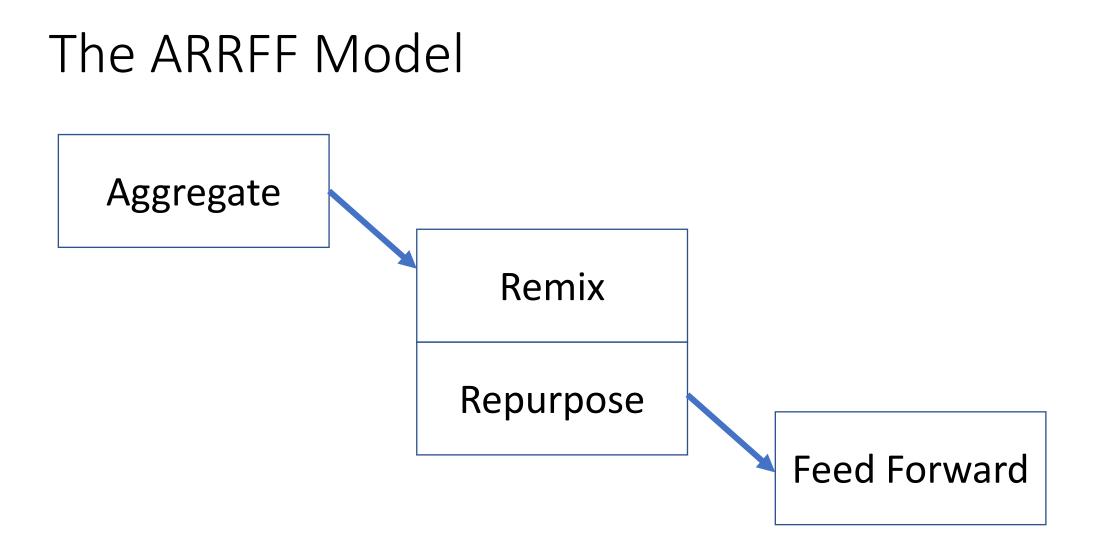


https://www.slideshare.net/jomiralb/social-networking-sitesand-knowledge-exchange-the-proposal-of-an-acceptancemodel **Oriol Miralbell**

Skills





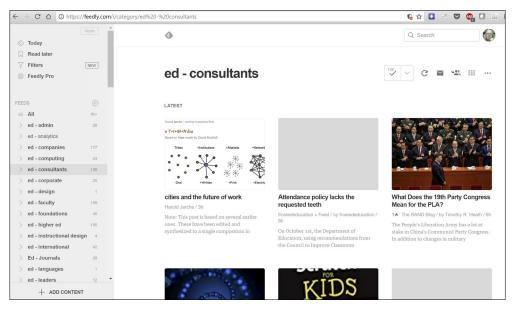


Aggregate

Yes this is my start page

Downes	Audio	Photos	Social	MLB	Video	NRC	
NewPost	Google Music	Upload	Google Plus	Games	Live - Watch	Wiki-ICT	
ListPosts	CBC Radio	Albums	Medium	Scores	Live- Create	Wiki-LPSS	
Presentation	Jamendo	Camera Roll	Twitter	Standings	My Channel	Zone	
Pages	SoundCloud	OneDrive Photos	Twitter Activity	Twitter Activity Blue Jays YouTube		SAP	
Admin	Ed Radio	Let's Make Art	Mastodon	Banter	Netflix	Service	
Downes.ca				Jays Journal	Crave	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					
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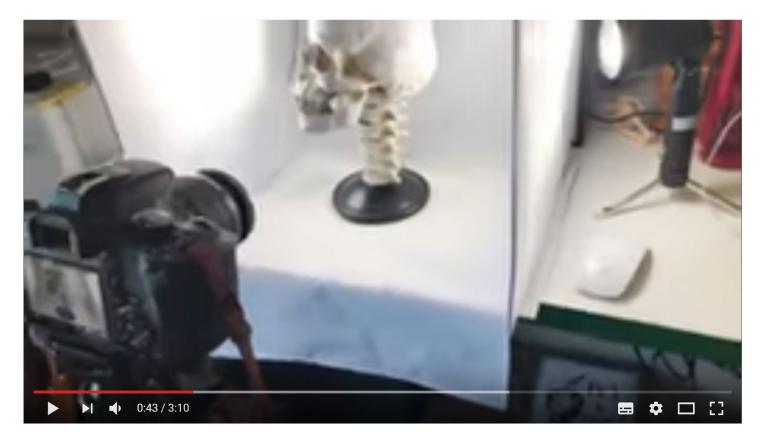
Aggregate



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"Really I made these references for me but I thought I'd share with other people." <u>https://www.youtube.com/watch?v=gOtlpLvT3w0</u>



