

**STATE BOARD OF EDUCATION**  
**Presentation**  
January 21, 2014

**SUBJECT:** Code.org

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**PROPOSED BOARD ACTION**

N/A

**AUTHORITY FOR STATE BOARD ACTION**

N/A

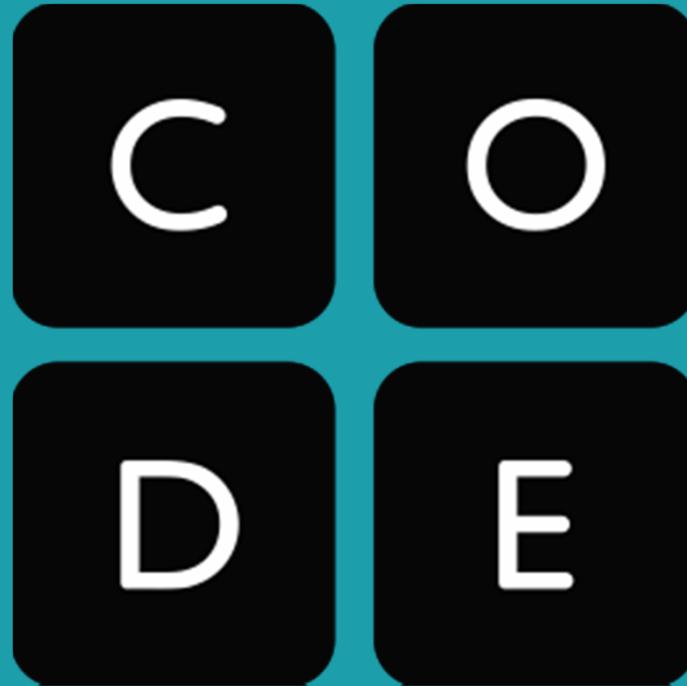
**EXECUTIVE SUMMARY**

An overview of Code.org will be provided by Hadi Partovi, Co-Founder/CEO.

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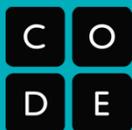
**Supporting Documentation Included:** N/A

