CSC165 Is The Most Important Course You'll Ever Take

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Slides from:

The Future of Computer Science

And Why Every Other Major Sucks By Comparison

Scott Aaronson
MIT Computer Science
Stereotypes of CS Majors
Moore’s Law

Curve shows ‘Moore’s Law’: transistor count doubling every two years
So what’s next?
Uploading our brains to computers; replacement of “real life” by the Matrix
So what else is there?
Quantum Computers

What we’ve learned from quantum computers so far:

\[ 15 = 3 \times 5 \]

(with high probability)
Relativity Computer

DONE
Zeno’s Computer

Time (seconds)

STEP 1

STEP 2

STEP 3

STEP 4

STEP 5
Computer Science Is Interdisciplinary
But it's not just about CS theory!

- You need to be able to reason about computer programs/algorithms in order to come up with new algorithms
  • Algorithms are everywhere: AI, computer systems....

- You to demonstrate problem-solving skills to get a job!
A question from an job interview

- How many prime numbers are there?
- Prove it!