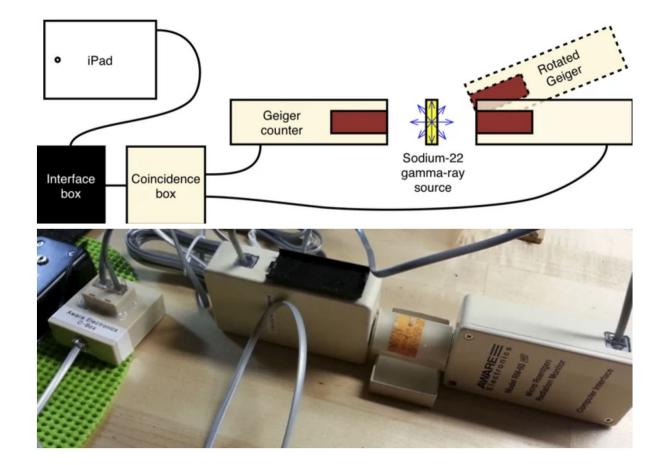
"Playing with Canva." https://www.canva.com/



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"A part of me kinda wishes I made it in a bigger bowl." https://www.youtube.com/watch?v=dcD3-kUUEDM



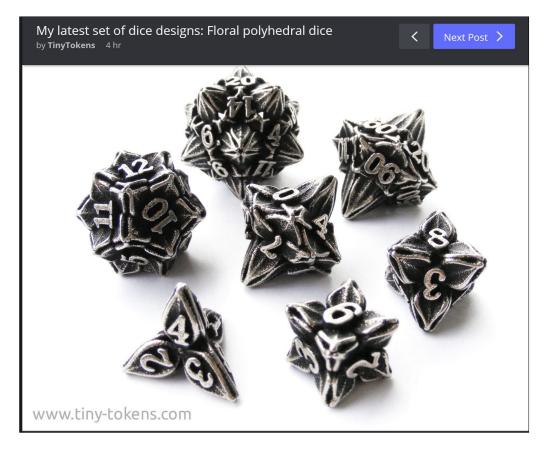
"How to Build Your Own Quantum Entanglement Experiment"

https://blogs.scientificamerican.com/critical-opalescence/how-to-build-your-own-quantum-entanglement-experiment-part-1-of-2/ https://blogs.scientificamerican.com/critical-opalescence/how-to-build-your-own-quantum-entanglement-experiment-part-2-of-2/



Road testing a Stirling engine powered buggy, (filmed in Norwich England, 2001) 2,423,621 views → SHARE =+ ···

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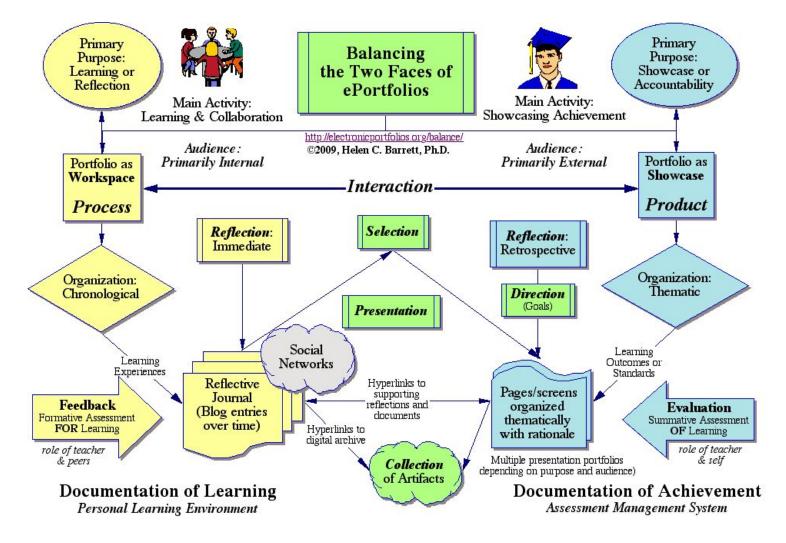


"All of the dice have been designed to be balanced and give a fair roll.." https://imgur.com/gallery/WERPi



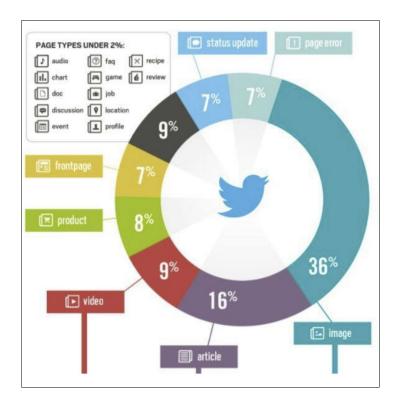
"It's always a good idea to have a fire extinguisher handy at the flying field, but it's mandatory with turbines." http://www.tested.com/tech/589319-hobby-rc-introduction-rc-jets/

