100,000
Massive
Open
Online
Class
400

62 Universities

Discussion forum

313 courses

Video lectures

2.7 million students

Community

196 countries

1.45 million enrolls/month

Assessments

Stanford
University of Michigan
Penn
University of Pennsylvania
Princeton University
University of Washington
University of Virginia
University of Minnesota
Illinois
University of Illinois at Urbana-Champaign
Wisconsin
University of Wisconsin–Madison
UC Santa Cruz
UCSF
University of California San Francisco
UF University of Florida
Vanderbilt University
UC San Diego
University of Maryland
The Ohio State University
UC Irvine
Icahn School of Medicine at Mount Sinai
Duke University
Northwestern University
Rice
CalArts
Caltech
Johns Hopkins University
University of Colorado Boulder
Brown
Emory University
Georgia Tech
University of Rochester
Berklee college of music
University of Pittsburgh
Columbia University in the City of New York
Curtis Institute of Music
Rutgers
PennState
The University of North Carolina at Chapel Hill
Case Western Reserve University Est. 1826
Wesleyan University

香港中文大學 The Chinese University of Hong Kong

DTU

ie business school

The Hebrew University of Jerusalem

UNIVERSITY OF COPENHAGEN

SAPIENZA UNIVERSITÀ DI ROMA

EPFL ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE

THE UNIVERSITY of EDINBURGH

ÉCOLE POLYTECHNIQUE ParisTech

UNIVERSITY OF TORONTO

National Taiwan University

UAB Universitat Autònoma de Barcelona

THE UNIVERSITY OF MELBOURNE

UBC a place of mind THE UNIVERSITY OF BRITISH COLUMBIA

THE UNIVERSITY OF TOKYO

TUM Technische Universität München

UNIVERSITY OF LONDON INTERNATIONAL PROGRAMMES

UNAM Universidad Nacional Autónoma de México

UNIVERSITÉ DE GENÈVE

NUS National University of Singapore

香港科技大學 THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

Universiteit Leiden

TECNOLÓGICO DE MONTERREY

LMU LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN

UNIVERSITY OF MARYLAND, COLLEGE PARK

E-learning and Digital Cultures

Jeremy Knox, Sian Bayne, Hamish Macleod, Jen Ross, Christine Sinclair

UNIVERSITY OF EDINBURGH

Jan 28th 2013
5 weeks long

Introduction to Philosophy

Dave Ward, Duncan Pritchard, Michela Massimi, Suilin Lavelle, Matthew Chrisman, Allan Hazlett, Alasdair Richmond

UNIVERSITY OF EDINBURGH

Jan 28th 2013
7 weeks long

The Social Context of Mental Health and Illness

Charmaine Williams

UNIVERSITY OF TORONTO

Jan 28th 2013
6 weeks long

Critical Thinking in Global Challenges

Celine Caquineau, Mayank Dutia

UNIVERSITY OF EDINBURGH

Jan 28th 2013
5 weeks long

Introduction to Computer Networks

Arvind Krishnamurthy, David Wetherall, John Zahorjan

UNIVERSITY OF WASHINGTON

Jan 28th 2013
10 weeks long

Grow to Greatness: Smart Growth for Private Businesses, Part I

Edward D. Hess

Jan 28th 2013
5 weeks long

The Humanities, Sciences, Engineering, Business, ….

Multiple choice

Which of these is a reasonable definition of machine learning?

- Machine learning is the science of programming computers.
- Machine learning is the field of allowing robots to act intelligently.
- Machine learning is the field of study that gives computers the ability to learn without being explicitly programmed.
- Machine learning means from labeled data.

Short answer (regular expression)

Who discovered the theory of general relativity?

Albert Einstein

Submit

Math expressions

Question 1

What is the derivative of $\frac{sin(x)}{x}$ w.r.t. x ?

(x*cos(x) - sin(x)) / x^2

Preview

Your submission is equivalent to: $\frac{x\cos(x) - \sin(x)}{x^2}$

Autograded Homeworks and Exercises

Structured data

	A	B	C	D
1		2012	2013	2014
2	Units sold	20,000	30,000	35,000
3	Revenue	400,000	600,000	700,000
4	COGS	100,000	150,000	175,000
5	Ad spend	30,000	40,000	40,000
6				
7	**Distributor model**			
8	Sales People	1	2	5
9	Dist. per sales person	3	5	8

