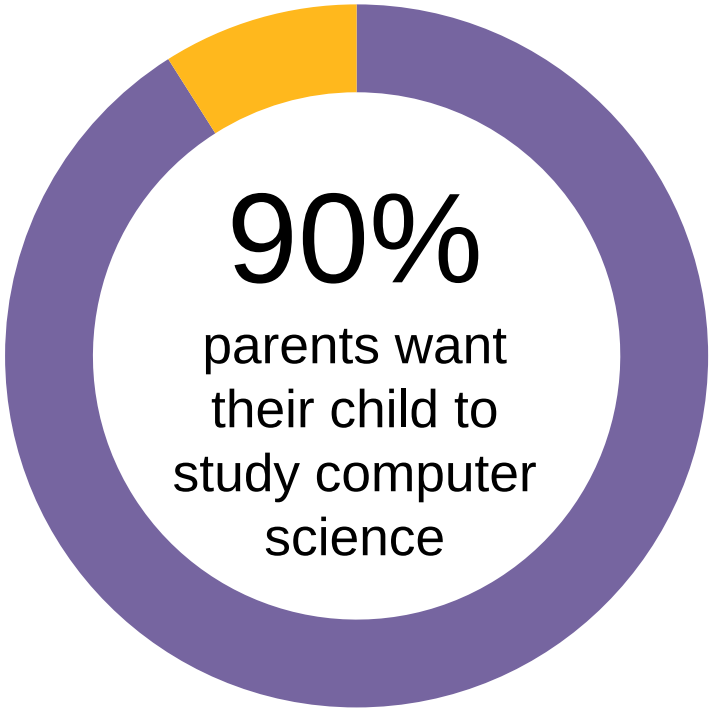
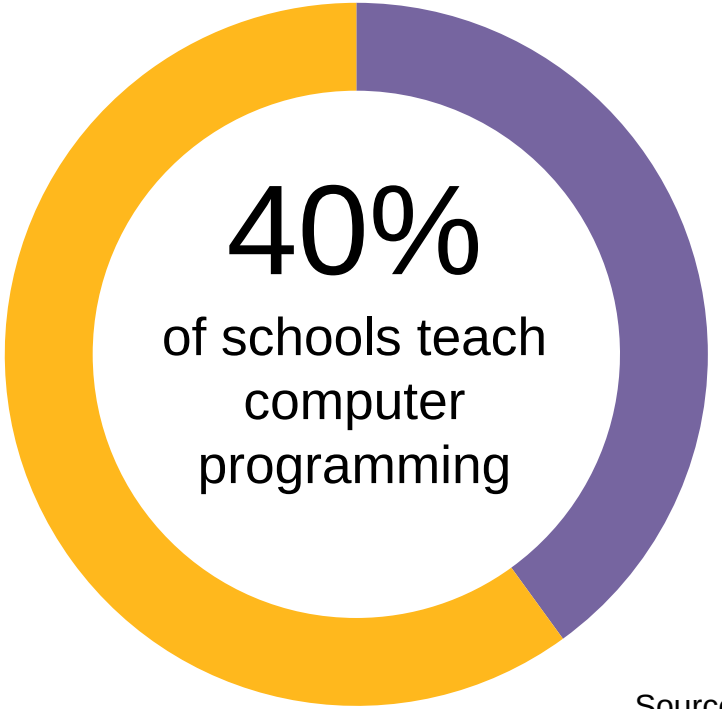
Computers and software are changing everything…

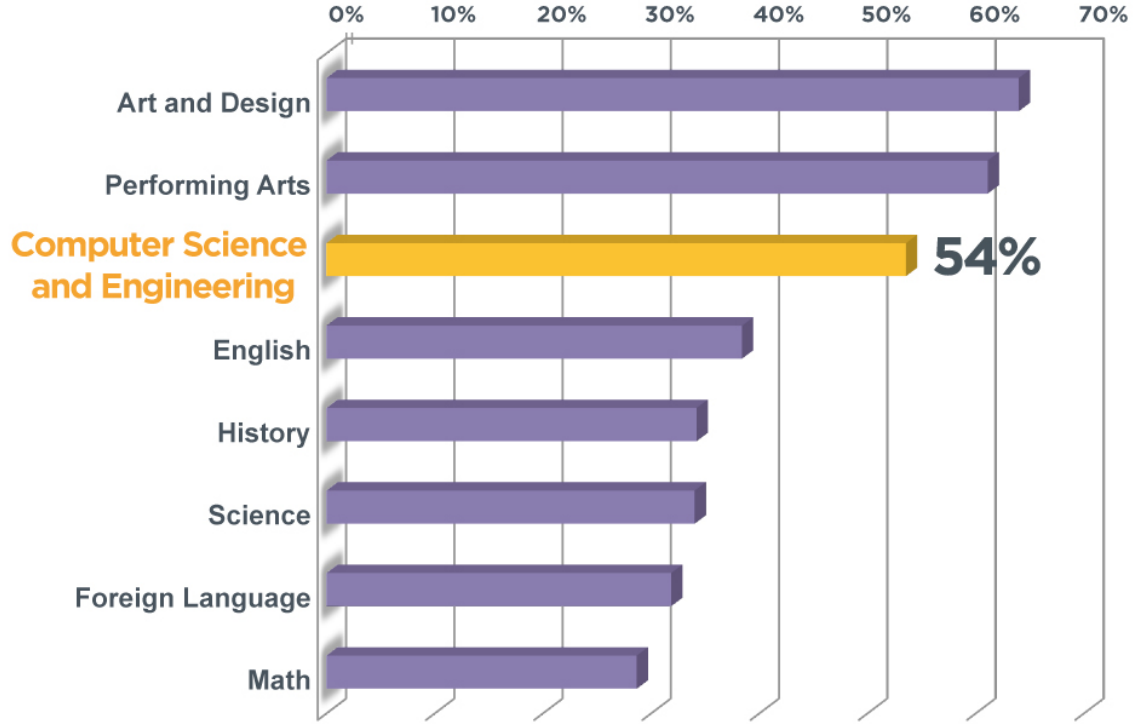
…but the majority of schools don't teach **computer science:**





