

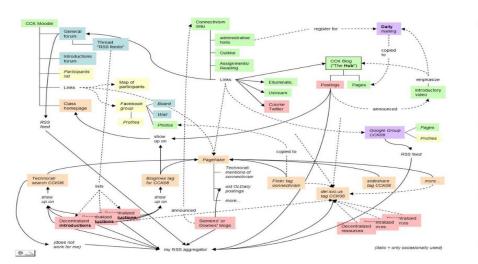
What is Education?



Riyadh, Saudi Arabia, 2015

Science as a "combination of evaluating evidence, coordinating evidence and models, and arriving at evidence-based judgments that are communicated through argumentation."

The Connectivist MOOC (cMOOC) Design





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

Content Correction Requirements GAP Practice TEST Person tests you

Personal You do for yourself



Design vs Environment

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

Carrie Paechter, Metaphors of Space in Educational Theory and Practice http://www.tandfonline.com/doi/pdf/10.1080/14681360400200202

Literacies
Comprehension, understanding and communication

		I				- 22	-1	N
		Syntax	Semantics	Context	Use	Cognition	Change	
Skills habits, competencies	Aggregate							
Ď.	Remix							
臣	Repurpose							\
Abilities,	Feed Forward							
₹	Autonor	пу						
		Diversity						
	Valu	Openne	255					
		4	Interaction		/			

Method as Discovery:

- You don't learn a language, you discover it
- To discover a language is to be immersed in it, to speak it and listen to people speaking in it
- My scientific method (if it can be called that) is to go to the office each day and immerse myself in the world – to try listening, and to try speaking

How do we know?



Success factors

- What are the indicators of success for a learning community
 - Retention (in some program)
 - Lifespan of a learning community
 - Eg. stages of a mailing list
 - Engagement and interaction
 - Number of participants
 - Number of posts
 - Shares or referrals



Lifecycle of a Mailing List

Mature discussions

Informal rules

List advertised on other lists

Enthusiasts

Founding No rules

Yes, you can announce your event

Strict policies

Two people monopolize the list for their neverending debate

No rules

List consists only of conference announcements and CFPs

Measuring CBE

There are four ways to measure competency-based results:

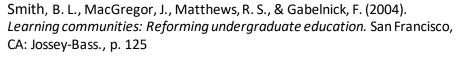
- Project execution
- Qualitative Data Sampling
- Performance
- Business Results

Diana Esparza 2016 HSR, Four Ways to Measure Competency Based Outcomes http://www.hrsg.ca/four-ways-to-measure-competency-based-outcomes/

http://www.pearsoned.com/education-blog/the-changing-role-of-faculty-from-traditional-ed-to-competency-based/

Why are we doing this?

To translate active learning into something that is meaningful and lasting, students need to learn . . . to reflect in action about the learning process itself.



Effectiveness

When these learning communities are carefully planned and implemented, they can have a dramatic and positive effect on students. Unlike some educational trends that appear promising but lack resiliency, learning communities have proven to be effective across a variety of types of institutions and in a variety of different forms.

Journal of Student Success and Retention Vol. 2, No. 1, October 2015. http://www.jossr.org/wp-content/uploads/2015/10/Learning-Communities-in-Higher-Education-JoSSR-submission-revised-10-26-2015.pdf

Scaling up learning communities

- A paid coordinator and committed college leaders were essential to managing and scaling up learning communities.
- As coordinators clarified expectations and offered support, faculty responded by changing their teaching practices.
- Curricular integration remained difficult to implement widely and deeply.
- Student cohorts led to strong relationships among students, creating both personal and academic support networks.

Visher, M., Schneider, E., Wathington, H., & Collado, H. (2010). *Scaling Up learning communities: The experience of six community colleges.* New York, NY: MDRC. Retrieved from http://www.mdrc.org/sites/default/files/scaling_up_learning_communities_fr.pdf

Best practices?

PLCs work best ...