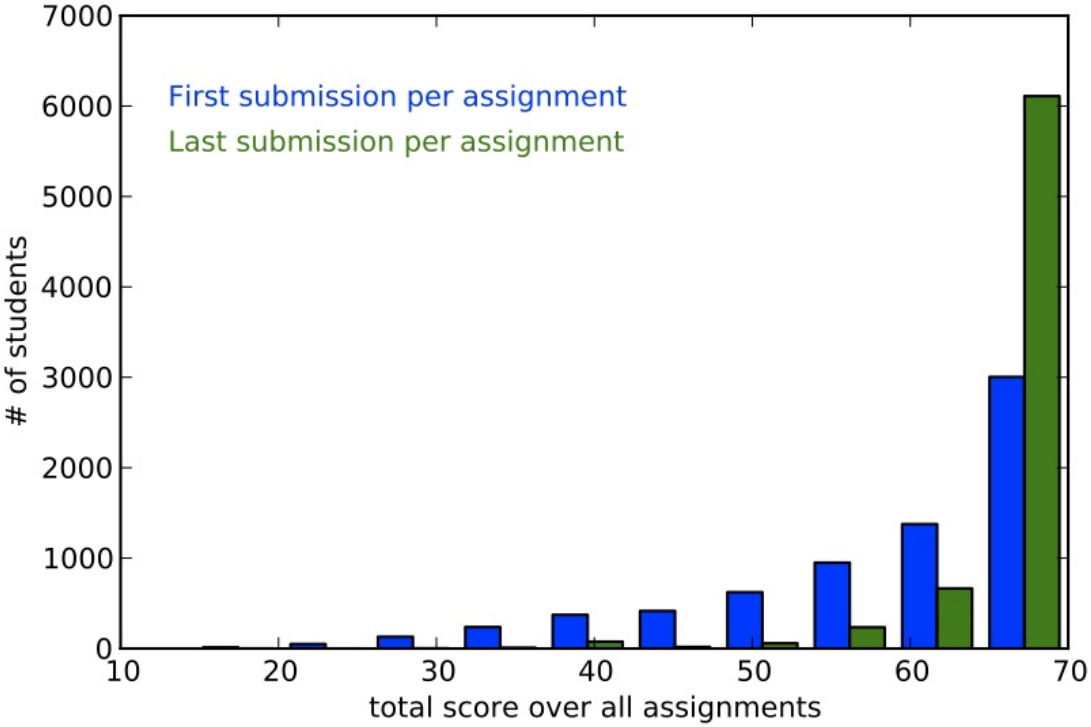
Computer programs

```
image = new SimpleImage("puzzle-copper.png");

for (pixel: image) {
  // your code here
  pixel.setRed(0);
  pixel.setGreen(pixel.getGreen() * 10);

  pixel.setBlue(pixel.getBlue() * 10);

}

print(image);
```

