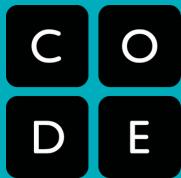




Code.org
2021
Annual Report



Letter from our Founder

In the nine years since Code.org launched, computer science has become the fastest-growing subject in primary and secondary education, globally. Over 70 countries have announced plans for computer science, and millions of teachers have begun teaching CS in their classrooms. In the US, AP Computer Science has grown 10-fold in under a decade.

In 2021, we were inspired by the connections computer science has to every facet of our lives.

From the depths of outer space to the devices in our hands, computer science impacts so many different subjects and fields. This year for Hour of Code, we saw students get inspired by how CS touches their lives, too, with more than 85,000 events across 164 countries.

With two new programs this year, we hope students continue to explore the wide world of computer science beyond Hour of Code. Our new curriculum CS Connections helps students and teachers explore the connections between computer science and traditional subjects like math, language arts, science, and social studies. With CS Journeys, students can discover what this looks like beyond the classroom by connecting with real-world computer scientists on exciting virtual field trips and classroom discussions.

In the U.S., momentum for the CS movement is happening outside of Code.org, too, thanks to the hard work and collaboration of our partners in advocacy. For the first time ever, a majority of all U.S. high schools now offer foundational computer science—up from 10% when we started this work.



Findings from our 2021 State of Computer Science Education report show how far we've come, and outline the work that needs to be done to improve access and participation for every student.

As part of our effort to address equity in CS, we began developing a first-of-its-kind curriculum for the AP Computer Science A (CSA) Java programming course with an intentional focus on increasing student access, participation, and diversity. At a time when AP CSA has extremely low representation of young women and students from underrepresented racial and ethnic groups, we believe we can reimagine how this content is taught to change the face of computing and broaden access to underserved students.

Millions of teachers and educators, our Regional Partner and International Partner networks, and hundreds of other partner organizations have helped this movement grow. Yet there is still a long way to go to reach universal access and balanced representation. We are thankful to every partner and supporter behind the vision that every student in every school should have the opportunity to learn computer science.



Hadi Partovi
Founder and CEO
Code.org



Mission and Strategy

Code.org® is a nonprofit dedicated to expanding access to computer science and increasing participation by women and other groups underrepresented in computer science. Our vision is that every student in every school has the opportunity to learn computer science, just like biology, chemistry, or algebra.

To support our goal, we do work across the education spectrum: designing curriculum, training teachers, partnering with school districts, helping change government policies, supporting international partners, and marketing to break stereotypes. Code.org focuses outreach efforts in urban and rural areas where getting access to computer science education is especially challenging.





Available in over 67 languages and used in 180+ countries, Code.org is the largest provider of CS curriculum globally, and our courses are recommended by 99% of surveyed teachers. Designed to be accessible and engaging for students of all levels, Code.org courses span a K-12 computer science pathway.

Code.org offers teachers in most areas hands-on workshops and online support at no charge. We prepare teachers from all backgrounds to teach computer science, with thousands attending our workshops every month. Code.org professional learning programs also include sessions on how to recruit without bias and create positive, accessible classroom environments.

Supporting the grassroots movement led by teachers, Code.org works with state and district policymakers to include computer science as a fundamental part of the K-12 education system.





Values



We believe in the power of a collaborative education community



We believe Computer Science is foundational for all students



We are agile and responsive to feedback



We believe broad impact requires thinking big and acting holistically



We are committed to equity, access, and opportunity



We act with integrity and transparency

2021 Highlights

★ We helped students make cross-curricular connections to CS

To help students make meaningful connections between CS and other disciplines — and to help teachers from a variety of backgrounds more easily begin teaching the subject — we introduced a new set of cross-curricular modules, projects, and lessons called [Computer Science \(CS\) Connections](#). This curriculum allows students to learn computer science concepts at the same time as learning other subjects like language arts, math, and science.

Coming out of a pandemic, this allowed students to see a real-world future in programming and [impacted] students of the next generation. They loved it and made huge connections — even as K-12 students.

— Elementary school teacher, Virginia

★ We celebrated 2 million teachers on Code.org

In 2021, we celebrated 2 million teachers with accounts on Code.org! To every teacher who has taught a Code.org course, hosted an Hour of Code, taken a Professional Development workshop, or been a champion of CS at their school, we say thank you!



We began developing an AP CSA curriculum with equity at its core

To continue closing gaps in access and participation, Code.org and Amazon developed a [first-of-its-kind approach for the AP Computer Science A \(CSA\) Java programming curriculum](#) to empower every student, regardless of their background, to envision themselves using computer science to bring their dreams to life.

