Welcome to our webinar

“Literacy and Computer Science: Using CS Literacy Tools to Create Digital Stories”

- Who is in the room?
- Please introduce yourself in the chat window:
  - Your name
  - Your position
  - Your city/state

We want to HEAR from you! Please choose the first option in the Audio Conference window (Dial-out) in order to communicate verbally. If unable to receive an incoming call, please choose one of the other options listed.
“Literacy and Computer Science: Using CS Literacy Tools to Create Digital Stories”

Naomi Harm, CS for All Teachers Community Ambassador
Nicole Kange, Co-Founder of Elementari

March 25, 2020
Huge Shoutout and Thanks

https://www.csforallteachers.org
Your Online Webinar Facilitators

Naomi Harm
CS for All Teachers Ambassador

Nicole Kang
Co-Founder of Elementari
Computer Science and Literacy Webinar Outcomes

- Engage you as a learner with modeling and showcasing CS literacy tools and resources.
- Provide inspirational ideas of where to start to motivate your students to create digital CS stories.
- Showcase how and why literacy impacts how a student comprehends, applies CS concepts and acquires new knowledge.
How have you combined literacy and coding experience in your classroom with students?
The Ultimate Dynamic Duo

The Why For Computer Science and Literacy
How Digital Storytelling Fits Into Computer Science

- Encourages artistic students to obtain new creativity skills beyond the scope of their original work.

- Provides English learners a new way to communicate and time to articulate their thoughts.
How Digital Storytelling Fits Into Computer Science

- Turns tech-savvy students into co-teachers
- Boosts students learning confidence
- Creates a peer-centered learning environment
- Helps ALL students advance together as a class
- Creates a powerful exchange of information
Introduction to Nicole Kang

You can customize your character and animate it on Elementari!

Nicole Kang
Co-Founder of Elementari

Previously STEM Educator and Edtech/ELA researcher.

Gamer, reader, cat lover 🐱

Read my story at: www.elementari.io/stories/64GfdM0KSU

Twitter: @nikorawrs
What is Elementari?

Elementari is a K-12 platform to read, write, code, share, and remix interactive stories using professional illustrations and sounds.

Works on all devices!

https://www.elementari.io  Twitter: @elementari_io
Let’s Code Together!

First tutorial on Elementari! When you first create a story, there is a step-by-step tutorial that will guide you through this tutorial!

Elementari walkthrough video (includes tutorial)
https://youtu.be/E-_Rvz6kOk8
Visual Coding in the Real World

Unreal Engine EventGraph
- One of the most powerful game development engines for professional use.
- Used to develop Fortnite, Kingdom Hearts 3, Final Fantasy 7 Remake

Blender
- Free and open source software for 3D animation used by professionals
- Used to create the credit sequence of Wonder Woman and graphics for the Emmys 2018!

Flow Charts
- Used when creating any standard operating procedure (SOP)
- Used in all industries!
Coding Story Sequences

THE HYENA & THE THREE ZEBRAS
A Fable

Writing Dialogue and Narration for a Fable (Comic)
Lesson Plan: http://bit.ly/2TBmRVv
Other Ideas for Storytelling Coders!

About Me Book

Alas, the prince couldn’t understand. He only had a distant memory of the shipwreck, and thought another prince had saved him.

Hidden Picture Book

LEO LIVES IN AN INCHANTED FOREST! AND HE LOVES TO TAKE WALKS. WHERE IS LEO?

Fractured Fairy Tales

I have to find him... my perfect match!

Sound Stories

BUILD YOUR BAND
coding

Read Halloween Town by Julia Dweck’s (@GiftedTawk) students at www.elementari.io/stories/ZUCGat3rGZ
Can you think of other ways digital storytelling can be more interactive?

So far we can...

1. Animate
2. Play Music, Sound Effects, and Voice overs

Can you think of other ways we can make digital storytelling to be more exciting and fun?
Non-linear Storytelling

Multiple Choice Quiz

Choose Your Own Adventure

After some time, Little Red Riding Hood had to make a choice. She needed to...

Decide to pick some flowers
Continue down her path

Lesson Plan: Multiple Choice Quiz

www.elementari.io/curriculums/multiple-choice-quiz
Personalized Stories (Variables)

On Elementari, variables have a data type (just like in computer science)! The text variable allows you to create personalized stories where the reader can input their name - and the name is used throughout the book!

Check out the video of the integrated tutorial: https://youtu.be/iXM4Gmifmy8
Visual Novels

But Belle’s father couldn’t resist - as he was leaving, he took a single rose as a present for Belle. The beast caught him, and said...