Our Portfolios

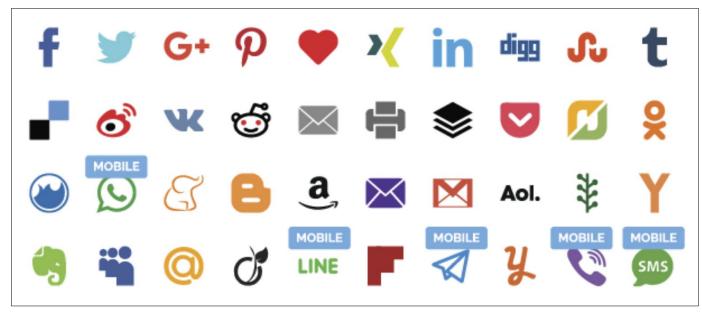


https://sites.google.com/site/eportfolioapps/overview

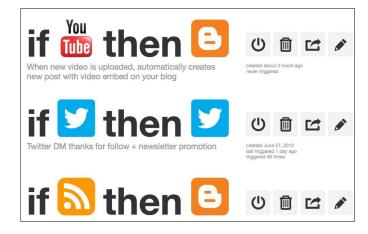
Feeding Forward



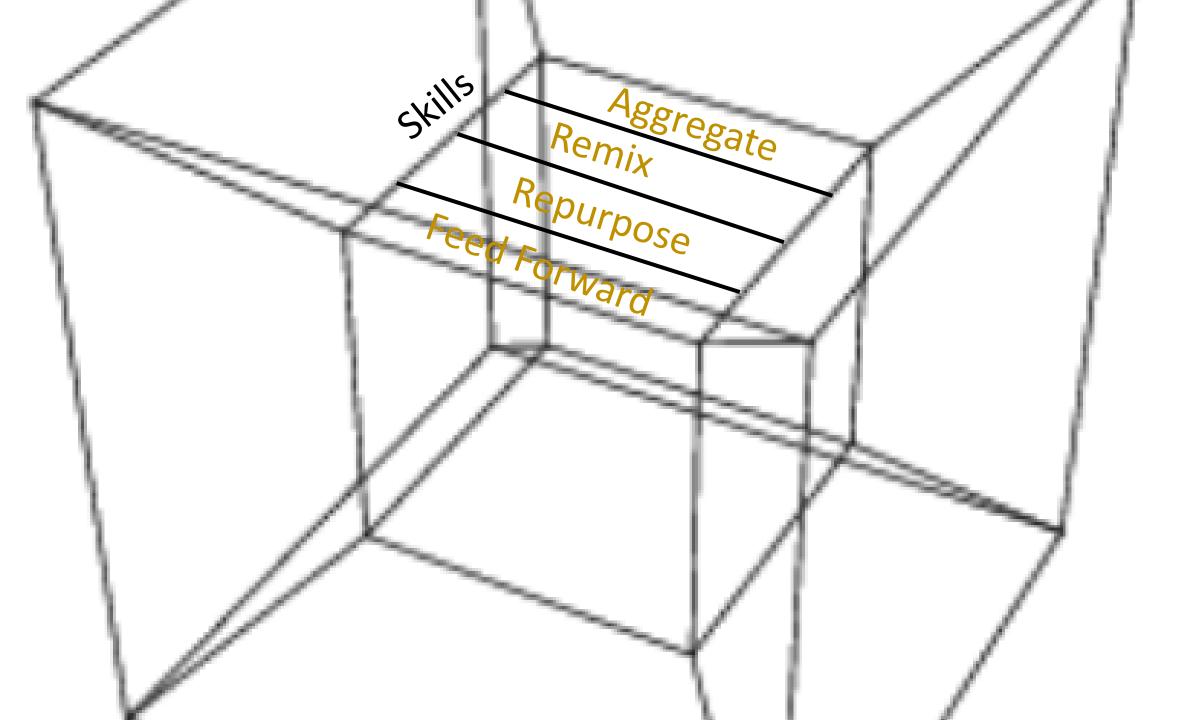
http://www.smallbizwebdesig n.ca/what-to-share-on-socialmedia-sites/



https://dcrazed.com/wordpress-social-network-plugins/



https://ifttt.com/





Syntax	Cognition		
Semantics	Context		
Pragmatics	Change		

Critical Literacies

Evidence

Evidence

Sources

- Philosophical
 - Quine, van Fraassen, Hanson
- Mathematical
 - Euler, Bayes
- Biological
 - Kosslyn, Churchland, Le Doux
- Social
 - Watts, Barabasi
- Linguistic
 - Lakoff

Measures

- Completeness
 - Godel, Newton
- Simplicity
 - Einstein
- Fidelity
 - Hume, Heidegger
- Consistency
- Prediction
 - Hempel, Popper
- Utility
 - James, Pierce, Dewey



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