CS10
The Beauty and Joy of Computing

Lecture #10
Social Implications of Computing

2011-10-05

Hello to Ainārs Bērziņš
in **Latvia**

UC Berkeley EECS
Lecturer SOE
Dan Garcia

CS10 CHOSEN AS UC ONLINE PILOT!

CS10 has been chosen as one of 30 courses (all across 10 UC campuses) to receive Pilot funding for online instruction! We'll have 1080p time-indexed videos, "instructor does the class" videos, and mini-quizzes througout.

onlineeducation.universityofcalifornia.edu

Overview

- **META: This course is NOT just about programming!**
  - **Lecs + Reading: Big ideas**
  - **Labs: Programming**
  - **Disc: Distillation**
- **META: plug CS195 Social Implications of Computers**
- **Computers in Education**
  - **Most important use?**
  - **Judah Schwartz' continuum**
  - **RSA Animate "Changing Education Paradigms"**
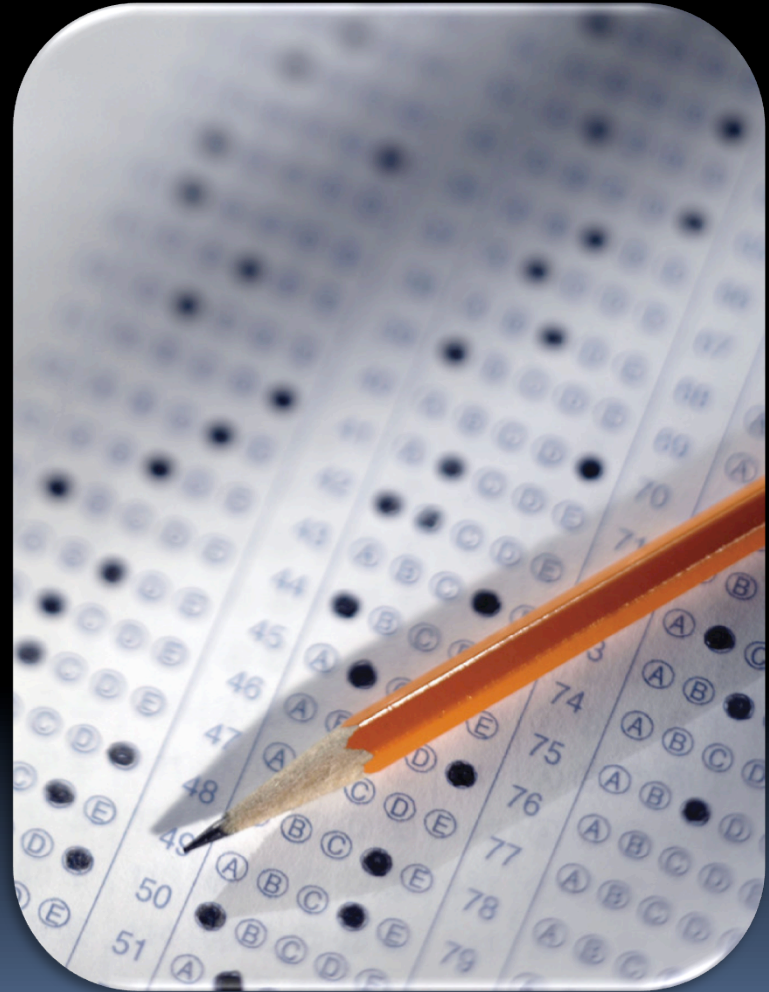 - **UC Online Pilot**

Peer Instruction (thanks to BH)

The most important use of computers in education so far...

a) Web search

b) Arithmetic drill programs

c) Word processing

d) iclicker-like technologies

e) Social networking

Answer

- *"Multiple choice tests have changed what counts as knowledge in schools. Open-ended questions were the norm 30 years ago. The kind of knowledge you can report on multiple-choice tests is unimportant in the big scheme of things, and what's really important is not what you already know, but how you can take what you already know and apply it something you've never seen before. Multiple choice tests make that hard. Teaching follows tests! The folks who invented Standardized Testing didn't foresee how it would affect what knowledge means! (unintended consequence)"* – Brian Harvey

Computers in Education (open?)

