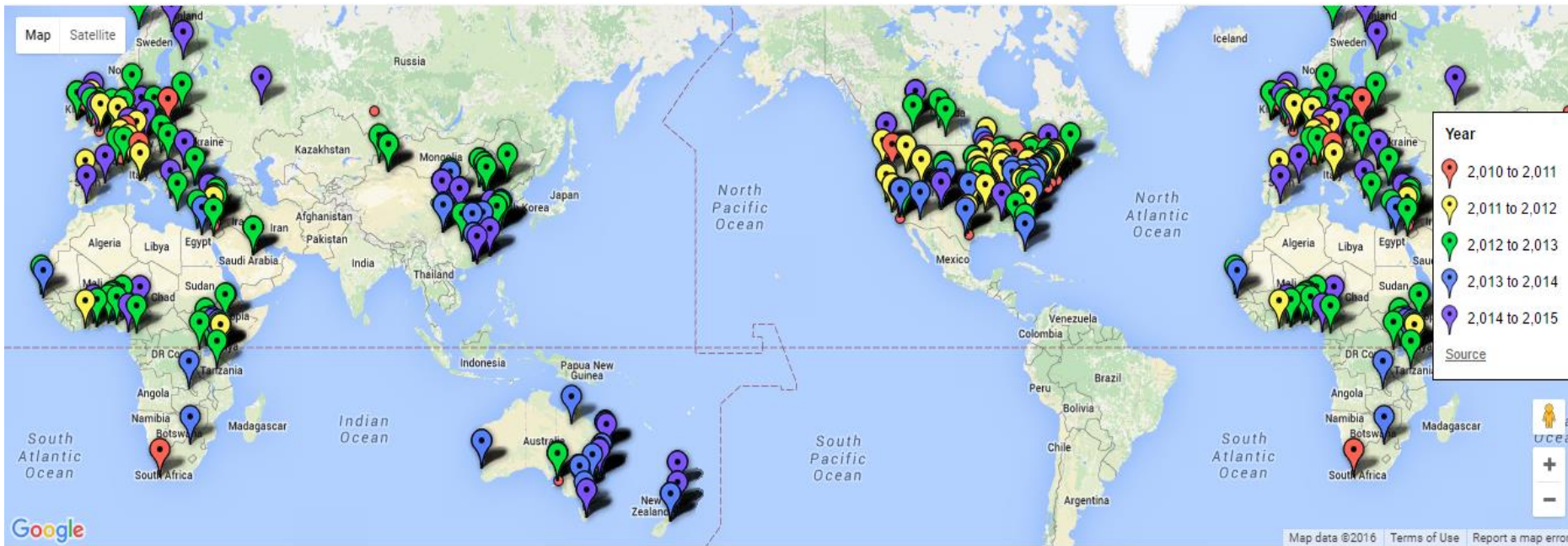


CS4HS Introduction and Resources for Teachers

June 27, 2017

<https://cs4hs.buffalostate.edu/>

Diane Dillon
dillond@buffalostate.edu



Source: <http://cs4hs.com/past-programs/>

Google is committed to supporting professional development of teachers through CS4HS

Google has provided a Welcome Kit for each participant

Global Impact since 2009

- 40,000+ Teachers
- 40 Countries
- 1,000,000+ Students

Source: <https://www.cs4hs.com/index.html> May 2017

- Began in 2012
- First Student Competition, 2013
- 25 - 30 new teachers participate annually
- Our Shared Success
 - 130+ teachers
 - 50+ Secondary Schools from WNY



Source: <https://www.cs4hs.com/index.html> May 2017

Computer Science is Changing EVERYTHING
Agriculture Fashion Medicine Meteorology
Art Entertainment Social Media