Run

Autograded Homeworks and Exercises

Martin Odersky
EPFL

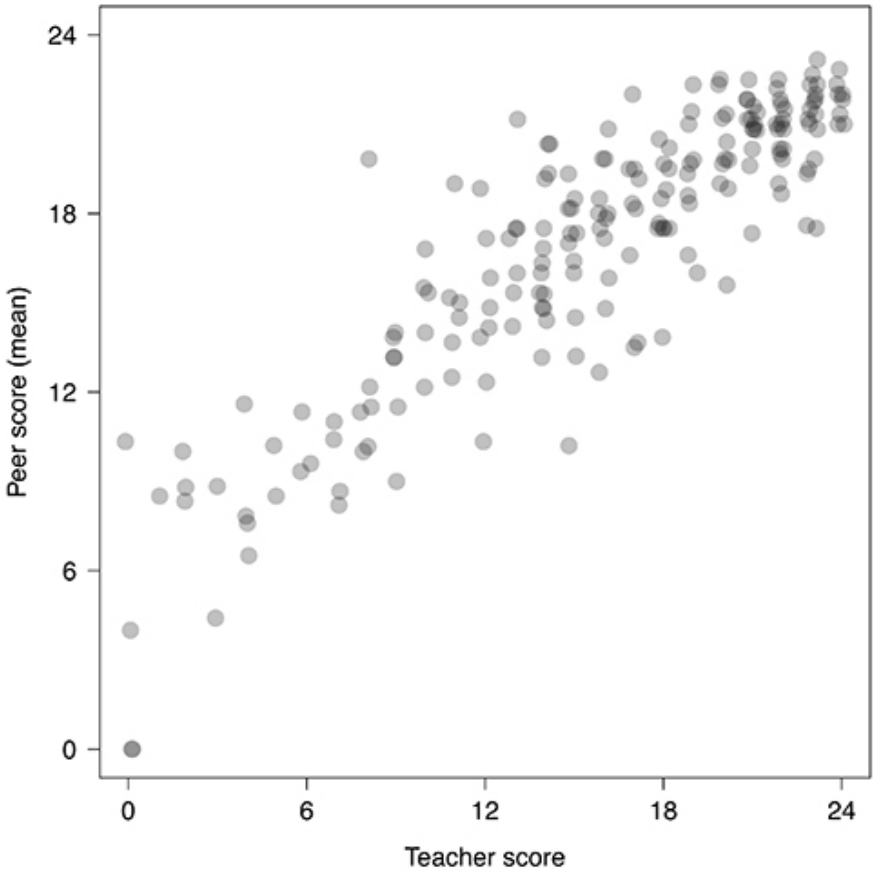


For students of similar current performance, mastery-based score improvements correlate with future performance

Mastery

Mitch Duneier
Princeton

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



Peer Grading Accuracy (Soc101, Princeton)

Karl Ulrich
Wharton, UPenn

LaPtabel
laptop table

Ramaswamy Venkatachalam
Gujarat, India

DuoSlim
portable device holder

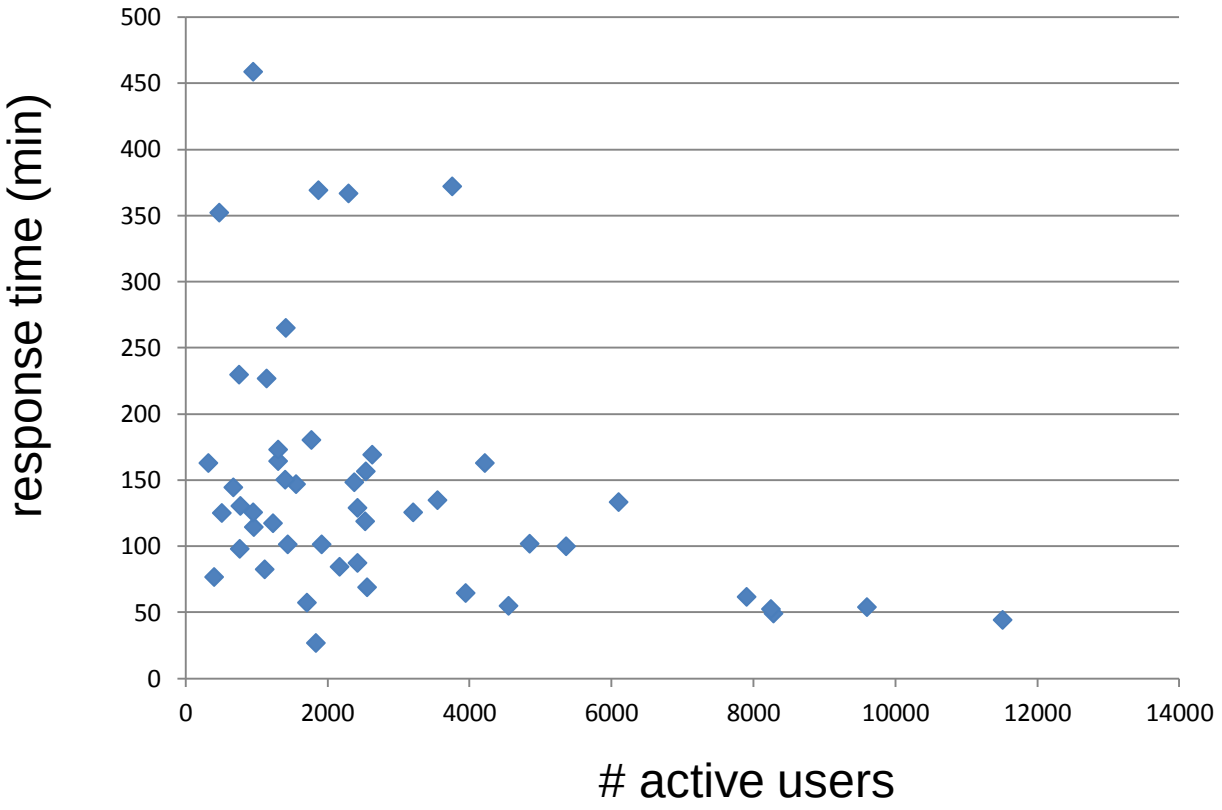
Aranzazu Hurtado Ruiz
Madrid, Spain

Neo-WD
space-efficient workdesk

Paul Mendoza
Manila, Philippines

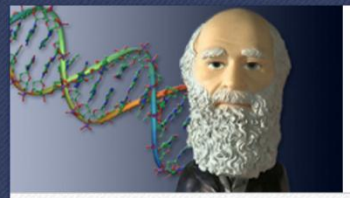
Creative, open-ended assignments via peer grading

