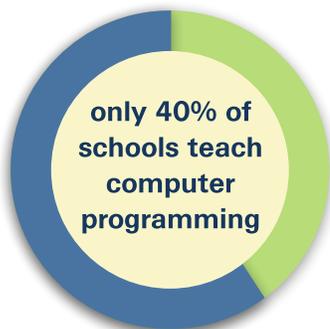


Be a Libraries Ready to Code Champion

All youth, regardless of socio-economic, ethnic, gender, or cultural background, should have the same opportunities for success. The top source of new wages in the United States is in computing, yet jobs in that sector are unfilled waiting for qualified graduates to apply. Computing jobs cut across industry and are found in communities across the country.



Disparities exist among cultural and racial minorities, girls, and youth from low socio-economic backgrounds. Youth in these groups are less likely to be able to fill these positions as they have less access to computer science (CS) education, exposure to computers, or awareness of computing opportunities.*

500,000+

that's how many open computing jobs there are across the U.S.

40%

that's how much more computer science majors can earn than the college average

2x...

that's the rate computing jobs are projected to grow compared to all other jobs

Source: <https://code.org/promote>

As needs of youth and technology change, so do libraries. Today, Ready to Code libraries increase **access, exposure, and awareness** of CS opportunities for the nation's youth. All 115,000 of the nation's public and school libraries are crucial community partners to guarantee youth have skills essential for a successful future.

LIBRARIES READY TO CODE EMPOWER YOUTH

With resources to develop initiatives that promote computational thinking skills, libraries empower youth to: take on their futures, have robust career options, and build the economic and social vitality of the cities, towns, and reservations in which they live. Challenges ahead demand the nation's youth develop computational thinking skills—now.

READY TO CODE YOUTH DEMONSTRATE COMPUTATIONAL THINKING SKILLS

- **DECOMPOSITION** - They turn big problems into manageable parts
- **PATTERN RECOGNITION** - They examine the small parts for similarities
- **ABSTRACTION** - They generalize across patterns to solve similar problems
- **ALGORITHMS** - They build step-by-step instructions to fit the small parts back together
- **AUTOMATION** - They determine how computing can help solve problems



A Competitive Workforce

Vibrant Communities

We all benefit when youth are Ready to Code.

LIBRARIES READY TO CODE NEED

FUNDING



- **Builds** technology infrastructure ensuring digital equity among youth
- **Extends** library capacity to connect youth to college and career pathways
- **Enables** research on the learning needs of youth for data-driven outcomes

EXPERTISE Through Partnerships



- **Assists** youth in acquiring computational thinking skills through coding
- **Expands** equitable access to youth from diverse backgrounds to explore computer science opportunities
- **Models** career pathways and widens youth perceptions of a successful future
- **Increases** library impact in the community

PROFESSIONAL DEVELOPMENT



- **Ensures** library staff can design youth programs that develop computational thinking among youth
- **Equips** library staff with skills essential to champion the learning needs of youth successfully
- **Empowers** library staff to solidify their role as informal learning partner and champion in the community

DATA



- **Drives** library youth initiatives that expedite local, state, and regional economic vitality
- **Stimulates** robust partnerships that deepen formal and informal learning programs for youth
- **Secures** the ongoing impact of informal learning experiences on youth and their communities
- **Supports** sustainable community development projects that address community challenges and goals

* Data used may be found at <https://code.org/promote> and <https://edu.google.com/resources/computerscience/research/>

<libraries / ready to code> is an initiative of the American Library Association in partnership with Google, Inc. It focuses on the role of school and public libraries in providing opportunities for the nation's youth to develop computational thinking skills through coding activities and other computer science education programs. For more information or to become involved visit ala.org/librariesreadytocode.

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