A culture that supports collaboration;

2. The ability to take an objective/macro view

of school efforts; and

3. Shared beliefs

and behaviors.

http://www.dpi.state
.nc.us/profdev/resou
rces/proflearn/



Key Elements of Comprehensive Learning Communities in Community Colleges

Element	Description	Examples of Practices
Curricular integration	Courses are linked thematically, with shared content and assignments, in order to construct shared, relevant teaching and learning experiences.	Aligned syllabi; overarching theme; joint assignments; joint grading; cross-course, project- based learning
Active, collaborative learning	Pedagogy promotes critical thinking through experiential, collaborative, and reflective learning. Purposeful classroom and co-curricular activities relate course content to real world issues and events.	Problem- or project-based assignments; discussion and dialogue in classroom; small- group work; field study or service projects
Faculty collaboration	Instructors work together on linking activities and assignments across subjects; share and develop effective pedagogy; and consult on their shared students.	Organized communication before and throughout the semester; professional develop- ment to support cross-course planning; team teaching
Student engagement	Within cohorts, students create meaningful peer networks that promote academic support and social bonding. Relationships between students and faculty are strengthened by faculty outreach and communi- cation.	Cohorts; study groups or group projects; informal social events; outreach by faculty; faculty communication about shared students; field trips
Integration of student support services	Knowledge and use of campus resources that provide extra academic support. These services are integrated with classroom activities.	Student success courses; tutoring or supplementation instruction; dedicated counselor; classroom discussion of available campus resources; library training; access to technology

Outcome Mapping



http://www.outcomemapping.ca/

Toronto Beekeepers' Collective



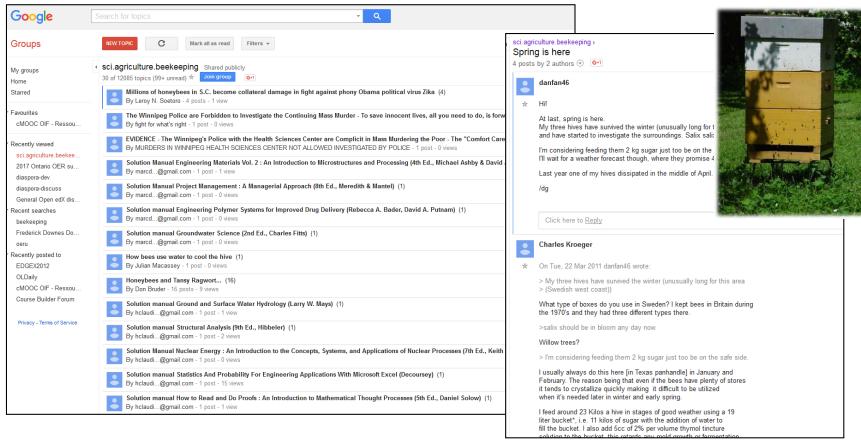
Bee Yards



We host hives at four locations in Toronto: Downsview Park, Black Creek Community Farm, Toronto Botanical Gardens, and the Royal York Hotel.

