



# Professor Chris Terman

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## Topic 1: Lessons Learned (so far) at edX

edX was founded by MIT and Harvard in 2012 to pursue three missions: expand access to education for everyone, enhance teaching and learning on campus and online, and advance teaching and learning through research. We've learned some interesting lessons while bringing up 300 courses from 57 partners that have reached over 3MM students. This talk describes our current recommendations for best practices for faculty building an online learning experience and for universities developing their online strategy.



## Topic 2: Current Research in Educational Technologies at MIT CSAIL

This talk will describe three research projects focused on educational technologies as part of MIT CSAIL/Quanta Computer Qmulus Project:

- \* Pentimento -- novel software for authoring content using a stylus and tablet, supporting independent non-linear editing of stroke and audio content while maintaining the important timing relationships between the two.
- \* HLT meets MOOC -- Human language is the predominant means for teaching and learning. Human language technologies can help in locating content across many courses, texts, forum posts, etc. so that students with widely-varying backgrounds can build customized learning paths.
- \* Online Education with "Learnersourcing" -- asking simple questions of students who are working with online learning material can be used to make those materials more effective for future students. Experiments include indexing how-to videos, crowd-sourcing reviews of student programming assignments, and mining submitted solutions to supply hints for future students.

## About the speaker:

Chris has four decades of experience as a teacher, researcher, courseware developer and entrepreneur. At edX, Chris is responsible for providing pedagogical expertise in the development and delivery of learning materials and conducting faculty relations. He is an award winning educator in the MIT Dept. of EECS, teaching courses in computer architecture, communications systems, and VLSI design. His research interests include portable compilers, computer architecture, computer-aided design tools and, currently, educational technologies. Chris served as the research director of the \$45MM, 10-year MIT/Quanta Computer Qmulus project, which focuses on educational technologies, mobile and cloud technologies, human-computer interaction and the use of computers in to improve health. He was a co-founder of several firms, including Symbolics Inc. (manufacturer of Lisp Machines), TLW Inc. (VLSI designs for communications and multimedia), and Curl Co. (software technology for the Web). Chris holds a B.A. in physics from Wesleyan University, and S.M. and Ph.D. degrees in computer science and engineering from MIT.

**Date:** 24 October 2014 (Friday)

**Time:** 2:00 p.m. – 3:00 p.m.

**Venue:** Room 222, Ho Sin-Hang Engineering Building, CUHK

**\*\* ALL ARE WELCOME \*\***

