



## 2022 State of Computer Science Education

The tremendous growth of computer science (CS) education has significantly slowed during the COVID-19 pandemic, with few schools able to add new classes to the curriculum. Now, in 2022, it is time for policymakers to reassess the knowledge, skills, and curricula that will engage students, support learning objectives, and prepare students for their post-school lives.

**Just over half (53%) of high schools in the U.S. offer a single computer science course.** Although this represents significant growth (from 35% in 2018), the number of schools offering CS—a foundational subject that is critical to the nation’s economy and security—has grown by just two percent in the past year. State and federal policy can accelerate growth in computer science education by reexamining the foundational needs for all our K-12 students. Policymakers and school decision-makers must answer this call to ensure all students have equitable access to computer science education.

### New York by the Numbers

# 28,623

In 2022, NY averaged 28,623 open computing jobs each month

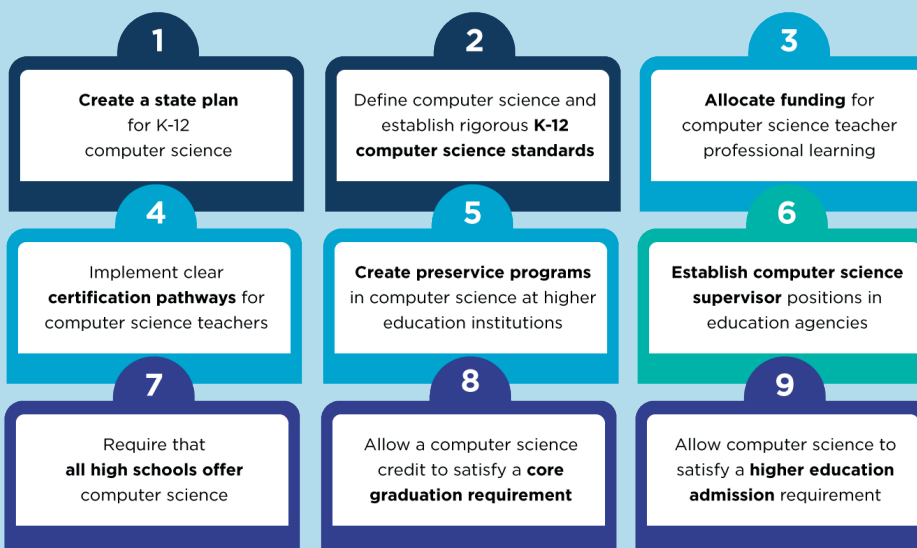
# \$105,768

These jobs have an average salary of \$105,768

# 6,861

Yet there were only 6,861 graduates in computer science in 2019

## Nine Policies to Make Computer Science Fundamental



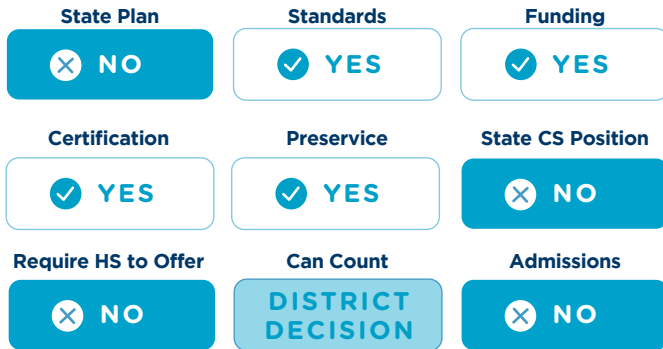
### Policy Principles

- Clarity
- Capacity
- Leadership
- Sustainability
- Equity and Diversity\*

\*Equity and Diversity should be incorporated in each of the nine policies.