**Presenter:** Hadi Partovi, Co-Founder/CEO



@codeorg

#hourofcode



## Founding Donors

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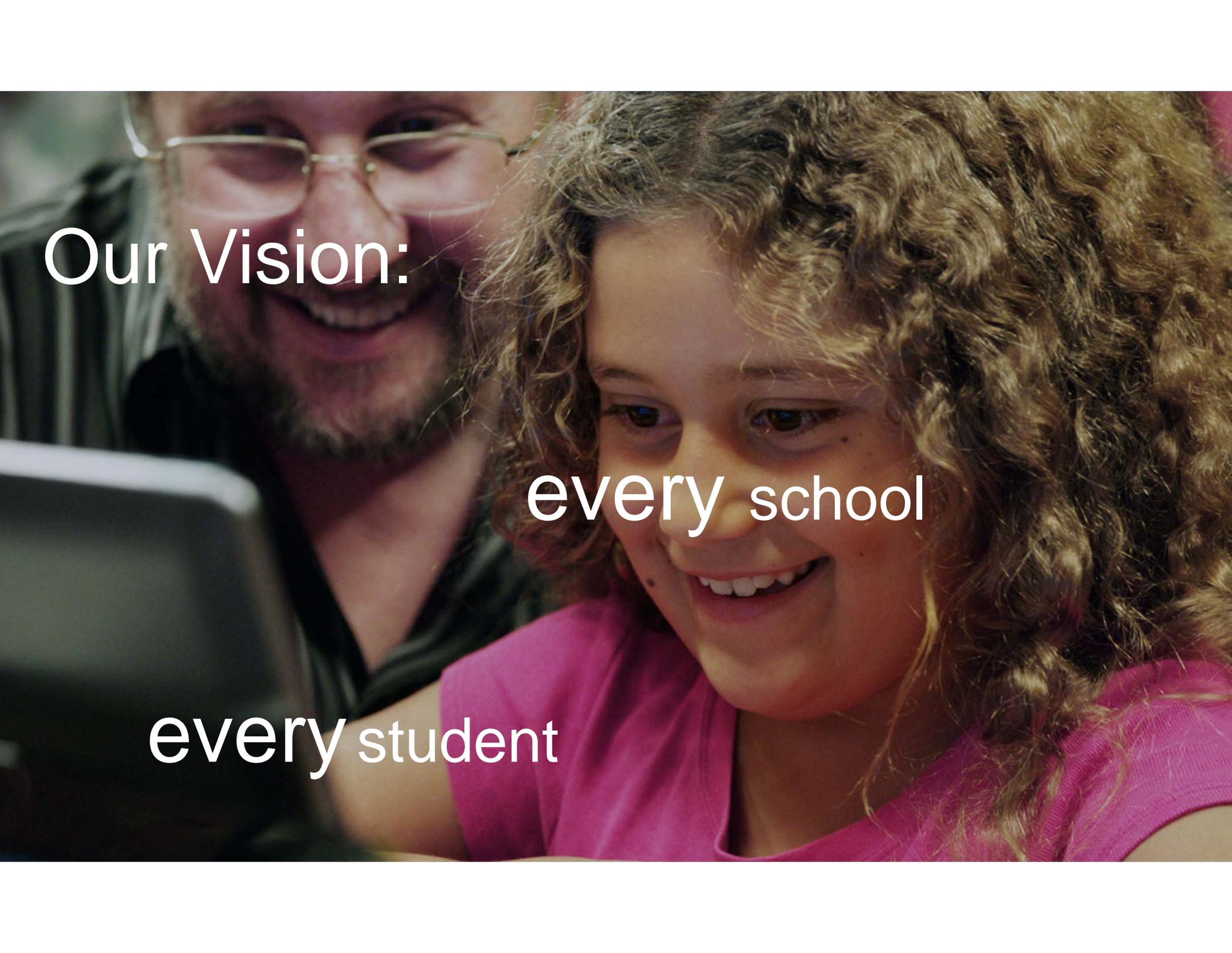
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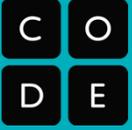
ALLEN & COMPANY LLC

A close-up photograph of a man with glasses and a beard, smiling as he looks at a laptop screen. In the foreground, a young girl with curly hair is also smiling, looking towards the screen. The image has a warm, slightly soft focus.

Our Vision:

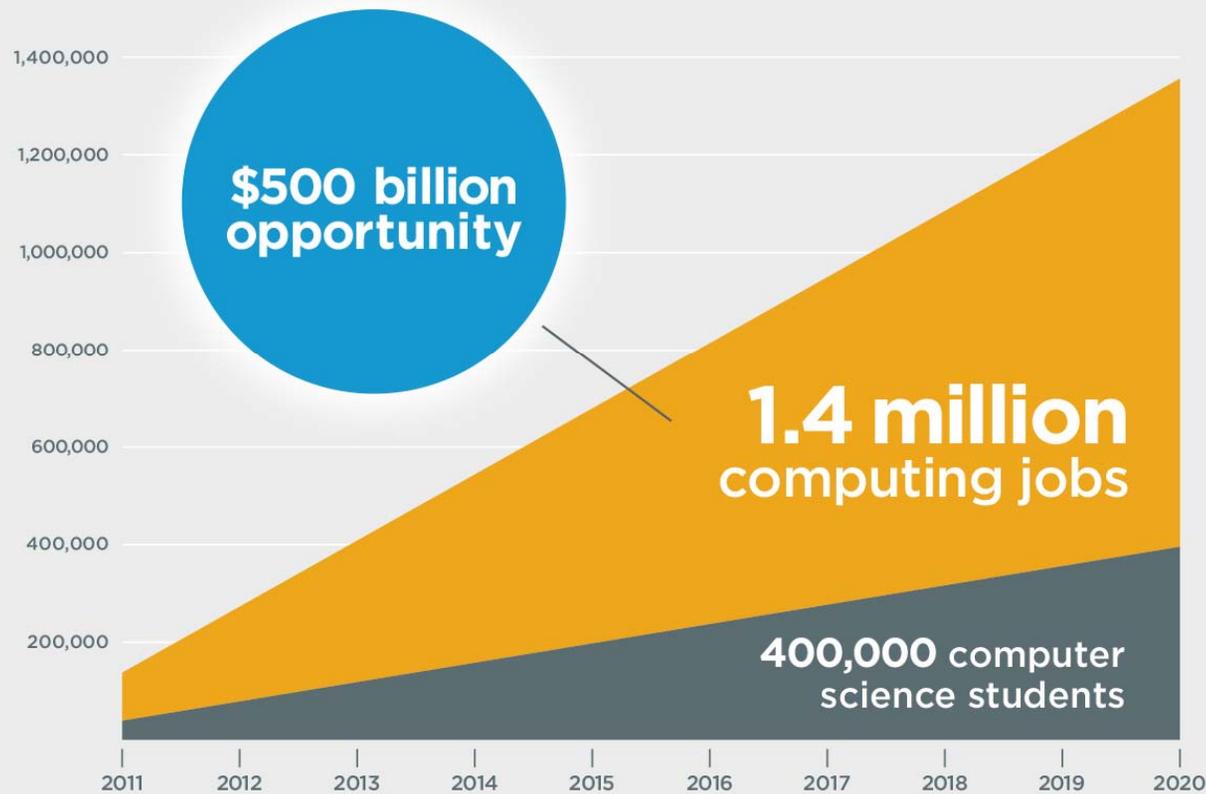
every school

every student



# What is computer science?

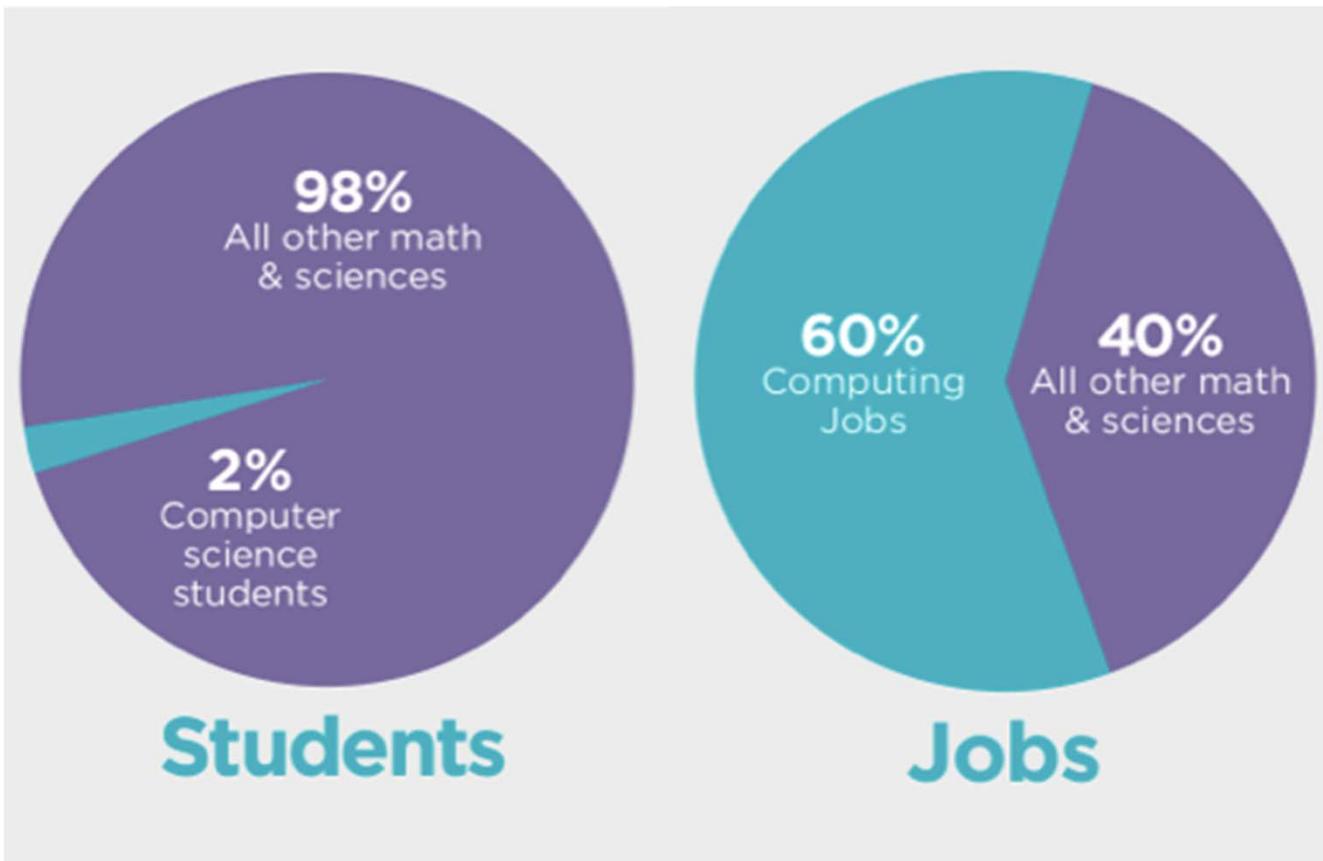
## 1,000,000 more jobs than students by 2020



