

Who's failing?

Why MOOC non-completion rates may be the best thing to happen to education in 200 years

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University of Brighton 2013





This session is going to be concerned partly with MOOCs, but really using them a s a lens through which we can examine our own practices. This is about questioning education, how it works, what it does, why it does it. This is less about reacting to MOOCs, more about reacting to complacency and technological momentum. It is an opportunity to reflect and to change.

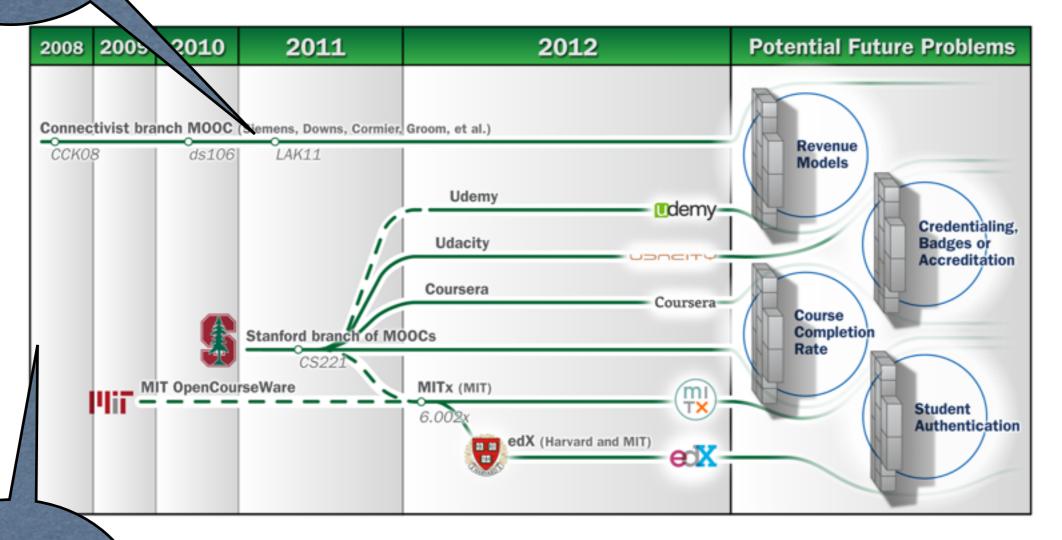
Note that most images are public domain unless otherwise noted.

Your experience

- tell us about MOOCs you have participated in
- tell us about your initial fears and hopes

I helped do this

MOOC history



http://mfeldstein.com/four-barriers-that-moocs-must-overcome-to-become-sustainable-model/

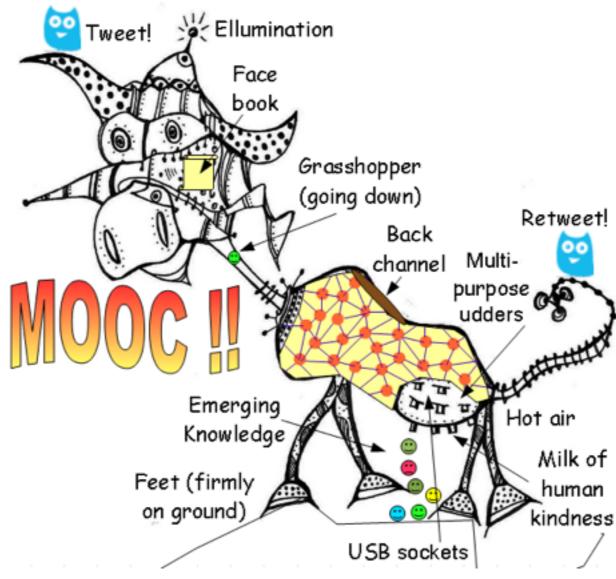
I was here

Why me? I enrolled on the first ever MOOC, and helped run one in early 2011. Note this was a cMOOC. I have enrolled on a couple of xMOOCs but never completed one!

My PhD was in how crowds can teach and how to teach crowds online. I work for one of the first open universities that teaches almost entirely online. I've built social learning technologies for over 15 years. Have one book on crowd teaching under review and another on the nature of learning technology just entered review.

cMOCs

• CCK08 - about 6000 'students'



http://gbl55.wordpress.com/2011/03/08/cck11-man-this-mooc-is-something-else/

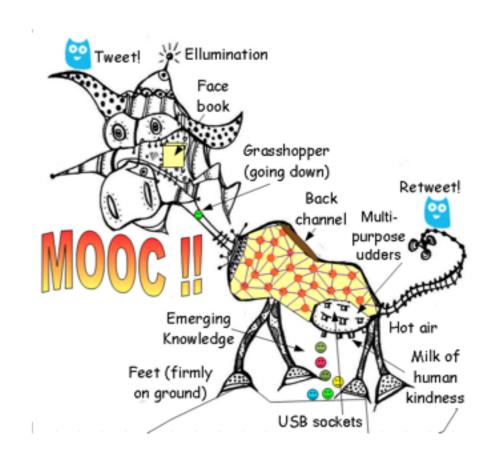
Mackness, J., Mak, S. F. J., & Wiliams, R. (2010). The ideals and reality of participating in a MOOC. Paper presented at the 7th International Conference on Networked Learning, Aalborg, Denmark. http://www.lancs.ac.uk/fss/organisations/netlc/past/nlc2010/abstracts/Mackness.html