<https://www.youtube.com/watch?v=QvyTEx1wyOY>

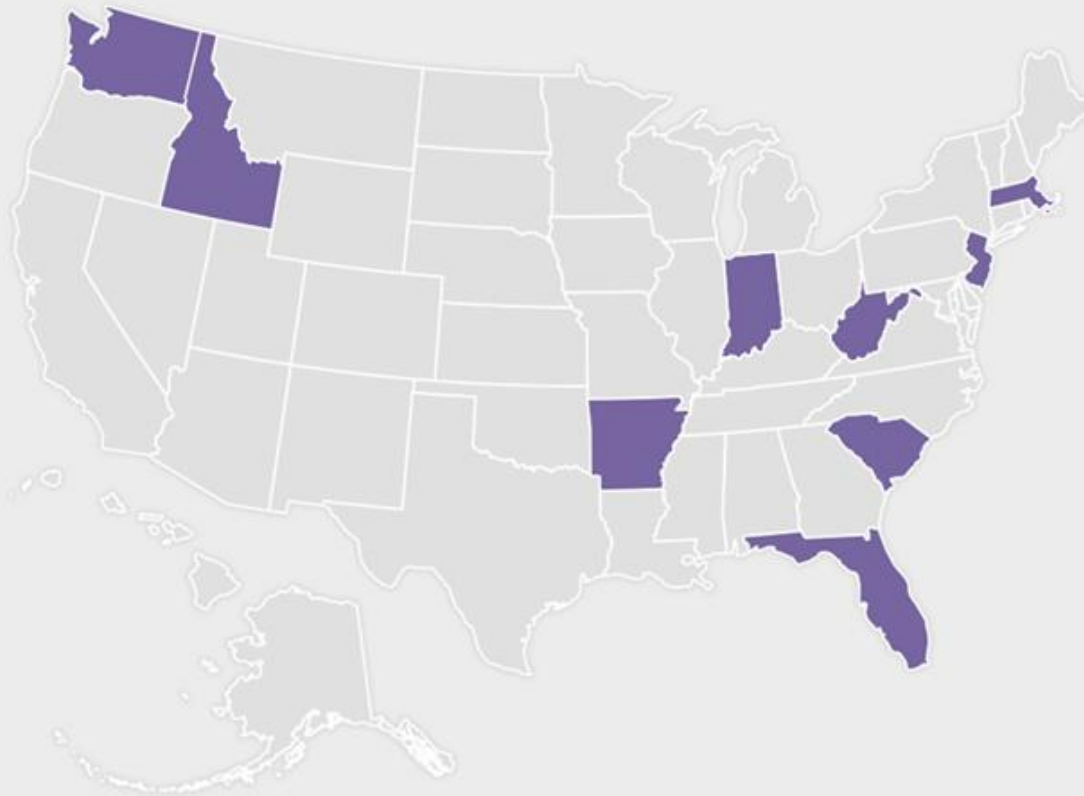
Great video presented by code.org

5:35 minutes

Source: code.org/promote, May 2016

Computer Science Standards By State

The state of K-12 computer science standards

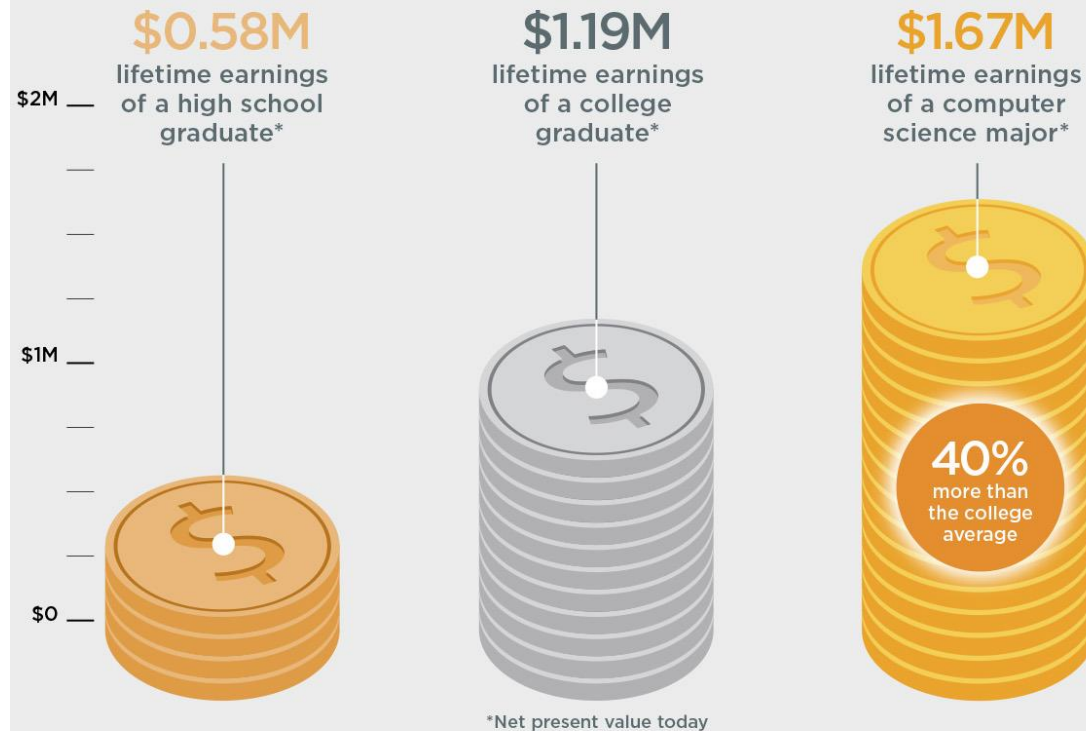


Only 9 states have created K-12 computer standards. Momentum is building, but we still have a long way to go.

-  States with K-12 CS standards
-  States without K-12 CS standards

Source: code.org June 2017

The value of a computer science education



A computer science major can earn 40% more than the college average.

Source: code.org/promote, May 2016

Interactive Map Statistics for each state

<https://code.org/promote>



A few words from familiar visionaries

- <https://www.youtube.com/watch?v=nKlu9yen5nc>

5:44 minutes

Google's CS-First

- Introduces Computer Science to students
- 4600+ Schools participate
- Promotes Computer Clubs
- Many activities provided
- Clubs and activities can be theme based
 - <https://www.cs-first.com/en/home>

- Short, hour long activities
- Good for special events
 - Hour of Code
 - CS Education Week
 - Dec 4 – 10, 2017
- Make it a party atmosphere
 - Include families
 - Showcase themes
 - Partner with PTA activities



- Non-profit dedicated to expanding CS and to increase participation by women and minorities
- Organize Hour of Code campaign worldwide
- Provide leading curriculum for K-12 Computer Science students
- Generous donations from Microsoft, Facebook, Infosys, Google, Omidyar Network and many more

Vision: “Every student in every school should have the opportunity to learn computer science.”

Source: code.org/promote, May 2016

- code.org



Source: code.org/promote, June 2017

- Opportunities for all ages
- 180+ Countries Participate
- 45 Languages Supported