These jobs are in **every** state, in **every** industry.

Only 1/3 of these jobs are at tech companies. The rest are in banking, manufacturing, government, retail, etc

The most important thing to remember from today:

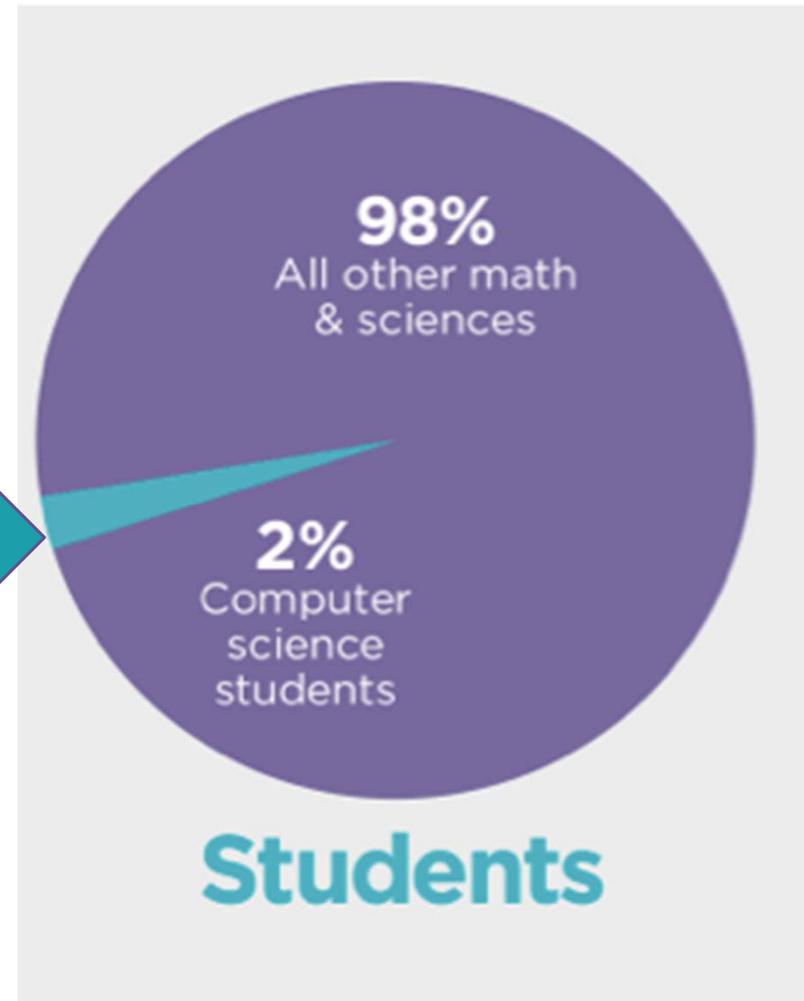


Why are there so few students in computer science?