Kop, R. (2011). The challenges to connectivist learning on open online networks: Learning experiences during a massive open online course (Vol. 12).

cMOOC methods

- participation
- aggregation
- relation
- creation/repurposing
- sharing

- no defined outcomes
 - no formal assessment



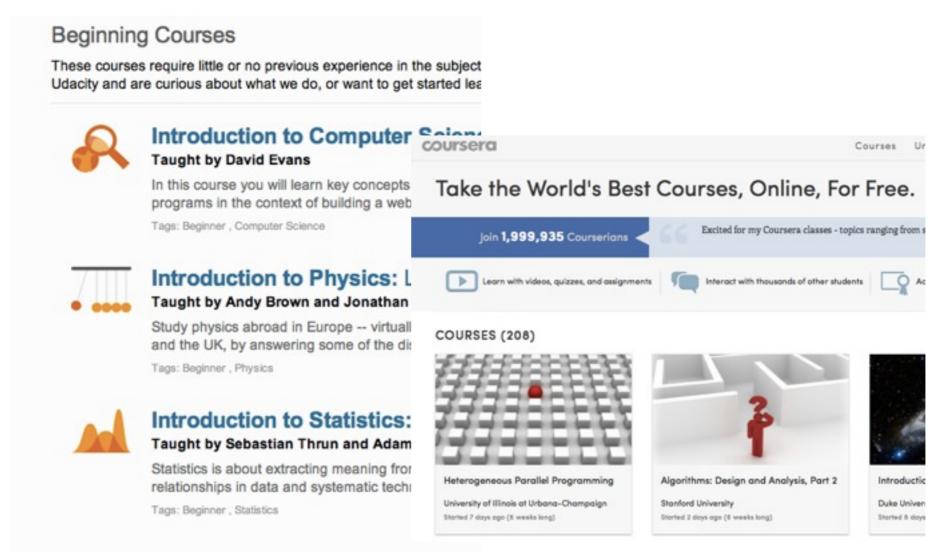
Sfard (1998), Kop 2011

cMOOCs = connectivist MOOCs, based on a connectivist pedagogy that is concerned with engaging in networks, creation as an act of sensemaking, distributed cognition - teaching and learning both embedded in networks that include non-human actors. Built on constructivism, constructionism and distributed cognition.

Very notably lacking in predefined outcomes or any form of formal or even informal assessment (though some have used them to feed into a formal process, typically project or portfolio based). Are they courses without assessment?

xMOOCs

sometimes >100,000 'students'



self-paced -> paced

Coursera, Udacity, EdX

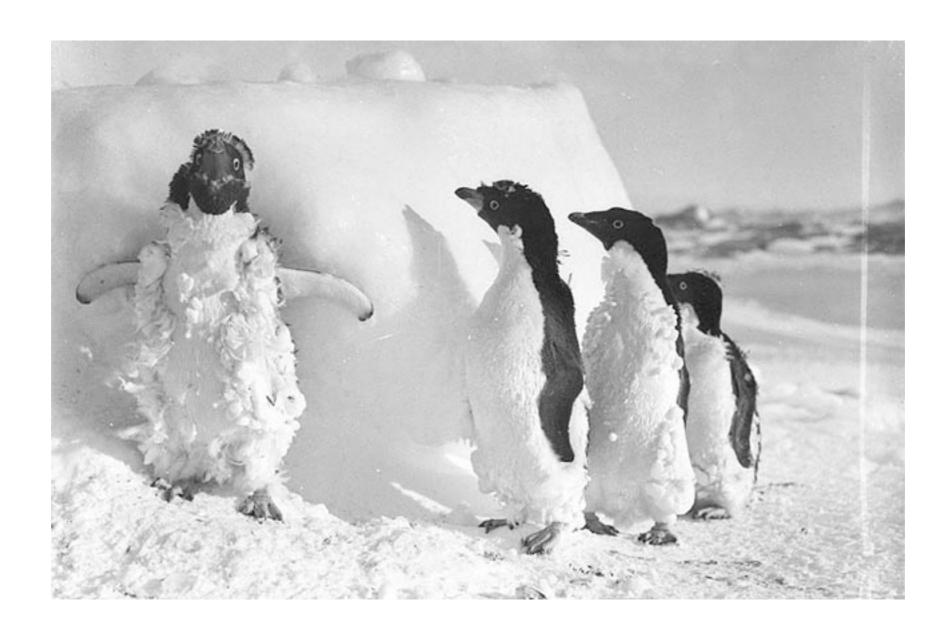
xMOOC methods

- acquisition and replication
- mastery learning
- self-paced or (mostly) paced
- teacher control
- certification (usually for a price)

