

Introducing Coding to Your Library

OLA 2018

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Overview

- Introduction
- Access content at about.me/katlin
- [Introductory Video](#)
- Oklahoma Computer Science Standards
- Hands-on Activity
- Computational Thinking
- Resources
- Tips for Success

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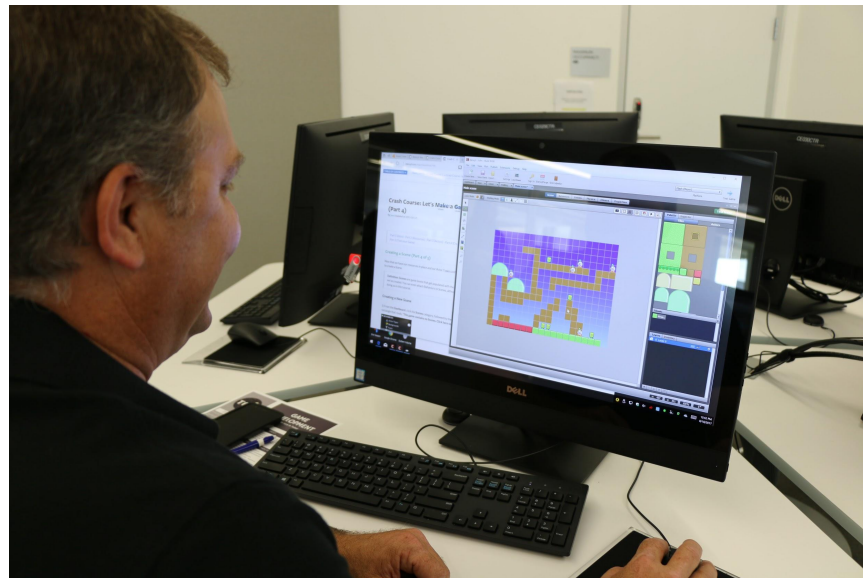


Introduction



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Oklahoma Computer Science Standards

Oklahoma State Board of Education approved new CS Standards that will be implemented for the 2018-2019 school year.

Access them here: <http://sde.ok.gov/sde/computer-science-standards>

Hands-on Activity: Instructions

Small sheet - color in squares to create a design

Large sheet - write instructions for your partner to follow to duplicate your design using the following symbols:

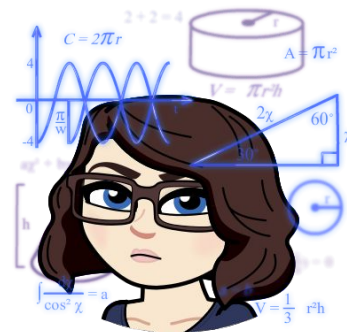


What is computational thinking?

“**Computational Thinking (CT)** is a problem solving process that includes a number of characteristics and dispositions. CT is essential to the development of computer applications, but it can also be used to support problem solving across all disciplines, including the humanities, math, and science.”

What is computational thinking?

1. Decomposition
2. Pattern Recognition
3. Abstraction
4. Algorithm Design



Learn more at <https://computationalthinkingcourse.withgoogle.com/>

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I have some good news for you!

You don't have to be a
coder to teach coding.

[@iamliterate](https://about.me/katlin)

I have some good news for you!

You don't have to reinvent
the wheel.

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Resources

- Unplugged
- Coding Activities
- Game Development
- Coding Workshops

For an extensive list of resources, access notes at about.me/katlin

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#codingunplugged

- CSUnplugged.com
- Code.org/Learn
- [#codingunplugged](https://twitter.com/codingunplugged) on Twitter

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Coding Activities

- [Code.org/Learn](https://code.org/learn)
- [Mozilla Learning Network](https://mozillalearningnetwork.org/)
- Code Academy
- [District Dispatch](https://districtdispatch.org/) and Libraries Ready to Code

Code.org/Learn Hour of Code

More resources	🔗 Teacher notes
Short link	https://hourofcode.com/mchoc
Student experience	Beginner
Classroom technology	All modern browsers, Android tablet, iPad, Android phone, iPhone
Topics	Computer Science only
Activity type	Self-led tutorial
Length	One hour, One hour with follow-on
Languages	English, Arabic, Bulgarian, Chinese, Croatian, Danish, Dutch, Finnish, French, German, Greek, Icelandic, Indonesian, Italian, Japanese, Korean, Norwegian, Persian, Polish, Portuguese, Romanian, Russian, Spanish, Swedish, Turkish, Ukrainian and 19 more