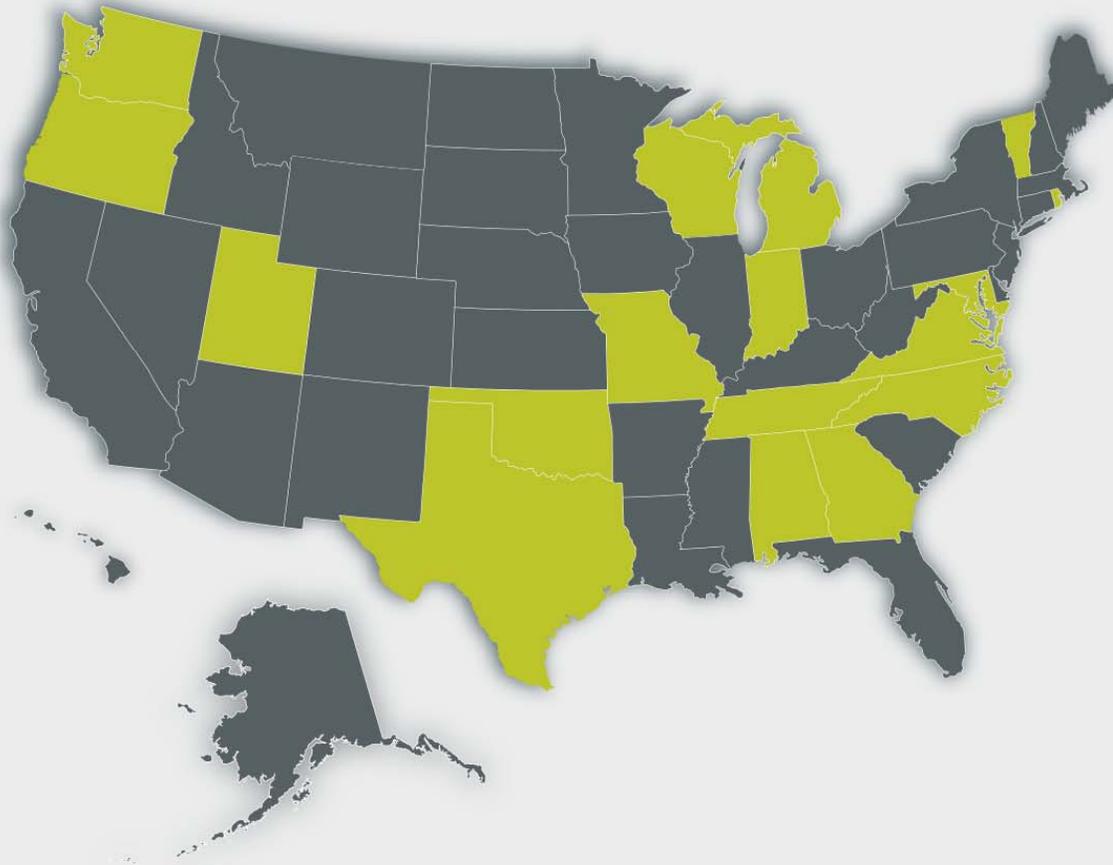
**Because 90% of schools don't even teach it!!**

Of this tiny sliver,  
only 15% are  
women.

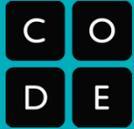
Only 8% are  
Hispanic Americans  
or African  
Americans.



## Computer science in America



in 33 of 50 states,  
computer science  
**doesn't even  
count towards  
high school  
graduation math  
or science  
requirements.**



# Computer Science in FL

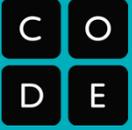
20,384 open computing jobs (growing 3.6x state average)

1,833 computer science graduates (BA or better)

125 schools teach computer science (K-12)

1,521 students took AP Computer Science in 2013.

306 were girls. 83 African American. 269 Hispanic American



Can our students learn this?  
Can our teachers teach it?

(Why not focus on basic math which  
we're already failing at?)