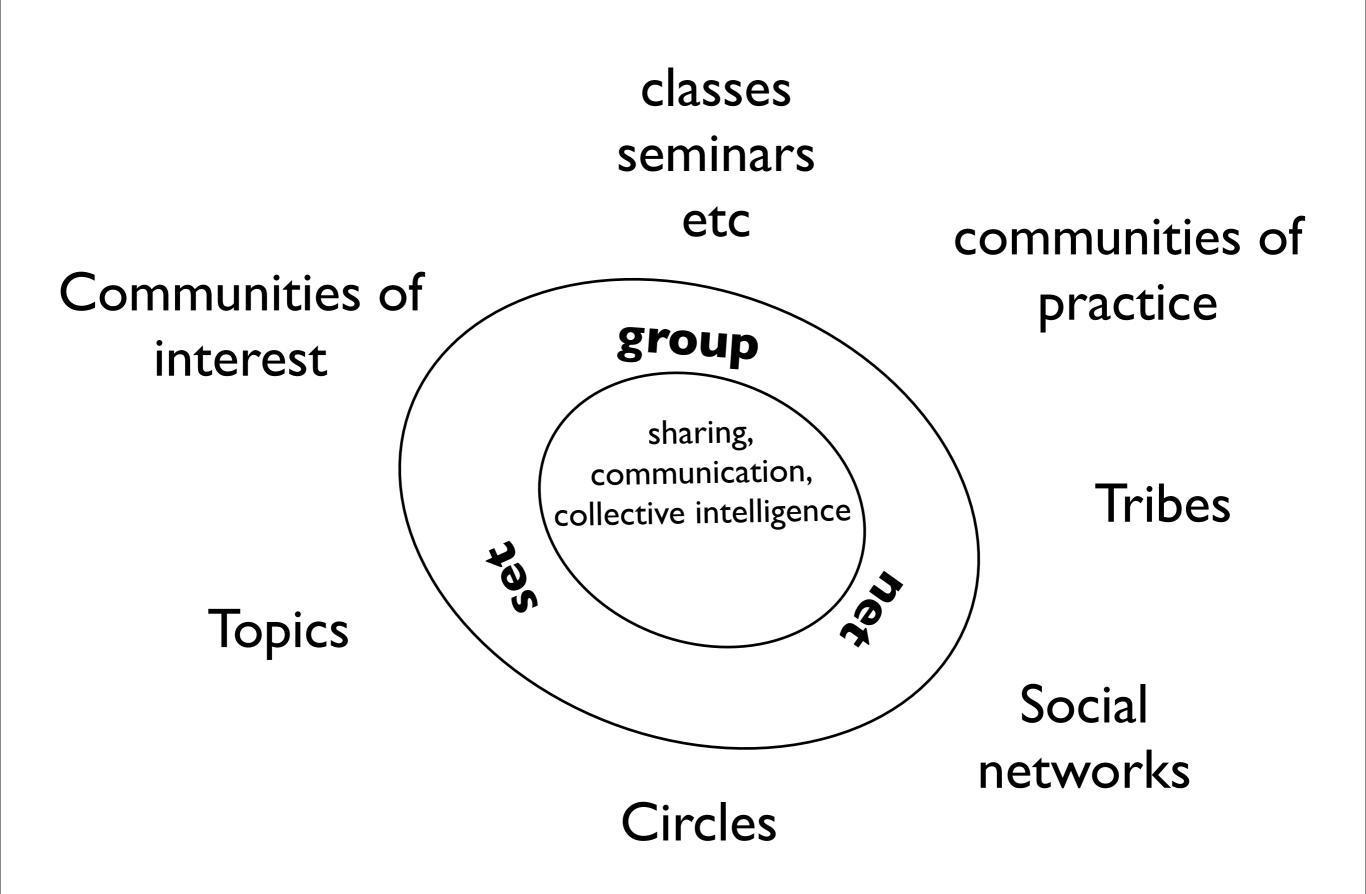


- Udacity, Coursera, EDx
- note there is some diversity in methods but these are notably becoming the norm (driven at least in part by COursera's explicit pedagogical model)

not black and white...



actually, connectivist courses have structure and schedule that include instructivist methods, and instructivist MOOCs have social networks and are incorporated in connectivist learning activities and journeys



MOOCs situated in a context Trad teaching: groups cMOOCs: nets xMOOCs: sets

Players cmoocs

xMOOCs

- Coursera
- Udacity
- edX
- FutureLearn
- Venturelabs
- Open2Learn
- ... and a cast of thousands

- George Siemens
- Dave Cormier
- Stephen Downes
- and a coterie of friends

Assessment

None

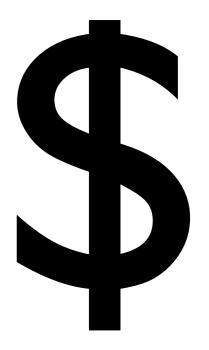
Automated

Peer

note that even when there is no assessment, there is an investment of time in thinking about feedback and formative engagement. For automated and peer assessment, there is a technology cost and often a process cost (e.g. certification)

Monetization

- marketing
- selling student info
- selling certification
- spin-off benefits (eg. textbook sales)
- samplers (the shareware model)
- freemium models (pay for greater attention/ extra features)



Hype

- just a bunch of teachers checking out the competition?
- tired pedagogies?
- nothing new?
- drop-out rates?
- lack of credibility?



