CSC180 Is The Most Important Course You'll Ever Take

Michael Guerzhoy

Slides from:

The Future of Computer Science

And Why Every Other Major Sucks By Comparison

Scott Aaronson
MIT Computer Science
Stereotypes of CS Majors
Microprocessor Transistor Counts 1971-2011 & Moore’s Law

curve shows transistor count doubling every two years
So what’s next?
Robot Uprising
Uploading our brains to computers; replacement of “real life” by the Matrix
- Figure out how to make computers do things that humans do well
  • Detect cats in pictures
  • Understand spoken language
- May lead to understanding how the brain works!
By the end of this term

- Automate everything
  • Compute grades for 300 students, grade the work of 300 students semi-automatically, collate and analyze lab data
- Make AI for simple (for computers) games
Go away or I will replace you with a very small shell script.
So what else is there?
What we’ve learned from quantum computers so far:

15 = 3 × 5

(with high probability)
Relativity Computer
Zeno’s Computer

Time (seconds)

- STEP 1
- STEP 2
- STEP 3
- STEP 4
- STEP 5
Computer Science Is Interdisciplinary

- Math
- Biology
- Economics
- Physics
- Brain/Cognitive

Diagram showing interdisciplinary connections between computer science and other fields.