<https://hourofcode.com/us/learn>

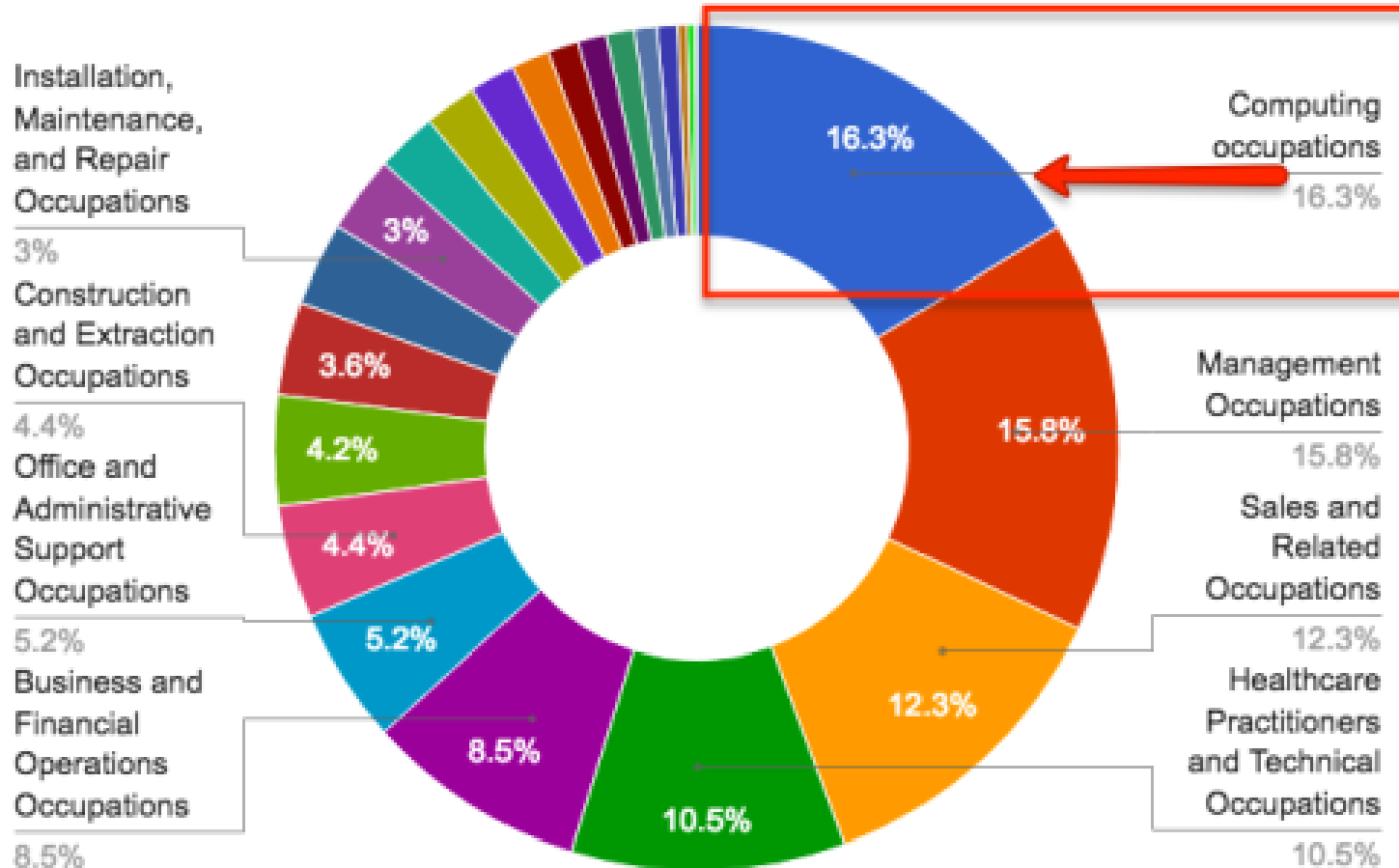
Resources are Endless

Video Library from Code.org

<https://code.org/educate/resources/videos>

Source: code.org/promote, May 2016

Largest Category of New Wages in the US



Source: code.org/promote, May 2016

Tour of Google's South Carolina Data Center

Hosted by Google's Vice President of Data Centers

[https://www.youtube.com/watch?v=XZmGGA
bHqa0](https://www.youtube.com/watch?v=XZmGGA
bHqa0)

5:25 Minutes

- Complete Training
- Start Computer Clubs
- CS4ALL WNY Conference
 - Friday, October 13, 2017 at SUNY Buffalo State
- CS Education Week Activities
 - Dec. 4 – 10, 2017
- CS4HS Spring Reunion
 - March 2018, 9am – Noon, email invite to follow

- Showcase and Competition May 19, 2018 at SUNY Buffalo State
 - Includes \$125 Monetary Honorarium for each participating teacher



Every activity and all resources
presented are FREE!



Thank You!