CS10 NEWS

Updates

Discussion is now 1hr ONLY. Lab 5-7pm gets Disc 8-9pm. Lab 7-9 gets Disc 7-8pm.

Quest 1 review Fr1-2pm 306

UC Berkeley
EECS
Teaching
Professor
Dan Garcia

The Beauty and Joy of Computing

Social Implications of Computing – Computers in Education

IS AI-GENERATED ART FAIR?

This year, the Colorado State Fair's annual art competition gave out prizes in all the usual categories: painting, quilting, sculpture. But one entrant, Jason M. Allen of Pueblo West, Colo., didn't make his entry with a brush or a lump of clay. He created it with Midjourney, an artificial intelligence program that turns lines of text into hyper-realistic graphics. Mr. Allen's work, "Théâtre D'opéra Spatial," took home the blue ribbon in the fair's contest for emerging digital artists — making it one of the first A.I.-generated pieces to win such a prize, and setting off a fierce backlash from artists who accused him of, essentially, cheating. Reached by phone on Wednesday, Mr. Allen defended his work. He said that he had made clear that his work — which was submitted under the name "Jason M. Allen via Midjourney" — was created using A.I., and that he hadn't deceived anyone about its origins.

"I'm not going to apologize for it," he said. "I won, and I didn't break any rules."

www.nytimes.com/2022/09/02/technology/ai-artificial-intelligence-artists.html

Overview

- Reminder: This course is NOT just about coding!
  - Lecs + Reading: Big ideas
  - Labs: Programming
  - Disc: Distillation
- META: plug CS195 Social Implications of Computers
- Computers in Education
  - Most important use?
  - Judah Schwartz' continuum
    - ASSIST Demo
  - RSA Animate "Changing Education Paradigms" video
  - Online learning + BJCx online

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

L07a The most important use of computers in education so far...