Fellow students on these forums really gave the sense that I wasn't just sitting in my office working on it by myself. The spirit of cooperation and information sharing has been far more than any “non-virtual” course I ever took. *(Sanjaya Kumar)*



Peer Teaching in the Large

Earn a Verified Certificate.



Duke UNIVERSITY

Introduction to Genetics and Evolution

Mohamed Noor

Regular price: ~~$90.00~~
Introductory price: $49.00

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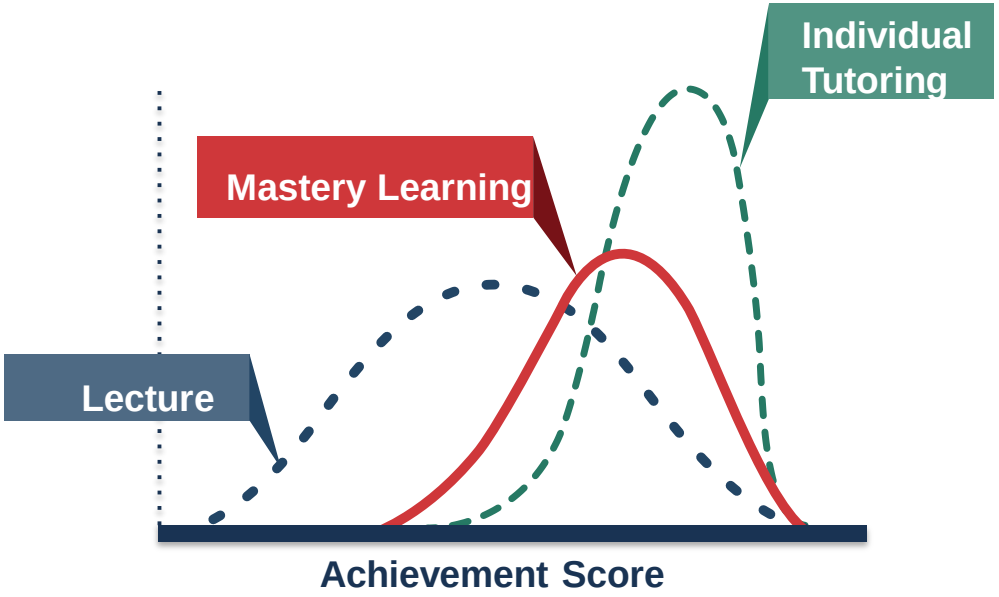
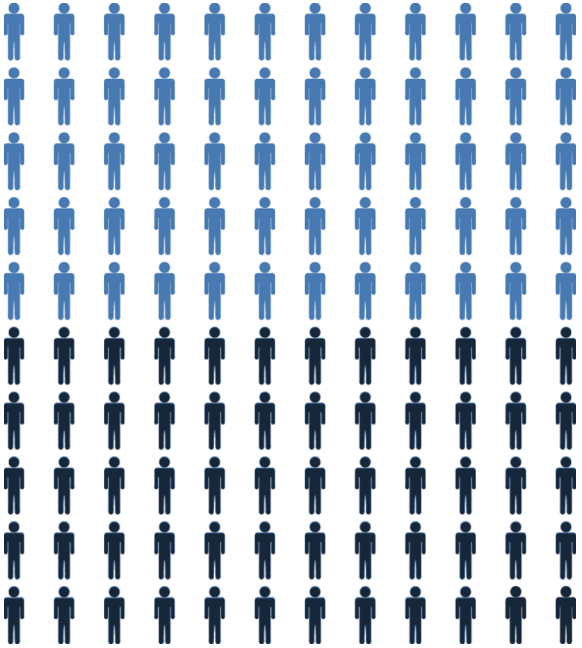
Signature Track Courses

Digital webcam proctoring

ACE CREDIT Assessment (review underway)

