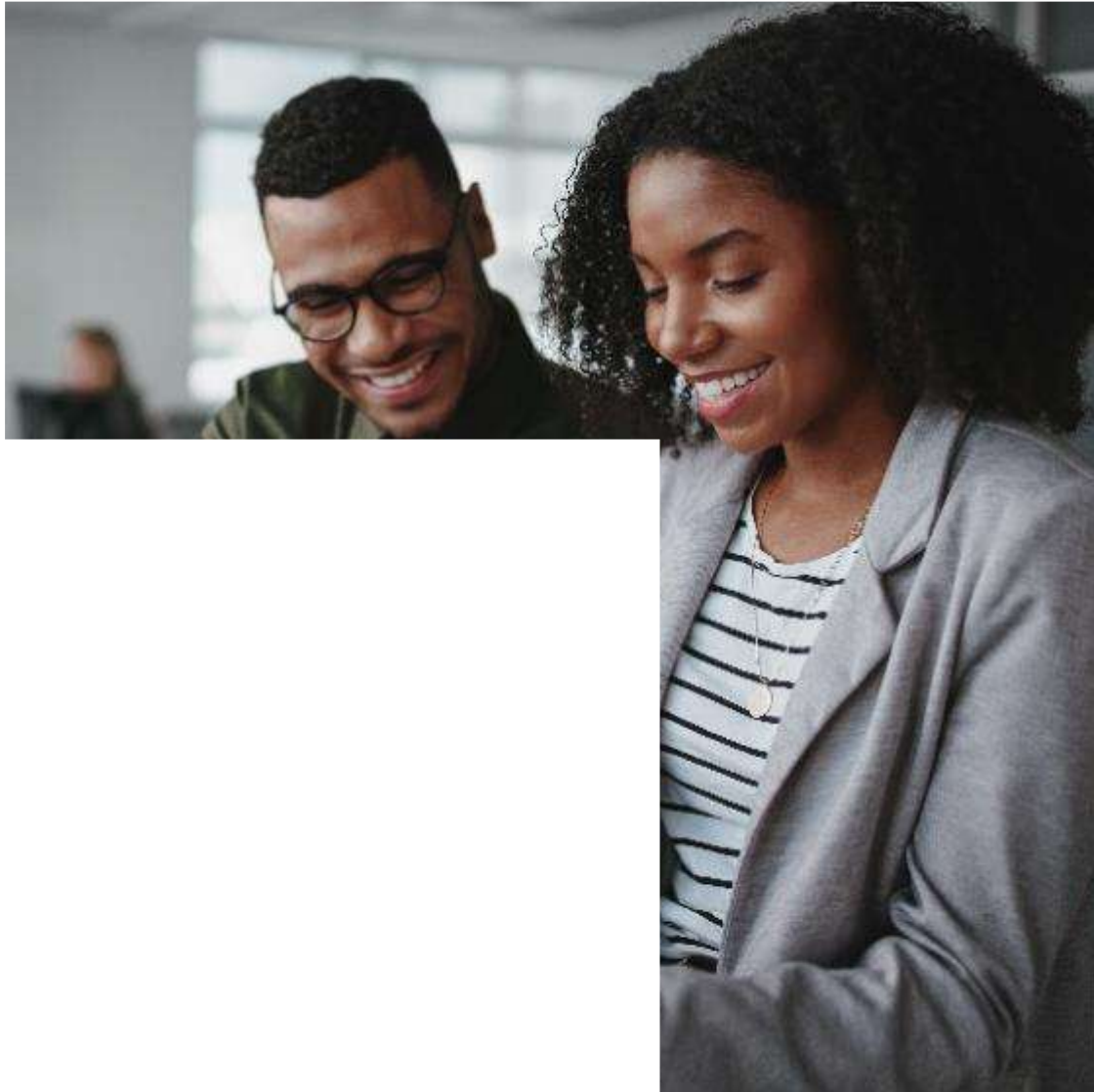




Black Member Alliance presents Black History Month

February 1 to March 1, 2022





Black Member Alliance (BMA) Member Resource Group (MRG)

Mission:

- To effect change and serve as a catalyst to push the needle forward for CGI's Black members and allies.
- To engage and collaborate with the respective internal CGI organizations to initiate and/or support activities in the four key areas of internal education, mentoring and networking, monitoring and accountability and partnership in our communities.

Welcome Black History Month!

01

About Black
History Month—
Virtual field trips

02

Cultural celebrations—
Family traits and
traditions

03

STEM highlight—
Dr. Alexa Irene Canady,
the first Black woman
neurosurgeon in the U.S.

04

Art of
Storyboarding—
Tell your story
(Ages 5-18)

05

Virtual Activities
(Ages 11-18)

Celebrate Black History in Science, Technology, Engineering, Art, and Math (STEAM)

- Americans observe Black History Month from February 1 to March 1
- Focuses on the impressive contributions of Black Americans to our national life—

Science!



Engineering!



Math!



Art!



Technology!



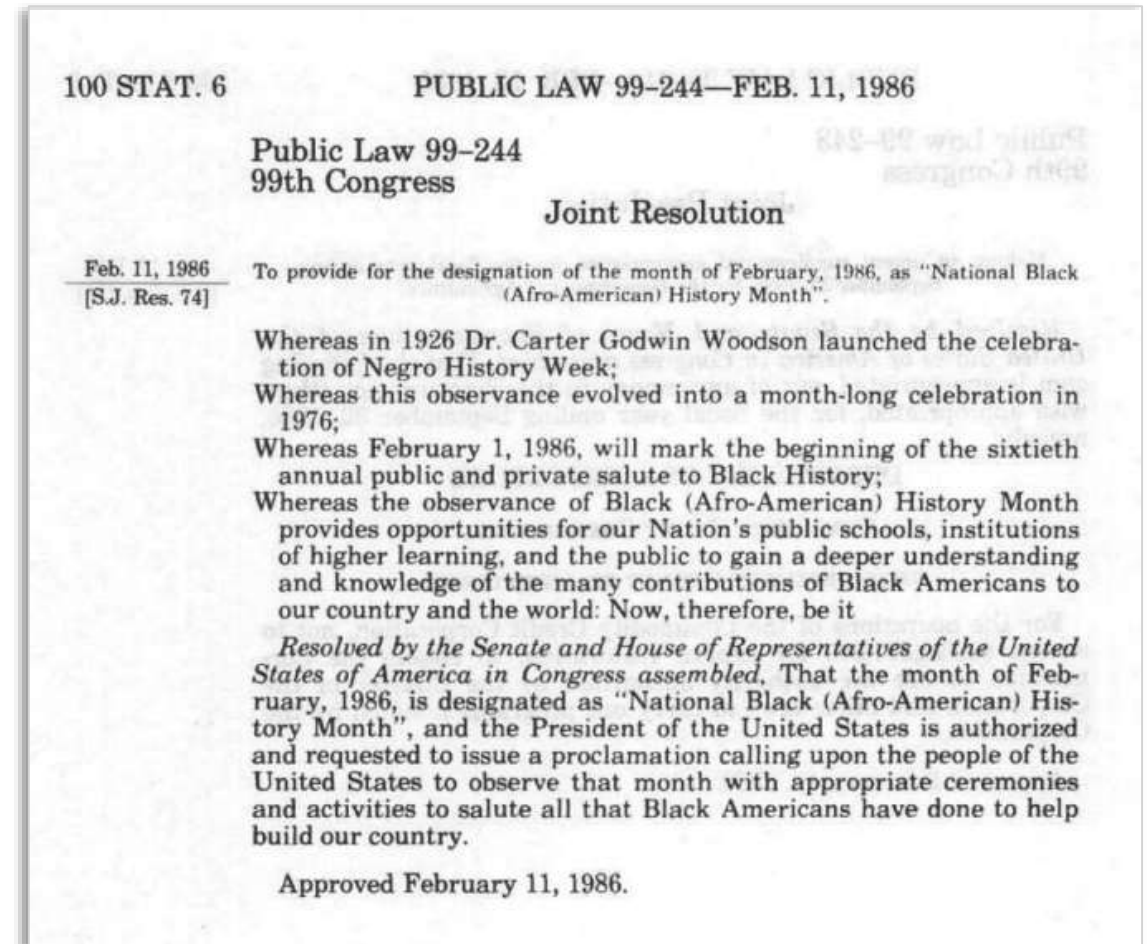
© 2022 CGI Inc.

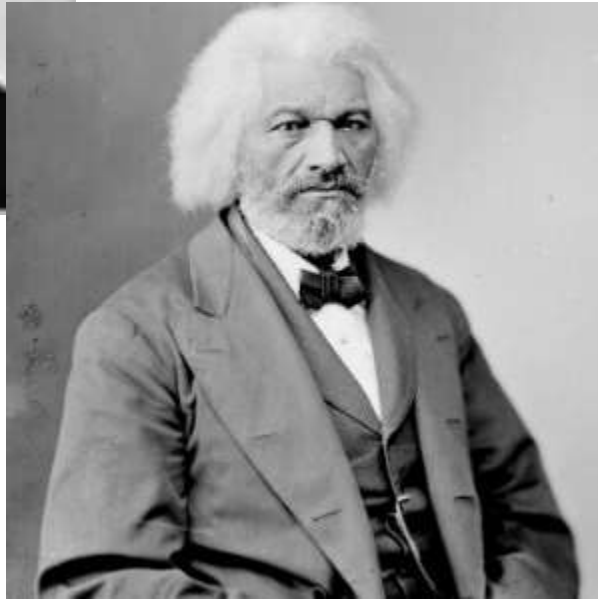
Click on each image for a virtual visit!

External

When did we start this celebration?

- Carter Godwin Woodson (1875-1950) was one of the first scholars to study African American history and the founder of Negro History Week, first celebrated in 1925.
- President Gerald Ford expanded the celebration to Black History Month in 1975, famously reminding Americans to “Seize the opportunity to honor the too-often neglected accomplishments of black Americans in every area of endeavor throughout our history.”
- In 1986 Congress passed Public Law 99-244 which designated February 1, 1986 as “National Black (Afro-American) History Month” and “mark the beginning of the sixtieth annual public and private salute to Black History.”





Why February?

- February encompasses the birthdays of both Abraham Lincoln and Frederick Douglass.
- Black abolitionist leader and former slave Frederick Douglass believed that Black Americans could achieve freedom and full citizenship only by participating in the Civil War.
- Because Lincoln's first concern was preserving the Union, he did not publicly support the recruitment of Black soldiers until Lincoln's Emancipation Proclamation on January 1.

Cultural celebrations— Family traits and traditions

Black families have a culture that comes from very diverse backgrounds.

The role of family, school, and community in multiple cultural backgrounds support strength and resilience.

Some characteristics of strong families are traits and traditions. We all have them!

What are some of yours?