Source: Gallup

And students enjoy computer science and the arts the most



Source: Change the Equation

Some may think:

Our students should learn to code…

~~Our students should learn to code…~~

Our **schools** should teach **computer science**

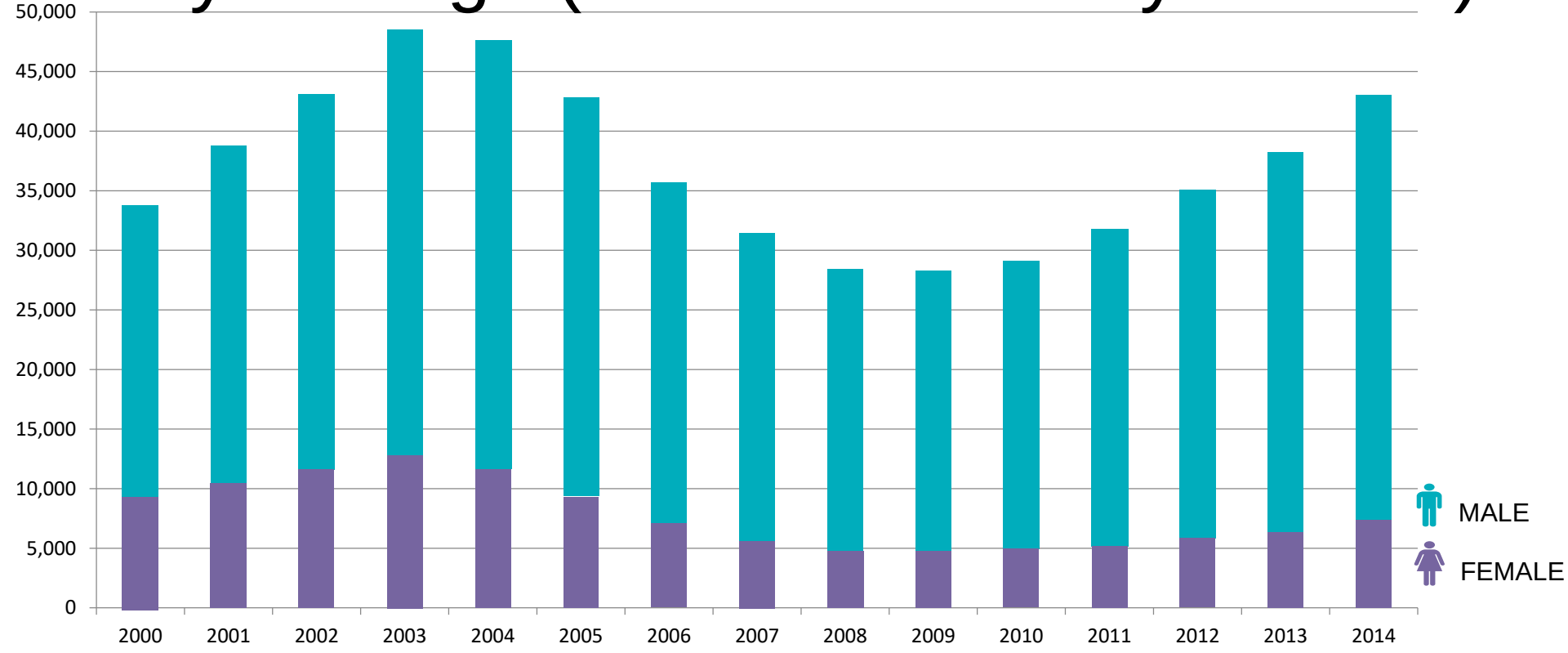
Some may think:

Computer science education is on the rise…

~~Computer science education is on the rise…~~

Computer science education is recovering from a 10-year **decline**

Fewer computer science graduates than 10 years ago (and half as many women):



Source: National Science Foundation, National Center for Education Statistics

Some may think:

Computer science is just about learning technology

Some may think:

~~Computer science is just about learning technology~~

Computer science is about logic, problem solving, and creativity

First computer: 1943

First computer: 1943

First computer program: 1843

Some may think:

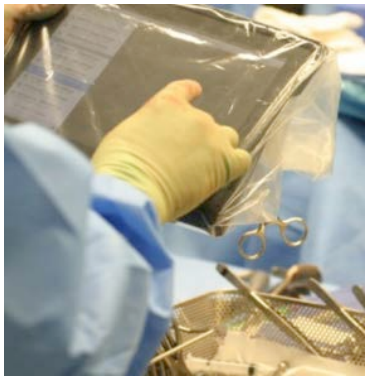
Computer science is vocational

Some may think:

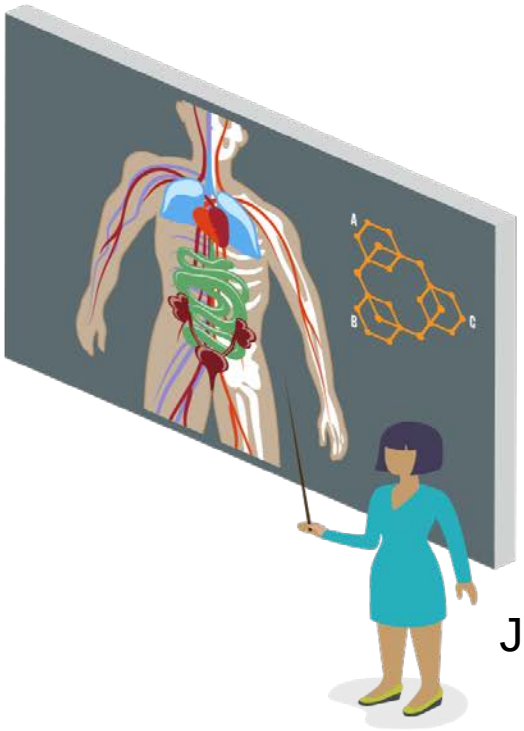
~~Computer science is vocational~~

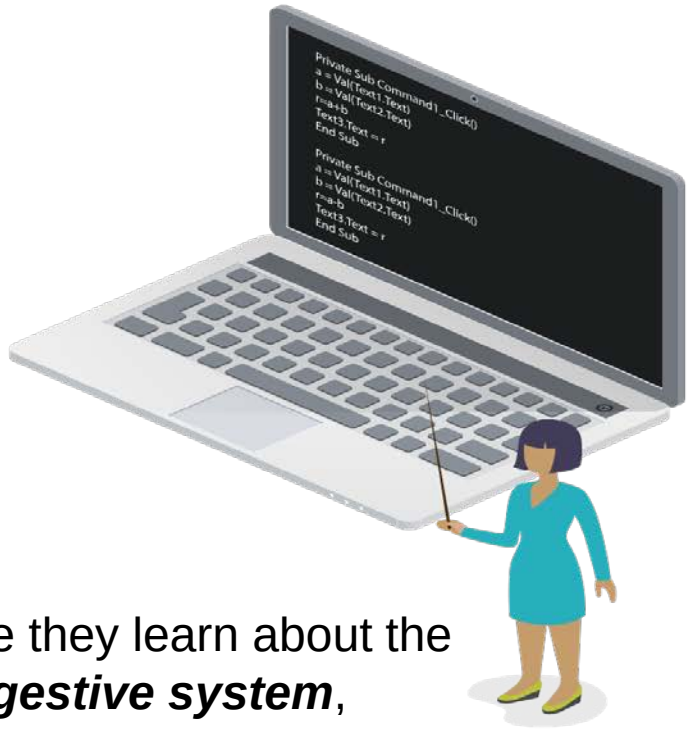
Computer science is foundational

Technology affects ***every*** field:



Every 21st century student should have a chance to learn about ***algorithms***, how to make ***apps***, or how the ***internet*** works.





