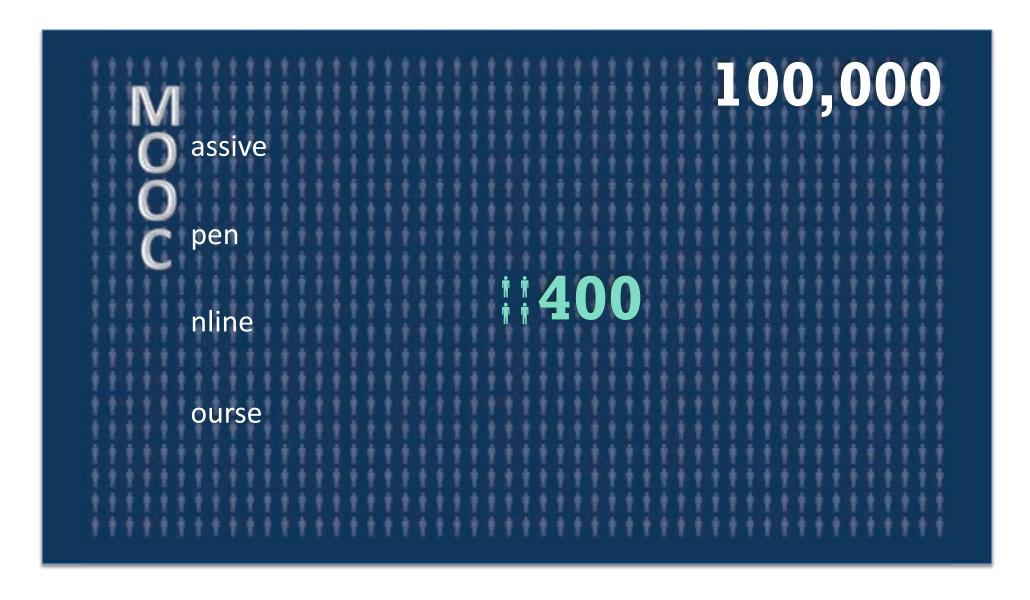
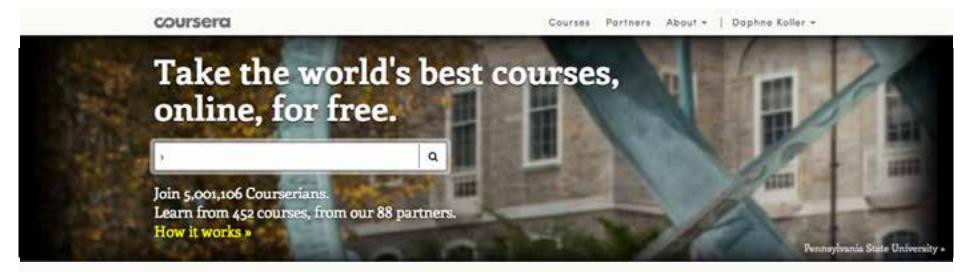


The Online Revolution: Education for Everyone

Daphne Koller
Stanford University & Coursera





STARTING SOON (101)



Human-Computer Interaction
University of California, San Diego , Oct 7th



Securing Digital Democracy University of Michigan, Oct 7th

View courses starting soon »

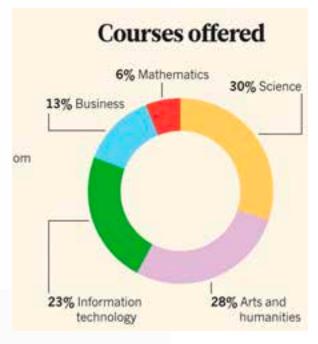


Sustainable Agricultural Land Management University of Florida, Oct 7th



35 of the top 60 universities worldwide, including the #1 or #2 ranked university in 15 countries.





The Humanities, Sciences, Engineering, Business,





I was devastated as I had left my job and was finding out new directions in life. I wanted to go back to academics and could not find a way to do so. One of my friend recommended Coursera and it was like a new life to me. I was thrilled to see so many courses and so many ways of learning. Thanks to Coursera, I got admission into one of the premier schools in my country and I could continue my academics. (Aarti, India)

Two years ago I felt incredibly miserable. I am coming from a traditional family - so I married young and all my life I was either pregnant, breastfeeding or both.

I knew that I am talented, but all I had in life was cleaning, feeding, cleaning, feeding, working part time... I wanted very much to study like my classmates ... but it was very hard to find time. I started and left, started and left. I was deeply depressed. There was a moment ... when I tried to kill myself. But we - humans are very tenacious of life and I survived.