Pay the price - you or one of your daughters must live in my castle...forever!

Visual novels are a genre of games originating from Japan. They are text-based narrative stories with anime style characters and branching endings.

Elementari has many of these characters (with multiple expressions).

Read this awesome adaption:

www.elementari.io/stories/9BqV43rc8g

Middle school libraries have used Elementari for their graphic novel clubs as well!
Digital Escape Room (Conditionals)

After days of suffering, you finally reach the location of the legendary treasure chest. All you need to do is enter the secret code...

Escape rooms are always fun. Why not have your students create their own to demonstrate their understanding?

Since they are digital, you can easily share have other classes play each others’ escape rooms!

Try these Math Brain Teasers Quiz using conditionals: www.elementari.io/stories/ReeBmqq3RR

Lesson Plan and Tutorials coming soon!
Character Profiles

Character profiles engage students in character analysis with textual support.

You can do similar profiles for research or science projects as well!

You can remix this template!
www.elementari.io/stories/HObi0y4bYG
Children’s Books Project

School-wide collaboration!

Challenge students to write and voice act an interactive children’s book around a theme/topic. Find a partner K-2 class to provide the writers an authentic audience and young readers opportunities to engage in feedback.
Digital stories don’t need to have written words!

Teachers use the illustrations to provide talking points and collaboratively create and record stories with young students.

Storytime becomes students “telling” their story: from what character they want to what their characters say.
What is one activity you would like to try?

Did anything pique your interest?

Illustrated by: Len Smith
How Are Teachers Using Elementari?

Writing and Coding Across the Curriculum

- ELA
- ELL / EFL
- Foreign Language
- Music
- Science
- History
- Special Education
Elementari for #RemoteLearning

Elementari’s premium plans are **FREE** for school and teachers affected (or may be affected) by school closures. Just fill out the google form 😊

Teachers can:
- ✔️ Review and give feedback on students' stories
- ✔️ See student statistics (how long students spend writing and coding)

[https://forms.gle/H1dhLzEYabWyqCp76](https://forms.gle/H1dhLzEYabWyqCp76)

Illustrated by: Len Smith
Additional CS Literacy Tools to Create Digital Stories
Fairytale Adventures and Unplugged Activities

Dash & Dot Fairy Tale Adventures

Your Fairy Godmother Facilitator
Naomi Harm

#TinkerCodeMake
Fairytale Adventures and Unplugged Activities

#1 Anticipatory Set - Read Them A Story

- The Princess and the Pig
- Not Every Princess
- Bubba the Cowboy Prince
Capture A Prince, Princess & Bag of Precious Gems

Directions: Code the walking path with a teammate to capture a prince, a princess and a bag of precious gems to make your way into the castle.

Avoid the obstacles of dragons, witches and frogs. And there are many paths to take…. How many can you find?

You can also use this activity as a large group Google Slide deck interactive whiteboard activity- as a think aloud.

Make a copy of Google Doc Activity
#4 Design A Crown Fit For A King Or A Queen

(More dress up ideas [https://www.makewonder.com/magazine](https://www.makewonder.com/magazine))

Craft: Tiny Hats
Wonder Workshop Learn To Code Challenge Cards

Grades K-6
Focus

Wonder Workshop Website
Wonder Workshop Cue Robot and Applied Robotics

Grades 6-12 Focus

Wonder Workshop Website
Creating and Telling Your Story with Makey Makey

Talking Paper Dolls To Build SEL Character Development
Creating and Telling Your Story with Makey Makey

Grades 3-12
Focus

Doll-e and More Makey Makey Projects
Google CS First and Storytelling

High Seas Activity
Curious about CS First? Try this!

Art

Friends

Social Media

Sports

Music & Sound

Game Design

Storytelling

Fashion & Design

BTA

Animation

Google CS First Teacher Guides and Storytelling Guide
Scratch Jr. Teach Challenge Cards and Activities

Reinforcing Literacy and Math Curriculum

These curricular modules describe ScratchJr projects that reinforce literacy and math standards.

Uppercase and Lowercase Letters – Part 1

Uppercase and Lowercase Letters – Part 2

Scratch Jr. Activities, Curriculum and Assessment and Tufts Activities
Scratch Jr. Activities

Scratch Jr. and Activities Shared from Tech With Jen
Are you a member of CS for All Teachers?

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• Participate in free webinars
• Access free resources
• Learn more about ECS and CSP curricula
• Download the latest ECS assessments

https://csforallteachers.org/user/register
Huge Shoutout and Thanks

https://www.csforallteachers.org

Twitter: @CSforallTchrs