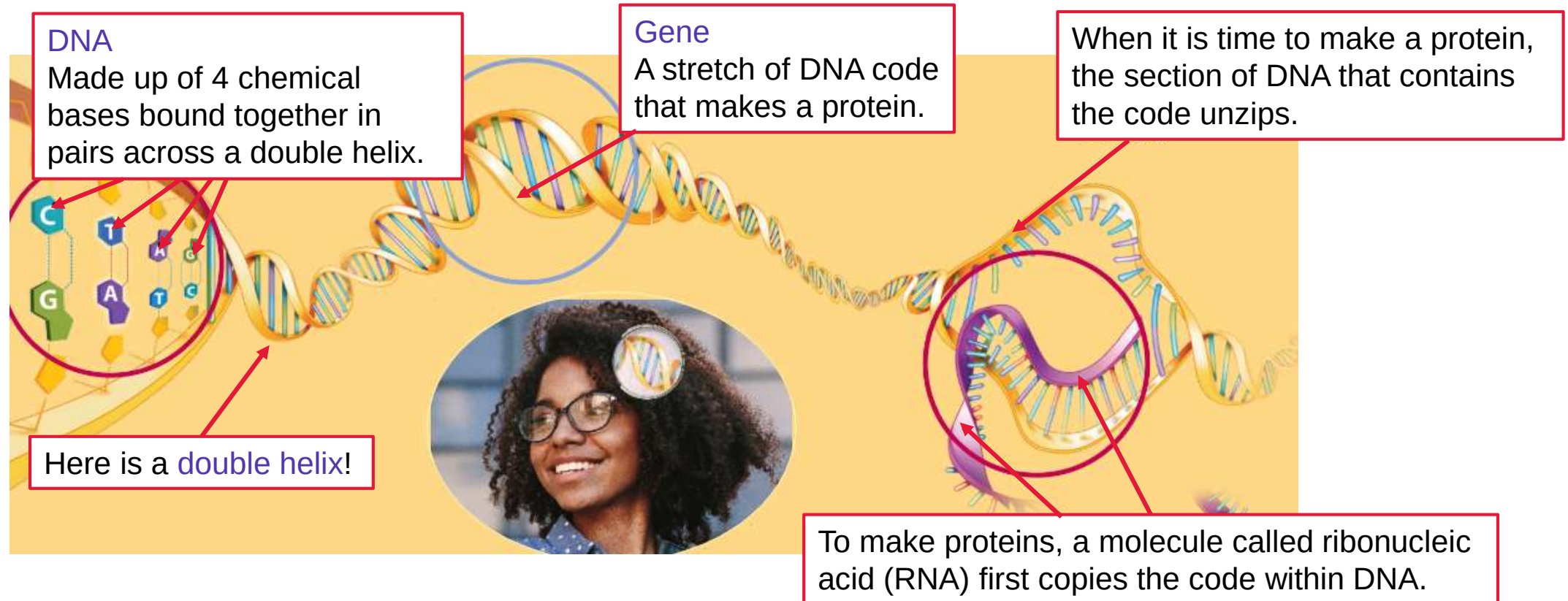
- Create a family tree of traits you have in your family.
- Interview family members, community members or friends about traditions you hold together.

Family tree templates can be found in the [STEM@CGI lesson pack!](#)



Just call me “Gene”

Genes define our family traits from skin color to the shape of our ears.



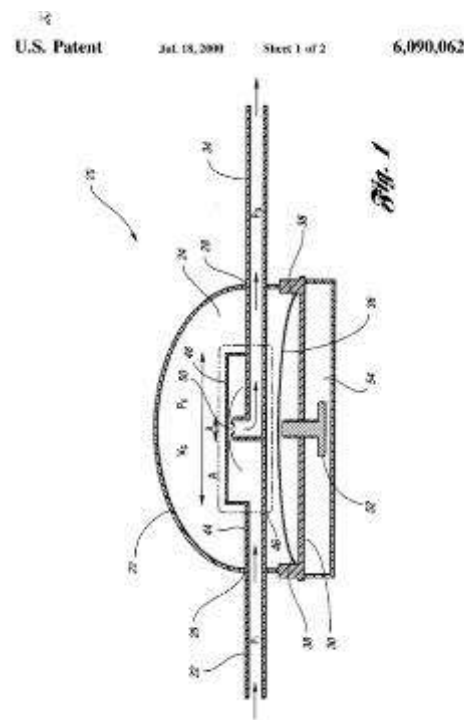
Some software developers build video games to teach complex ideas like genes in a simple way! Why not try some tutorials building your own game application to teach something you have learned? Try out [Hour of Python](#)!

STEAM highlight—Dr. Alexa Canady

Hear from Dr. Canady and her experiences as a woman in the field of neurosurgery by this [YouTube link](#).



Image from [Dr. Alexa I. Canady - Opening Doors: Contemporary African American Academic Surgeons \(nih.gov\)](#)



Courtesy U.S. Patent Office

Dr. Alexa Canady is the first Black woman medical doctor and educator specializing in pediatric neurosurgery in the U.S.

As a neurosurgeon, she engaged in research to make advances in neurosurgical techniques.

This research led to the invention of a *programmable anti siphon shunt* to treat hydrocephalus, an abnormal accumulation of fluid inside the brain, for which she shares a U.S. patent with two fellow neurosurgeons.

Now retired, she passed on her knowledge through her hands-on, “patient-care first” techniques, instilling these qualities in the surgeons she trained and those she worked alongside.

Art of storyboarding— Tell your story

Art of storyboarding—Tell your story

Black history is full of stories. Stories of brotherhood, dignity, and character in the struggle for freedom, justice, and equality. Everyone has a story to tell!



"I never ran off the track and I never lost a passenger"- Harriet Tubman, NPS Photo

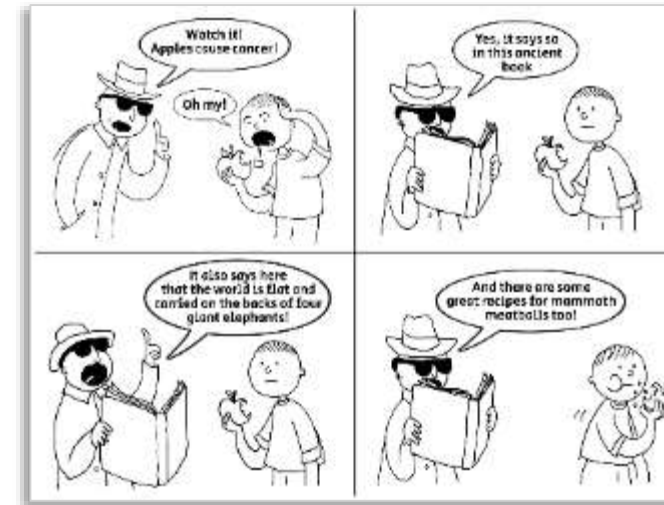


"Those who have no record of what their forebears have accomplished lose the inspiration which comes from the teaching of biography and history" – Carter G. Woodson, NPS Photo

Art of storyboarding—Tell your story

What is storyboarding?

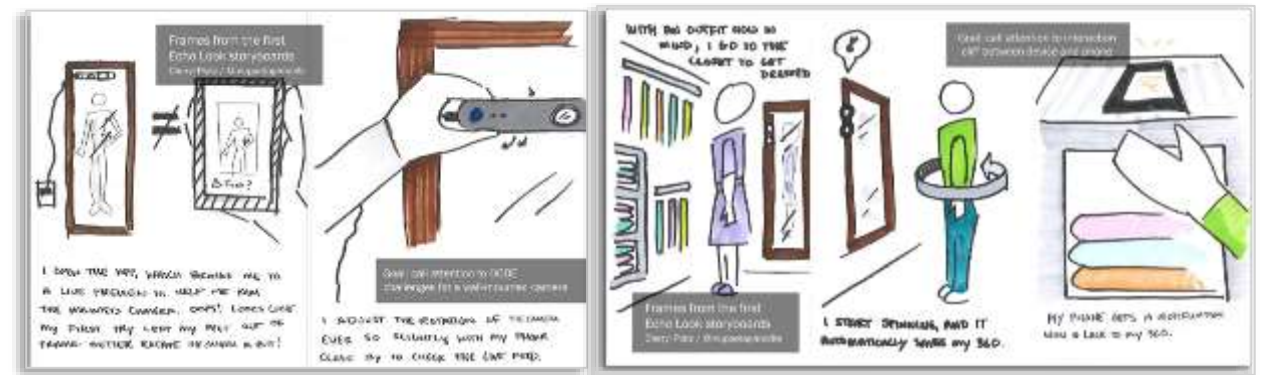
- Usually, a storyboard is a panel or series of panels on which a set of sketches is arranged in consecutive order to show the important changes of scene and action in a series of shots (as for a film, television show, or commercial)
- First came about from the entertainment industry—cartoons, comics, movies



By Racheli Rottner/Wikimedia Israel - Own work, CC BY-SA 3.0,
<https://commons.wikimedia.org/w/index.php?curid=63384146>

Meant to be used as a plan for storytelling.

In Business and IT industries, storyboarding is an important technique to support the development of products, mobile applications and websites.



Your turn! Tell your story

Appropriate for ages 5+

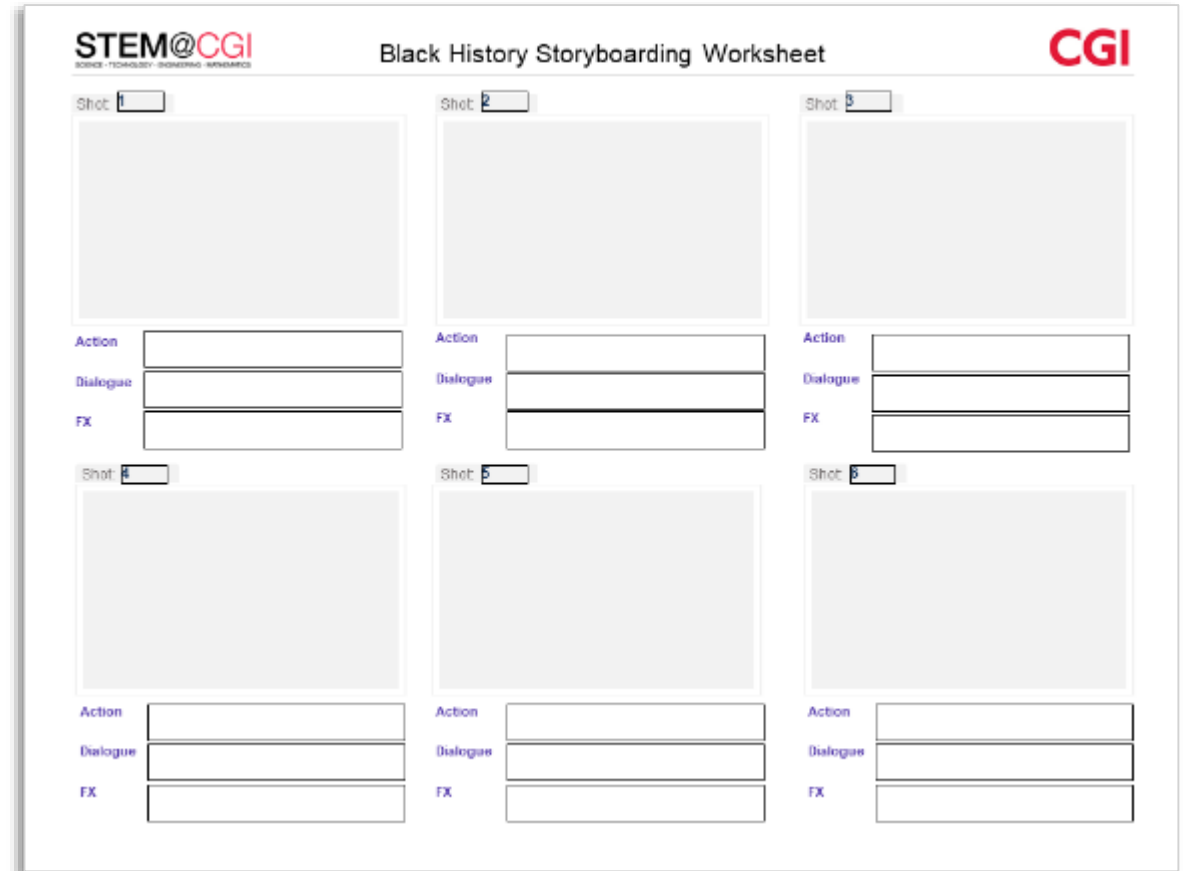
Storyboards are sketches of a story that include a plot, a setting, and character(s) one scene at a time.

