



Sign in here: [bit.ly/SignUpGWC](https://bit.ly/SignUpGWC)

Event Code: CTLibrary2021

# The Connecticut State Library & Girls Who Code



**CT State Library**

*Preserving the Past. Informing the Future.*

JOIN A SISTERHOOD | LEARN TO CODE | BUILD BRAVERY | MAKE AN IMPACT

# AGENDA

- 5 MINUTES** Welcome & Introductions
- 15 MINUTES** Movement to Close the Gender Gap & GWC
- 20 MINUTES** Fostering Inclusive Programming
- 15 MINUTES** Curriculum Walkthrough
- 5 MINUTES** Q&A and Next Steps

**LET'S MEET  
EACH OTHER!**



## Introduce yourself in the chat!

- Your name & pronoun
- Your library or organization
- What are three words that come to mind when you think of "coding"?

# CODING 101

**“Coding is, very simply, writing commands to instruct a computer to do something in a programming language it can understand.**

When you learn to code, you learn to ‘speak’ one of these different programming languages so that you can communicate directly to the computer and create animations, games, apps and other things that you dream up!”



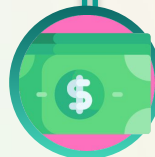
# 21ST CENTURY OPPORTUNITIES FOR 21ST CENTURY STUDENTS

girls who  
code

In the U.S. today, there are  
**500,000+**  
open computing jobs



**91%**  
Located outside  
Silicon Valley



**\$100K**  
Average Salary



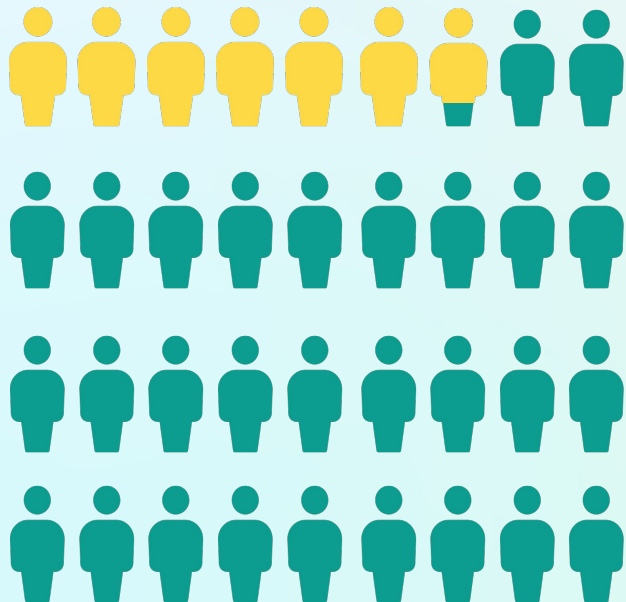
**67%**  
In Non-Tech Fields



**<80K**  
CS Graduates in 2019

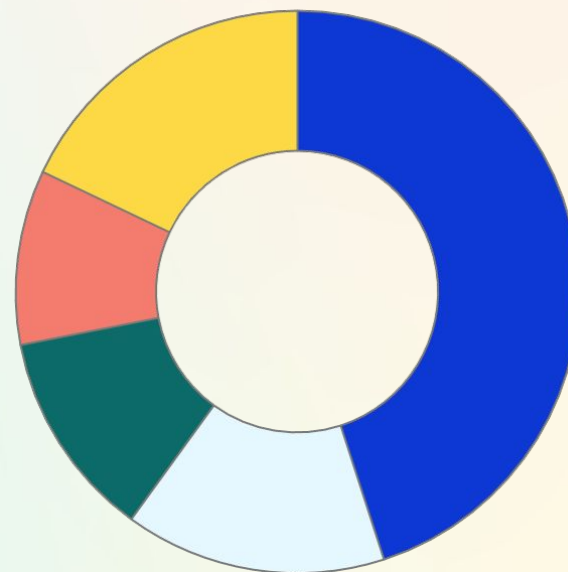
# BA DEGREE COMPLETION IN COMPUTER SCIENCES