The curriculum considers cultural references and learning styles in every facet. That includes vocabulary, visuals, and the sequence of concepts taught, using strategies from Culturally Responsive Teaching pedagogy. Leaders from the technology industry, academia, and state governments are participating in unique advisory councils by providing us with valuable insights to help us understand how to prepare all students for continuing pathways in computer science.

We showed students CS in the real world

We're excited to help bring computer science lessons to life for students of all ages. [CS Journeys](#) is a program designed to help students explore how CS impacts their world and to help them envision their own future possibilities.

From virtual field trips with NASA and live class chats with Star Wars creators, students are encouraged to uncover CS in unexpected places. We hope these unique experiences will inspire students to continue their CS journey, both in the classroom and beyond.



We outlined ambitious goals to transform global CS education

We envision a world where computer science is a fundamental part of the education system, and we plan to grow in order to pursue strategies to unlock this potential. For a close look at our goals in closing gaps and increasing opportunity, you can review the ambitious [2025 goals](#) we've detailed and how we determined those goals. In light of the COVID-19 setback to the global education system, the goals we set in 2020 are likely too ambitious. Our Board of directors will discuss whether we revise the timeline for these goals. We want goals that are aspirational and achievable. We've also identified a number of large-scale, multiyear projects that would enable Code.org to reach an even greater scale in making CS a standard in education globally. Read about them in our [Big Bets in Computer Science Education](#) summary.

We called on President Biden and Congress to fund computer science in schools

Support for computer science is bipartisan. Both the Obama and Trump administrations supported CS, and the Biden White House has [signaled that CS will be a priority](#) in its education plans. Fortunately, the U.S. Senate has for the first time agreed to authorize funding for computer science in new legislation (USICA, section 6112), but this needs the full support of Congress.



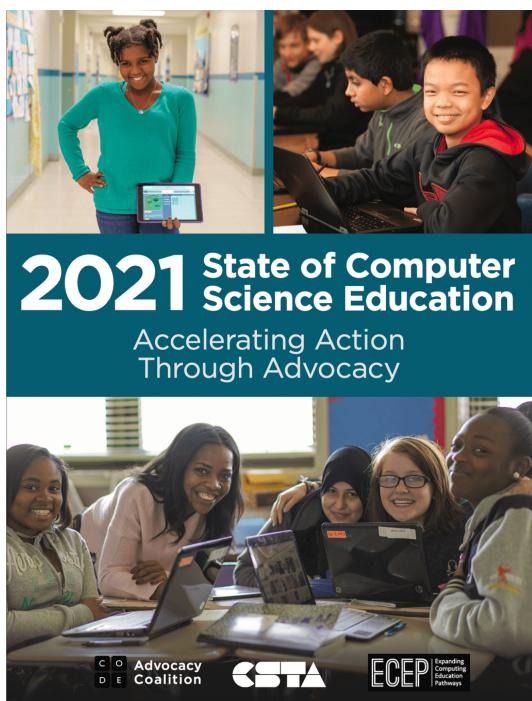
From 2014: Vice President Joe Biden during the Hour of Code event in the Eisenhower Executive Office Building, in Washington, D.C. (Photo: Official White House Photo by David Lienemann)



This year, our founder and CEO Hadi Partovi [attended a White House summit](#) on cybersecurity to talk with leaders across the nation about the role of cybersecurity in keeping us safe. With the ever-expanding role of digital technology in our lives, cybersecurity is of utmost importance to personal safety, and even national security. To help address these issues, Code.org announced that we will redouble our efforts to teach cybersecurity concepts throughout our classrooms to help ensure that every student, in every school, learns the basic concepts of cybersecurity as part of a foundational computer science education.

We reported on foundational CS course participation by demographics and passed policy in most states

We developed and produced the 5th annual [State of Computer Science Education](#) report in partnership with the CSTA and ECEP Alliance. The report includes state policy data and Access Report data. For the first time, we reported on enrollment in foundational computer science courses overall and by demographics.



Highlights include:

- For the first time, over half of all high schools offer CS (51%)
- \$70M in CS funding for FY 2022
- All 50 states and DC now allow CS to count towards a graduation requirement
- 3 new states require all HS to offer (IL, MS, OK) and one has a grad requirement (AR)
- 31 states adopted 50 CS policies



We added new activities to our biggest CS celebration of the year in the Hour of Code

This year, students and teachers used Hour of Code to explore the relationship that computer science has with different subjects in school, different industries, and even different career paths. From seeing code pop up in unexpected places — like this [dancing Spanish class](#) — to watching [poem after poem](#) roll in from our [Poem Art activity](#), this Hour of Code was full of creative connections.

