

THE ONLINE EDUCATION REVOLUTION

WHAT IS A MOOC?

Massive



A lot of students. These online classes are not capped – the popular classes have nearly 200,000 enrolled.

Open



These are free classes. Students from all over the world participate in MOOCs.

Online



MOOCs are completely on the web. However many students, especially in cities, opt to create local study groups.

Courses



These are full courses, not only online video lectures but also interactive quizzes, discussion forums and graded.

FOOD PRICES
↑ 244%

MEDICAL COSTS
↑ 601%

COLLEGE TUITION
↑ 1,120%



THE BIG THREE

coursera

REGISTERED USERS:
2.8 MILLION

FUNDING:
\$22 MILLION

COURSES:
220

UNIVERSITIES:
62

UDACITY

REGISTERED USERS:
400,000

FUNDING:
\$21.5 MILLION

COURSES:
22

UNIVERSITIES:
0

edX

REGISTERED USERS:
700,000

FUNDING:
\$60 MILLION

COURSES:
25

UNIVERSITIES:
12

With a public four year in-state degree costing around \$90,000 on average it's easy to see why people are looking for alternatives.

EDUCATION + BIG DATA



What type of learner is this student?



What sequence of topics are effective for a certain type of student?



Which student actions are associated with better learning?



What actions indicate satisfaction and engagement?

Since the first mooc in 2008, this phenomenon has been spreading across many of the top colleges all over the world.



Teachers, administrators and developers jump in when necessary



Students receive individualized material for their performance level and interests



A student participates in a massive open online



Data about the student's performance is collected and stored



The data is analyzed. Predictions are made about how to improve student's performance



These predictions are reflected by the content used by the learning system