curious demographics

MOOCs @ Edinburgh 2013 - Report #1

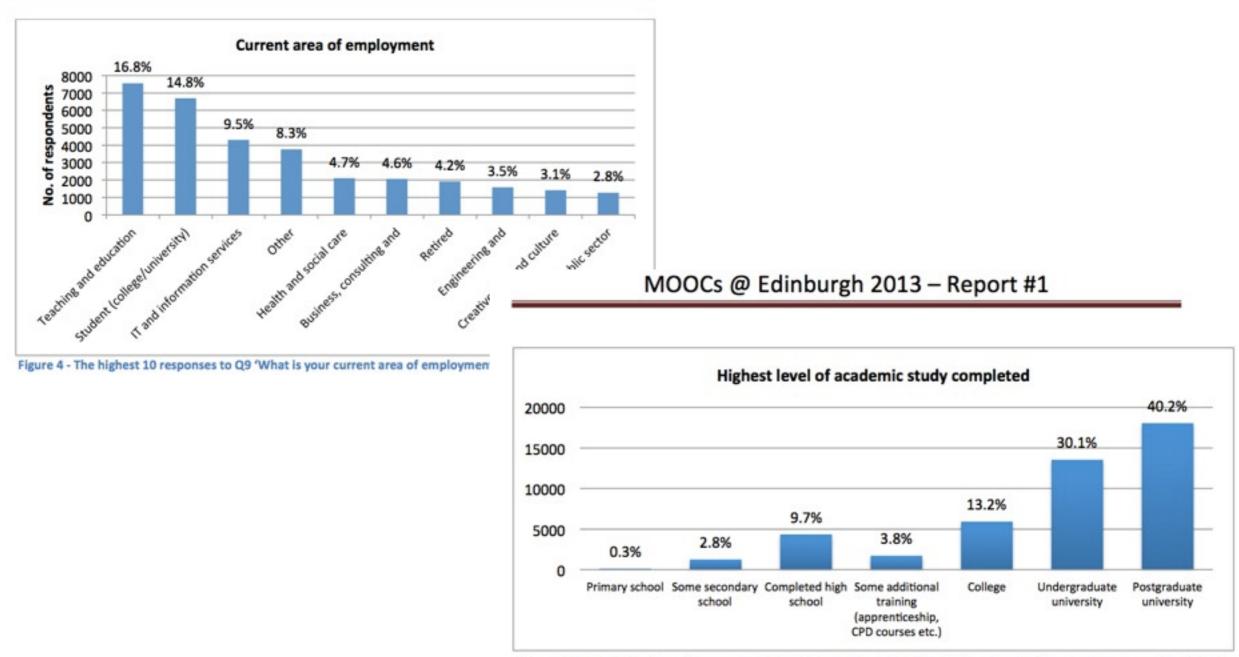


Figure 3 - The distribution of responses to Q10 'What is the highest level of academic study you have completed?' with percentage of total shown

http://www.era.lib.ed.ac.uk/bitstream/1842/6683/1/Edinburgh%20MOOCs%20Report %202013%20%231.pdf - vast majority of participants have at least one degree. and many are from the education sector

early purposes

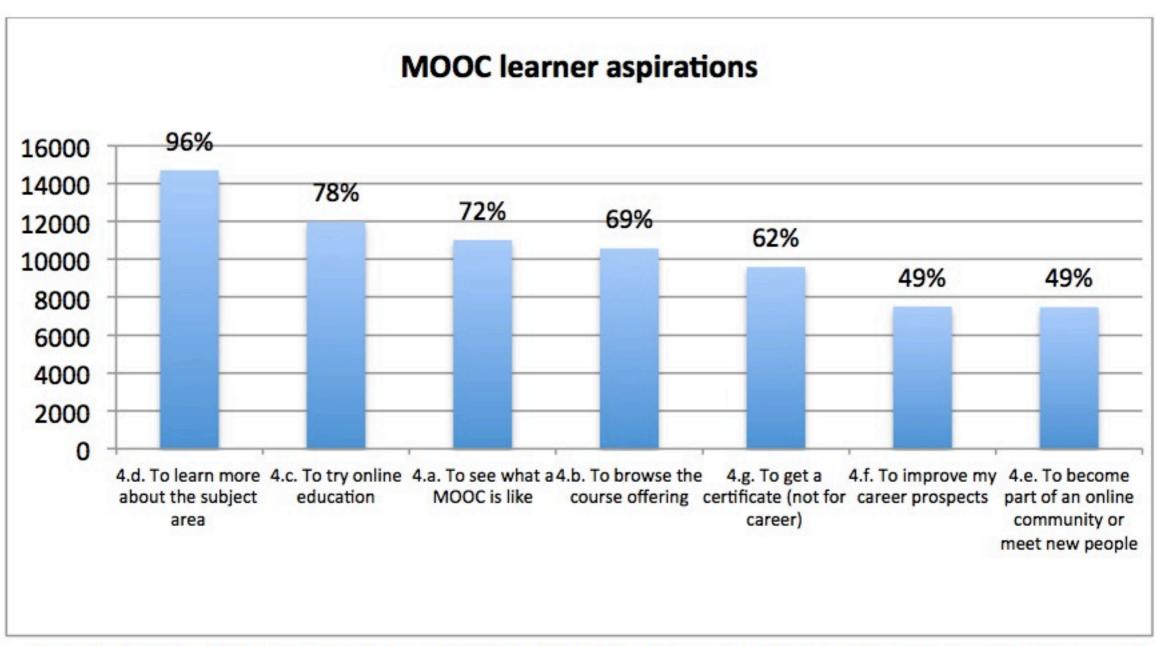


Figure 9 - Combined exit survey responses to Q4 'What did you hope to get out of the course and did it meet your expectations?' – calculated as a sum of exceeded expectations, met expectations, and fell below expectations responses – with percentage shown of total exit survey respondents