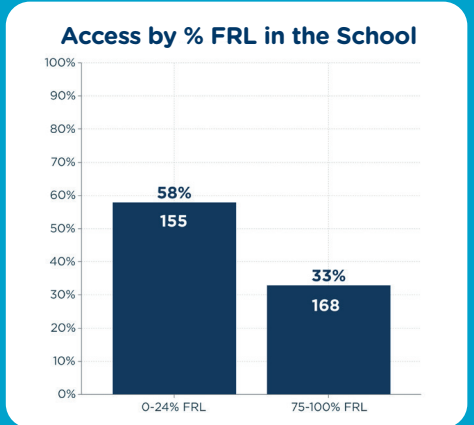
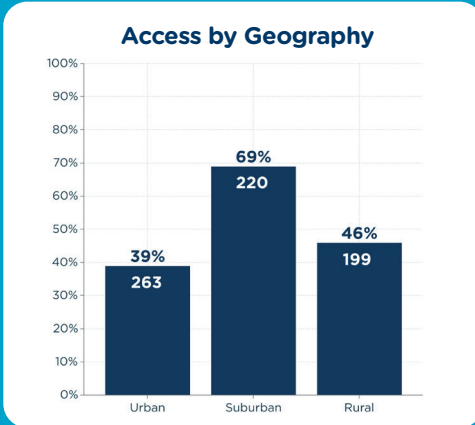
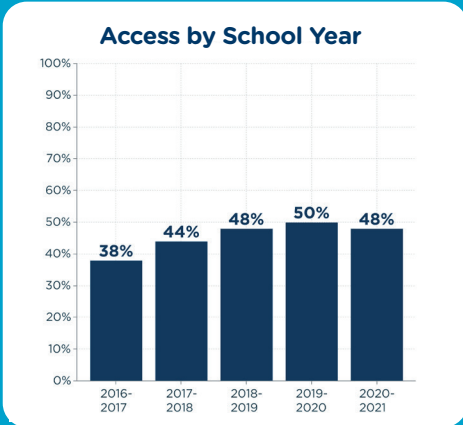
# New York

## Policies to Make CS Fundamental



**64.0% of NY high school students** attend a school that offers foundational computer science, but only **3.4% of students are enrolled in a computer science course.** **31.2% of students** enrolled in a computer science course are **female.**

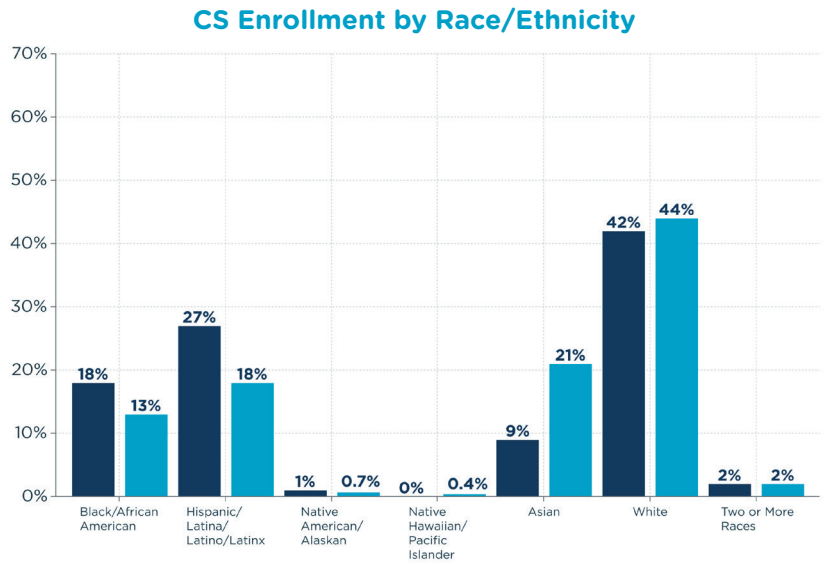
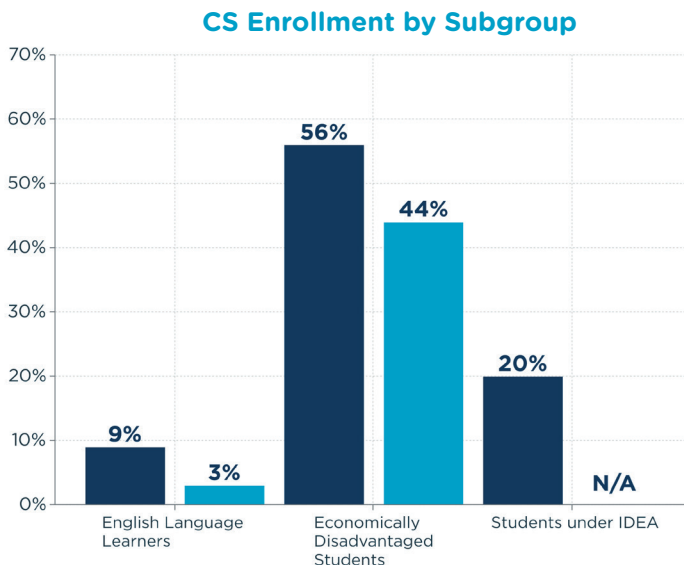
## Percentage of Public High Schools Offering Foundational Computer Science