## By Gender: Women vs. Men




Women (19%) vs. Men (81%)

## Women by Race & Ethnicity



- White (45%)
- Asian (15%)
- Black / AA (12%)
- Latinx / Hispanic (10%)
- Other (13%)

**Girls Who Code is on a mission to close the gender gap in technology and change the image of what a programmer looks like and does.**



# BUILDING A LIFELONG COMMUNITY



## Clubs



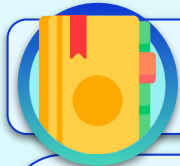
Free curriculum, resources, and support to help you start Clubs for 3-12th graders



## Summer Immersion Program



Free introductory computer science summer program for 9-11th grade girls and non-binary students



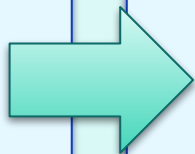
## Code at Home



Free downloadable stand-alone coding activities (online and unplugged!)



## Alumni & Career Support



1. GWC Talks webinar series for hiring, interview, and resume tips & strategies
2. Alumni newsletter & networking
3. College Loops Program
4. #HireMe Platform
5. Hiring Summit
6. Workforce Experience Program

# WE SERVE ALL GIRLS, ESPECIALLY THOSE WHO...



Are underrepresented in the field



Are free and reduced lunch eligible



Have little to no exposure to computer science education



Are female regardless of gender assignment at birth or legal recognition

And for our Clubs program, students of all genders are welcome!

# WHAT ARE GIRLS WHO CODE CLUBS?



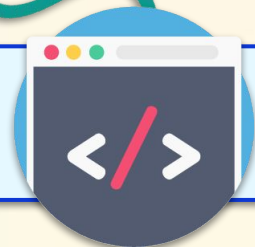
**Free Programs**

**For 3rd-5th & 6th-12th Graders**



**Joining A Supportive Sisterhood**

**Using Computer Science**



**Changing The World**

# OUR EDUCATIONAL PHILOSOPHY

1



**More Than Code**

Teaching CS skills is just the start! Clubs empower students to be brave, resilient, and take risks.

2



**Sisterhood**

Participating in Clubs means joining a global sisterhood that supports students for life!

3



**Relevance & Impact**

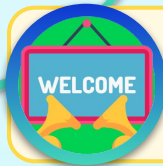
Real-world, hands-on, project-based learning teaches students they can change the world with CS!