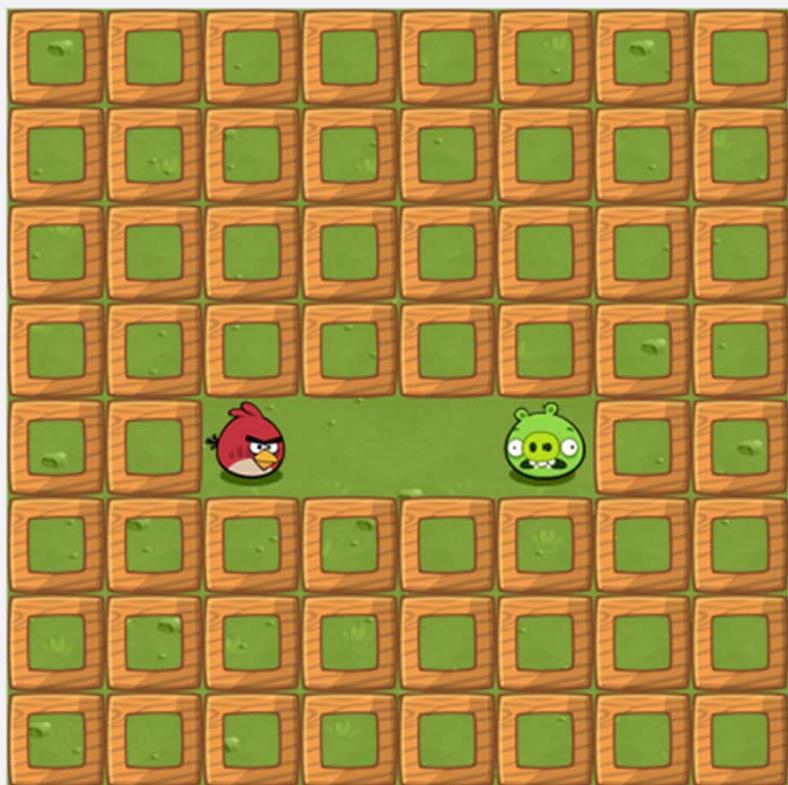


Puzzle

2

20

I've finished my Hour of Code



▶ Run Program



This pig is ruffling my feathers. Help me to find him!

**Need help?** See these videos and hints

Blocks

Assemble your blocks here: 3 / 3

move forward

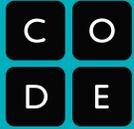
turn left ↶

turn right ↷

move forward

move forward

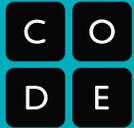
move forward



# The Hour of Code 2013

Kicked off by President Obama, House Majority Leader Eric Cantor, Senator Cory Booker, and Newt Gingrich

- 20 million students participated, worldwide
- 17 million in the USA
- 1 of every 4 K-12 students in US schools
- Half were girls
- Broward County was the largest participant