At that time I found Coursera. My first course called the "game theory" expelled the depression and the desire to die once and forever. I feel happy and I enjoy my life and my family much more. In the last two years I have taken about 40 courses (Lam



I grew a lot from answering the longer quizzes and wrestling with the complex essay grading rubrics... you are not only allowing autistic people to learn, but actually diminishing the severity of the illness itself. (Daniel Bergmann, USA)



I took the class on Experimental Genome Science... The course was very, very challenging, I had to do some of the coursework during lunch at work ... There's a different kind of commitment needed in taking online courses. There is a stronger sense of personal integrity required for it... I got into an interview for a job I really desire, and I mentioned that I was taking the Experimental Genome Science course. Now, I have a new job evaluating genomic research proposals. Funny how that works. (Jose, Philippines)

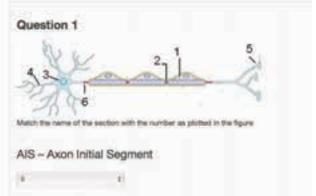
The Student Experience



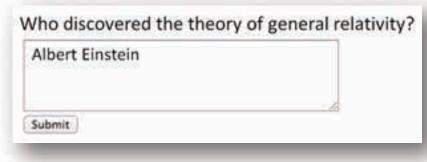
Real Course



Multiple choice



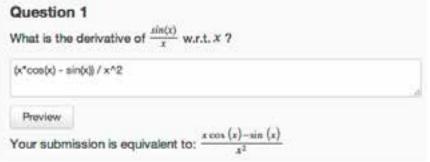
Short answer (regular expression)