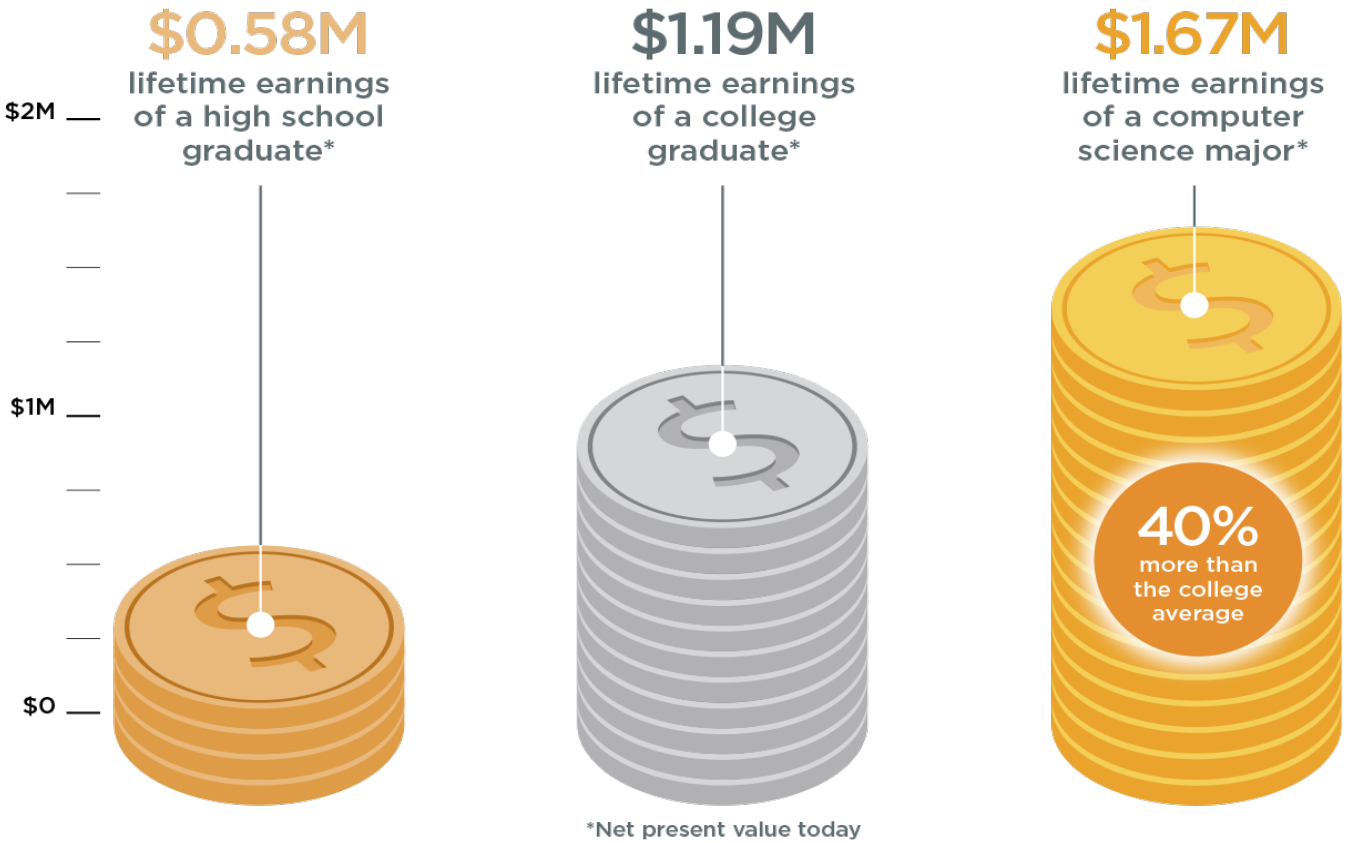
Just like they learn about the ***digestive system***, ***photosynthesis***, or ***electricity***.

Some may think:

The tech industry is desperately trying to hire computer programmers in California

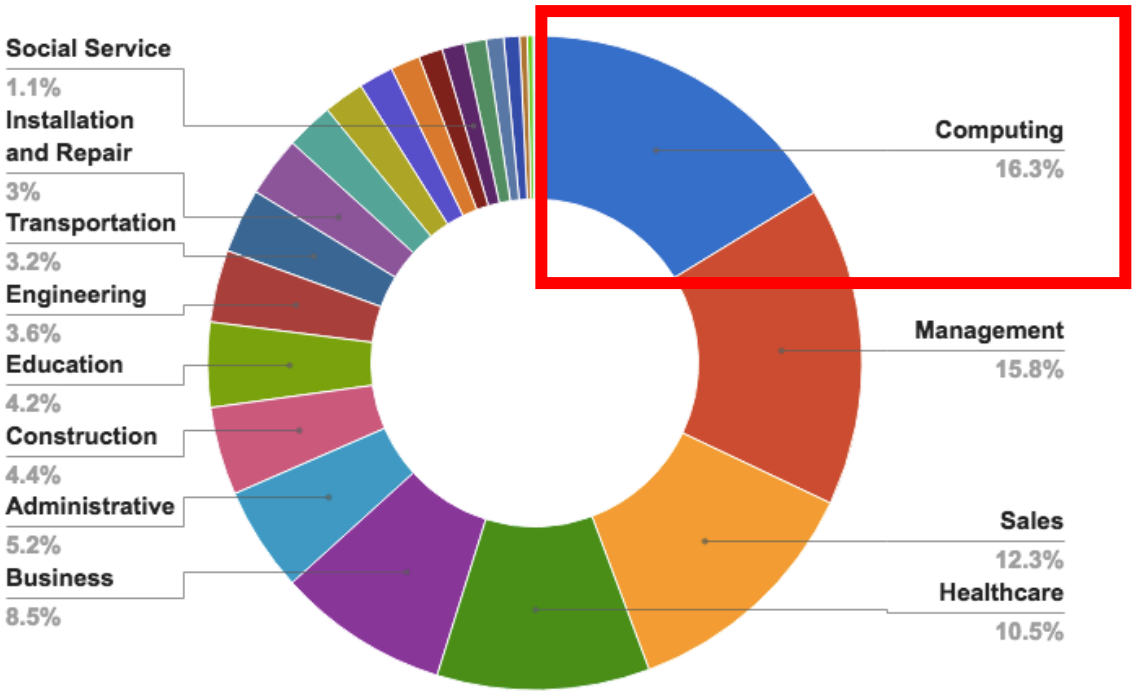
~~The tech~~ **every** industry is desperately trying to hire computer programmers ~~in California~~ **everywhere**