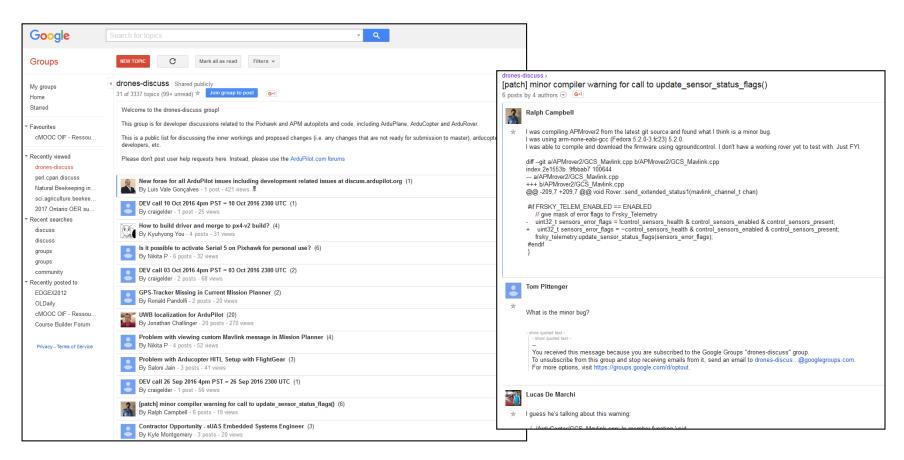
http://torontobeekeeping.ca/

sci.agriculture.beekeeping



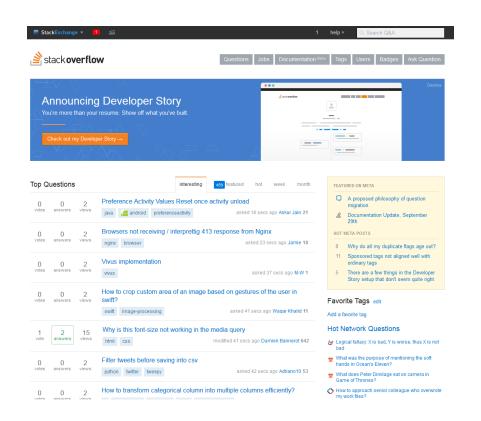
https://groups.google.com/forum/#!forum/sci.agriculture.beekeeping

