WHAT IS COMPUTER SCIENCE?

IT IS SO MUCH MORE THAN CODING!

- **Definition:** As the foundation for all computing, computer science is defined as "the study of computers and algorithmic processes, including their principles, their hardware and software designs, their [implementation], and their impact on society - **Tucker et. al, 2003, p. 6**
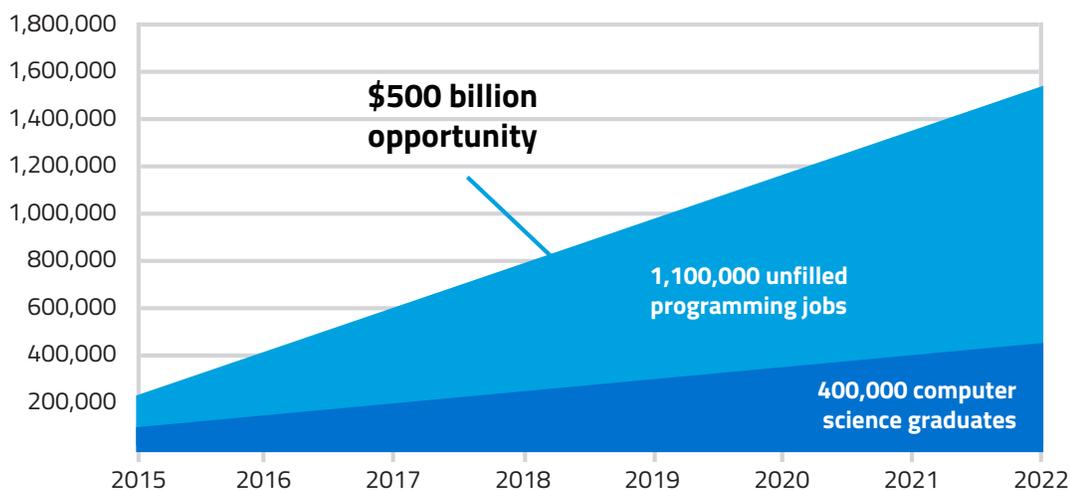- **Defining Computer Science**

Computer Science **IS** understanding why and how computers work, and creating programs, rather than just using them.

Computer Science **ISN'T** using computers to perform everyday tasks

Sources: K–12 CS Framework, NCAA CS Rubric, Civil Rights Database

WHY IS THIS SO IMPORTANT?

- 1.4 million computer science jobs by 2022
- 400K grads to fill these jobs
- 85% of jobs that will exist in 2030 don't exist yet (source: Dell Technologies, Institute for the Future)

$500 billion opportunity

1,100,000 unfilled programming jobs

400,000 computer science graduates

Source: obamawhitehouse.archives.gov/blog/2013

WYOMING
DEPARTMENT OF EDUCATION

WHAT JOBS ARE AVAILABLE IN COMPUTER SCIENCE?

CYBERSECURITY SPECIALISTS

SOFTWARE DEVELOPMENT

DATABASE DEVELOPERS

THE INTERNET OF THINGS

WHAT DOES COMPUTER SCIENCE PAY?

$46,840.00

$63,223.00

Average salary in Wyoming

Average CS salary in Wyoming

HOW CAN MY STUDENT GET INVOLVED?

WyoCSZone.com

GirlsWhoCode.com

Code.org