The value of a computer science education



Source: Brookings

Computing jobs are the #1 source of new wages in the United States

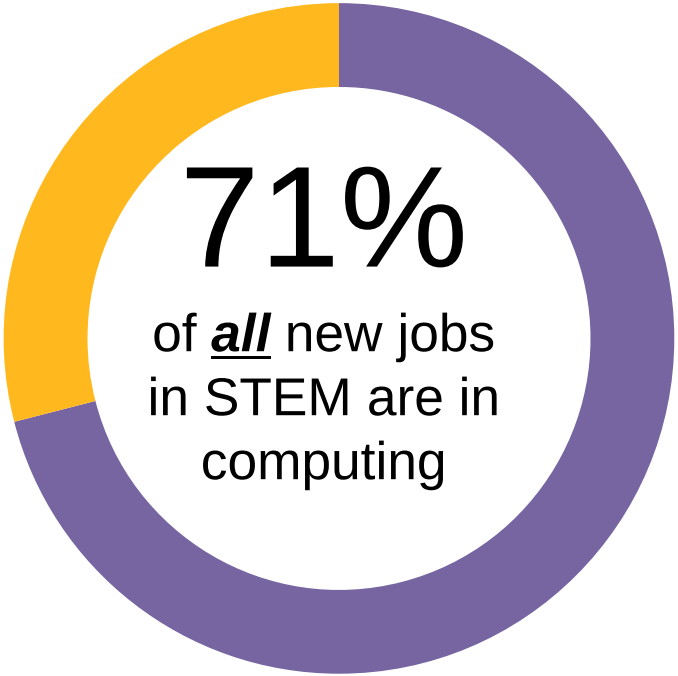


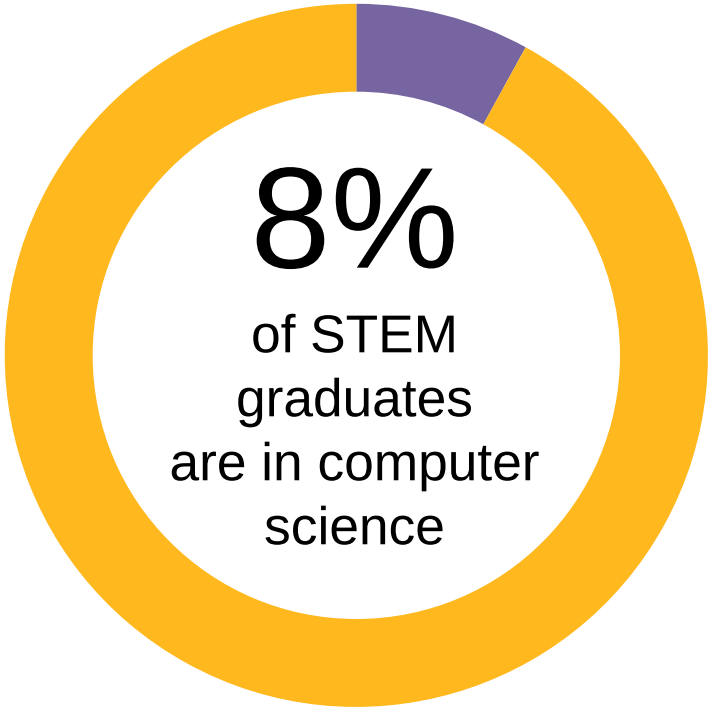
500,000 current openings: These jobs are in ***every*** industry and ***every*** state, and they're projected to grow at twice the rate of all other jobs.

Some may think:

This problem is about “STEM” (Science, Technology, Engineering, and Math)…

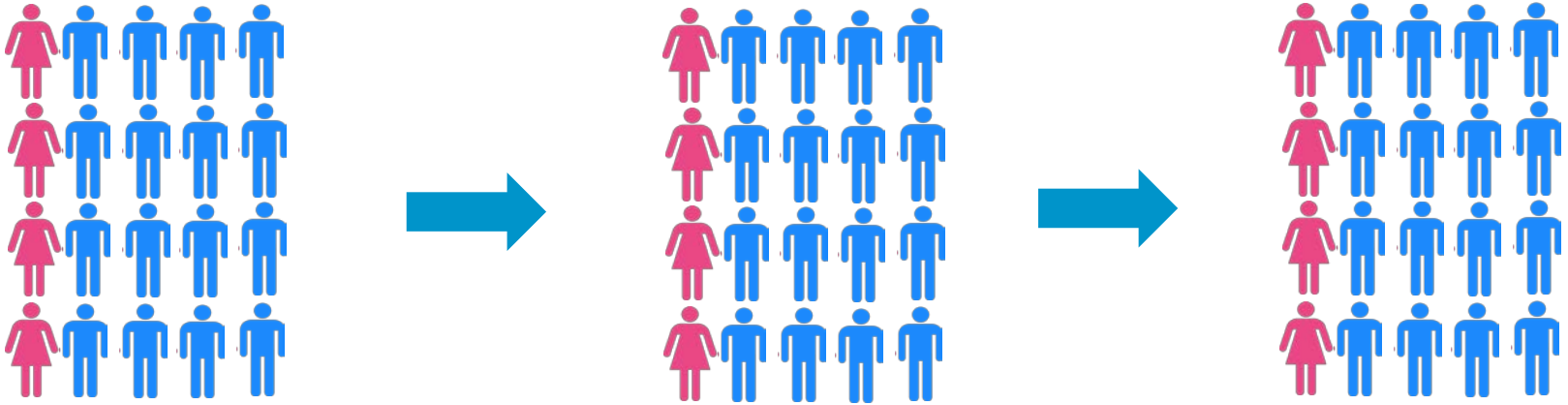
The STEM problem **is in computer science:**