Objective—

1. Use the *Black History Storyboarding Worksheet* to create a storyboard to sketch the events in your story. The story can be about anything—
 - A personal/historical story
 - A creative story
 - A story from your family tree
2. Make your story come to life with the Scratch block-coding platform.

Guiding Question—

Does your story include a character, a setting, and a plot?



The worksheet is titled "Black History Storyboarding Worksheet" and features the "STEM@CGI" logo in the top left and the "CGI" logo in the top right. It is designed for creating a storyboard with six scenes, arranged in two rows of three. Each scene is labeled "Shot" followed by a number (1 through 6) in a small box. Below each shot number is a large, empty rectangular box for drawing the scene. Underneath each drawing box are three horizontal input fields labeled "Action", "Dialogue", and "FX" in small text. The entire worksheet is enclosed in a light gray border.

Black History storyboarding worksheet orientation

- 1 Scene number
- 2 Scene sketch spaces
- 3 Description of an event shown in the scene
- 4 Describe what the character(s) could be thinking/saying
- 5 Description of the setting of the scene

STEM@CGI
SCIENCE • TECHNOLOGY • ENGINEERING • MATHEMATICS

Black History Storyboarding Worksheet

CGI

Shot

2

3

Action

Dialogue

FX

Shot

4

4

Action

Dialogue

FX

Shot

5

5

Action

Dialogue

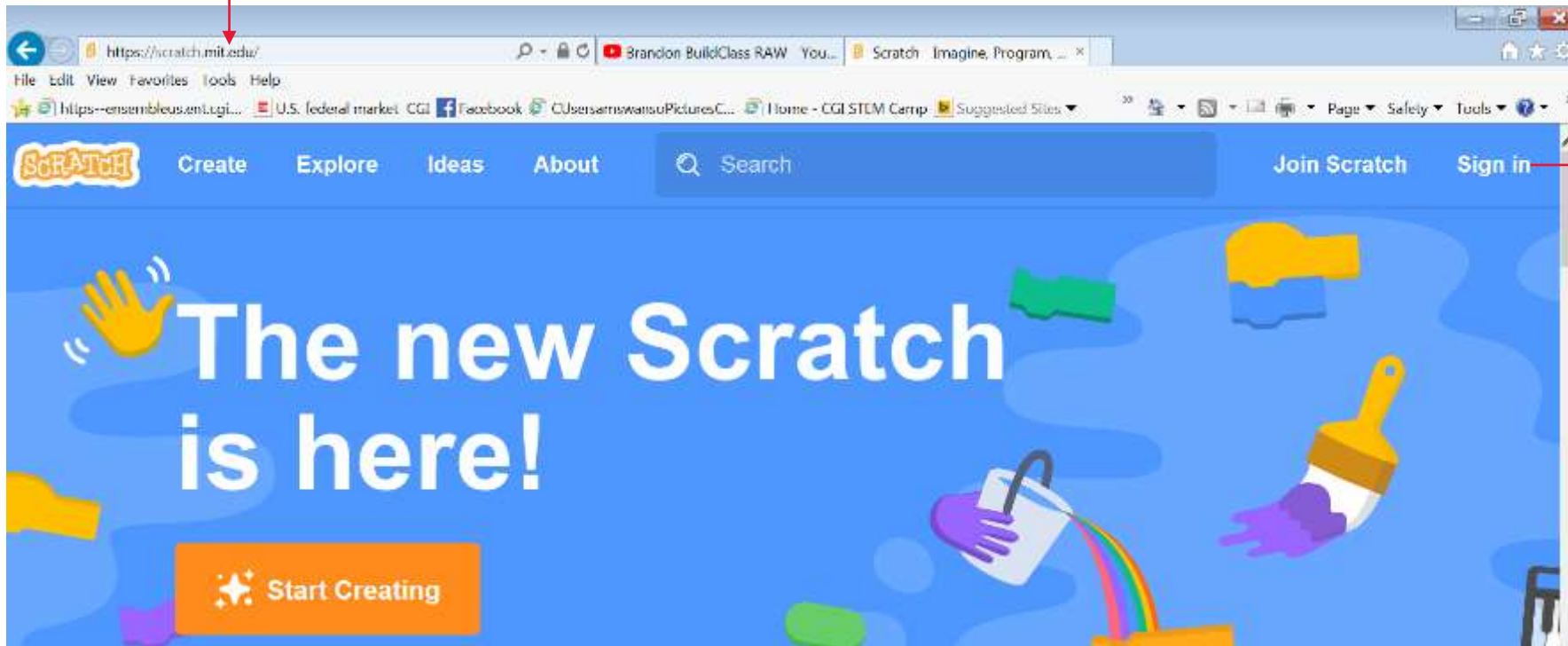
FX

Make your story come alive with Scratch

Appropriate for ages 8+

Get started with Scratch!

<https://scratch.mit.edu/>

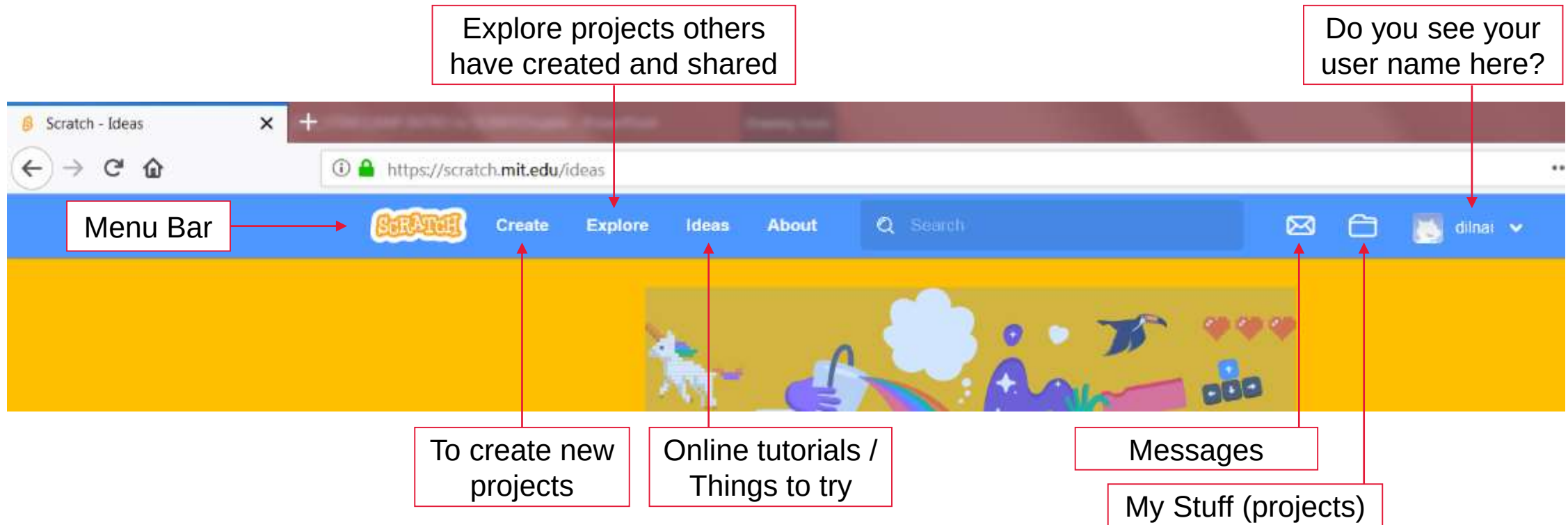
A blue login form with two input fields labeled 'Username' and 'Password'. Below the fields are two buttons: 'Sign In' and 'Need Help?'. A red arrow points from the 'Sign in' button on the website screenshot to this form.

Sign in using your
user name and
password.

- 1 Open a web browser (Chrome, Edge or Firefox)
- 2 Type into the address bar: <https://scratch.mit.edu/>

- 3 Click on [Sign In](#)
- 4 Enter your user name and password to login

Explore the Scratch web site



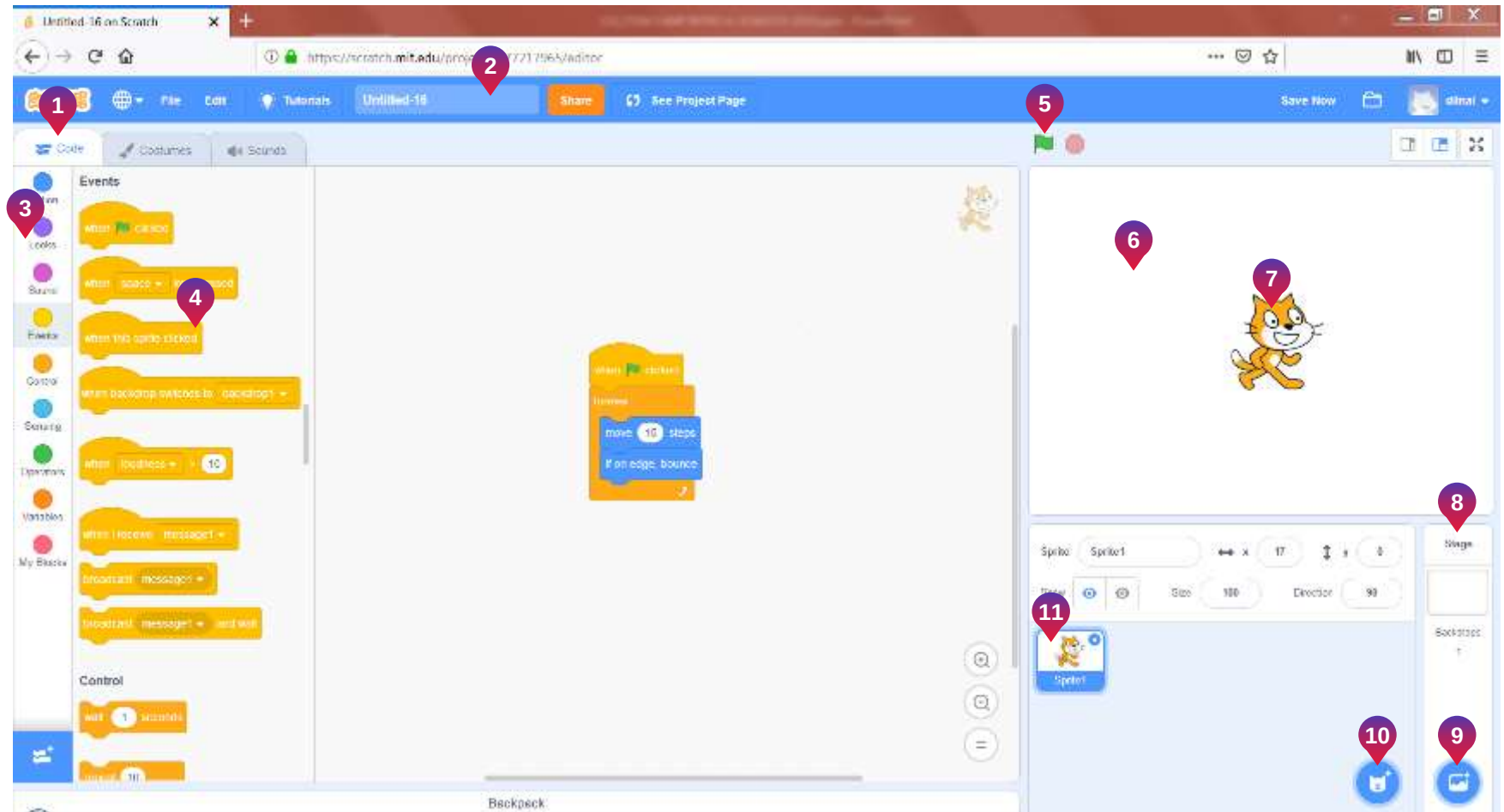
- 1 Check to ensure you are logged in
- 2 Click on each of the items on the menu bar and tell us what you see