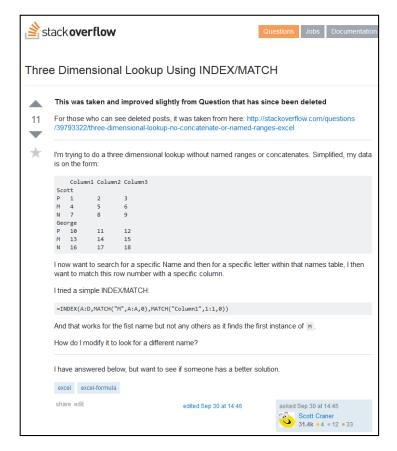
drones-discuss



https://groups.google.com/forum/#!forum/drones-discuss

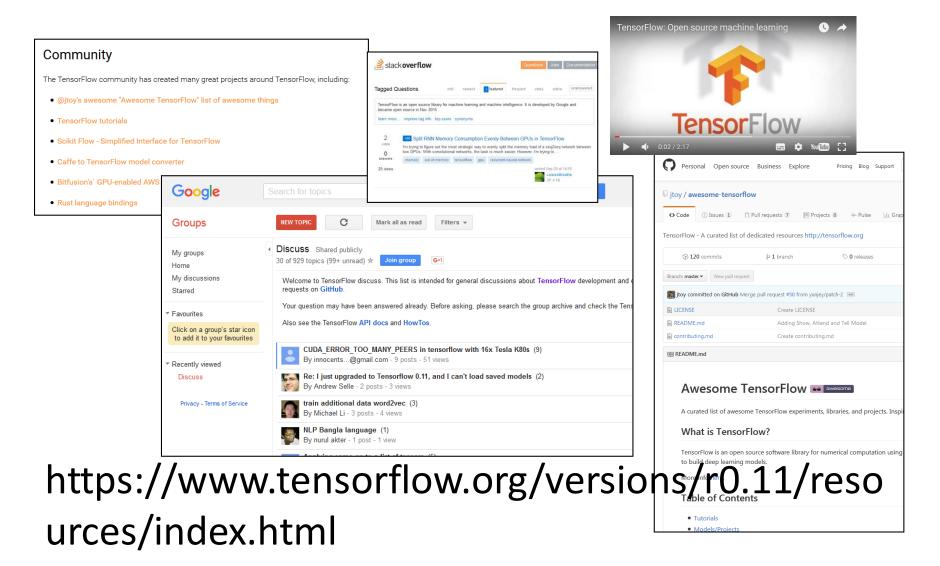
Stack Overflow



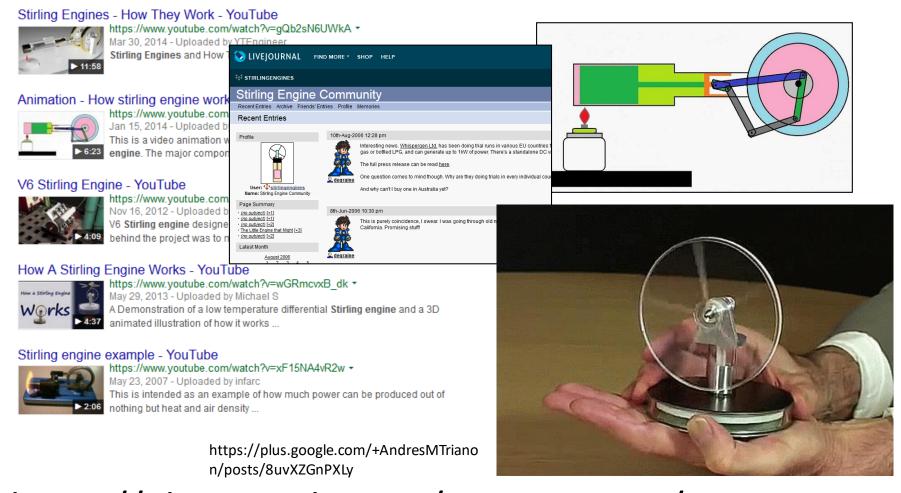


http://stackoverflow.com/

Tensor Flow

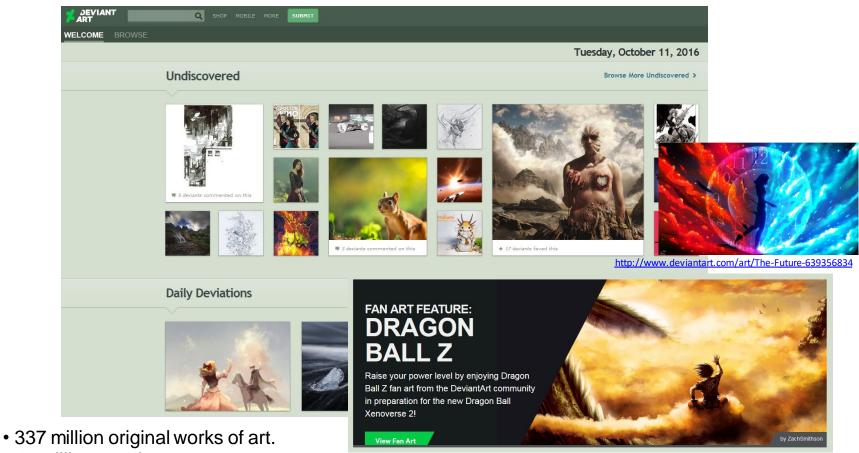


Stirling Engines



https://plus.google.com/communities/1175184 90246975838002

Deviant Art

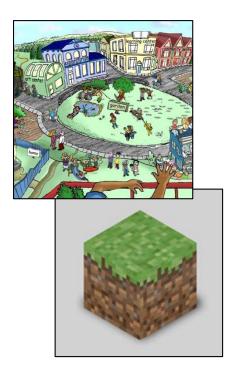


• 40 million members

https://www.deviantart.com/

Self Design





Completely funded by the BC Ministry of Education, SelfDesign enables learners to complete K-12 by exploring their interests and taking the lead in their own learning and life. With personalized guidance and ongoing support from BC-certified educators, learning unfolds at home and within local and online communities.

http://selfdesign.org/

World of Warcraft





World of Warcraft as *distributed*, organic, highly adaptive *learning community* - great perspective from +john seely brown

Its players organize themselves into massive guilds, choose specialties according to their own interests, set their own goals and create "dashboards" – or tools to measure their own performance.

http://bigthink.com/think-tank/how-world-of-warcraft-could-save-your-business-and-the-economy

No Man's Sky

No Man's Sky on Steam

store.steampowered.com > All Games > Action Games > No Man's Sky *

** Rating: 5/10 - 71,757 reviews - US\$59.99

No Man's Sky is a game about exploration and survival in an infinite procedurally generated universe. User reviews: Recent: Overwhelmingly Negative (5.658 ...