Web search

Arithmetic drill programs

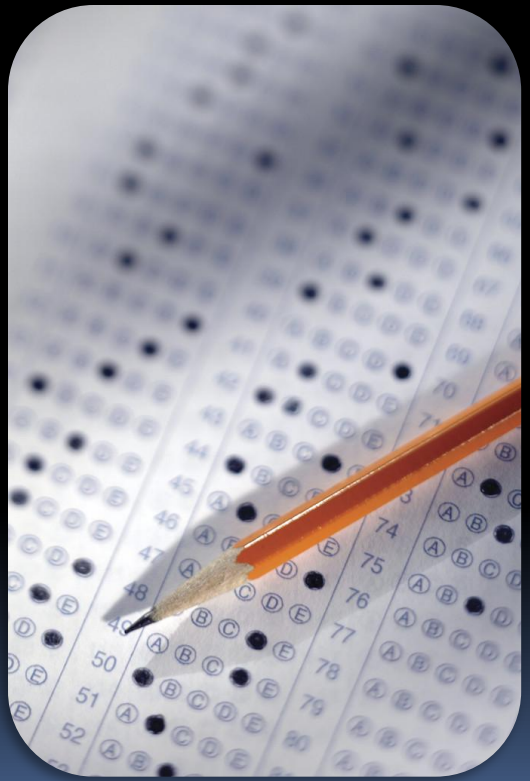
Word processing

iclicker-like technologies

Social networking

Answer

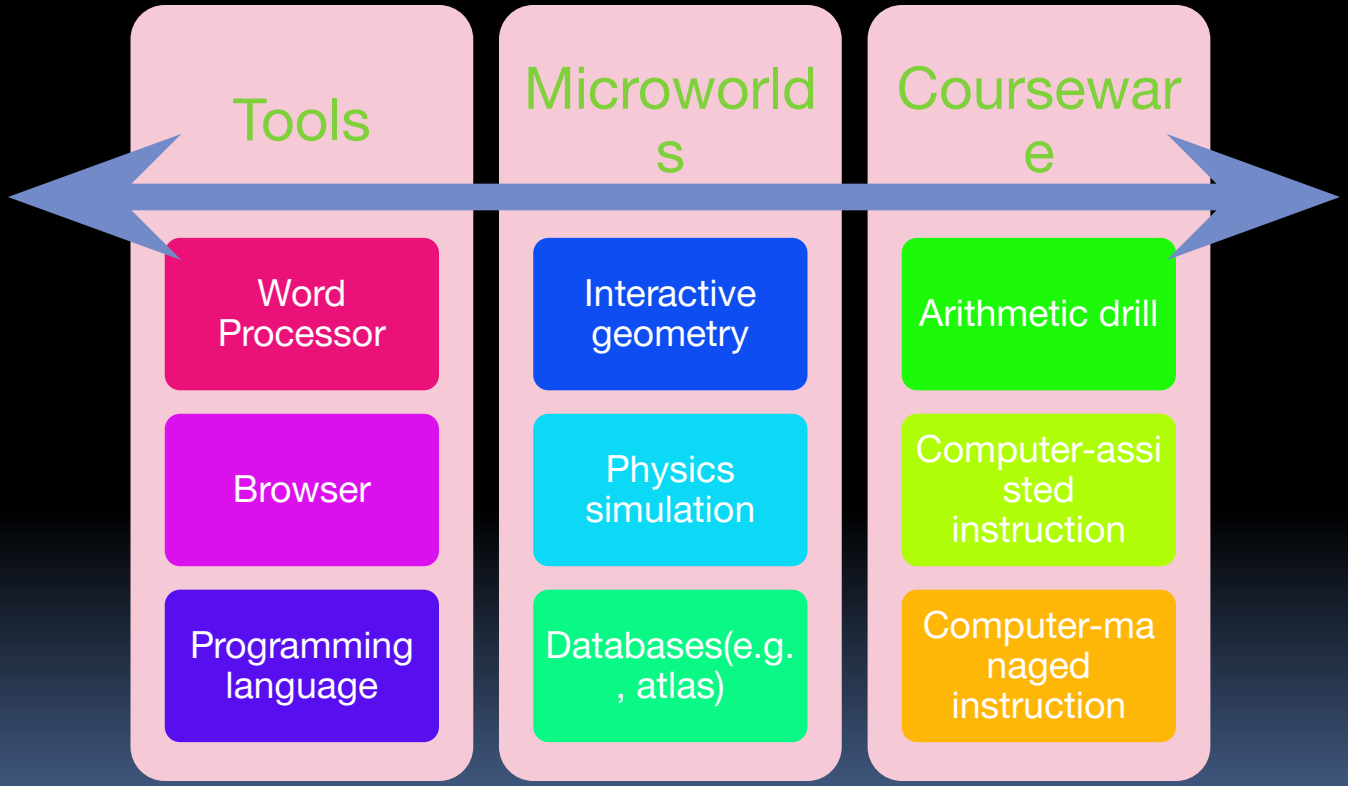
“ Multiple choice tests have changed what counts as knowledge in schools. Open-ended questions were the norm 30 years ago. The kind of knowledge you can report on multiple-choice tests is unimportant in the big scheme of things, and what’s really important is not what you already know, but how you can 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