Let's create!

**Click on the “create” tab
(it's the one on the upper right next to
“Scratch”)**

Orientation of project page

- 1 Tabs Area
- 2 Project Name
- 3 Block Categories
- 4 Blocks Palette
- 5 Green Flag
- 6 Stage
- 7 Sprite
- 8 Stage/Backdrop
- 9 Choose a Backdrop
- 10 Choose a Sprite
- 11 Sprite List



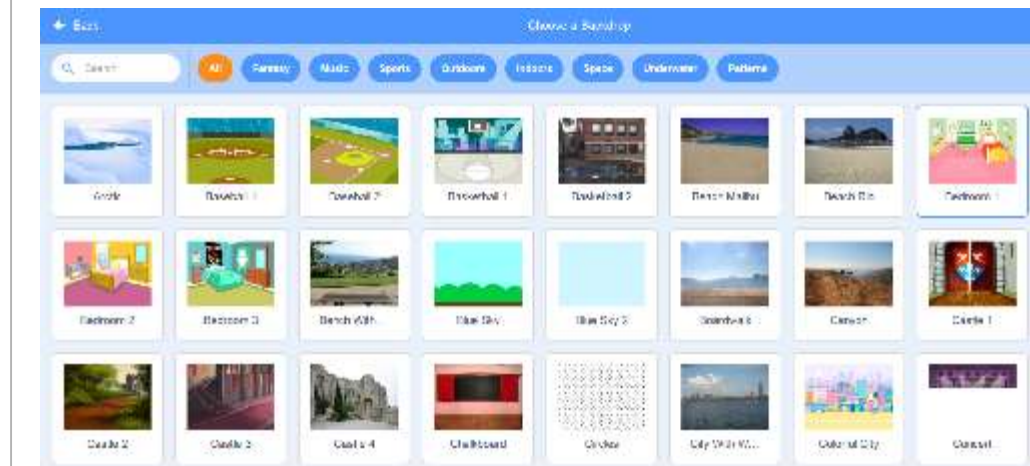
Backdrops (stage), sprites, and blocks

Blocks



How you give the computer instructions or commands. Under scripts you can see the different types of blocks that are available

Stage



This is where you can see your animations and games play out. You can use the backdrops from the library or even create your own

Sprite



Any object or character in your animation or game. You can use the sprites from the library or create your own

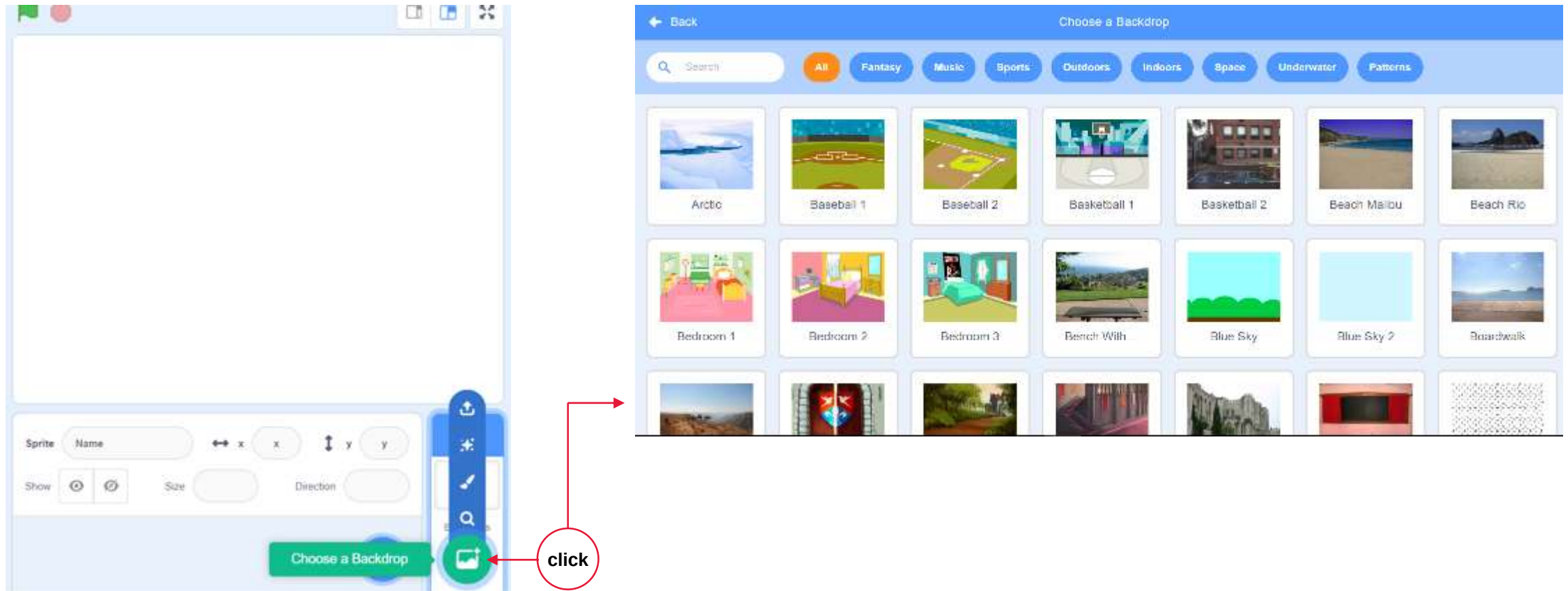
Animate your story

Interactive digital storybook



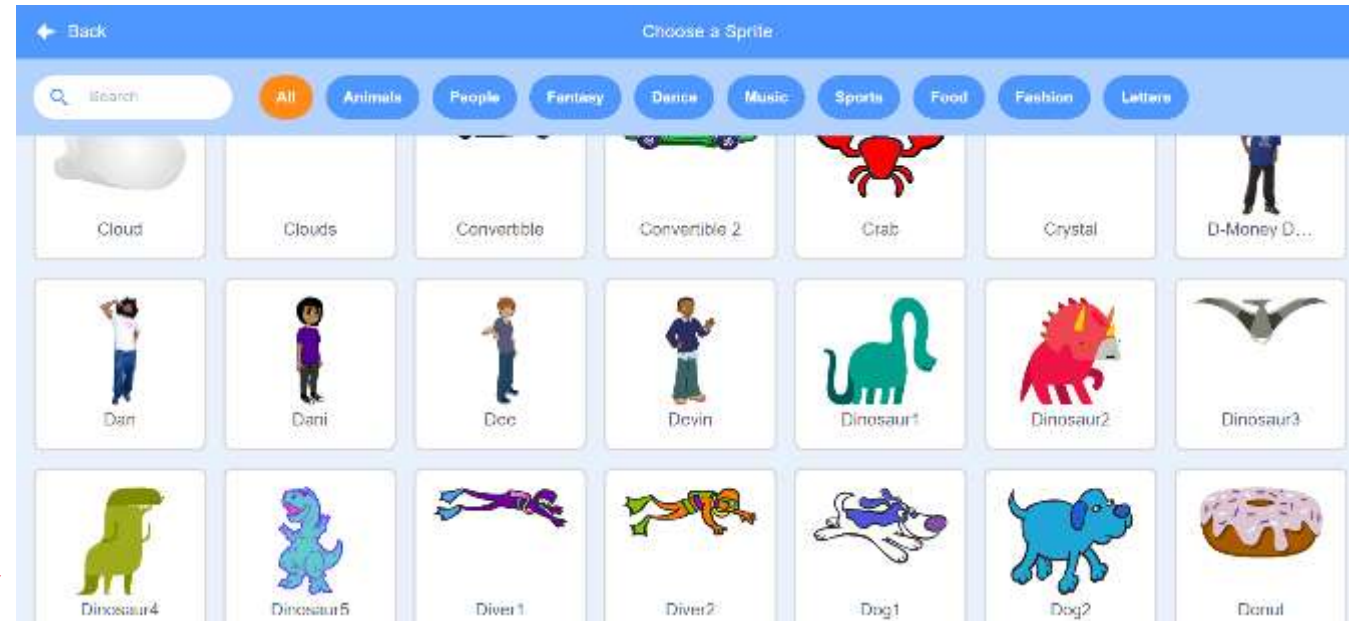
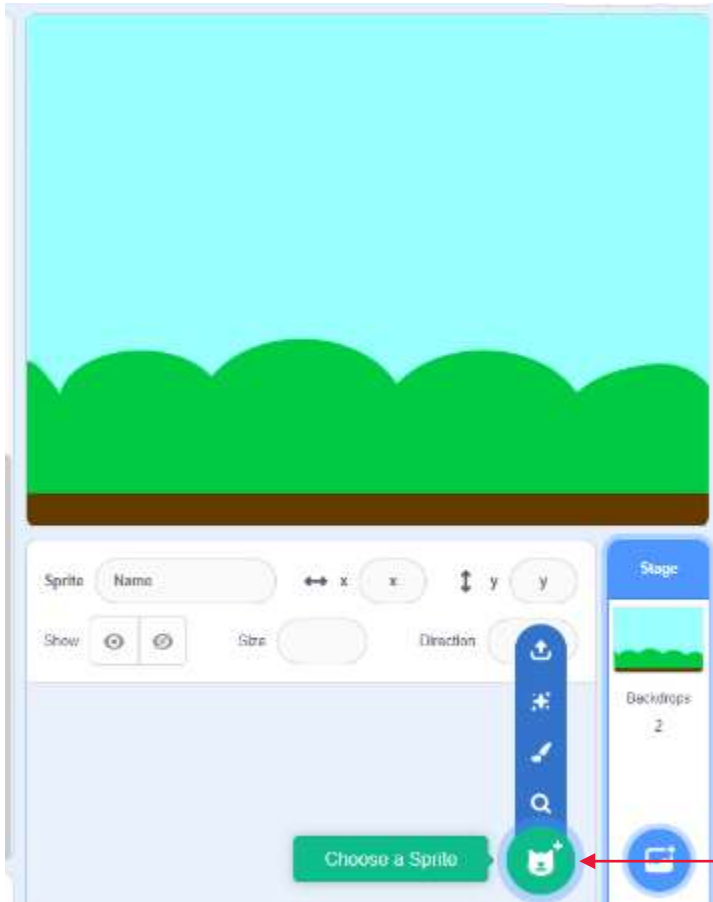
Create an interactive storybook