# CLUBS PROGRAM DETAILS BY GRADE

## 3RD - 5TH GRADE



**5+ Sessions**  
~45-60 min / Session



**Beginner**



**Book Club Model**  
Online or Unplugged

## 6TH - 12TH GRADE



**10+ Sessions**  
~1-2 hrs / Session



**All levels**



**Flexible Plug & Play Model**  
120+ Curriculum Hours



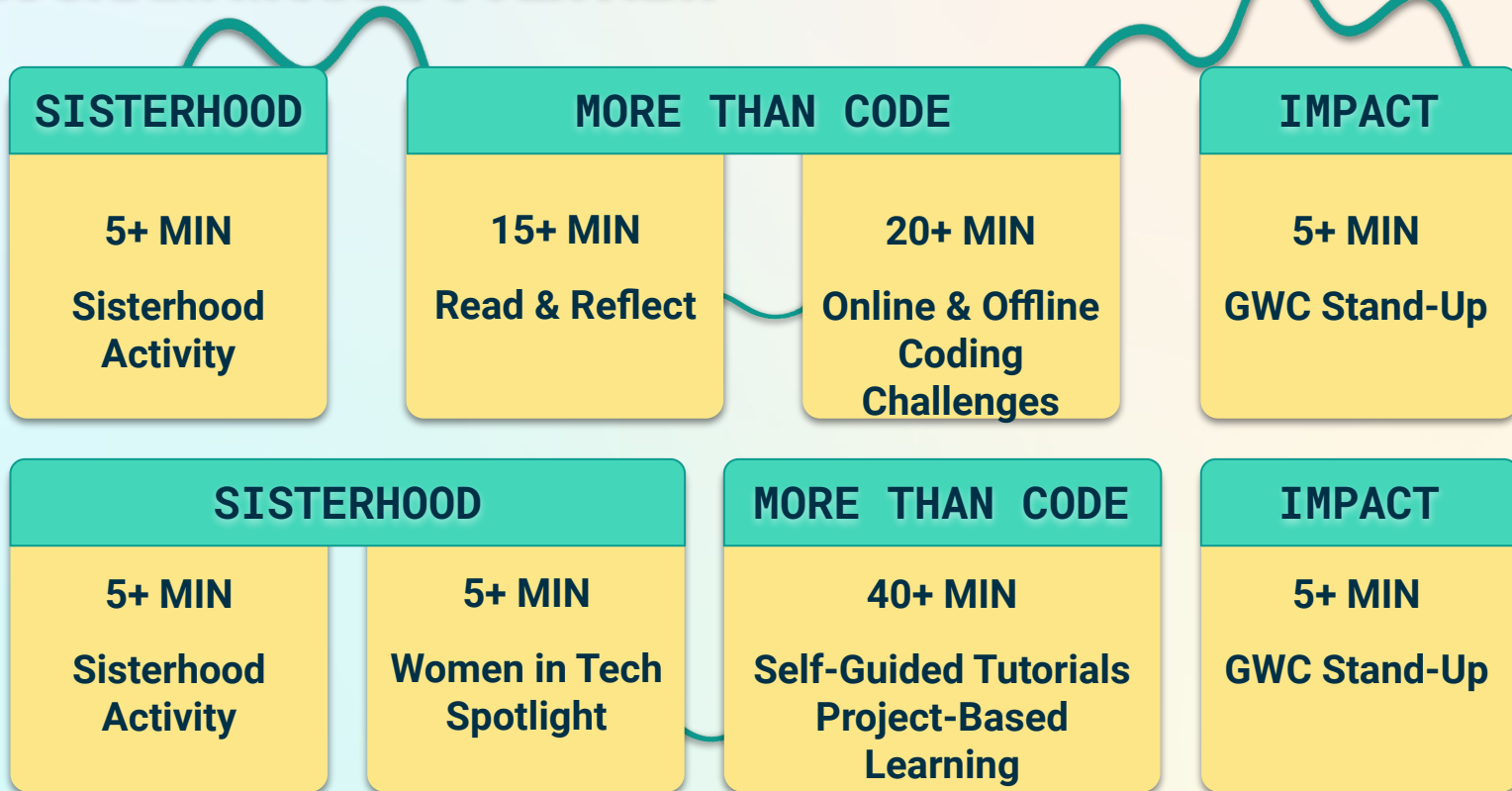
# GIRLS WHO CODE CLUBS PROGRAM MODEL OVERVIEW



