Lessons from a Basement Studio:

The Power of the Online World

03

Barbara Oakley, PhD, PE

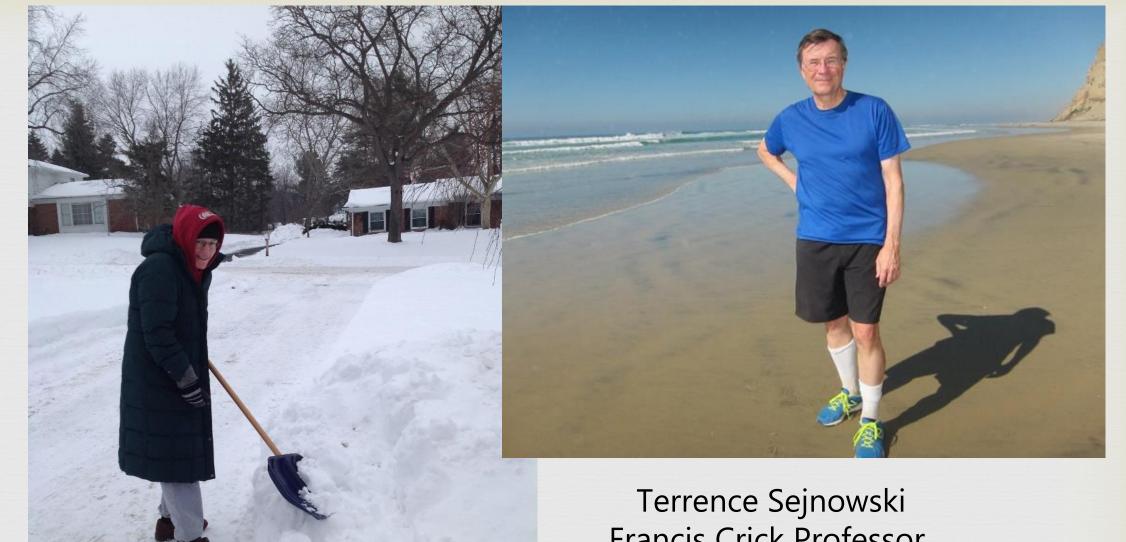
Professor of Engineering, Oakland University, Rochester, Michigan Ramón y Cajal Distinguished Scholar of Global Digital Learning, McMaster University







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Leading through learning

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Workshop with Barbara Oakley

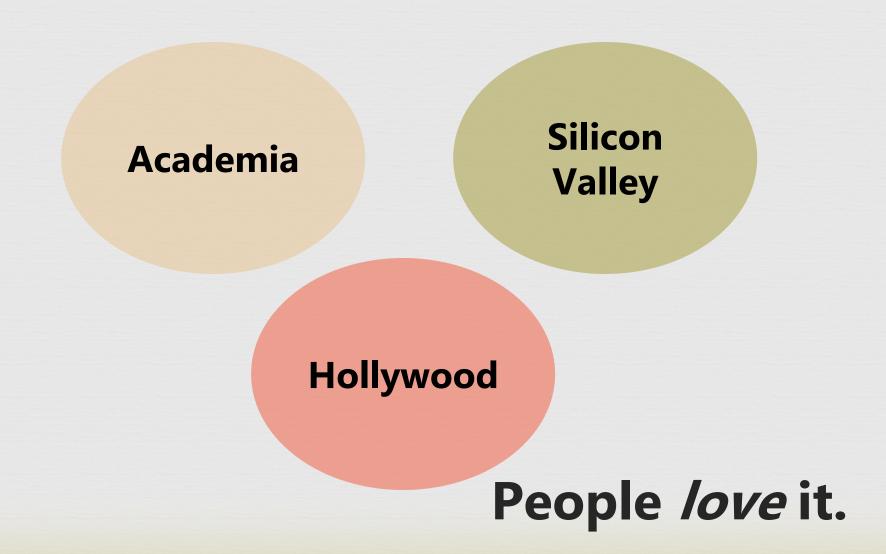
Date: Thursday, May 7, 2015, 10:00am to 11:00am

LESSONS FROM A BASEMENT STUDIO—

HOW TO MAKE A RIVETING ONLINE CLASS

This talk describes the key elements behind the making of high quality educational videos for online learning, including scripting, filming, and editing.