http://www.era.lib.ed.ac.uk/bitstream/1842/6683/1/Edinburgh%20MOOCs%20Report%202013%20%231.pdf

Reactions



Benefits?

- EdX goal to improve learning and teaching locally and globally
- Potential value of re-using resources in flipped classrooms
- useful stats
- free education
- opportunities to offer diverse topics
- good for rare courses
- good for people wanting to brush up as well as learn new skills

Fears?

- industrial model: reduction of variety
- cheating?
- competition destruction of ed system?
- poor pedagogical models
- gives elearning a bad name
- profit-mongers
- privacy concerns student as product, not consumer

disruption





Surviving Disruptive Technologies

by Hank C. Lucas



Video Lectures

Discussion Forums

Week 1 Assignments

Video Lectures

Having trouble viewing lectures? Try changi

✓ Week 1 Class 1

1.1 Survivor Model (12:24)

✓ 1.2 Innovators Dilemma (8:22)

are you ready for this? The \$6,600 MSc



Blog Home

TUESDAY, MAY 14, 2013

Sebastian Thrun: Announcing Online Masters Degree in Computer Science in Collaboration with Georgia Tech and AT&T







There are a few moments in my life I will never forget. Like the moment I proposed to my wife, Petra. Or the moment Stanley crossed the finish line in the DARPA Grand Challenge.

Today is one of those moments.

SEARCH THIS BI

SHARE YOUR ST

If you have a story Udacity has impact email social@udac You can also creat testimonial and sha on YouTube. You r yourself featured o

WE ARE UDACIT

Udacity's mission is accessible, engagi

http://blog.udacity.com/2013/05/sebastian-thrun-announcing-online.html

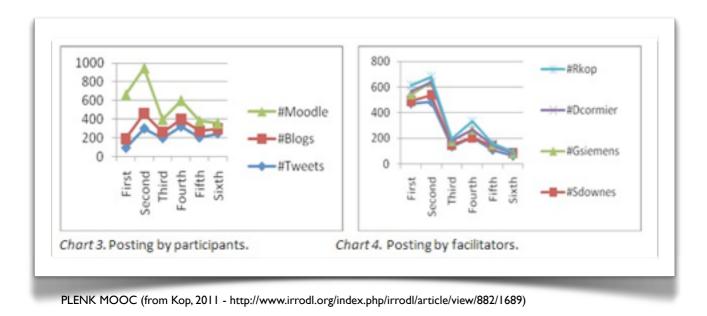
but that is not the real disruption

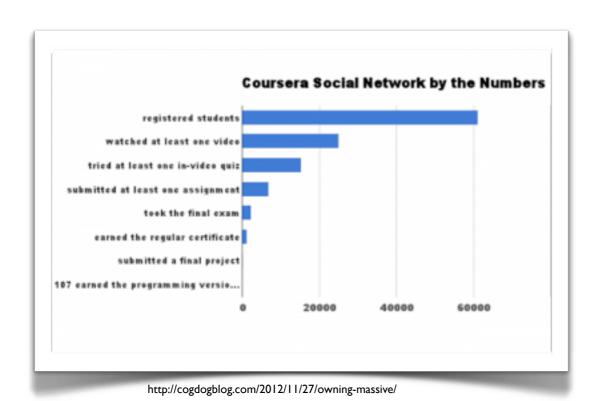
Size is nothing special

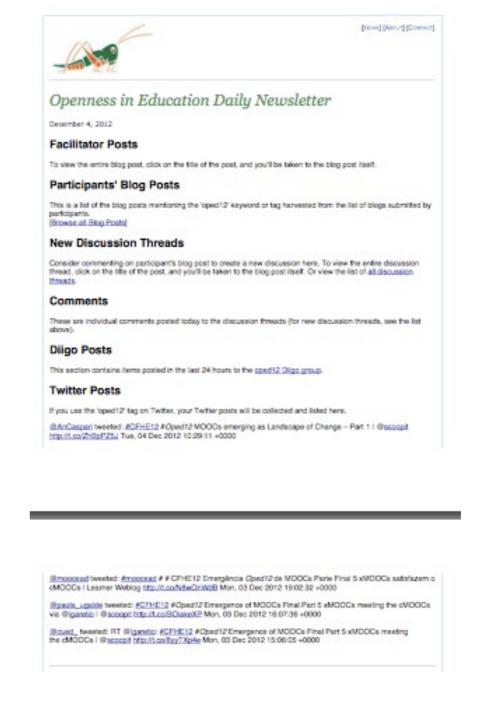
- Massive, open and online: nothing new
 - Open University of China has over 85000 staff and 3.59 million students
 - IGNOU has 3.5 million students
 - Anadolu has nearly 2 million
- The course, however...