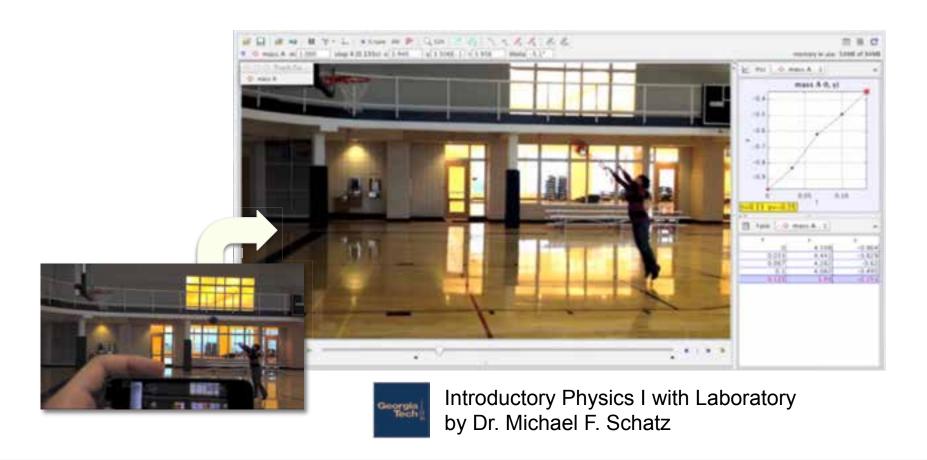
Computer programs



Math expressions



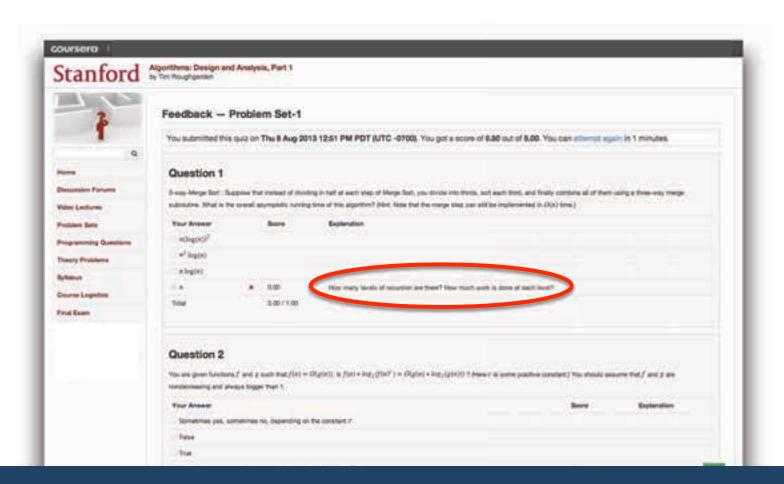
Autograded Homeworks and Exercises



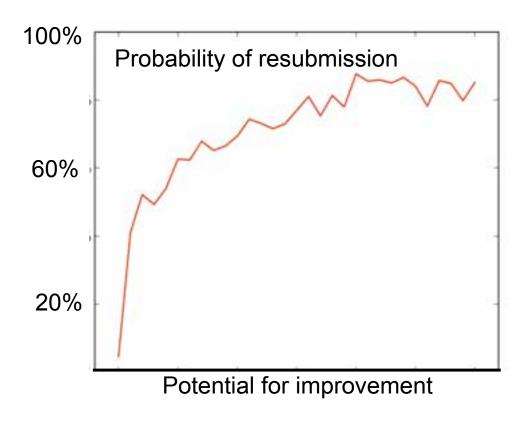
Online Labs



Share and run code in the browser



Instant feedback



Students who engage in mastery-based learning do better on the exam

Self-Induced Mastery



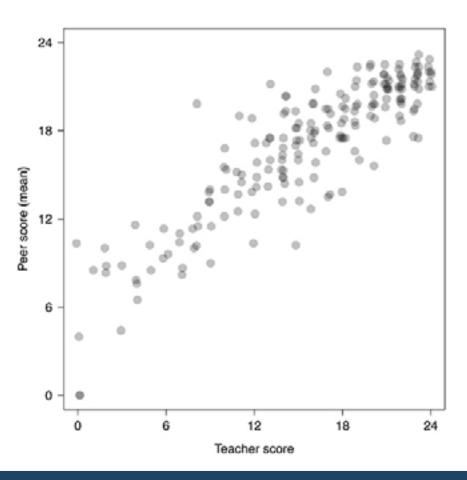


Peer Grading



Mitch Duneier Princeton

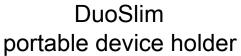
Analysis by: Matthew Salganik & Mitch Duneier Princeton University Sociology Dept.