No Man's Sky

www.no-mans-sky.com/ -

About · News · Press · Contact · Support · Log · No Man's Sky. A science-fiction game set in an infinite procedurally generated galaxy, :)

You visited this page.

No Man's Sky - Reddit

https://www.reddit.com/r/NoMansSkyTheGame/ •

A subreddit dedicated to mods for the PC version of No Man's Sky. DiscussionNo Man's Sky Now One Of The Lowest-Rated Games On Steam ...

No Man's Sky - Wikipedia, the free encyclopedia

https://en.wikipedia.org/wiki/No Man's Sky *

No Man's Sky is an action-adventure survival video game developed and published by the indie studio Hello Games for PlayStation 4 and Microsoft Windows.

Sean Murray (@NoMansSky) | Twitter

https://twitter.com/nomanssky?lang=en •

No Man's Sky just went gold. Whilst many people are enjoying No Man's Sky PC, we are tracking several ... OpenGL 4.5 is required to play No Man's Sky.

Steam Community :: No Man's Sky

https://steamcommunity.com/app/275850 *

Development Update[www.no-mans-sky.com]. What's different. Objectives and stuck without Hyper-drive Issues. Player no longer able to redeem your pre-order ...

No Man's Sky Gameplay Trailer | E3 2014 | PS4 - YouTube



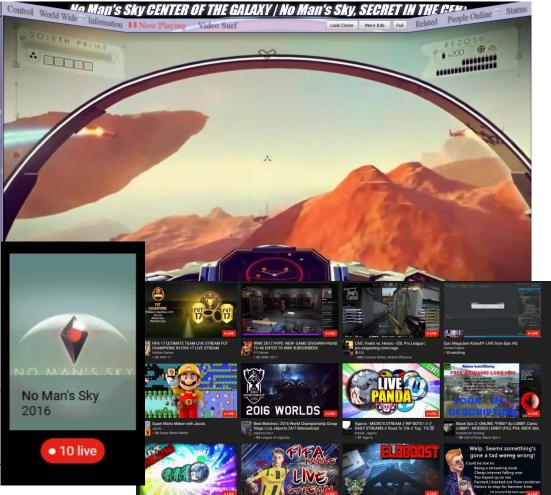
https://www.youtube.com/watch?v=nLtmEjqzg7M ▼
Jun 9, 2014 - Uploaded by PlayStation

No Man's Sky is a science-fiction game about exploration and survival in ar
3:23 infinite procedurally generated ...

No Man's Sky Game | PS4 - PlayStation

https://www.playstation.com/en-ca/games/no-mans-sky-ps4/ *

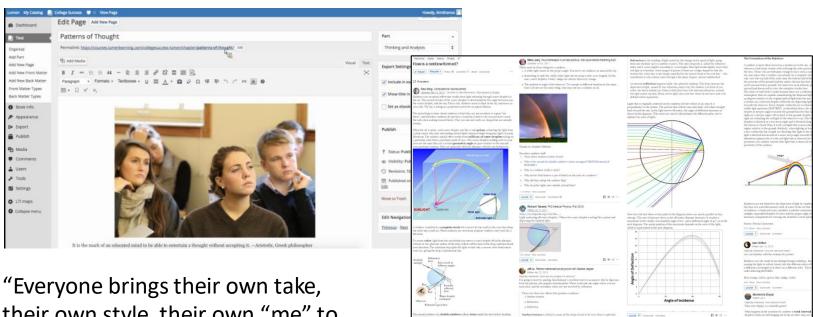
Get No Man's Sky^{TM} PS4 game, action sandbox game from official PlayStation® website. Know more about No Man's Sky^{TM} game detail, release date, watch ...



https://gaming.youtube.com/

Why They Work

Caulfield – Choral explanations



"Everyone brings their own take, their own style, their own "me" to the project. And so the pattern is only a piece of the process, right?"

https://hapgood.us/2016/10/10/new-directions-in-open-education/

Stephen Downes http://www.downes.ca



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