massive – wikipedia, google, dwarf the biggest MOOCs. they are not even a rounding error compared with the learning that goes on there. Likewise open. And we have been doing online learning for years, sometimes on a big scale (e.g. Indira Ghandi, Anadolu, Chinese Open Uni are dealing with millions of students. Chinese Open U alone has 85000 staff.

completion rates







Note – PLENK was Moodle based with aggregation by gRSShopper and widespread use of social media like twitter Coursera 'drop-out' around 98%, though highest <90%. Best I have seen is 44% completion (horse feeding). does it matter? not part of a broader system, no coercion, no commitment, easy to join, easier to leave. Is it better that more people have opportunity? what about motivation risks for those that 'fail'? Note that, for those persisting after 2-3 weeks, most persist to the end.

Who fails?

(a)students

OR

(b)teachers

- only a failure from the MOOC provider perspective
- not (necessarily) a failure for students

The real disruption

• Why courses?

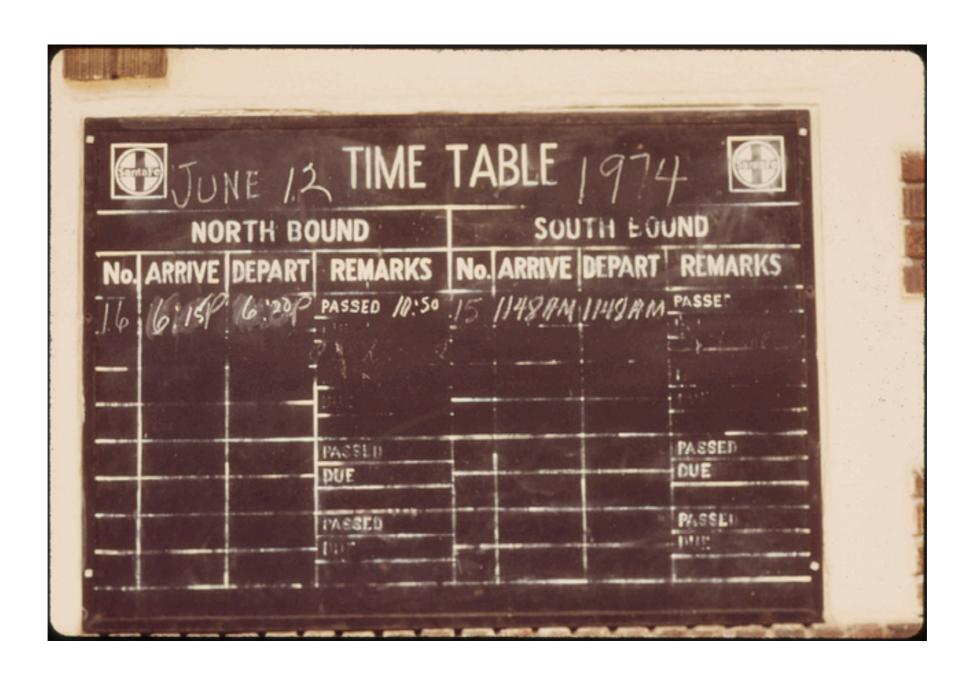


Sure, some things take a while to learn



But really...

• why 13 weeks/15 weeks/10 weeks/etc?



Drivers

religious holidays and summer harvests

• difficulties scheduling rare resources

(books, teachers, rooms)

management of crowds

- credentialing parity
- historical momentum



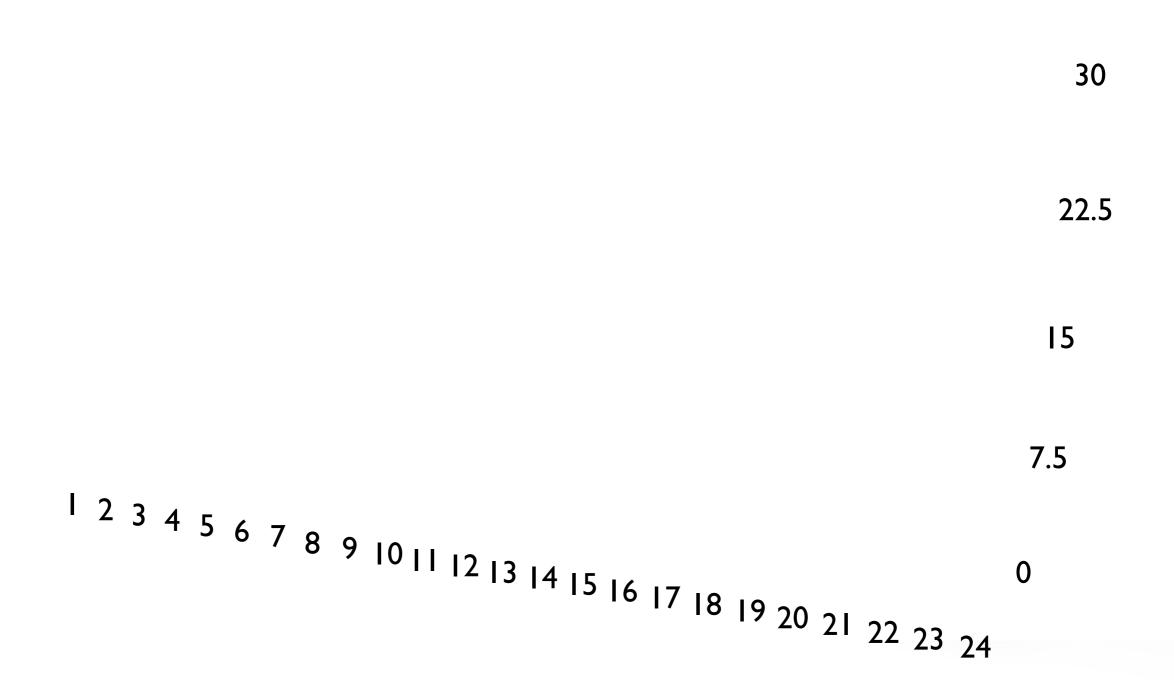
the term is of course the primary driver