- Select the background you have chosen for your setting



Choose your sprite

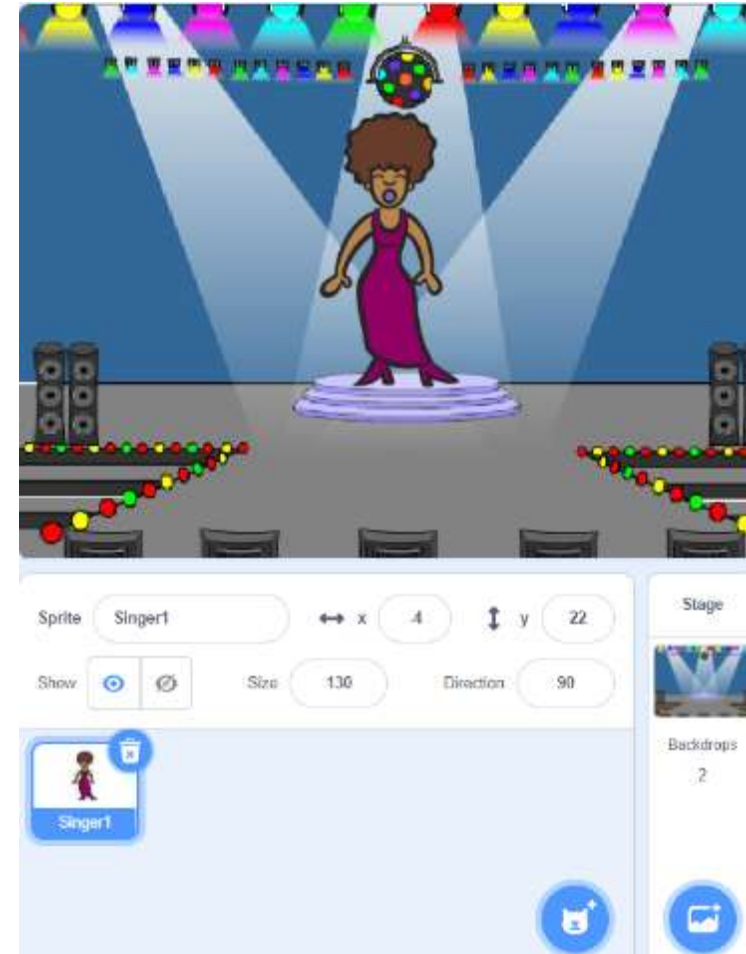
- Select your first sprite (character)