Online is highly competitive





Impact

Little ability to reach the public.

A nonfiction book

$a \left(\frac{\text{MIND}}{\text{for}} \right) = \\ \text{NUMBERS}$



HOW TO EXCEL AT MATH AND SCIENCE

(Even If You Flunked Algebra)

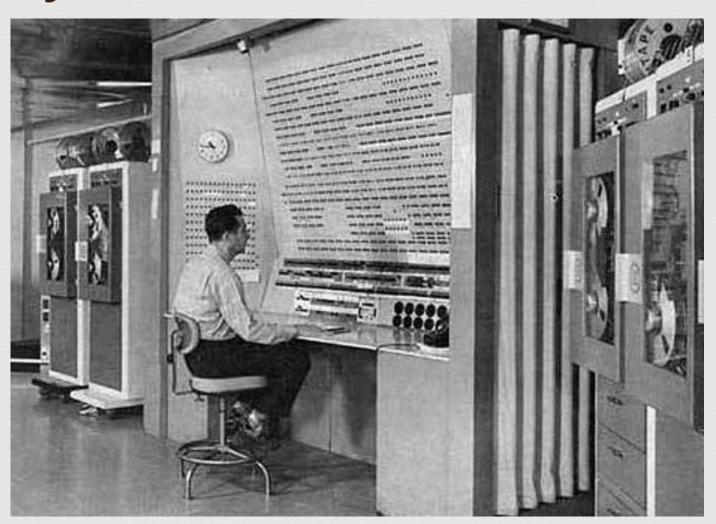
BARBARA OAKLEY, Ph.D.



Barb Oakley with *Science Friday*'s Ira Flatow (1.3 million weekly listeners) and the *New York Times*' Ben Carey



Most universities have not yet decoded MOOCs





MIT Open Courseware

Death by bullets

early HIV testing in the military

- In first screen with ELISA
- if positive, two more rounds of ELISA
- if either positive, two Western blot assays
- only if both positive, determine HIV infection



Let's put in a picture!

The cell wall of plant cells are composed from fibers of alpha glucose known as cellulose

Hydrophobic cellulose fibers



"Bookcase background syndrome"