not drivers

- pedagogies
- learners
- teachers



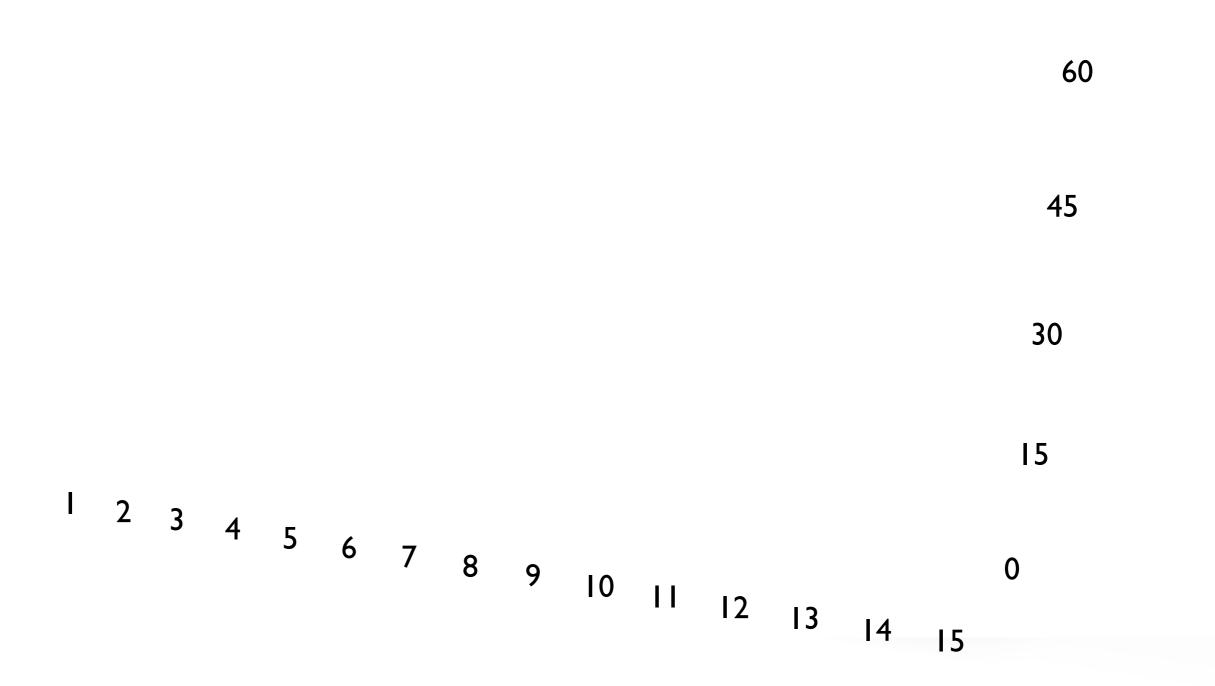
MOOC lengths (past)



note somewhat shorter lengths but still many at 10 weeks or more

figures extracted from http://www.class-central.com

MOOC lengths (starting soon)



note pattern of change, with 6 week and 4 week courses starting to dominate, and soem less than 4 weeks.

Disaggregation of Accreditation

- challenge assessments
- badges
- portfolios



- reputation management (e.g LinkedIn endorsements)
- created networked artefacts



over to you! How might you go about things if you could start witha clean slate?

So, why not a MOPhD?

If a course is such a good idea then why not a program? Why is Georgia/Udacity charging \$6600 for an MSc? What is the value we add?