It was fun to watch students who struggle with other aspects of school really shine when doing the Hour of Code!

— Elementary school teacher, Georgia

Hour of Code 2021 was a rousing success, with more than 85,000 events registered across 164 countries!

We saw large growth in international usage on our platform

Last year was the first time in Code.org history there were more new accounts created from outside the U.S. In 2021, 70% of all new teacher accounts were created outside of the U.S. Non-U.S. usage of Code.org-created Hour of Code tutorials was 62% of total use.



C O
D E

We achieved milestones in our localization work and continued to drive systemic change

We hit our goal of translating our primary education content into 30 languages leading to large increases in CS Fundamentals usage (especially in South Korea, Japan, Poland, France, and Brazil).

In 2021, Code.org contributed to and helped launch [the global CS report created by the Brookings Institute](#), which validated that 70 countries already teach CS in primary, secondary, or both. We also worked with the Inter-American Development Bank to author an assessment of CS education in seven Caribbean countries, which will result in a two-country pilot and recommendations for ministries of education to adopt CS.

We saw excitement and advocacy for CS in campaigns across the world

In 2021, we [launched a video](#) where the President of the Spanish government Pedro Sánchez Pérez-Castejón, and four living former Spanish Presidents called for CS to be taught in all schools and to all students in Spain.



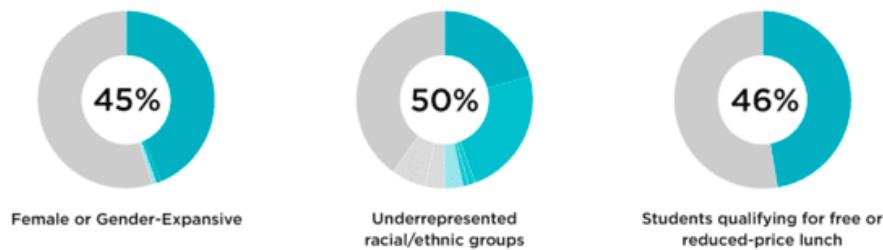
Four former Spanish Presidents share their support for Code.org.

In early 2021, the Ministry of Education of Saudi Arabia—in collaboration with Microsoft and Code.org— attracted a record 3.5 million students (more than 50% of all K12 students in the country) to a coding challenge known as “My School is Programming” or “Madrasati Codes.” Over half of the students enrolled in the kingdom’s 24,000 primary and secondary schools participated in the competition with girls representing 61% of the participants.



Code.org by the Numbers

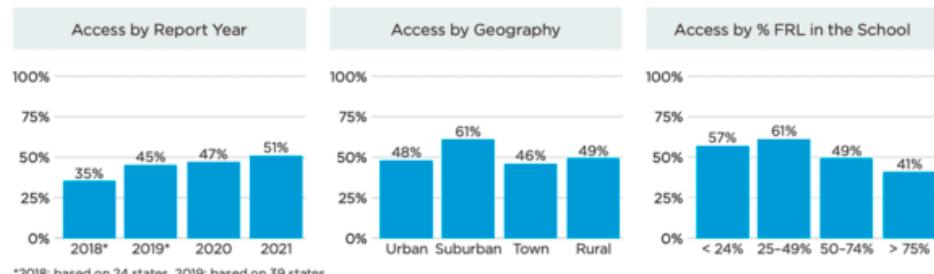
Addressing diversity and equity issues is core to Code.org's work, and is woven throughout our programs – from curriculum to teacher professional learning to advocacy to marketing. We focus not only on gender and socioeconomic diversity, but also on increasing participation among students from underrepresented racial and ethnic groups: Black, Hispanic/Latinx, Native American, and Pacific Islander.



Source: Code.org participation data from the 2020-2021 school year.

