

Hour of Code: Coding @Your Library

Daniel Cornwall, Alaska State Library



Claudia Haines, Homer Public Library

November 6, 2015

Agenda

- Hour of Code Overview – Daniel
- Hour of Code at Homer Public Library – Claudia
- Tools for Hour of Code – Claudia
- Q&A – Claudia and Daniel

Hour of Code: What is It?

- An educational event in December focusing on computer programming for ages 4-104.
 - Why December? Admiral Grace Hopper
- A set of tutorials at <http://code.org/learn>
- Something that can be done any time
- Maybe a bridge builder to teachers, students and community



James S. Davis - U.S. Naval Historical Center
Online Library Photograph NH 96919-KN
(jpg)



Code with Anna and Elsa

Code.org

Let's use code to join Anna and Elsa as they explore the magic and beauty of ice. You will create snowflakes and patterns as you ice-skate and make a winter wonderland that you can then share with your friends!

Ages 8+ | Modern browsers + tablets

5,589,833 participants

<http://hourofcode.com/frzn>

Teachers: [Read important educator notes here](#)

Go

Tutorials for Beginners



Write your first computer program

Code.org

Learn the basic concepts of Computer Science with drag and drop programming. This is a game-like, self-directed tutorial starring video lectures by Bill Gates, Mark Zuckerberg, Angry Birds and Plants vs. Zombies. Learn repeat-loops, conditionals, and basic algorithms. Available in 34 languages.

Ages 4-104 | Modern browsers, smartphones, tablets

26,390,847 participants

Teacher's Notes

<http://hourofcode.com/code>



Go

Tutorials that teach JavaScript



```
1 noStroke();
2 background(111, 111, 200);
3
4 fill(237, 237, 250);
5 ellipse(100,100,215,210);
6 fill(111, 111, 200);
7 ellipse(110,200,75,65);
8 fill(237, 237, 250);
9 rect(0,100,400,200);
10
11 fill(111, 54, 100);
12 ellipse(250, 220, 150
13
14
15
16
17
18
19
20
21
```

An introduction to JavaScript

KhanAcademy

Learn the basics of JavaScript programming while creating fun drawings with your code. Do it on your own or with your class!

Middle school + | Modern web browsers

3,109,653 participants

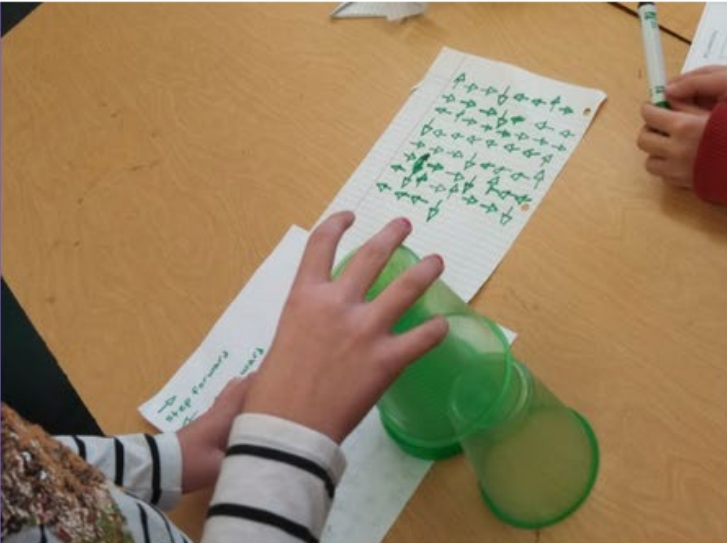
Teacher's Notes

<http://hourofcode.com/kh>

Go



No device or internet? Try 'unplugged' computer science



My Robotic Friends

Thinkersmith

Using a pre-defined "Robot Vocabulary" students will figure out how to guide each other to accomplish specific tasks without discussing them first. This lesson teaches children the connection between symbols and actions, as well as the invaluable skill of debugging. "My Robotic Friends" works best as a group activity and includes a teacher workbook for classroom use.