Peer Grading



LaPtabel laptop table



Neo-WD space-efficient workdesk



Ramaswamy Venkatachalam Gujarat, India

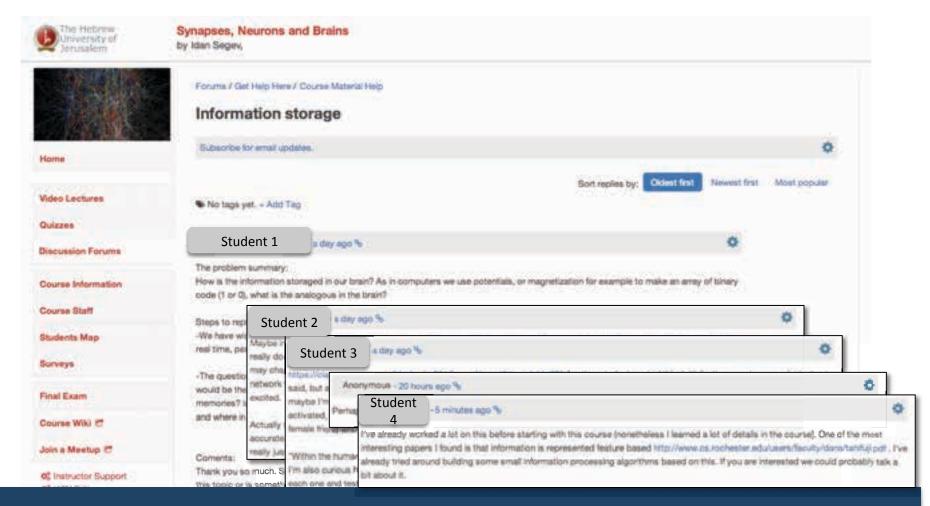


Aranzazu Hurtado Ruiz Madrid, Spain

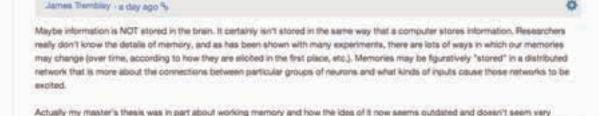


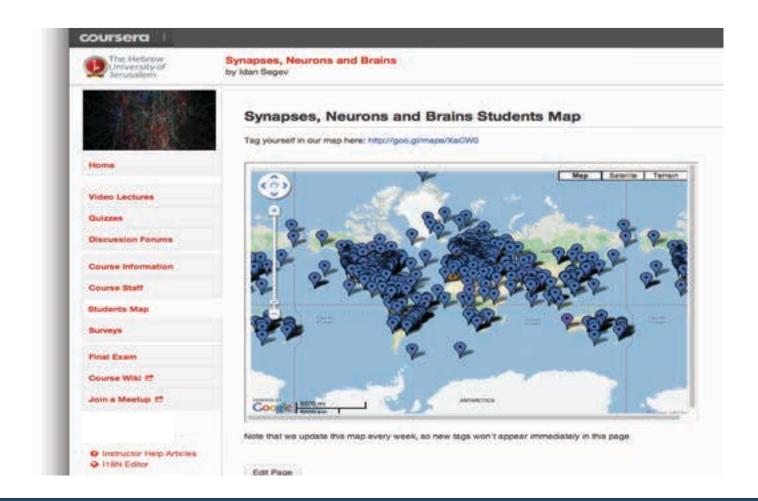
Paul Mendoza Manila, Philippines

From Knowledge to Action



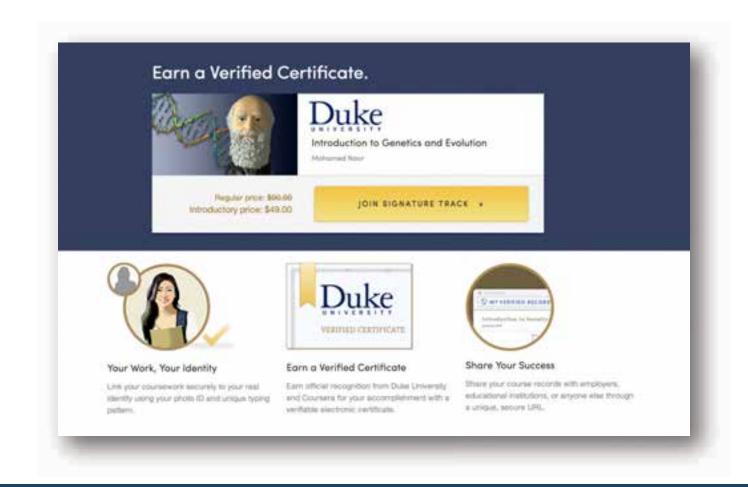
Community



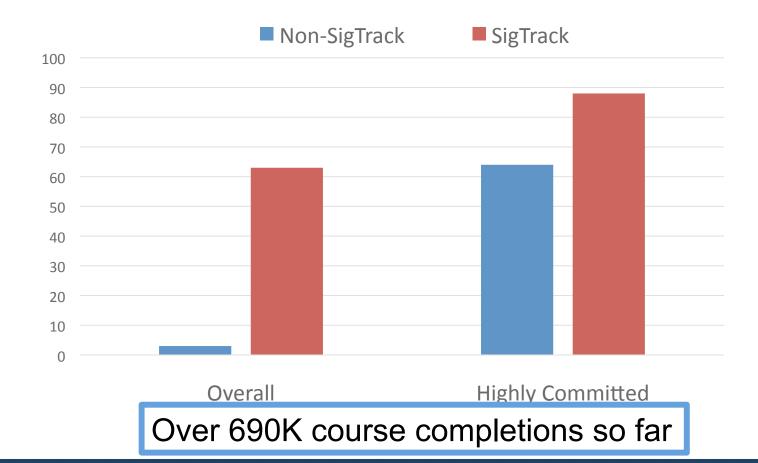


Global community





Signature Track



Signature Track & Retention

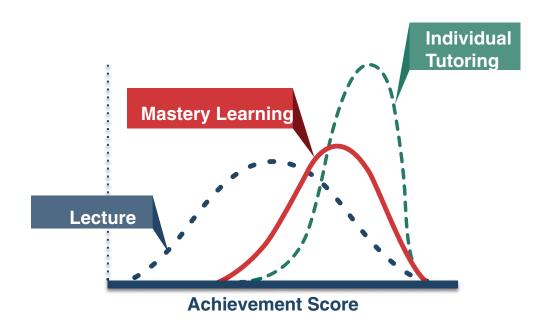
Improving Learning



Wrong student answers

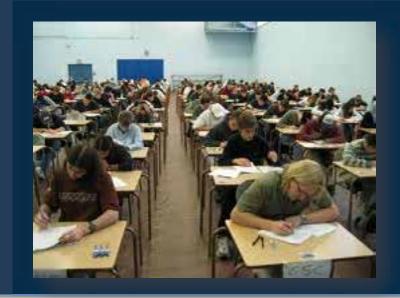
New Window into Human Learning

"The 2 Sigma Problem: The Search for Methods of Group Instruction as Effective as One-to-One Tutoring." *B. Bloom, Educational Researcher* (1984).