"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

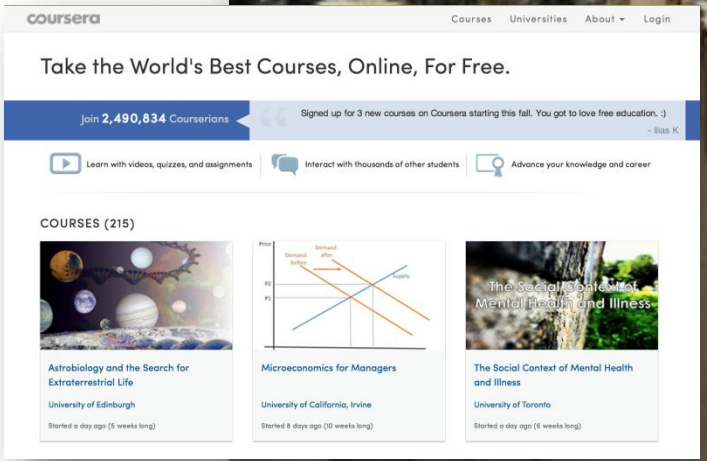
College is a place where a professor’s lecture notes go straight to the students’ lecture notes, without passing through the brains of either.

—Edwin Emery Slosson

The mind is not a vessel that needs filling, but wood that needs igniting.