"Caged" versus "Free Range" learners



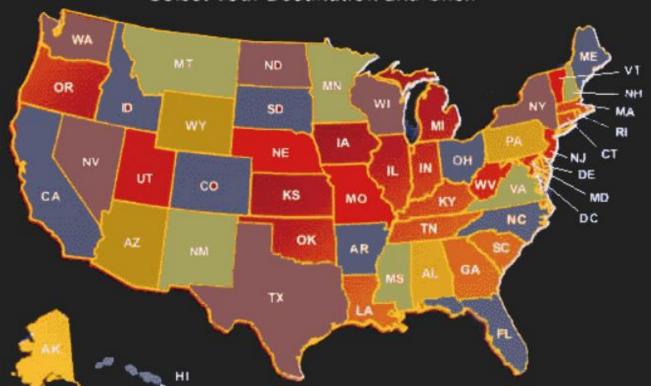
18 to 24year-olds

18 to 85-year-olds

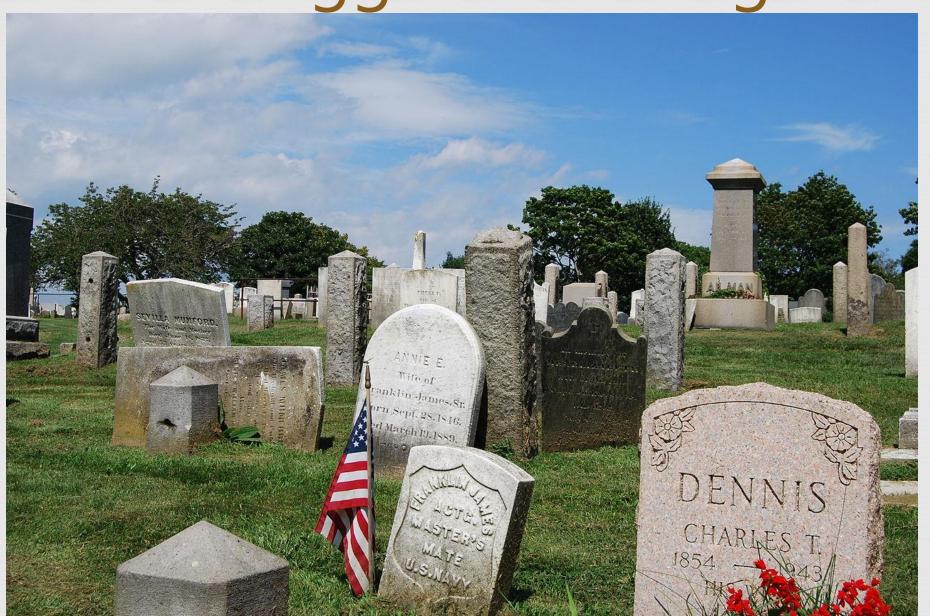
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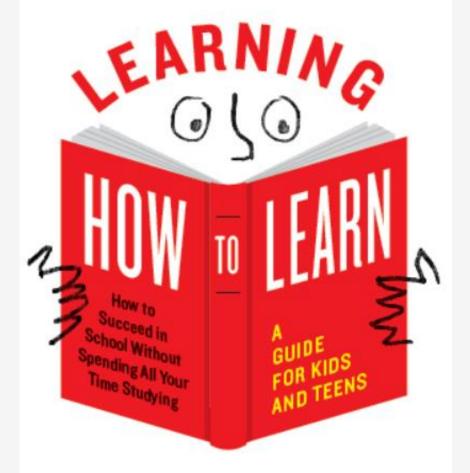
The biggest challenge?



Second-tier universities

Top-tier universities

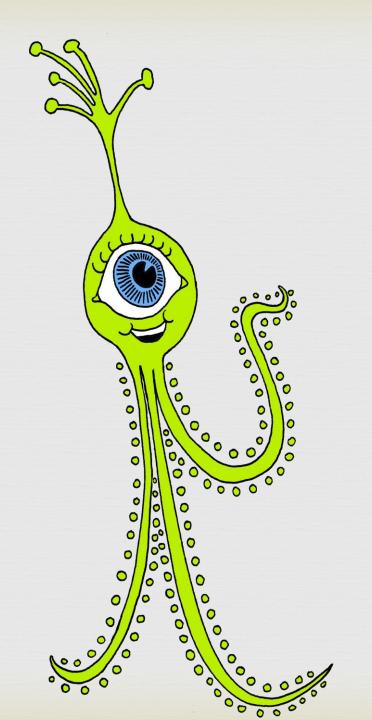
From the bestselling author of *A Mind for Numbers* and the creators of the popular online course Learning How to Learn