Other large-scale learning stuff

- Khan Academy (kMOOCs?)
- Q&A sites SlashDot, StackOverflow, etc
- Wikipedia
- Google Search
- OERs



kMOOC methods

- digestible chunks split by formative quizzes
- ad hoc help
- cognitivist methods
- just in time





Free face-to-face

Free University Brighton

education for love not money

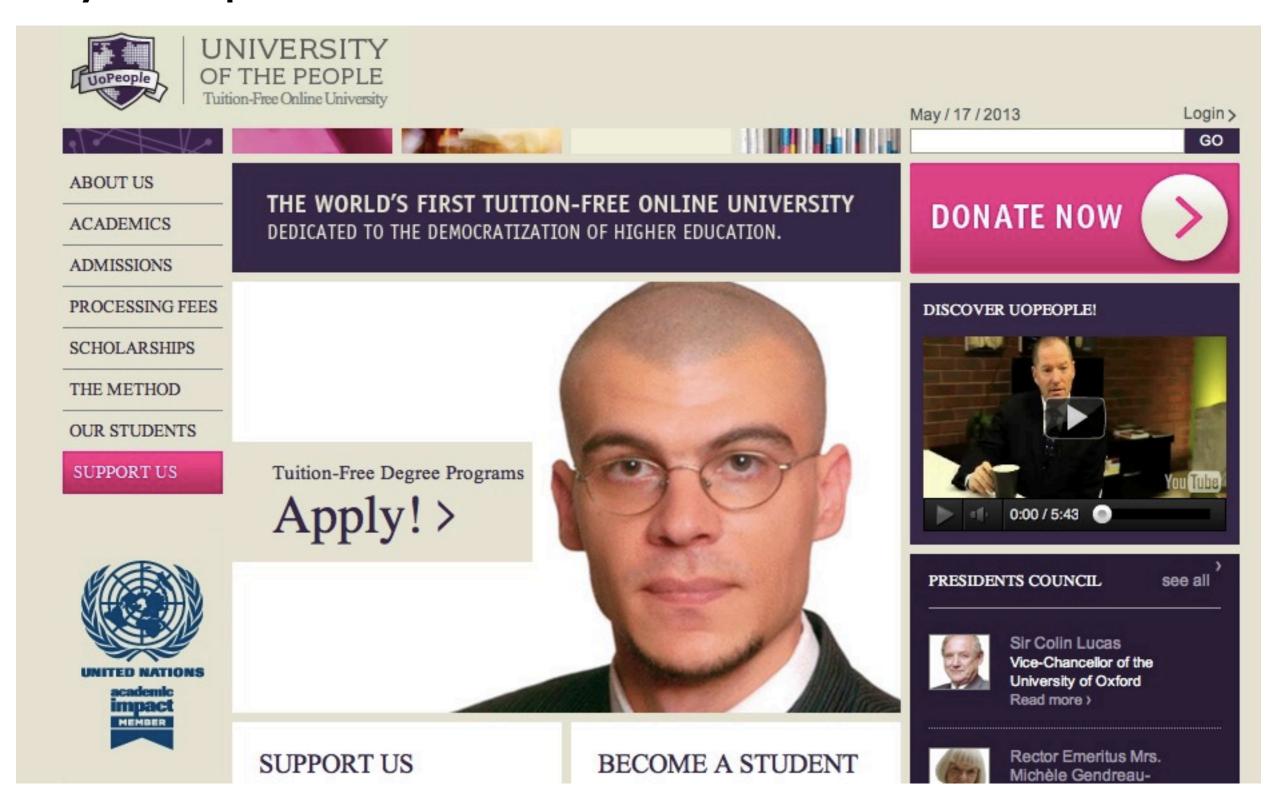




Where will it happen?

Anywhere in Brighton & Hove! Universities and colleges, public libraries, community centres, cafes, unused buildings, even caravans or bandstands! Infact, just about any building or space that people are willing to offer up to others for the love of learning.

Very cheap online



All that is asked is for students to pay a one-time application processing fee (\$50) and subsequent modest examination processing fees (\$100) levied per course. There are no other fees whatsoever.

Your practice

- where next?
- what would you like to do/see/happen?

main takeaways

- MOOCs are evolving fast
- MOOCs will (probably) not supplant traditional teaching: but they challenge us to change it

Thank you

- jond@athabascau.ca
- http://jondron.athabascau.ca
- https://landing.athabascau.ca/profile/jond

Some useful resources

- http://www.youtube.com/watch?v=eW3gMGqcZQc great video from Dave Cormier (who coined the acronym 'MOOC') about cMOOC ideas and methods.
- http://www.class-central.com MOOC aggregator great place to find out what courses are running as well as historical information
- http://www.katyjordan.com/MOOCproject.html great MOOC data collection and aggregation project
- http://edtechfrontier.com/2013/05/11/the-pedagogy-of-moocs/ thoughtful article on the evolution of MOOC pedagogy from cMOOCs to xMOOCs and beyond. Lots of good links and resources.
- http://www.youtube.com/watch?v=r8avYQ5ZqM0 another fine video from Dave Cormier on how to engage with a cMOOC.
- http://www.mooc.ca site maintained mainly by Stephen Downes aggregating news and scholarly articles about MOOCs. A stronger emphasis on cMOOCs than most but still a very useful site.
- http://www.era.lib.ed.ac.uk/bitstream/1842/6683/1/Edinburgh%20MOOCs%20Report
 %202013%20%231.pdf great report from Edinburgh on their pilot MOOCs conducted with Coursera. Many fact and figures as well as experience reports and reflections on the process