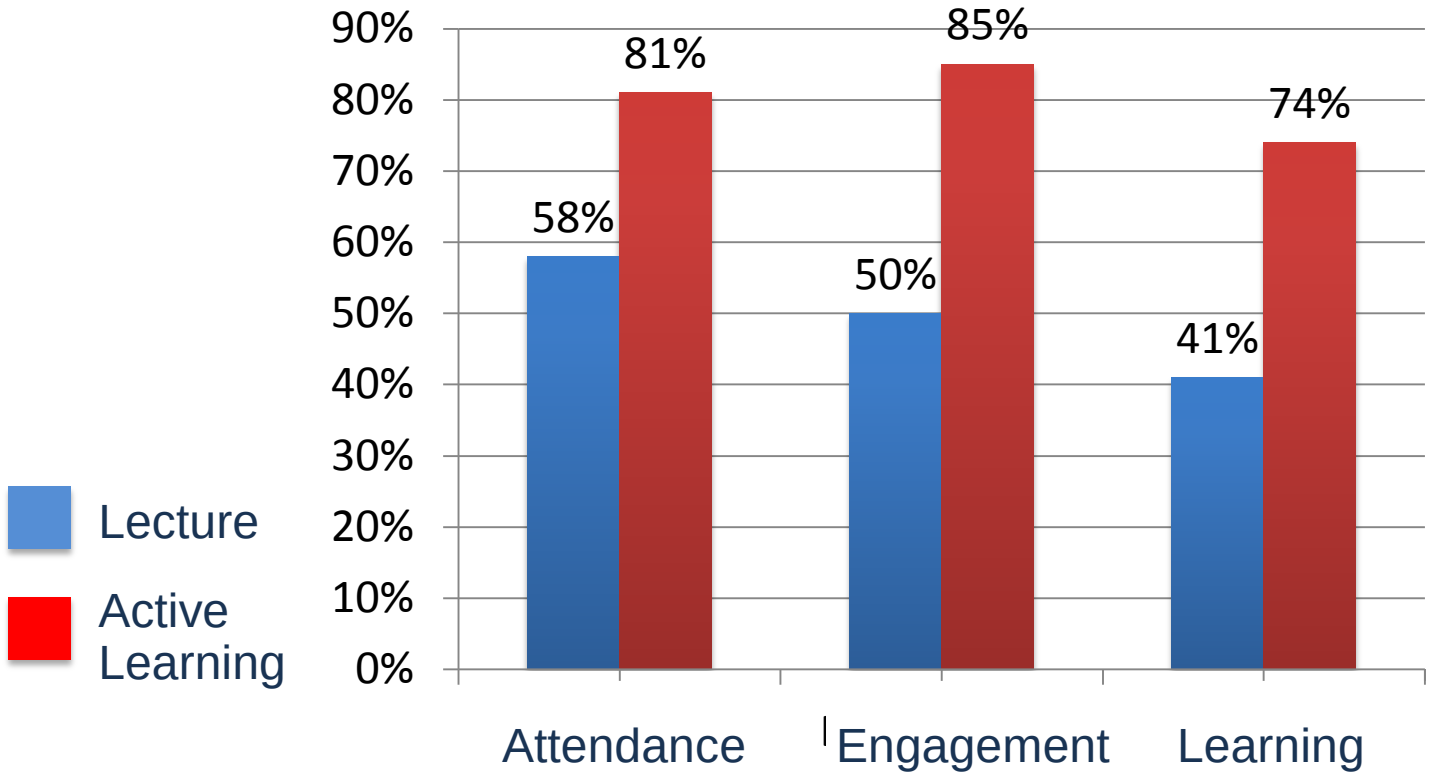
—Plutarch

from Ian Kidd's translation of Essays



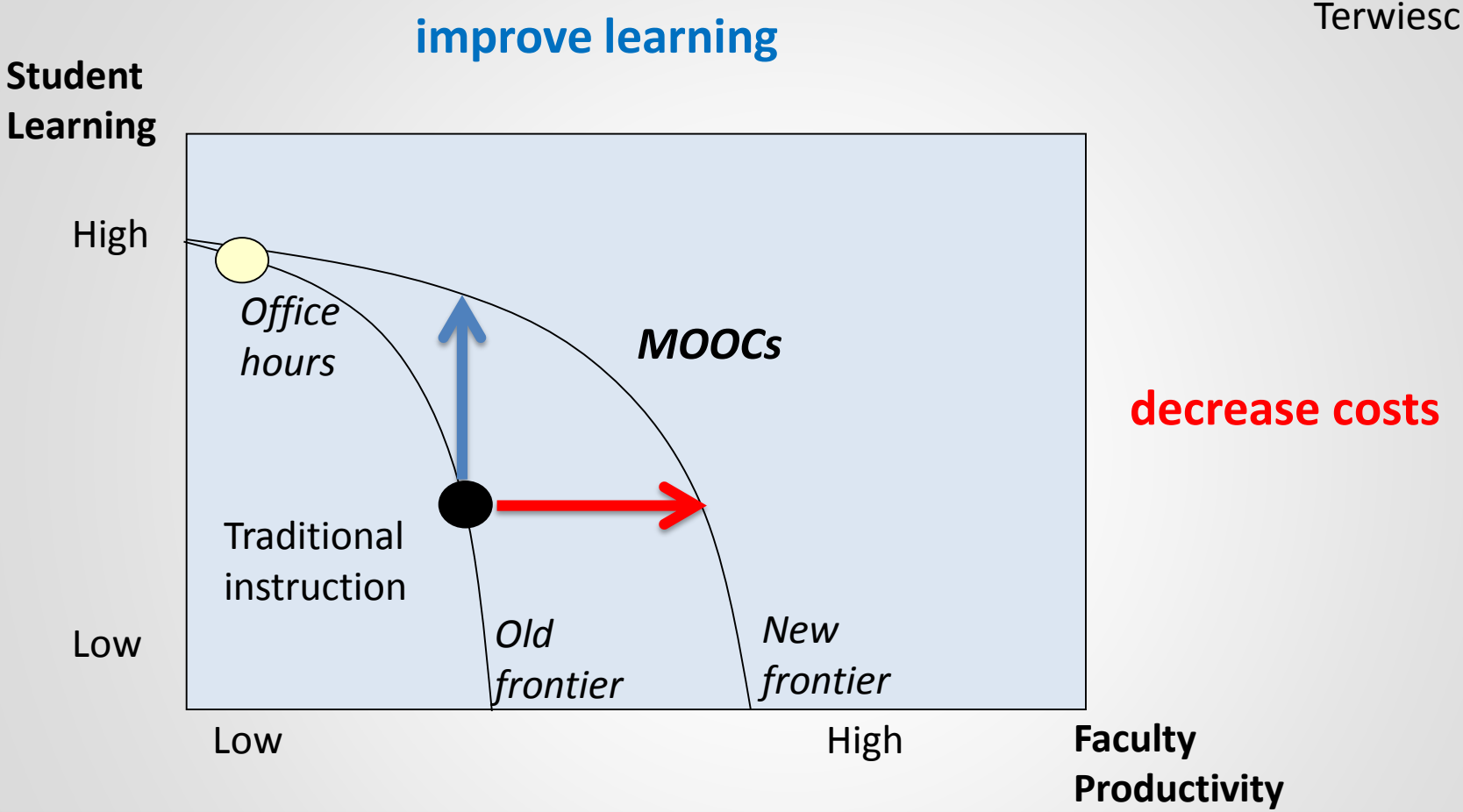
Blended Learning

"Improved Learning in a Large-Enrollment Physics Class."
L. Deslauriers, E. Schelew, and C. Wieman. *Science* (2011).



Active Learning in the Classroom

Terwiesch, 2012



A New Frontier for Education