[See fully disaggregated data here.](#)

Percentage of Public High Schools Offering Foundational Computer Science



*2018: based on 24 states, 2019: based on 39 states

Schools, states, countries	2021
US High Schools teaching CS (Data from the Access Report) 2025 Goal: 80% of all HS teach CS	51%
US Students passing the AP CS exams 2025 Goal: 350,000	181,075



Schools, states, countries	2021
States that have established an “all schools must offer CS” policy OR a state CS plans + CS funding 2025 Goal: 50	31
70 countries have established plans for CS 2025 Goal: 70	73

Code.org Platform	
Student accounts [all-time] on Code.org 2025 Goal: 100M	67,890,982
% of accounts from female students 2025 Goal: 70	46.1%

International	
Student accounts [all-time] on Code.org from outside the US 2025 Goal: 60M	26,057,894



CS Principles

Students that have started Code.org CS Principles course in the academic year 2025 Goal: 400k	231,352
Female students that have started Code.org CS Principles course in the academic year 2025 Goal: 160k (40%)	34.4%
Students from underrepresented racial and ethnic groups* that have started Code.org CS Principles course in the academic year 2025 Goal: 172k (43%)	41.9%

CS Discoveries

Students that have started Code.org CS Discoveries course in the academic year 2025 Goal: 2M	788,337
Female students that have started Code.org CS Discoveries course in the academic year 2025 Goal: 900K (45%)	41.4%
Students from underrepresented racial and ethnic groups* that have started Code.org CS Discoveries course in the academic year 2025 Goal: 900K (45%)	48%

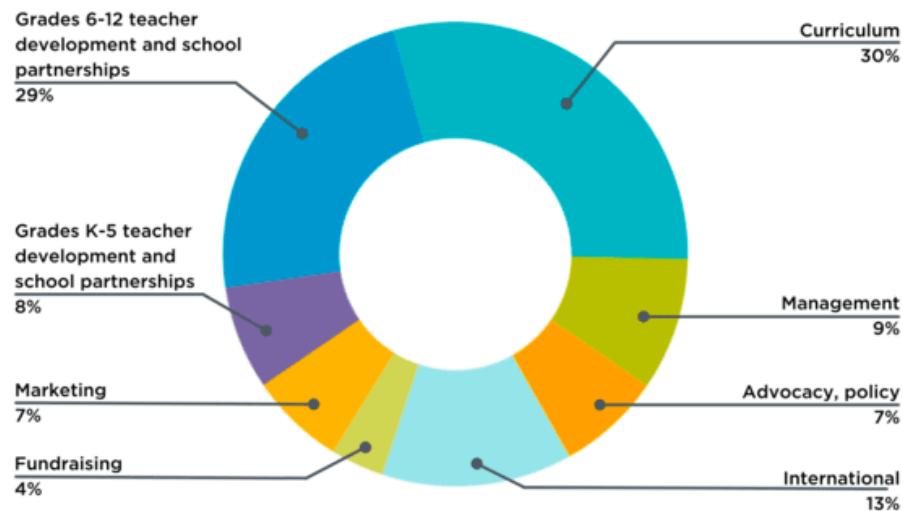
CS Fundamentals

US Students that have started Code.org CS Fundamentals course in the academic year 2025 Goal: 5M	4,000,309
US Female students that have started Code.org CS Fundamentals course in the academic year 2025 Goal: 50%	46.1%



Finances

For calendar year 2021 our total expenses were approximately \$23M. The chart below paints a general picture of how this money was spent.



The table below shows the total cost breakdown of our headline achievements since founding.

Areas of effort / Achievements in 2013 - 2021	Fully-loaded cost (including admin)
Diversity and Global Marketing: Hour of Code campaign, 1.3 billion served, reaching 20% of students globally. 48% female participation.	\$17.9 million
Curriculum + Code Studio learning platform: ~330 hours of coursework created, 2M teacher accounts. 67 million student accounts. 45% female, 50% underrepresented racial/ethnic groups.	\$43.4 million

Areas of effort / Achievements in 2013 - 2021	Fully-loaded cost (including admin)
Partnership + professional learning: 56 regional partners and 522 facilitators who have prepared over 113,000 new CS teachers across grades K-12. (\$16.1M spent on grades K-5, \$44.7M on grades 6-12.)	\$74.7 million
Government affairs: Policies changed in 50 states, \$241M in state budgets allocated to computer science.	\$12.8 million
International: Translation of CSF curriculum into 30 languages, Hour of Code activities in 67 languages, and support for 110 international partnerships.	\$8.7 million
Total spent (2013-2021)	\$157.5 million

Our Generous Donors

Code.org® is dedicated to the vision that every student in every school should have the opportunity to learn computer science. We are supported by a dynamic community of corporate, institutional, and individual donors. Code.org is a public 501(c)(3) non-profit organization. All charitable contributions to Code.org are tax-deductible to the extent permitted by law.

Code.org gratefully acknowledges the following supporters who have made generous commitments of \$1,000 and above to support Code.org's fiscal year 2021 (January 1, 2021 - December 31, 2021). For more information or to learn how to partner with Code.org, please contact the Office of Development at giving@code.org or (206) 593-5521.

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- Tableau Software
- Trello