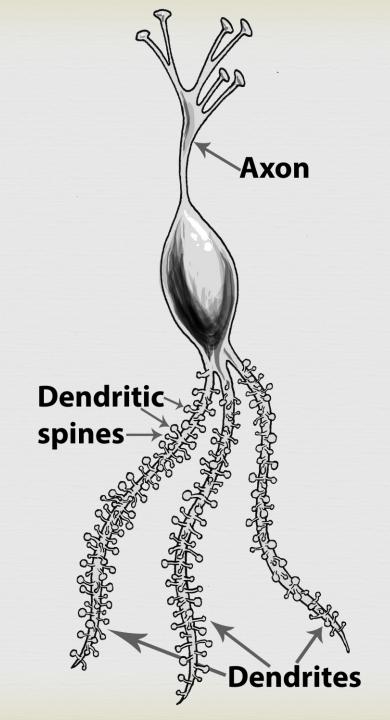


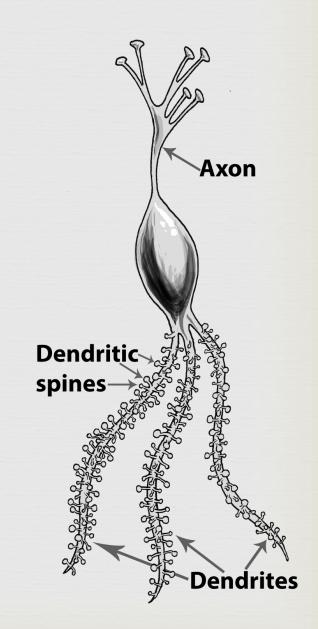
BARBARA OAKLEY P.h.D. AND TERRENCE SEJNOWSKI P.h.D. WITH ALISTAIR MCCONVILLE

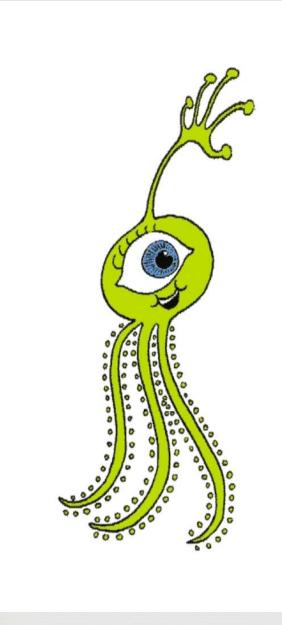
Next project?

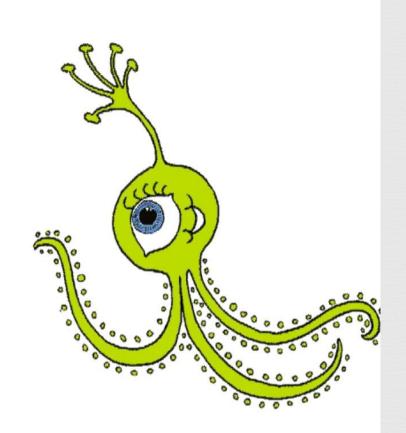
16 five-minute videos: Microsoft and ASU