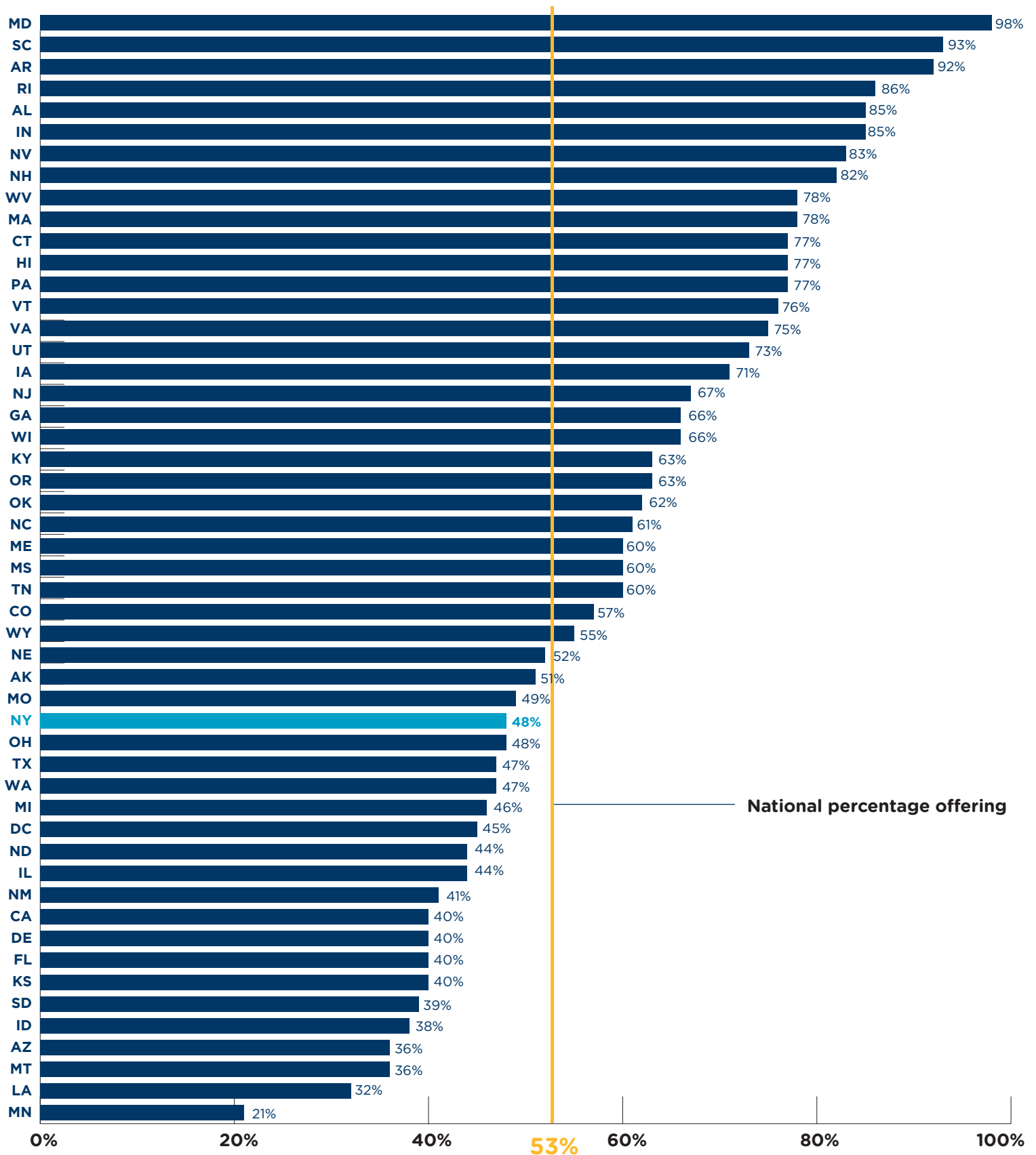
Data provided primarily by the Department of Education and school catalogs, based on 1,426 schools with high school grades. The state reports economically disadvantaged students rather than students who qualify for free and reduced-price meals. If students select "Hispanic or Latino" and a race category, they are counted as Hispanic or Latino, not 2 or more races. Students who select 2 or more races and not Hispanic or Latino are counted as 2 or more races. These students are not included in other categories.

## Participation in Foundational High School Computer Science Courses by Demographic

■ Student Demographics 9-12 ■ Participation in Foundational Courses



# Percentage of High Schools Offering Computer Science, by State\*



\*for the most recent school year reported by each state