**3RD - 5TH**



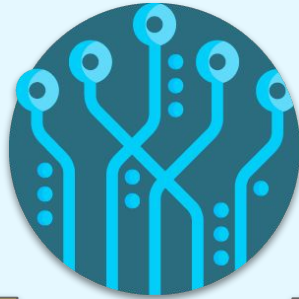
**6TH - 12TH**



# WHAT YOU NEED TO START YOUR CLUB



**In-Person  
or  
Virtual Space**



**Technology  
&  
Internet**

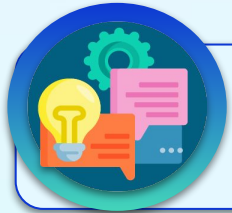


**Facilitator  
&  
Decision Maker**

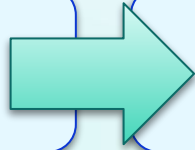


**Launch!**

# WHAT WE PROVIDE TO SUPPORT YOUR CLUB



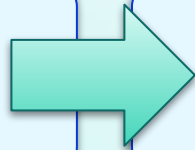
## Logistics



1. Customizable Meeting Guides
2. Student Recruitment Resources
3. Virtual Facilitation Resources



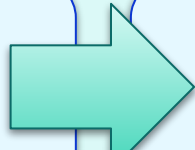
## CS Skills



1. Custom Online Training
2. Girls Who Code HQ Platform
3. 120+ hrs of Curriculum
4. Extended CS PD Resources

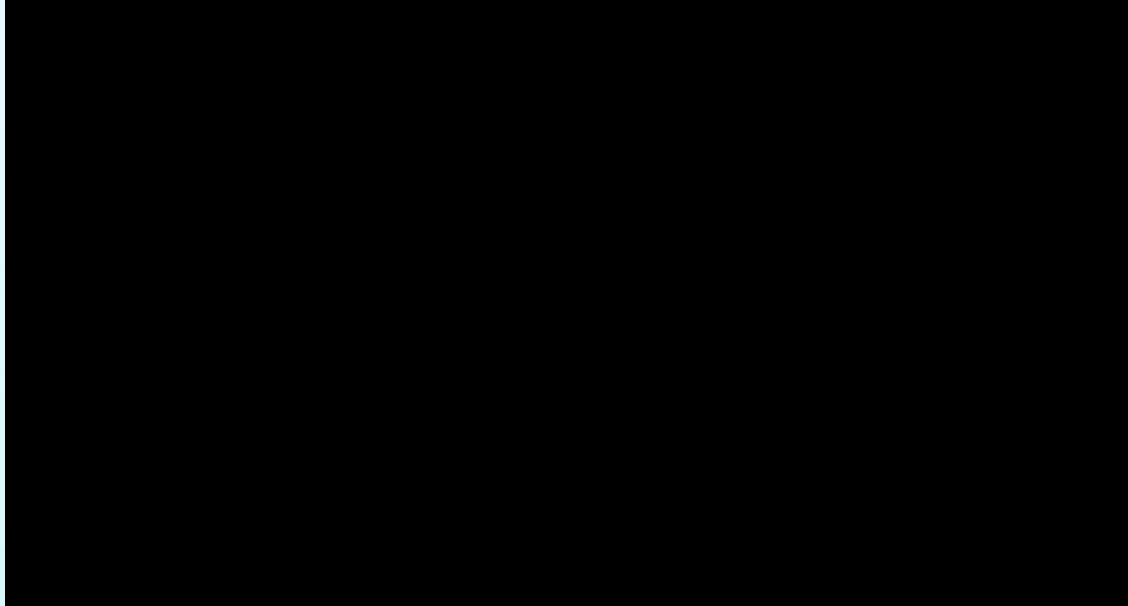


## Community



1. Ongoing support from GWC
2. NEW Clubs Facilitator Loyalty Program with SWAG incentives (+T-shirts!)
3. Virtual events, when available
4. Alumni programming and networking

# CONTENT PREVIEW: FACILITATOR TOOLKIT



## Access to:

- Plan Your Club Checklist
- Webinar Training
- Student Recruitment Flyers
- HQ Registration Flyers
- Facilitator Newsletter
- Code of Conduct
- End of Club Certificates
- Recommendation Letter Template

# AGENDA

**5 MINUTES** Welcome & Introductions

**15 MINUTES** Movement to Close the Gender Gap & GWC

**20 MINUTES** Fostering Inclusive Programming

**15 MINUTES** Curriculum Walkthrough

**5 MINUTES** Q&A and Next Steps

# 5 ELEMENTS OF GWC'S CLUBS PROGRAM

1

**Sisterhood:** Incorporate intentional community-building activities.

2

**Women in Tech:** Include relatable & inclusive representation.

3

**GWC Projects:** Connect student learning to impact.

4

**Stand Ups:** Elevate reflections to build a growth-mindset.

5

**Culture Building:** Cultivate a strengths-based and inclusive culture.

# 1 INCORPORATE INTENTIONAL COMMUNITY-BUILDING ACTIVITIES

Learning to code can be a long journey! **Sisterhood activities** help our students acknowledge their successes and strengths, reflect on their progress, and **build a strong and resilient community** with one another. At Girls Who Code, we use:

## Icebreaker Activities

Help your students get to know each other better.