Move the new sprite or image into place

1 Resize and rotate the new sprite

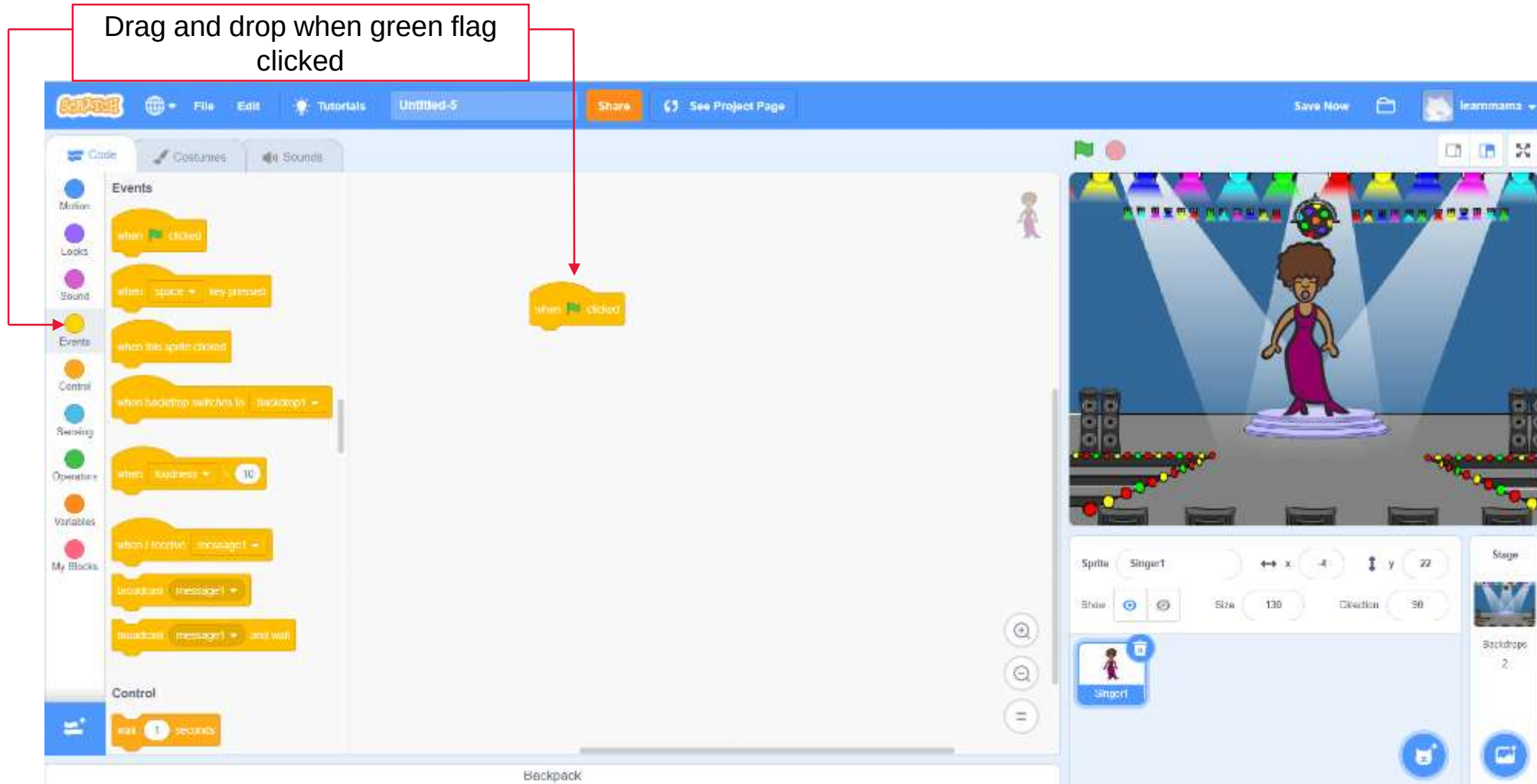
2 Click and drag sprite into place



How to set up your story

Choose events

Drag and drop when green flag clicked



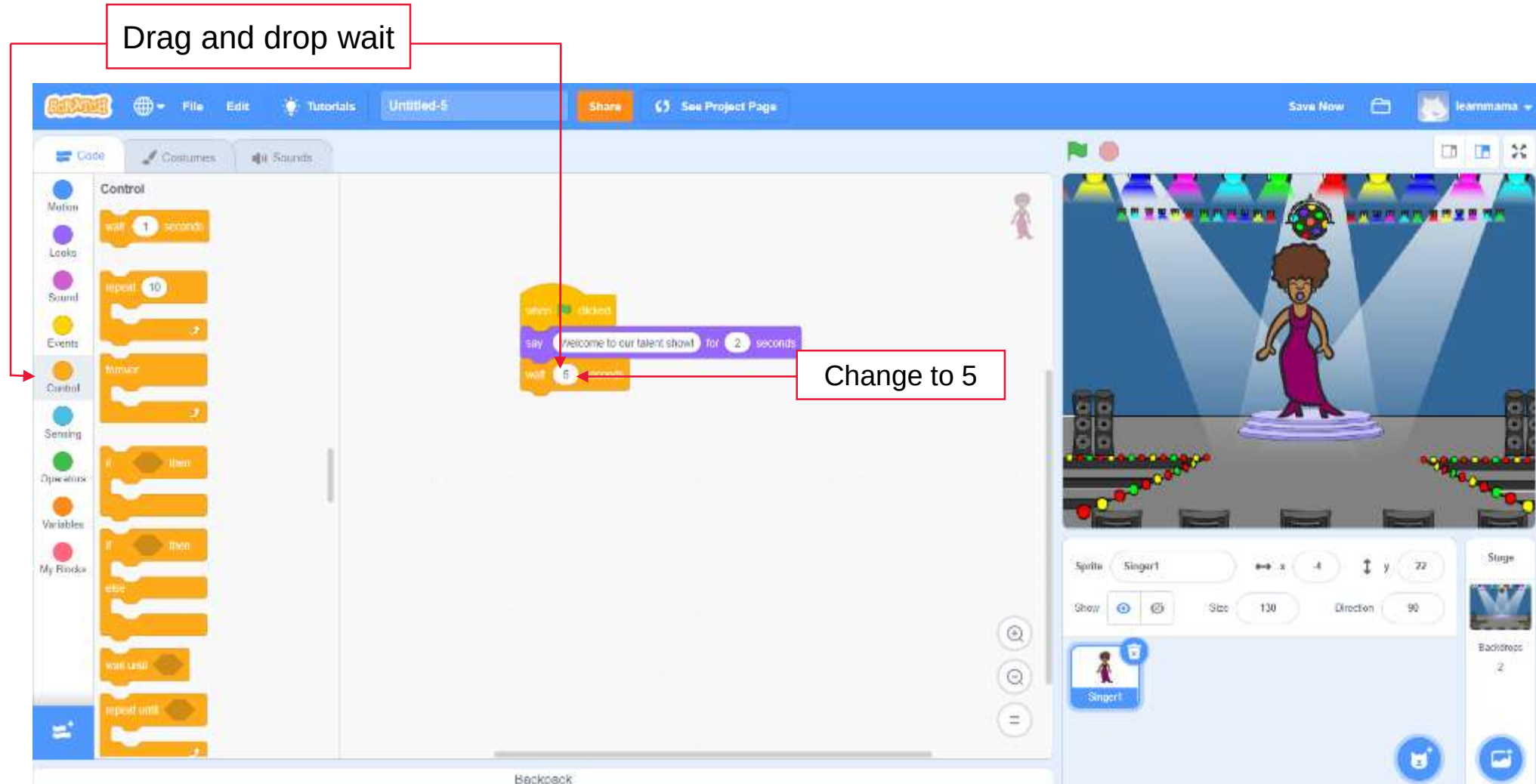
Choose looks

Drag and drop say

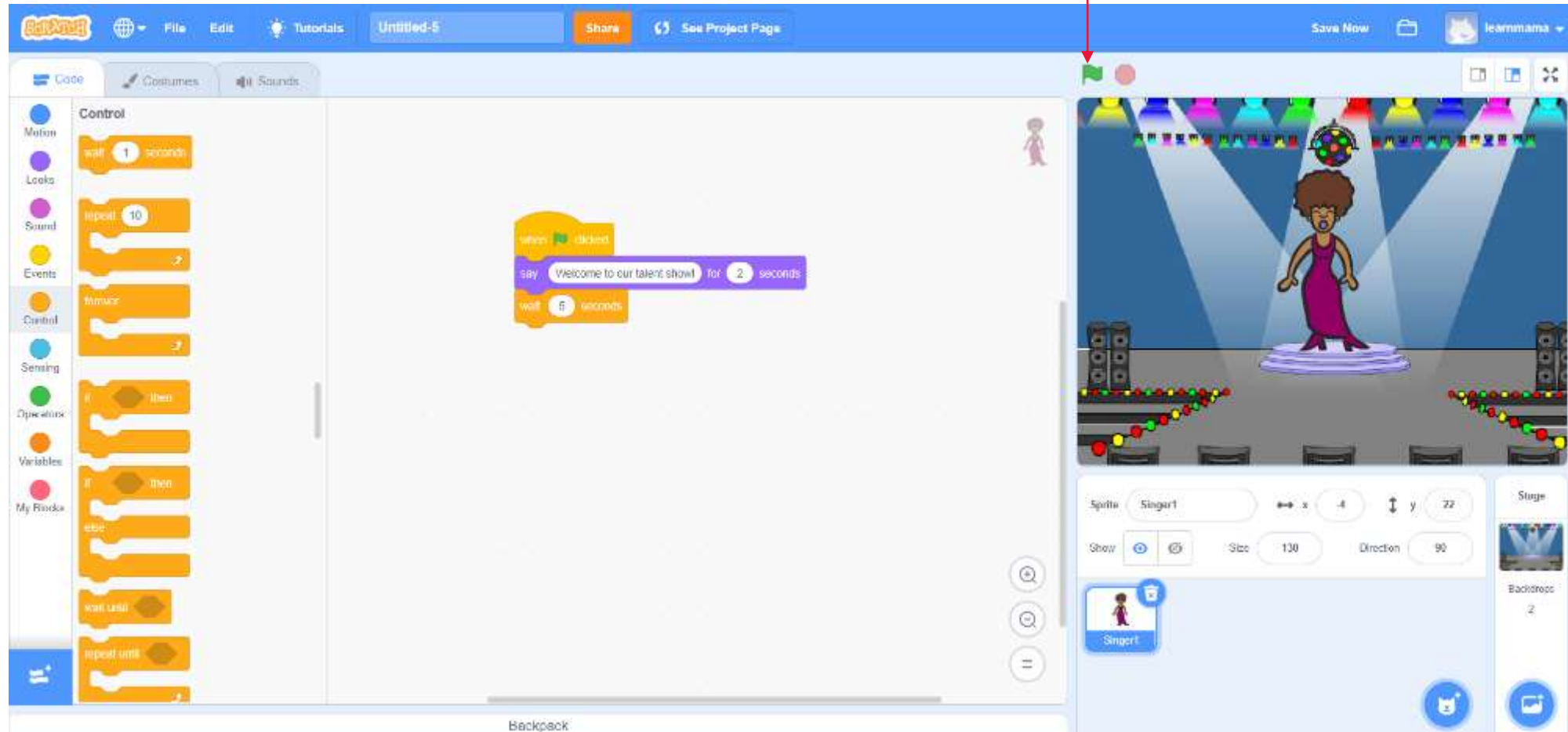
Change words

The screenshot shows the Scratch 3.0 interface. On the left, the 'Looks' category is selected in the sidebar. A script is being edited in the center: 'when clicked' followed by a 'say' block. A red arrow points from the 'say' block in the sidebar to the 'say' block in the script area. Another red arrow points from the text 'Change words' to the text 'Welcome to our talent show' inside the 'say' block. The stage shows a character in a purple dress on a stage with spotlights. The bottom right shows the 'Sprite' panel with 'Singer1' selected.