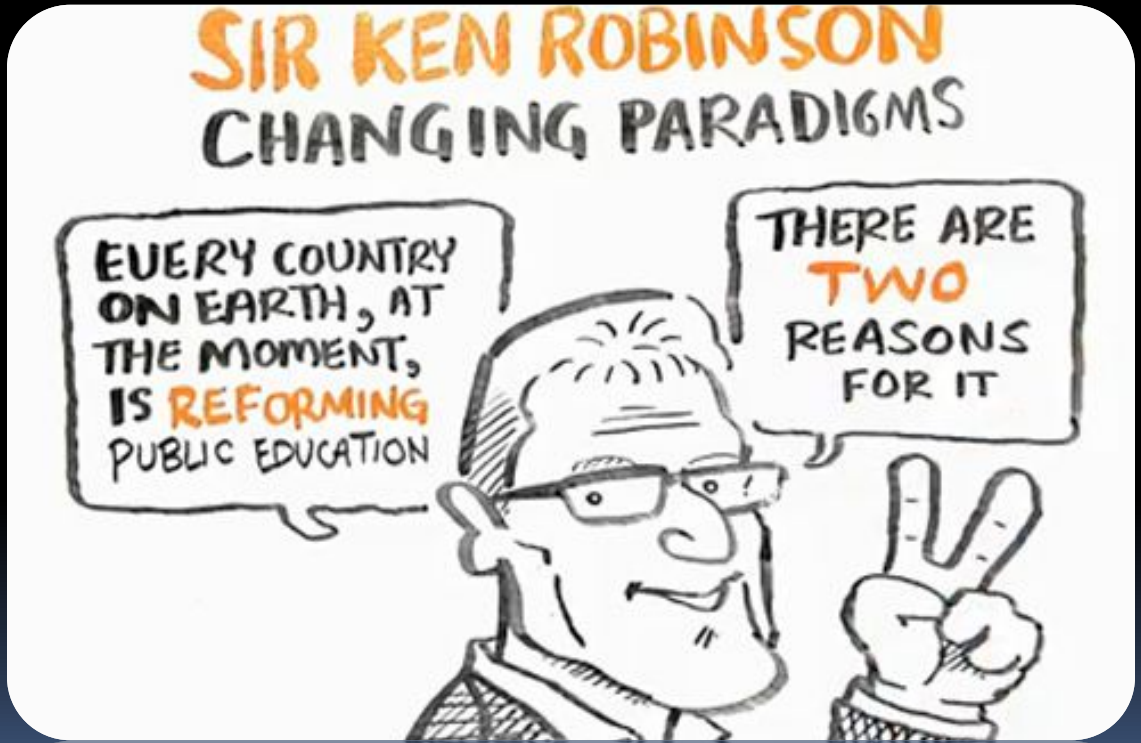
ASSIST Movie:
youtu.be/NZNTgglPbUA

Judah Schwartz came up with these categories!



www.youtube.com/watch?v=zDZFcDGpL4U

RSA Animate : Changing Education Paradigms



Massive Open Online Courses (x-type)

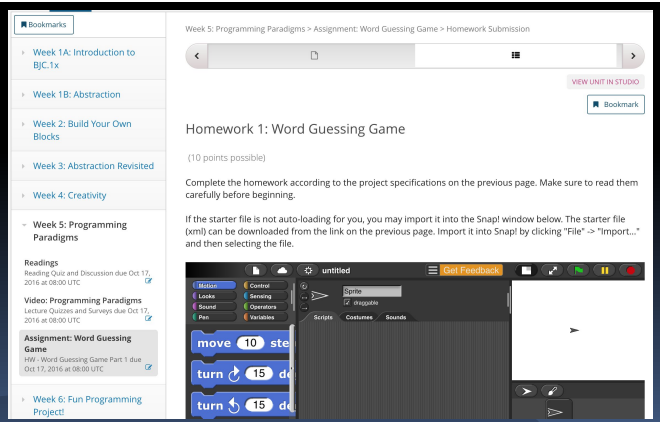
- Pro
  - Way better than nothing for those with no other access, and broadens the reach significantly
  - Learn from the best lecturers
  - Learning for its own sake (vs. credentialing)
- Con
  - Overemphasis on lectures (and maybe homework) over discussion and a community of learners
  - Encourage Univs to think of courses as cash cows
  - Not so good at credentialing

Massive Open Online Courses (c-type)

- What (coined by Stephen Downes)
  - ‘c’ in cMOOC is ‘connectivist.’
  - Rather than being delivered by a single instructor, cMOOCs involve groups of people learning together.
  - cMOOCs often include blogs, learning communities, and social media platforms that contain content and promote interaction.
  - In this environment, participants are all considered teachers and learners, in contrast to the structure of xMOOCs, where each individual is either a student or a teacher.

BJCx: BJC as cxMOOC course online

- 2015-16: 4 MOOClets
  - BJC.1x: 16K learners!
    - 5K doing work, 1K Piazza
  - BJC.4x: 4K learners!
    - 300 doing work, 100 piazza
- 2016-17: 2 MOOClets
  - BJC.12x: 2K students
    - 300 doing work, Piazza
- Features
  - Like BJC, videos, readings + discussions, auto-grading, HW, labs (effort), projects (credit), exams



We Surveyed CS10 students…

The most effective thing for your BJC online learning:

- Make it easier to collaborate using Snap! 100%
- Less quantity of reading 75%+
- “Test yourself” mini-quizzes 75%
- More illustrations to learn hard concepts 50%
- Tree-structure interface to curriculum 5%
- A “smart” system that adjusts the difficulty of a problem to match your ability 50%
- Questions (ala coursesharing) of readings 50%
- Live comments/chat about readings 25%
- No “video” for homework 10%
- More collaboration for online folks 10%