## Communication Activities

Challenge their ability to communicate with each other under unusual circumstances!

## Teamwork Activities

Have them work in teams to solve problems together through the strengths of each person.

## Innovation Activities

Inspire them to think creatively and share ideas with the group!

# 1 SAMPLE INNOVATION ACTIVITY: PITCH A PRODUCT

**Instructions:** Your team will invent and pitch a product using just a noun and adjective. Your goal is to be creative, have fun, and convince the Club to want to invest in your product!

- Each team chooses a noun and adjective from a cup that will become the name of their product!
- Each team has 10 minutes to come up with an imaginary product they would sell and practice pitching it as a team.
- Each team will pitch their product to the Club, then debrief!



**Bouncing**

**Auromatic**

**Glitter**

**Power**

**Coffee**

**Robot**

**Potato**

**Pants**



# 2 INCLUDE RELATABLE & INCLUSIVE REPRESENTATION

## 1

### Audit Your Representation

When building your programs & curriculum, ensure that you are representing role models across all lines of difference.

AGE

DISCIPLINE

RELIGION

ETHNICITY

CLASS

SEXUAL  
ORIENTATION

GENDER

ABILITY

RACE

## 2

### Deepen Your Discussions

When discussing role models in your programs, think about the life skills you hope to instill in your students and design questions accordingly.

BRAVERY

RESILIENCE

CREATIVITY

PURPOSE

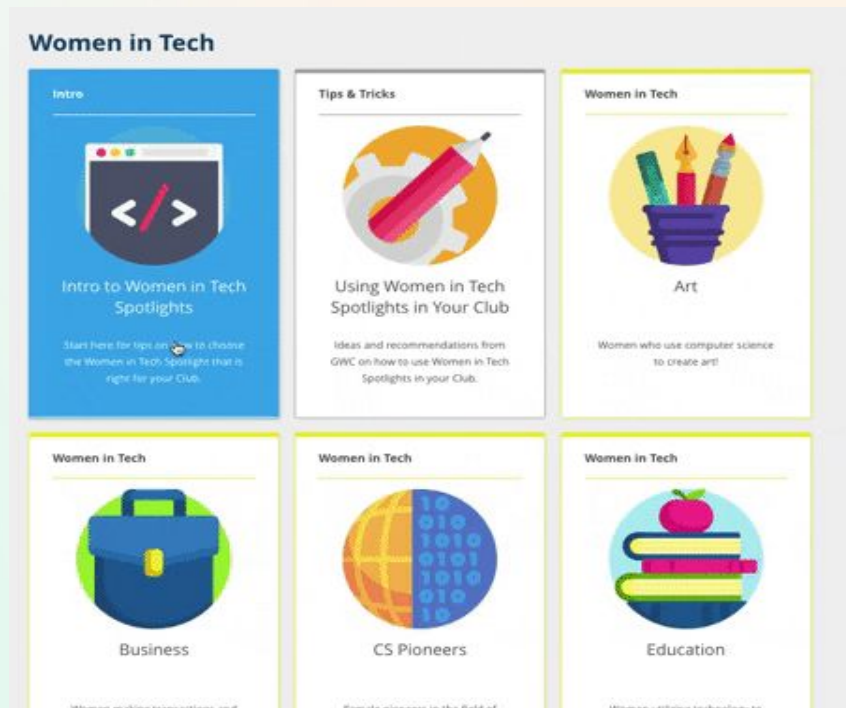
# 2 INCLUDE RELATABLE & INCLUSIVE REPRESENTATION

Find a Female Role Model to Highlight

Read about them

Watch a Video

Discuss 4 questions about her experience that are related to Bravery, Resilience, Creativity, and Purpose



## 2 WOMEN IN TECH SPOTLIGHT: MEET MIRAL KOTB

Miral's dream was to become a professional dancer, but she also loved coding.