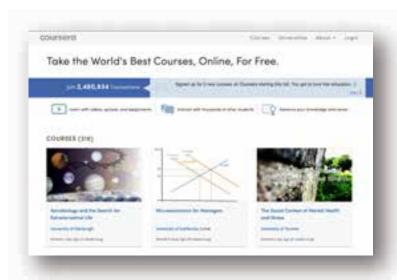


The 2 Sigma Problem

College is a place where a professor's lecture notes go straight to the students' lecture notes, without passing through the brains of either.



—Edwin Emery Slosson



- High-quality online content
- Produced locally or adopted from another institution



- High-touch interaction with local instructor
- Active learning, problem solving, personal attention to students

The Best of Both Worlds

Scott Rixner and Joe Warren, Rice:

"I will never, ever, ever, teach a class any other way as far as I can tell. This is so much better- I had so much more fun teaching and the students learned so much more, I will never get up here and lecture. I just don't see the point anymore. I can do better this way."



Adrienne Williams, UCI:

"This was more fun to teach than a traditional course...students were awake, asking questions, and much more engaged."

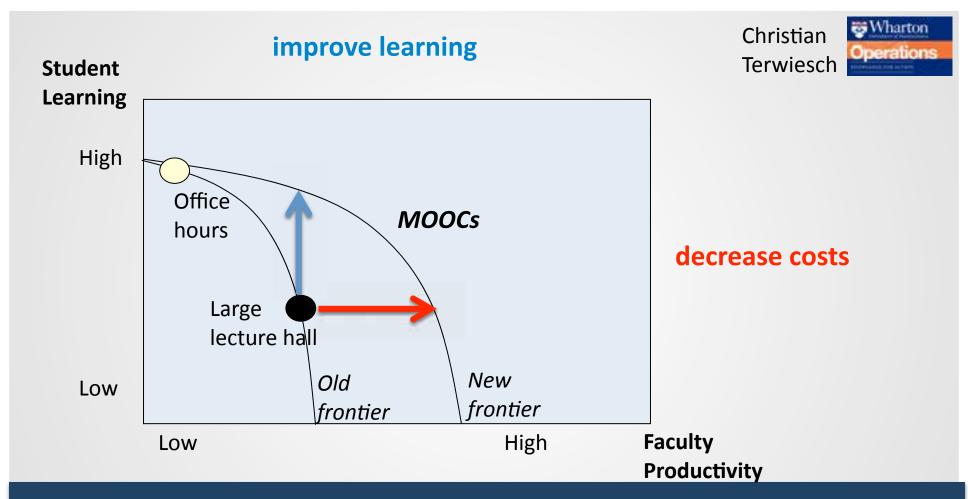


Kristin Sainani, Stanford:

"As the instructor, I definitely preferred engaging in interactive discussions and exercises with the students rather than lecturing at them...my lectures used to take up nearly all the class time and I'd be rushing just to get through them."



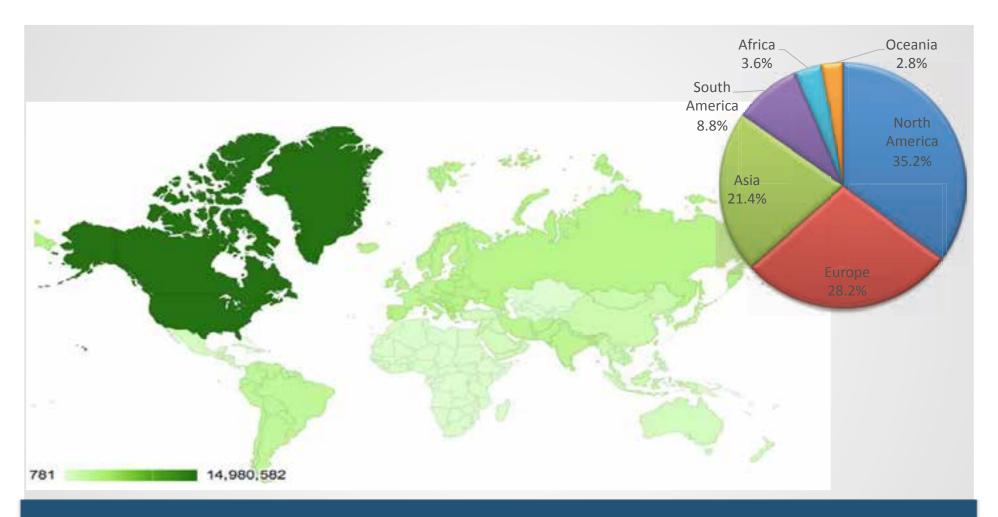
Flipped Classroom Teaching



A New Frontier for Education



Lifelong Learning



Education for Everyone