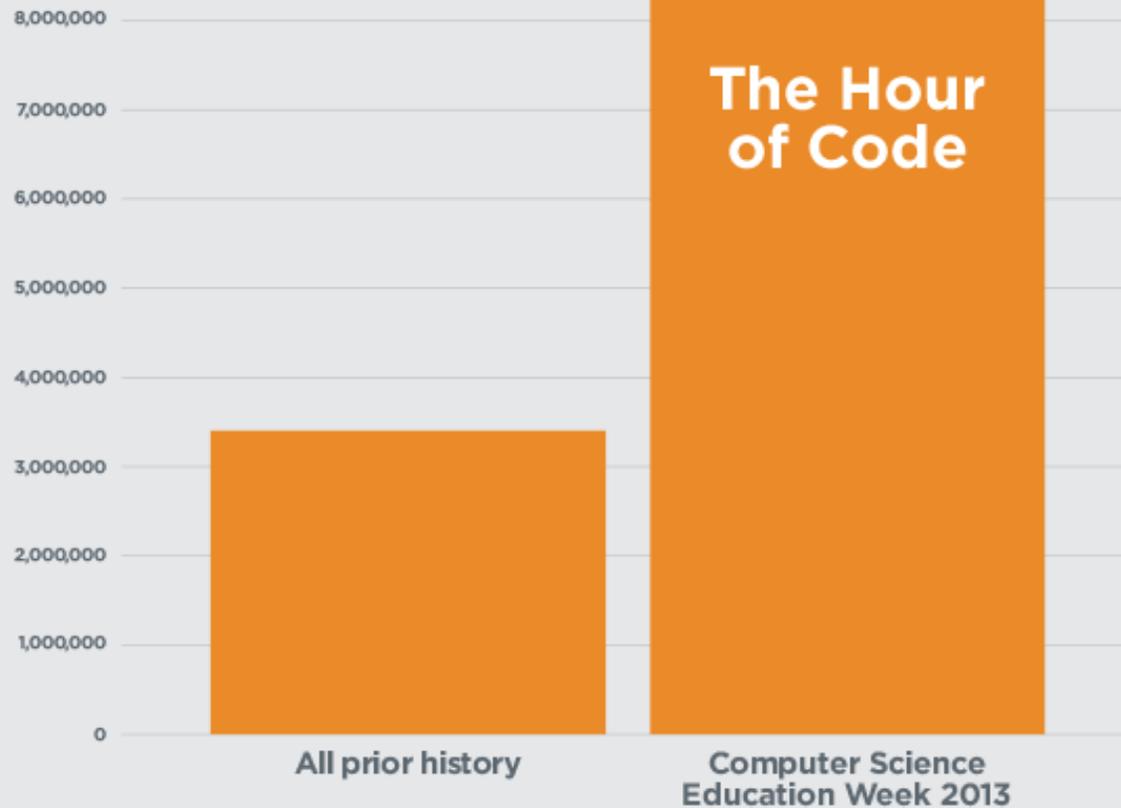


# To put this into context:

Program	Students
College Board AP Computer Science exam	32,000
College Board AP Calculus	256,000
US First Robotics clubs	350,000
College Board – ALL STEM categories	1,280,000
Math SAT exam	1,700,000
Hour of Code (US participants)	17,000,000

# In 7 days...

#HourOfCode



**More students tried computer science in US schools in one week than in all prior history.**



**Michael Christopher** @mickchristopher

2m

Thank you @codeorg - my 6.5 yr old completed an hour and asked,

“Best educational product I’ve ever come across” – Marc Bodnick, parent

HourOfCode

More



**Ms. Shannon Houghton** @MsHoughton

22s

My kids are hugging each other as they pass each level on their

ere talking their problems out

“I have NEVER, EVER seen my students so excited about learning” – Michael Clark, teacher



enthusiastic "YES!" Thanks @codeorg for making a lasting mark

org code.org/sharecertifica... Everyone should have a



**Matt Gibson** @gibson

Yesterday my 7 yr old check out code.org"



**Heather Schrader Tenney**

I need to say thank you. My nine year old struggles with math and reading because of dyslexia. She thinks she isn't smart, no matter what we tell her or her teachers tell her. During the hour of code, she was sure she'd fail. But she didn't! She not only flew through the first hour, she has chosen to continue on and do your K-8 program-- and is LOVING it! She is learning sequencing, if/then and other fantastic concepts that kids with visual processing issues often struggle with. From the bottom of my heart, thank you!

Like · Comment · January 9 at 8:04am near Florence, KY



**Thomas O'Brien**

#HourOfCode was the challenge. Ea



**Deb Puchalla** @deb

My boys' latest fix: pic.twitter.com/LAj4

ary! Kids

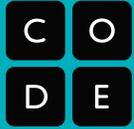
learning basic

Favorite More

s just say the

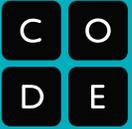
HourOfCode





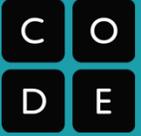
# Expanding CS in Florida

- Partnership with Broward County School District
  - 25 High Schools, 25 Middle Schools in pilot
- Our Program
  - K-8
    - K-2 and 3-5 blended learning 20-hour lesson sets
    - Middle School courses aligned to Common Core Math and Next Generation Science Standards
  - 9-12
    - Exploring Computer Science
    - AP Computer Science Principles\*
- All teacher stipends paid by Code.org



# What can Florida do?

- Make CS count toward core HS graduation credits
  - In 2013, AL, MD, TN, WA & WI changed policy to make it count
- Clarify CS curriculum standards
- Implement clear certification pathways for CS teachers
- Allocate appropriate funding for rigorous CS courses
- Establish position in FL DOE to oversee CS & support districts



Thank you