Dance



Coding

As a student, these two professional paths seemed entirely separate to her. However, Miral did not settle for the status quo.



After working as a software engineer at Bloomberg, she realized that the two seemingly separate worlds of dance and code could come together to create something magical. Eventually, **iLuminate** was born!

2

# WOMEN IN TECH





## SPOTLIGHT: MIRAL KOTB

girls who  
code



# 2 WOMEN IN TECH

## SPOTLIGHT: MIRAL KOTB

STRENGTH	DEFINITION
 <b>BRAVERY</b>	Miral's iLuminate has performed in front of millions of people. How do you prepare yourself to perform or talk in front of a large audience?
 <b>RESILIENCE</b>	What or who inspired Miral to keep advocating for dance with code?
 <b>CREATIVITY</b>	What are you passionate about? How would you combine computer science with your passion to create something?
 <b>PURPOSE</b>	How does Miral Kotb use computer science to express herself? How can you imagine using computer science to express yourself?

# 3 CONNECTING STUDENT LEARNING TO IMPACT

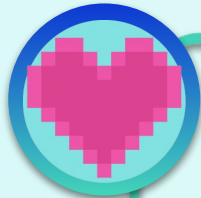
Through the Girls Who Code Project, 6-12th graders use their computer science learning to solve real-world problems they care about, in areas like...

Activism

Anti-bullying

Education

Wellness



Women of Color in Tech



Teen Mental Health Awareness



The Climate Crisis Response



Cat Personality Quiz

**"IT'S INTERESTING TO SEE HOW COMPUTER SCIENCE IS INTEGRATED INTO SO MANY FIELDS...YOU'RE PULLING OUT THE KNOWLEDGE YOU KNOW & CREATING SOMETHING THAT CAN BE USED."**

**-Alyssa Chen, Sophomore**

## 4 ELEVATE REFLECTIONS TO BUILD A GROWTH MINDSET

A **Stand Up** is a practice that real software developers use to keep the other members of their team up to date on what they are working on, what help they might need, and any accomplishments they've made!

### Stand Up Prompt Examples:

- 1) What did you accomplish this meeting?
- 2) Give an example of how you were brave, resilient, creative, or purposeful.
- 3) Do you need help with anything next meeting?
- 4) Shout out a Clubmate for something they accomplished.



5

# REMEMBER TO CELEBRATE SUCCESSSES AND FAILURES



Work up towards a project showcase, challenge, or celebration. Include mid-year celebrations too!

**Hint:** Help students build resilience by celebrating mistakes as learning opportunities and opportunities to support each other! #FailureFriday





# 5 BUILDING A STRONG STRENGTHS-BASED AND INCLUSIVE CULTURE



Build in **leadership roles** and rotate them!

**Technology  
Officer**

**Coding  
Coach**

**Social  
Media Chair**

**Project  
Lead**

**Supplies  
Monitor**

We encourage you to build in leadership opportunities to increase buy-in and skill-building in your own programs! It has also been effective to have specific time frames for each role to give different students opportunities!

# NEXT STEPS FOR YOUR EQUITY AND BRAVERY-FOCUSED CODING PROGRAM

- 1** Incorporate community building activities. When and how will you incorporate community-builders?
- 2** Include relatable & inclusive representation. When and how will you audit the representation of role models in your program? Who might be missing?
- 3** Connect student learning to impact. How can you connect your students learning back to activism and their community?
- 4** Elevate reflections to build a growth-mindset. What are the life skills you hope to instill? What questions can you ask to encourage them?
- 5** Cultivate strengths-based and inclusive culture. What processes or activities can you build in to create an inclusive strengths-based culture?