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Minecraft Hour of Code Tutorials

Many languages | Modern browsers and tablets | Grades 2+

The image displays three promotional cards for Minecraft Hour of Code tutorials. The top card, 'Minecraft: Hero's Journey', features a large pixelated character and a 'New' badge. Below it are two smaller cards: 'Minecraft Designer' showing two characters and 'Minecraft Adventurer' showing a character with a path. Each card includes a brief description and a 'Start' button.

Minecraft: Hero's Journey
Minecraft is back for the Hour of Code with a brand new activity! Journey through Minecraft with code.

Minecraft Designer
Program animals and other Minecraft creatures in your own version of Minecraft.

Minecraft Adventurer
Use code to take Alex or Steve on an adventure.

Mozilla Learning Network

Web Literacy

A framework for entry-level web literacy & 21st Century skills. Explore the map by selecting what you want to learn more about, to see definitions and activities.

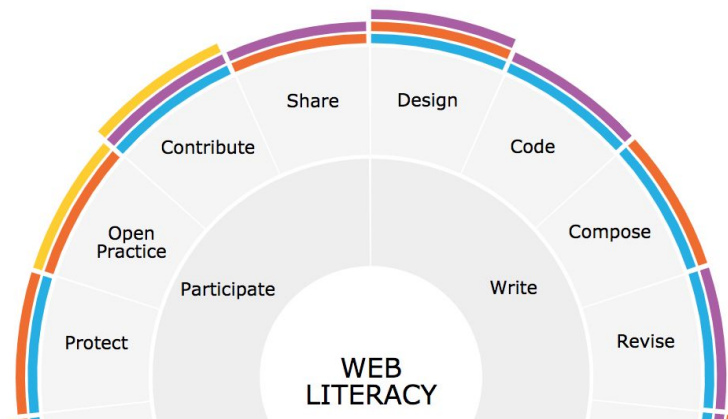
21st Century Skills

✓ **Problem-Solving**

✓ **Communication**

✓ **Creativity**

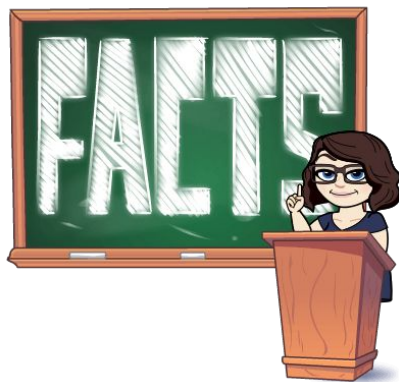
✓ **Collaboration**



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X-Ray Goggles by Mozilla

Learn how the web works,
using [X-Ray Goggles](#) by
Mozilla.



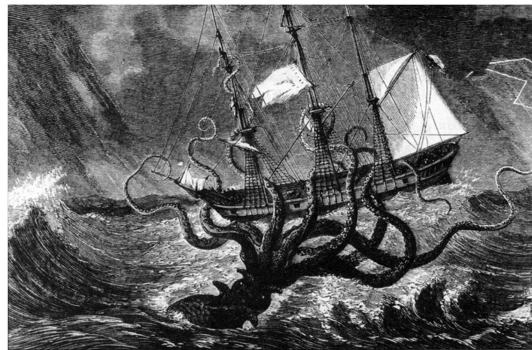
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Central Library Houses Large Kraken in First Floor Water Fountain

Customers and staff love library's new pet despite its tendency to overturn boats

By World's Editorial Writers Mar 19, 2017 0



Save the Krakens

The new library pet, Pete the Kraken, is pictured above saving the library from pirates that had decided to storm the first floor fountain.