Sources: Bureau of Labor Statistics, National Center for Education Statistics

Tech’s diversity problem is also in CS



High school computer science

University computer science

Software workforce

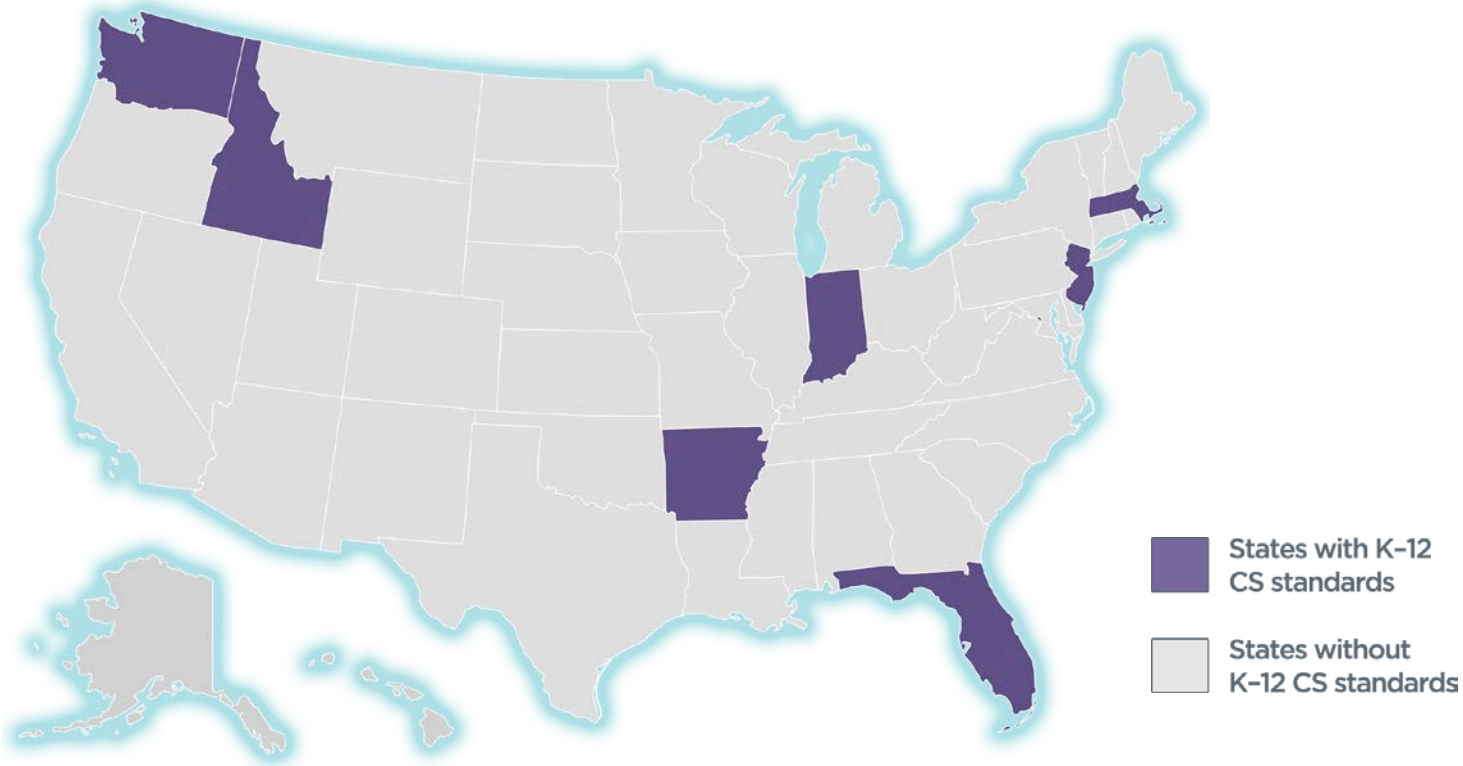
Women who try AP Computer Science in high school are ten times more likely to major in it in college, and Black and Hispanic students are seven times more likely.

Sources: College Board, National Center for Education Statistics, Bureau of Labor Statistics