# AGENDA

**5 MINUTES** Welcome & Introductions

**15 MINUTES** Movement to Close the Gender Gap & GWC

**20 MINUTES** Fostering Inclusive Programming

**15 MINUTES** Curriculum Walkthrough

**5 MINUTES** Q&A and Next Steps

# GIRLS WHO CODE HQ: OUR ONLINE LEARNING PLATFORM

The logo features the text "girls who code / HQ" in a teal, sans-serif font. "girls who" is in a smaller, lowercase font, while "code" and "HQ" are in a larger, uppercase font. The text is centered within a rounded rectangular frame with an orange border and a dark teal background.

girls who  
code / HQ

[hq.girlswhocode.com](https://hq.girlswhocode.com)  
Walkthrough Time!

# AGENDA

**5 MINUTES** Welcome & Introductions

**15 MINUTES** Movement to Close the Gender Gap & GWC

**20 MINUTES** Fostering Inclusive Programming

**15 MINUTES** Curriculum Walkthrough

**5 MINUTES** Q&A and Next Steps

# STARTING YOUR CLUB IS AS EASY AS 1-2-3...

1

5 MIN

Create an account at  
[girlswhocode.com/clubsapply](https://girlswhocode.com/clubsapply)

Indicate CT  
State Library  
as Community  
Partner

2

10 MIN

Fill out the Clubs Application

3

5-10 DAYS

Get your approval email



GO

Launch your Club and receive  
free t-shirts, notebooks, and  
stickers!

# QUESTIONS? NEED MORE SUPPORT?

Questions?

Contact me at  
[valerie@girlswhocode.com](mailto:valerie@girlswhocode.com)

Want a copy of this  
presentation?

Sign in here: [bit.ly/SignUpGWC](https://bit.ly/SignUpGWC)  
Event Code: CTLibrary2021



Ready to get started?  
Create an account at  
[girlswhocode.com/clubsapply](https://girlswhocode.com/clubsapply)  
today!

## GIRLS WHO CODE HQ

Sign up and start your Girls Who Code  
experience.

Log in

[Sign up](#)

Where are you from?

Country

 Country 

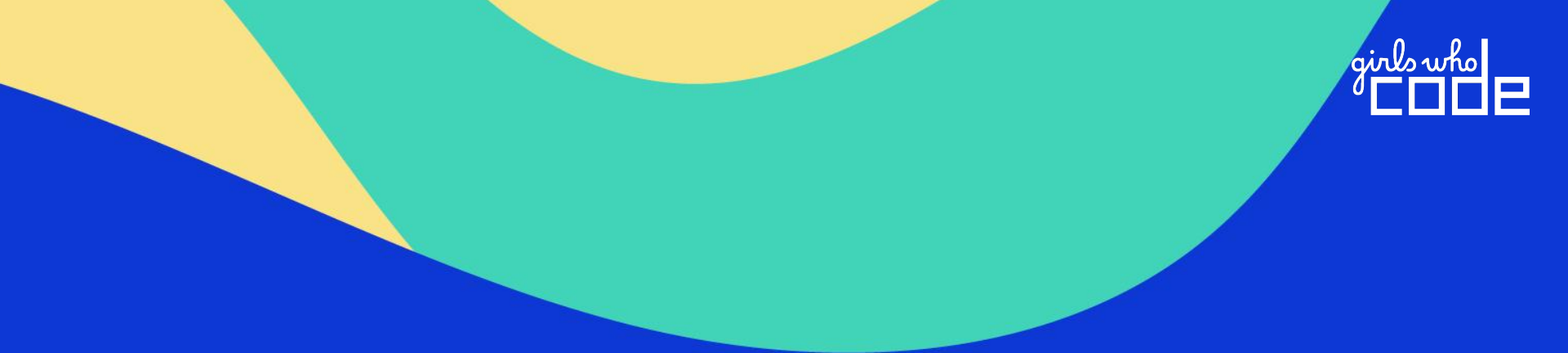
When is your date of birth?

Birth date

 MM/DD/YYYY

I have read and agree to the [Terms of Use](#), [Privacy Policy](#) and [Code of Conduct](#)

CONTINUE



**THANK YOU!**