All ages | Unplugged

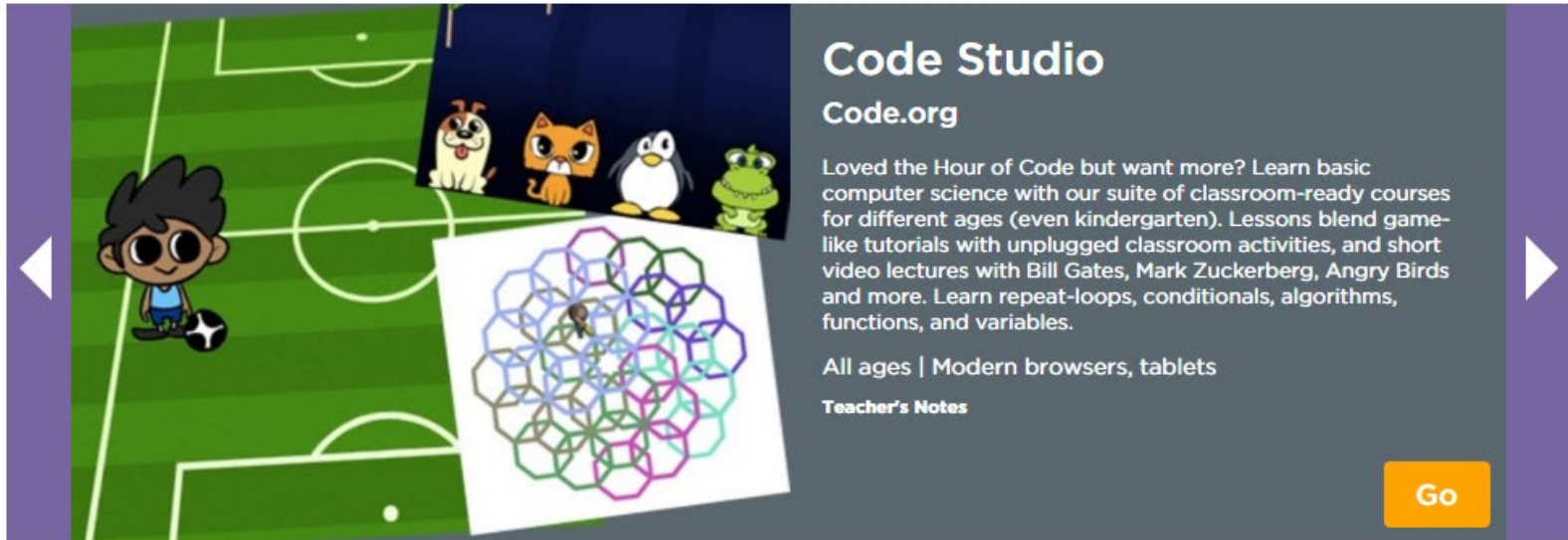
275,799 participants

<http://hourofcode.com/ts>

Go



Tutorials for Beginners

A banner for Code Studio featuring a cartoon boy on a soccer field, a row of four animals (dog, cat, penguin, frog), and a colorful geometric pattern. Navigation arrows are on the left and right sides.

Code Studio

Code.org

Loved the Hour of Code but want more? Learn basic computer science with our suite of classroom-ready courses for different ages (even kindergarten). Lessons blend game-like tutorials with unplugged classroom activities, and short video lectures with Bill Gates, Mark Zuckerberg, Angry Birds and more. Learn repeat-loops, conditionals, algorithms, functions, and variables.

All ages | Modern browsers, tablets

Teacher's Notes

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Tutorials that teach JavaScript

A banner for Khan Academy's JavaScript tutorial. It features a code editor window with JavaScript code, a tablet, a penguin, and a yellow bear character. Navigation arrows are on the left and right sides.

Learn computer programming

Khan Academy

Learn the basics of JavaScript programming while creating fun drawings with your code. Do it on your own or with your class!

Middle school + | Modern Web browsers

Teacher's Notes

Go

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Hour of Code: How Big is It?

77,461 Hour of Code events around the world

15,000,000 people took part in Hour of Code 2014.