Our state policies can help fix this picture…

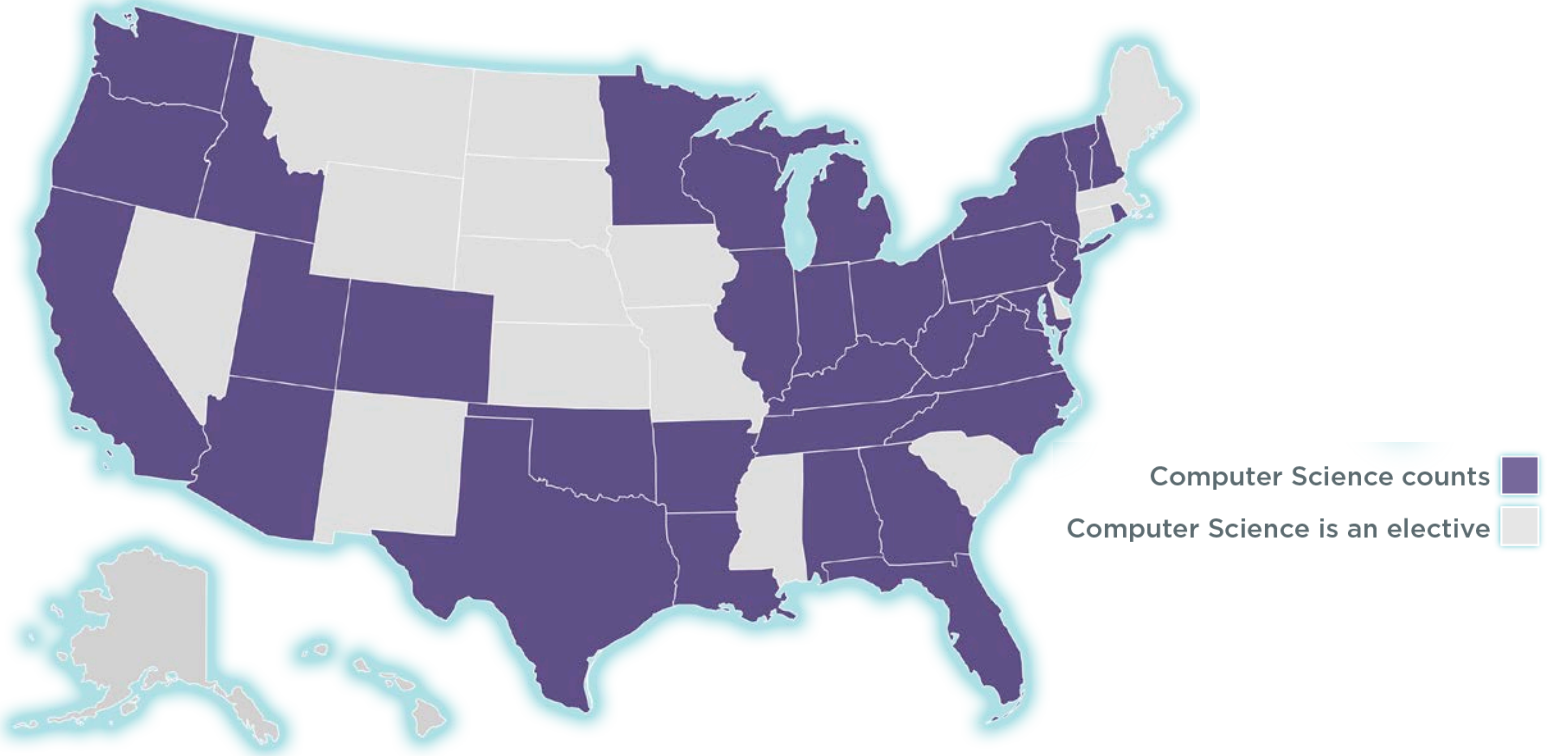
The state of K-12 computer science standards

Only 7 states have created K-12 computer science standards. Momentum is building, but we still have a long way to go.