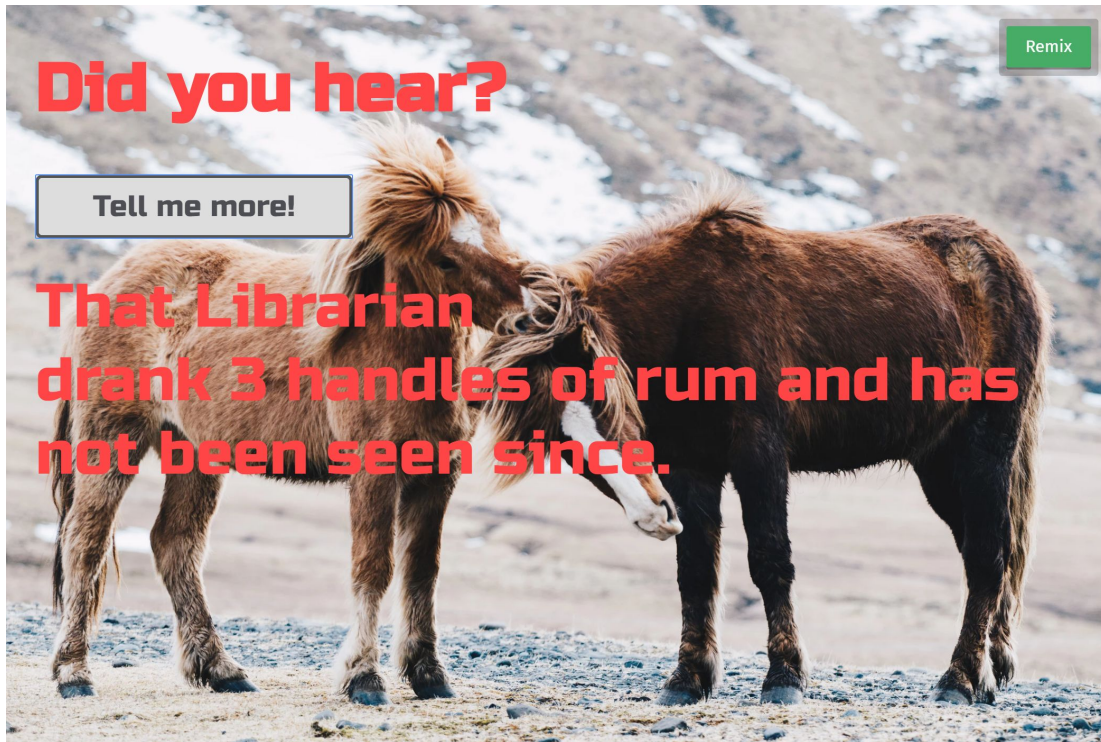
Latest Headlines

- Central Library staff dominate March Madness brackets
- Central Astronomy Night draws a crowd of 250 to view Downtown Tulsa's night sky
- Seed Library checks out almost 800 packets in the month of March - isn't that crazy awesome
- Digital Literacy Lab provides customers instruction of information literacy and how to navigate the web
- Central staff advocate for new room called "Library" that is just a room full of lab puppies that need petting

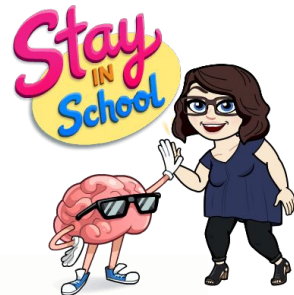
Thimble Project by Mozilla

Remix websites using
Mozilla's [Thimble Project](#).

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Code Academy



COURSES

Codecademy courses teach you a technical skill through interactive lessons. Practice projects and quizzes are available for our Pro members.

Learn HTML

Learn the basics of HTML, the essential language of the web. This course covers

🕒 3 hours

Learn CSS

Learn how to style and visually organize HTML with CSS. This course covers vers

🕒 11 hours

Make a Website

Explore HTML & CSS fundamentals as you build a website in this introductory course

🕒 4 hours

Deploy a Website

Learn how to publish a personal website to the public Internet.

🕒 4 hours

Learn Responsive Design

Learn responsive design techniques, like relative sizing units and media queries, t

🕒 3 hours

Learn Sass

Expand your CSS knowledge by learning SCSS syntax, nesting, functions, and m

🕒 3 hours

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District Dispatch and Libraries Ready to Code



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Game Development

- Minecraft
- [Stencyl](#)
- [Construct 3](#)

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Workshops: Django Girls, Railsbridge



Tips for Success

- Work with local companies and organizations to bring in technology professionals and enthusiasts.
- Connect technology to patron interests.
- Don't be afraid to say, "I don't know. Let's figure that out together." Learn right beside your patrons.

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Questions?

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Thank you!

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