Judah Schwartz

Tools	Microworlds	Courseware
Word Processor	Interactive geometry	Arithmetic drill
Browser	Physics simulation	Computer-assisted instruction
Programming language	Databases(e.g., atlas)	Computer-managed instruction
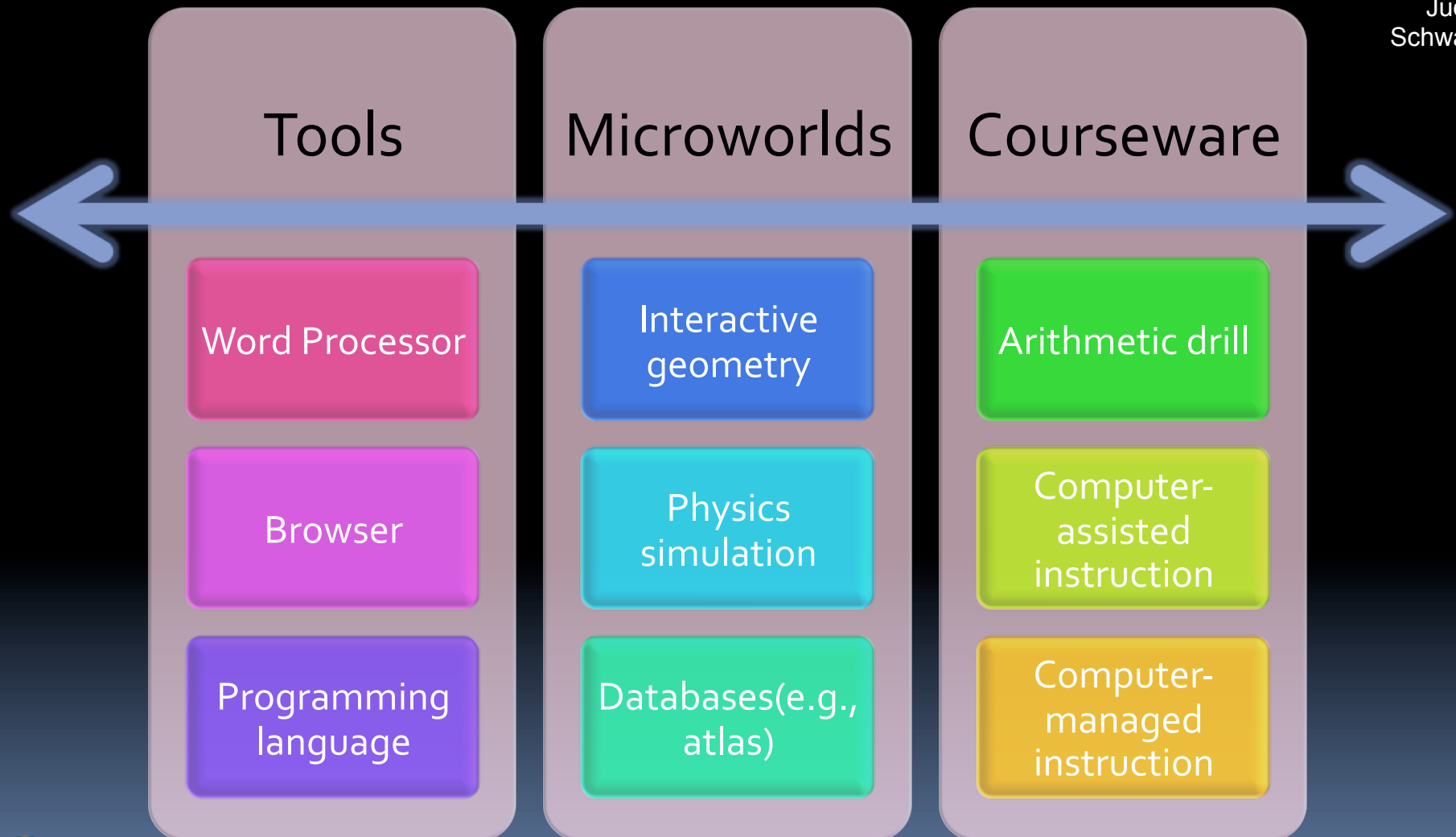
Myphysicslab demo
ASSIST movie

RSA Animate : Changing Education Paradigms

UC Berkeley Online Pilot

- **Basics of Pilot**
  - Blended vs Online

- **What should we do?**
  - How can CS10 be the course for everyone?
  - How can we use peers?
  - What'd help you most?

- **Would you take this course if it'd been offered at another UC?**
  - Does f2f matter?

Taking CS10 Online

The <u>most effective</u> thing for your learning, if you were taking CS10 online (remotely)…

a) "Test yourself" mini-quizzes

b) Mini-programming challenges

c) Tree-structure interface to lectures

d) 1080p High-Definition archived lectures

e) "Instructor takes the class" videos of us doing labs, HW, exams