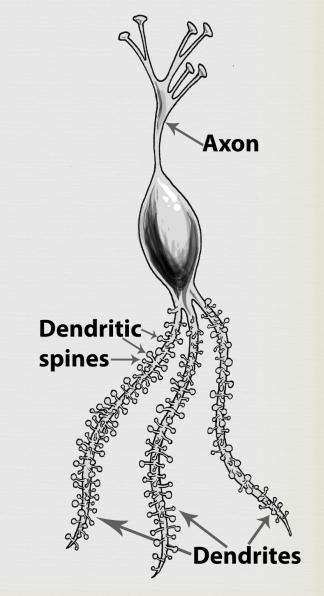






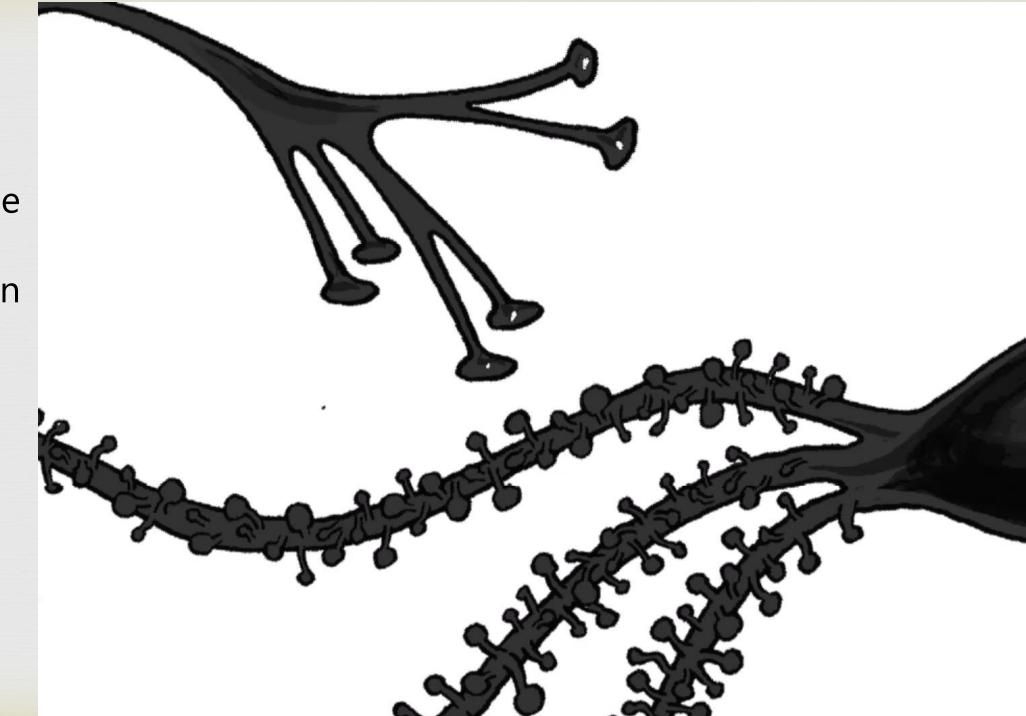




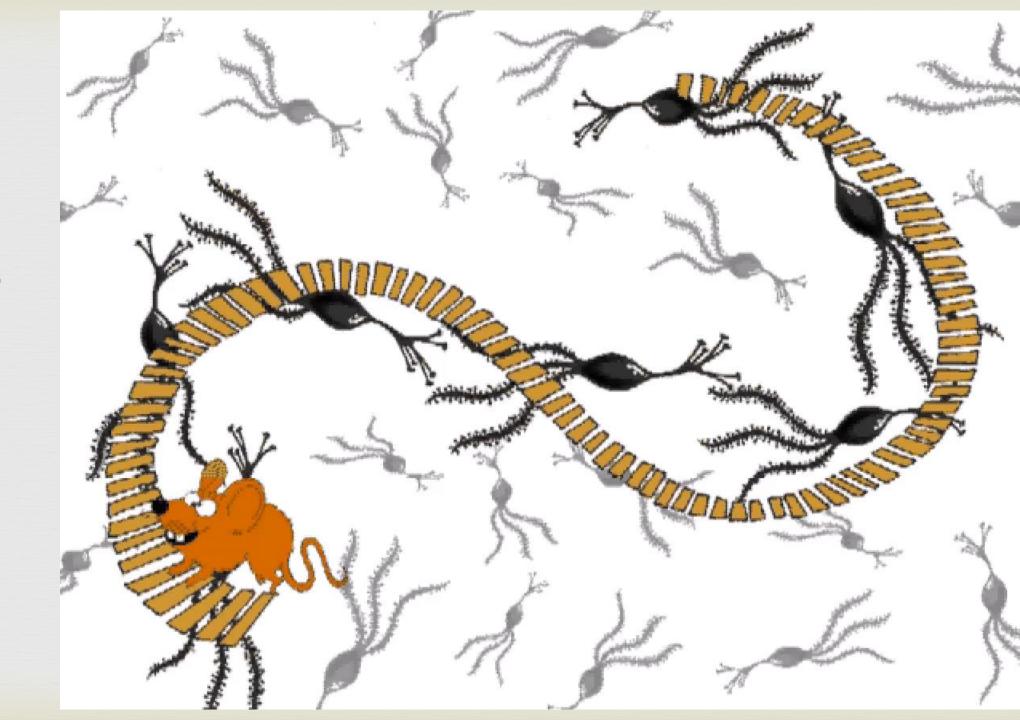


Neurons create sets of links when you learn something.

A "chunk"



Chunks are like mouse paths that get bigger with practice.



The down side

The fan letters

We are at the ground floor of a learning revolution!

What are you waiting for?