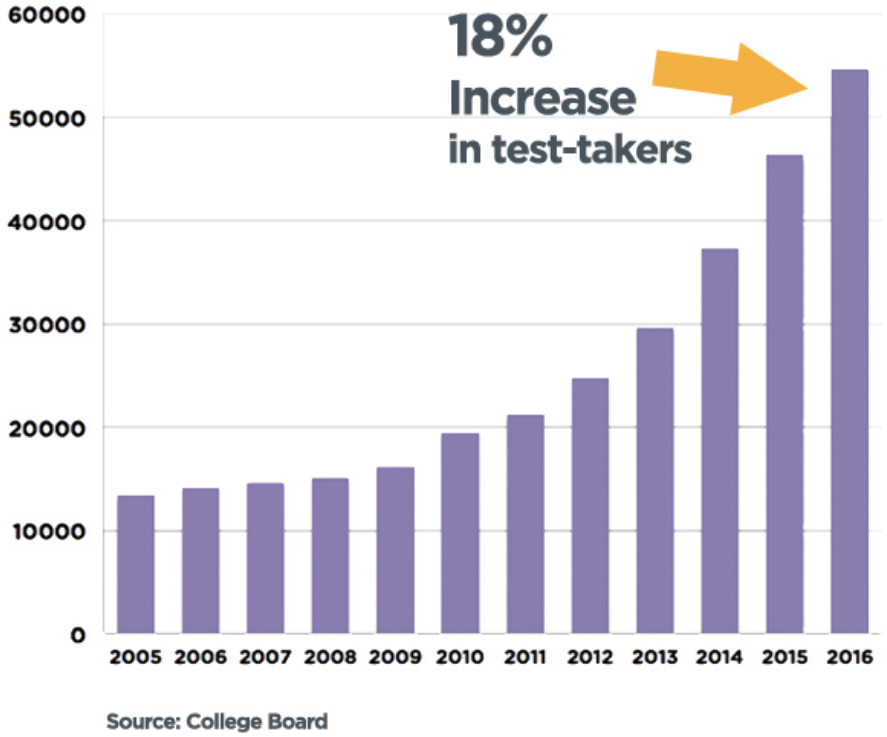


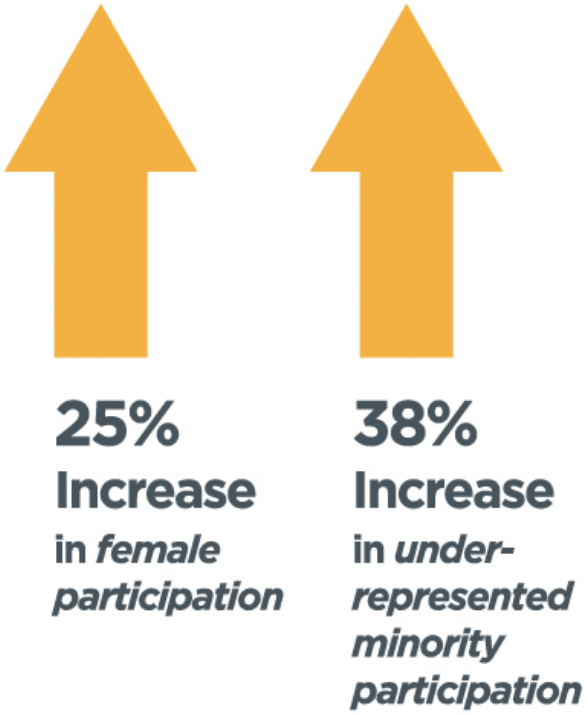
CS can count for graduation in 32 states + DC

In 32 states plus DC, computer science can count towards high school graduation math or science requirements - **up from 12 states in 2013.**

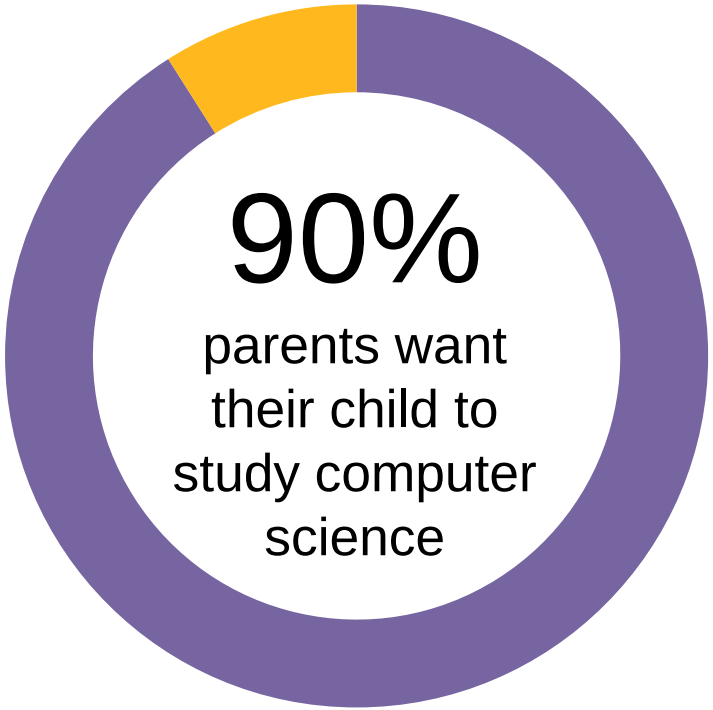


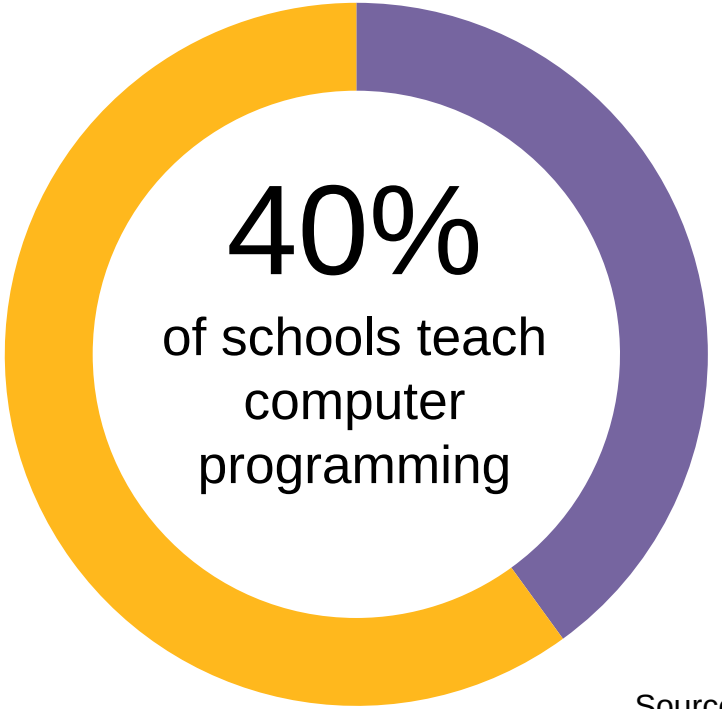
And, in schools that teach computer science, enrollment is through the roof…





But fundamentally, this is the picture we need to solve:





Source: Gallup