See all events

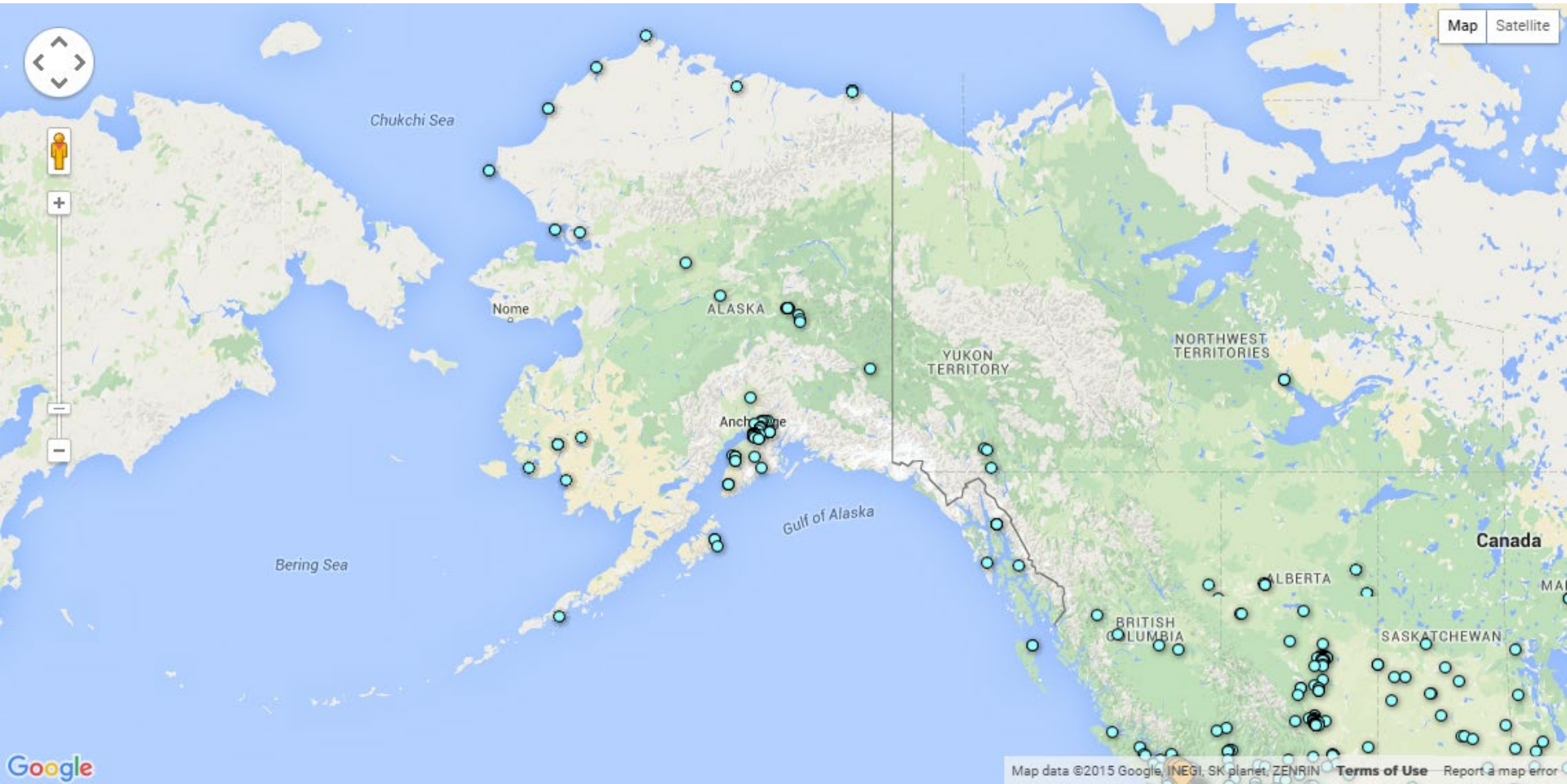
Search for Hour of Code events

Search

Reset



Hour of Code: How Big is It in Alaska?

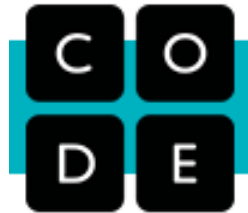


Hour of Code: Who's Behind It?

amazon.com



CollegeBoard



KHAN
ACADEMY



GREAT!
SCHOOLS



LIVE
CODE

And MANY,
MANY, More!