Choose control

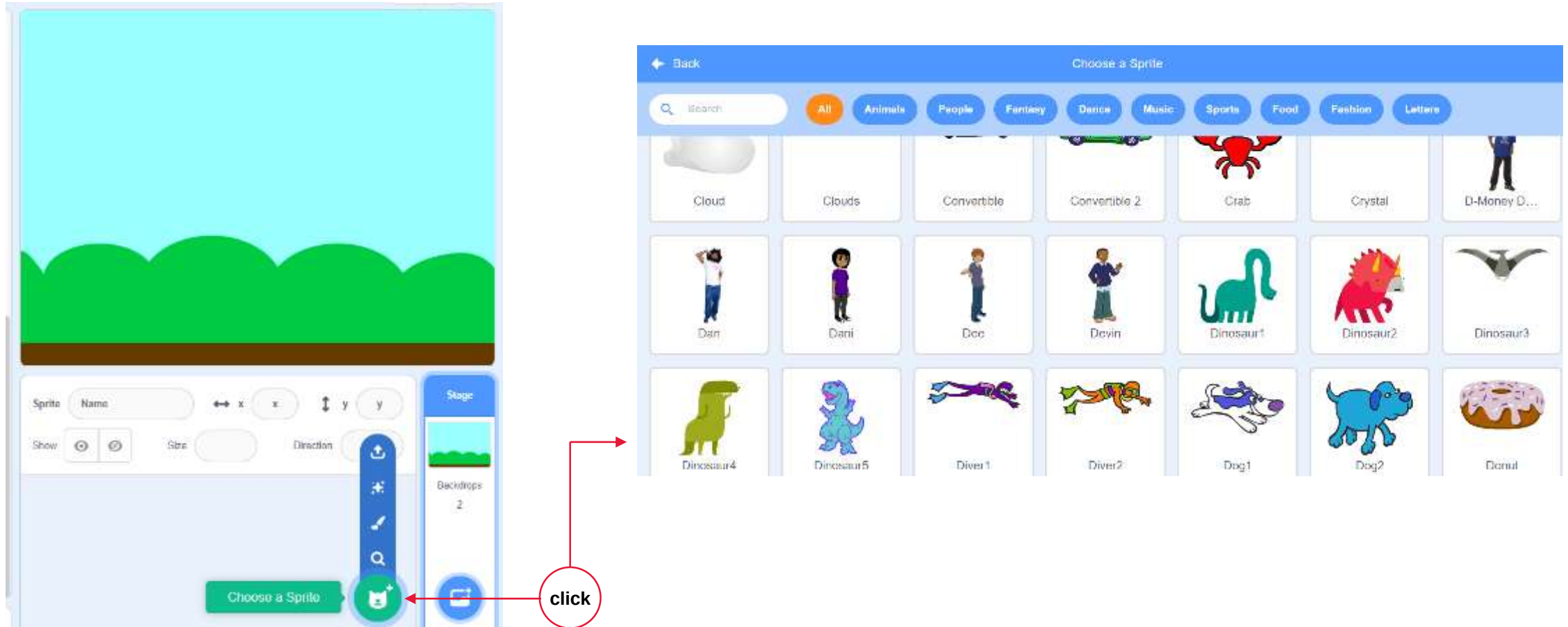


Choose green flag



Choose another sprite

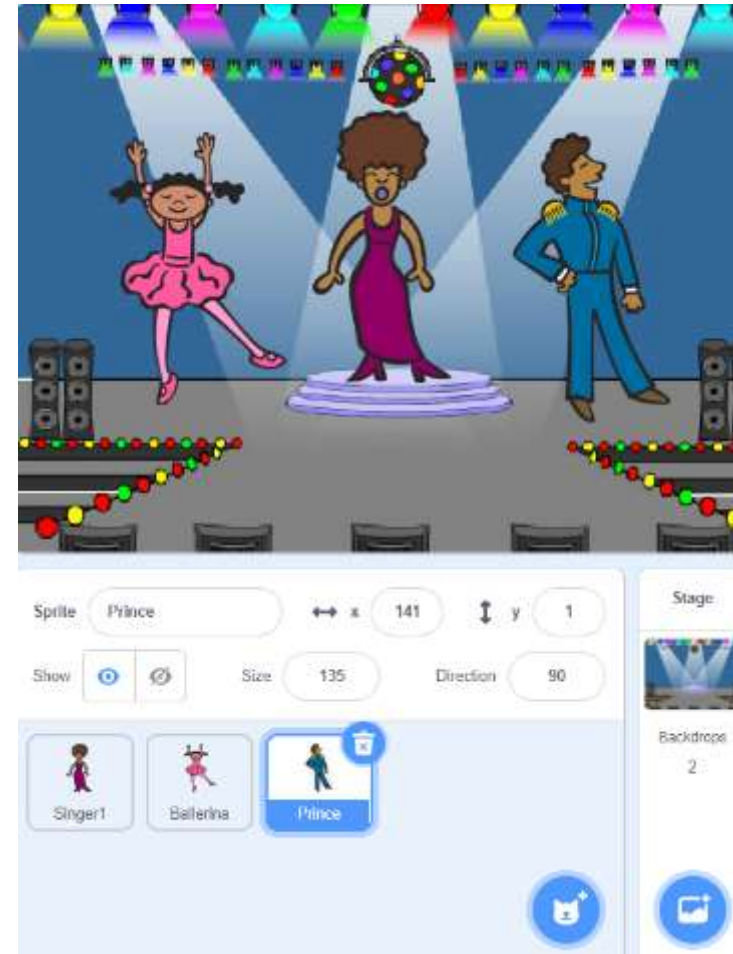
- Select the next sprite



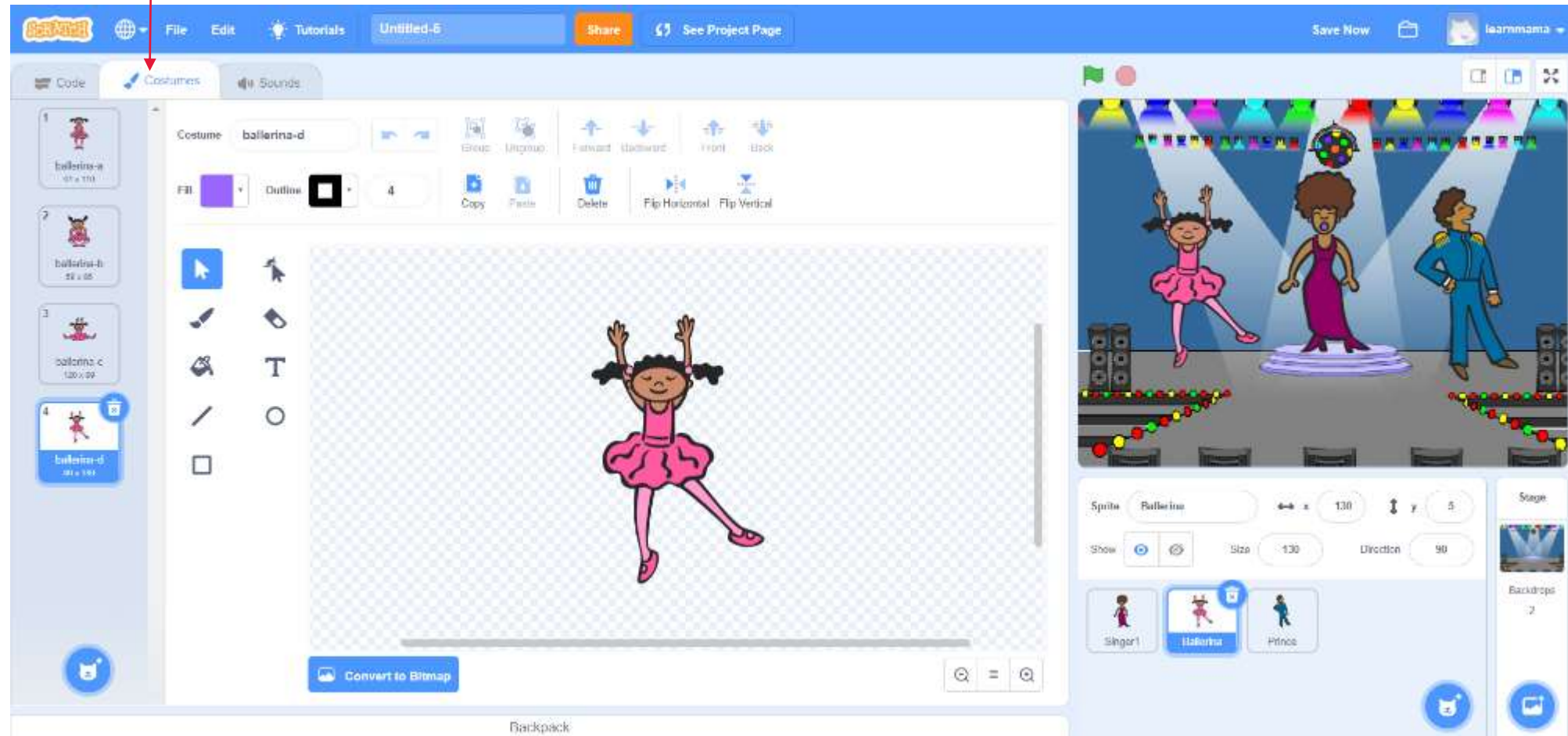
Move the new sprite or image into place

1 Resize and rotate the new sprite

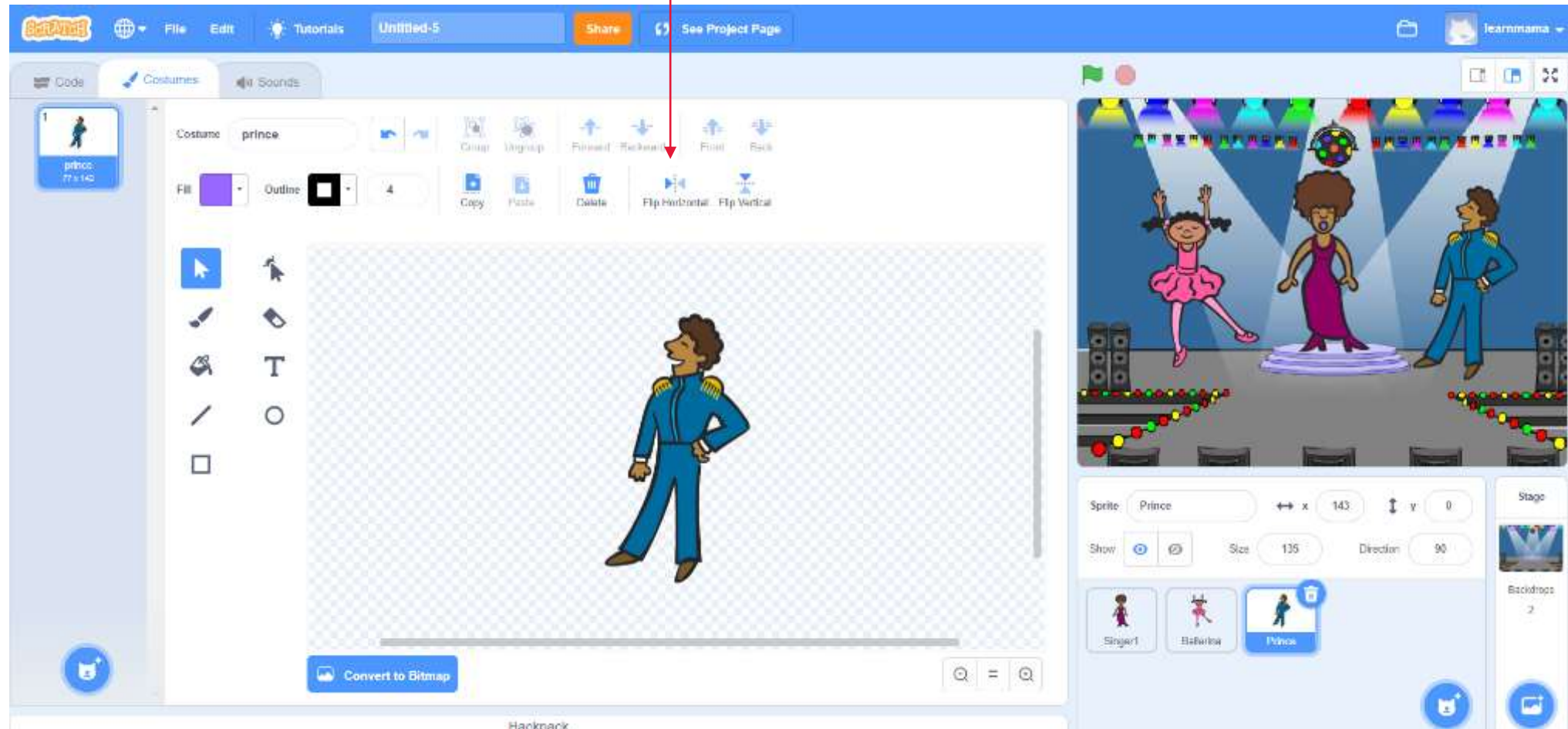
2 Click and drag sprite into place



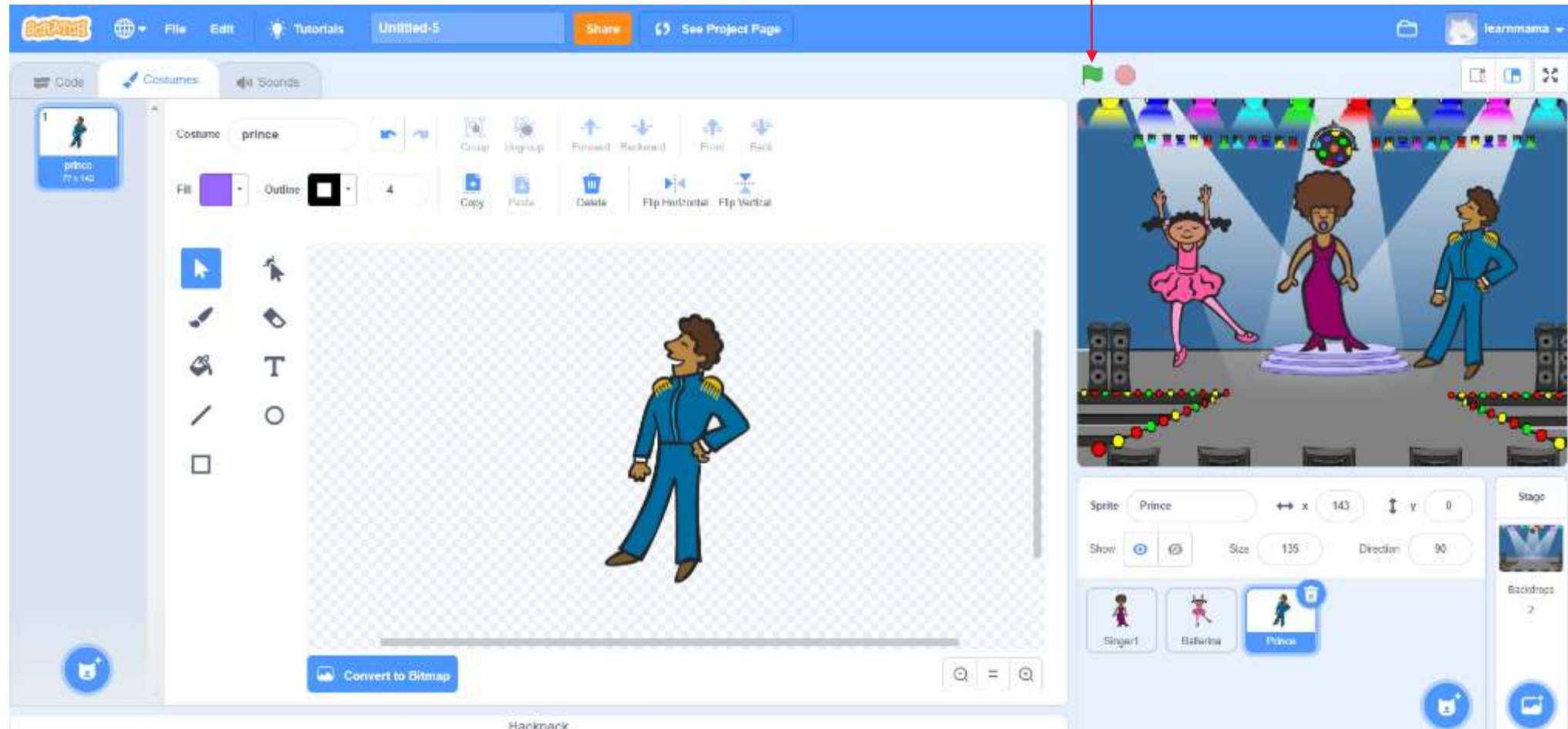
Choose costumes



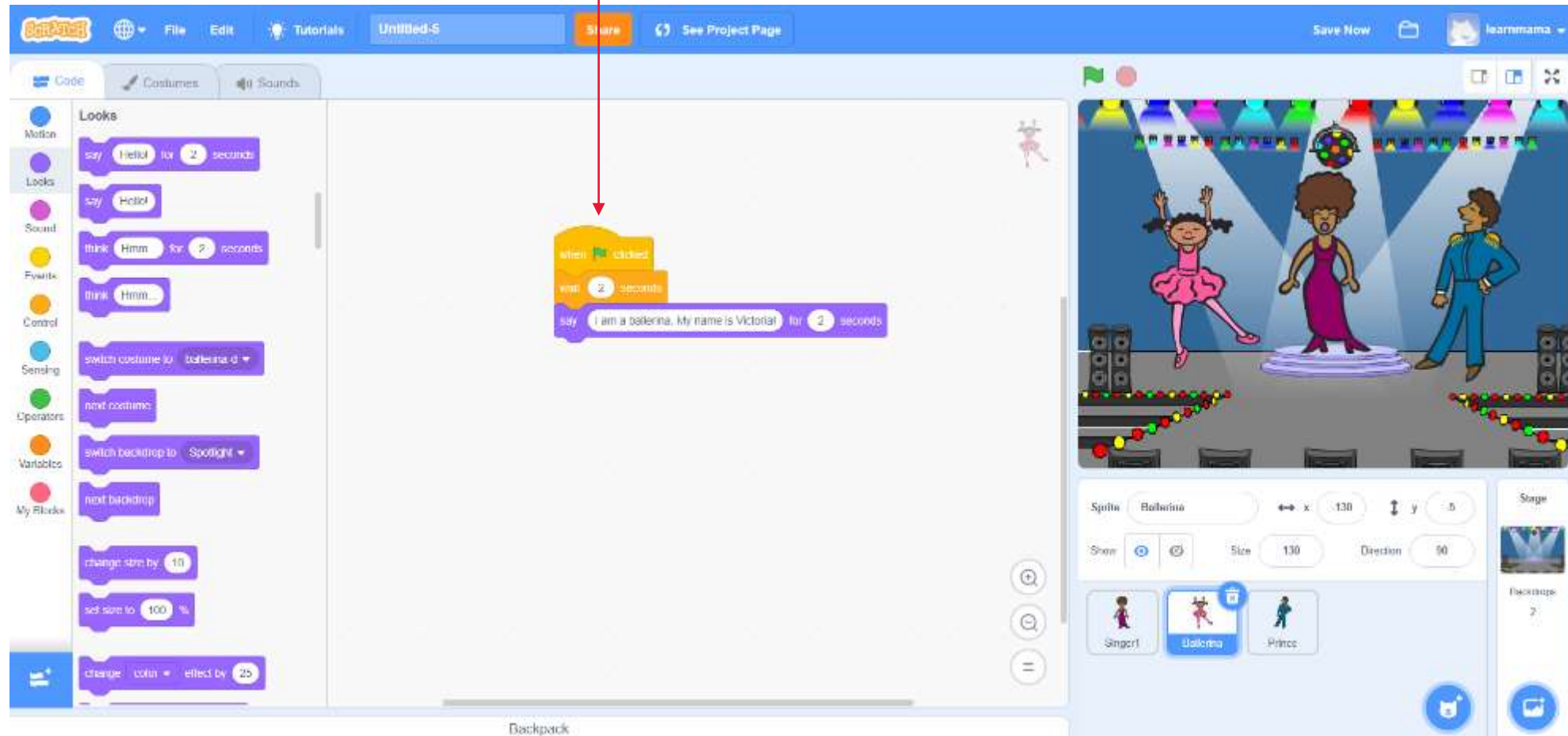
Choose flip horizontal



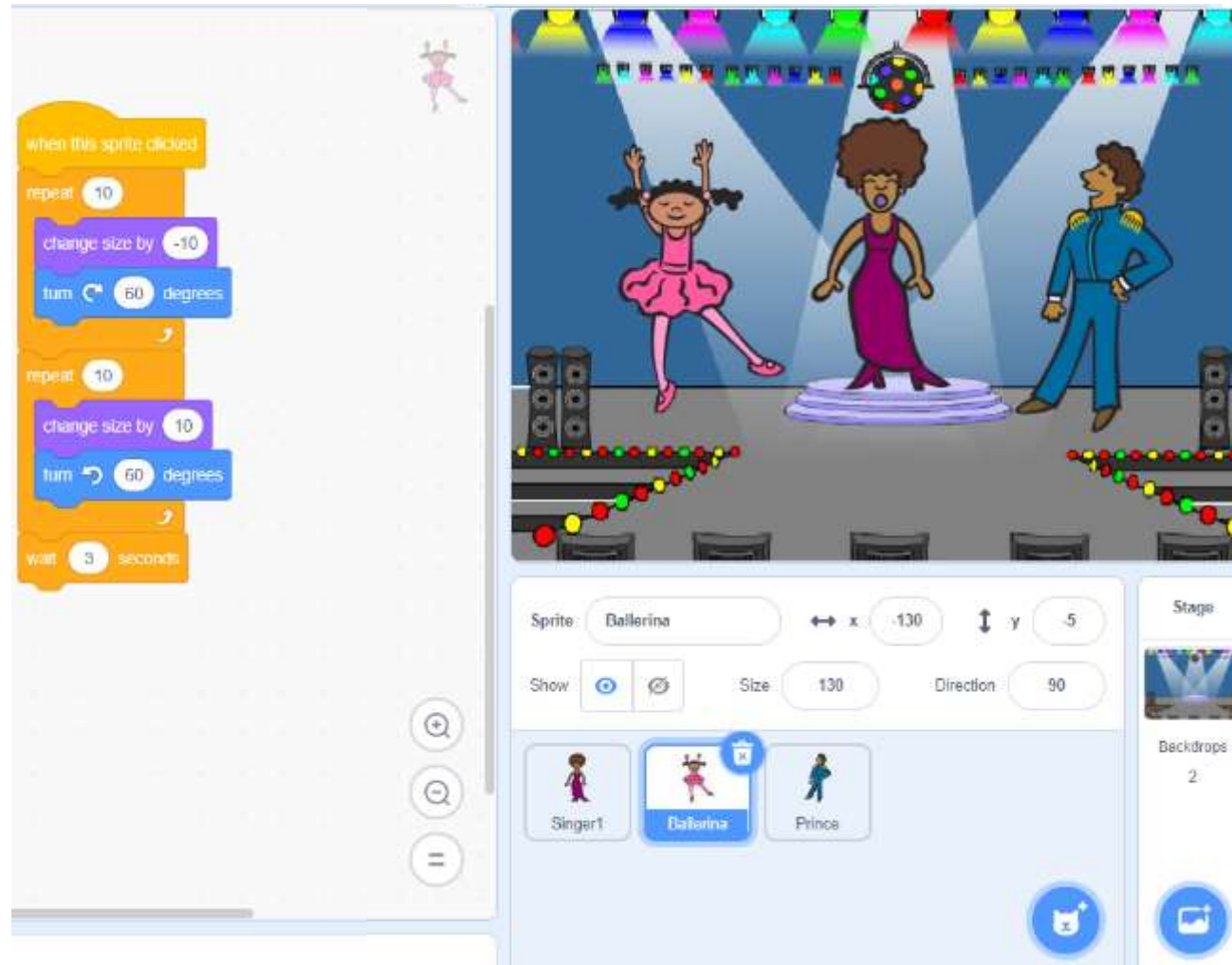
Save your work!



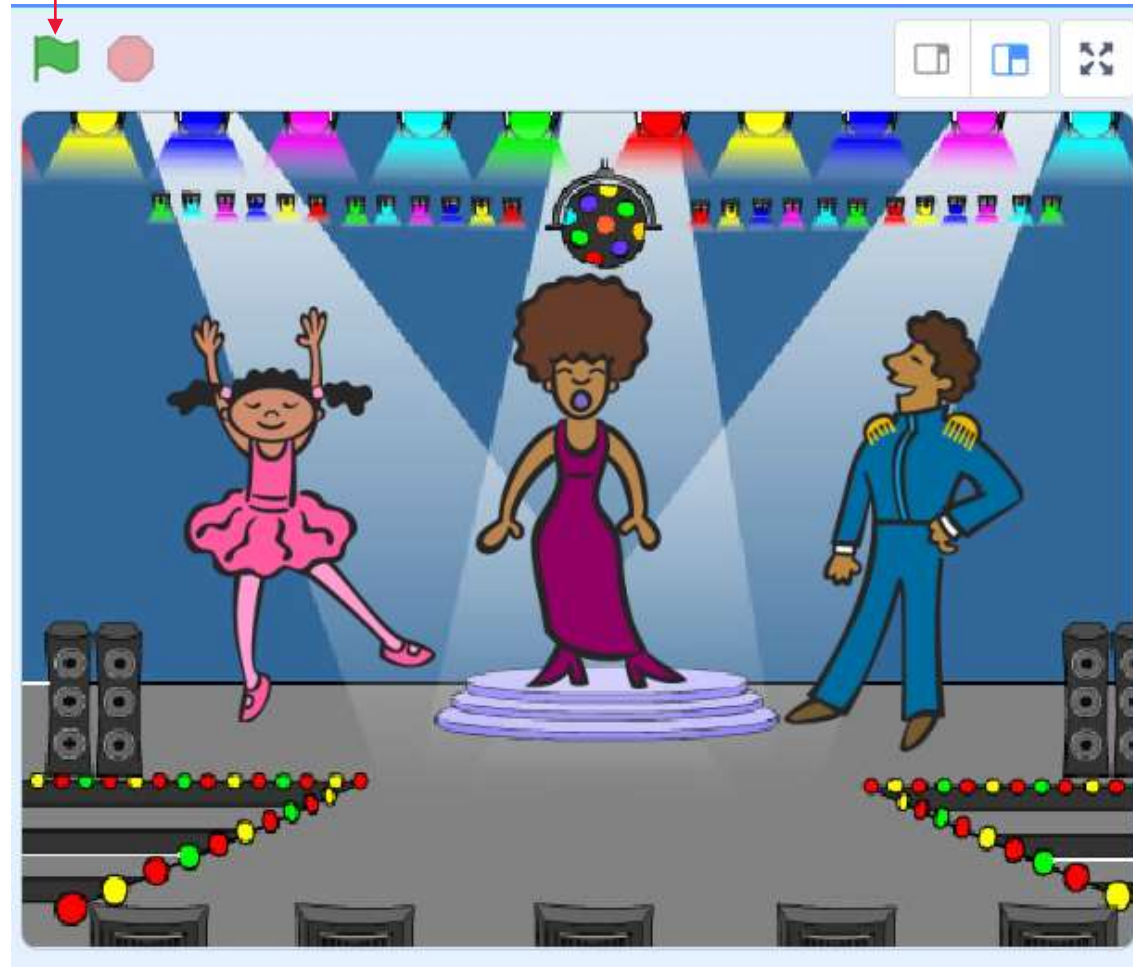
Build a conversation



Drag and drop code blocks to animate



Choose “green flag”



Next steps!

Finish your story

- 1
 - Add more to conversation to your characters
 - Choose new sprites to add characters or items
 - Create a full story with a beginning, middle and ending
- 2 Showcase your interactive story with your family, friends and/or community members

Want some more stories and storytelling ideas about the black experience for Black History Month?

Go to the [National Park Service](#) website.

Virtual activities

Experience the story of our genes

Appropriate for ages 11+

Try out [In and Beyond Africa](#) virtual video game to experience the story of our genes (genomic code)!



In & Beyond Africa (IABA) is an animated set of interactive learning game that opens with an overview of human migrations throughout Africa and beyond! [Find out more on Genome: Unlocking Life's Code.](#)

Objective—

Learn about the rudiments of prehistoric tool making, the genetic basis of human skin pigmentation and genetics facts of a number of domesticated crops and animals.

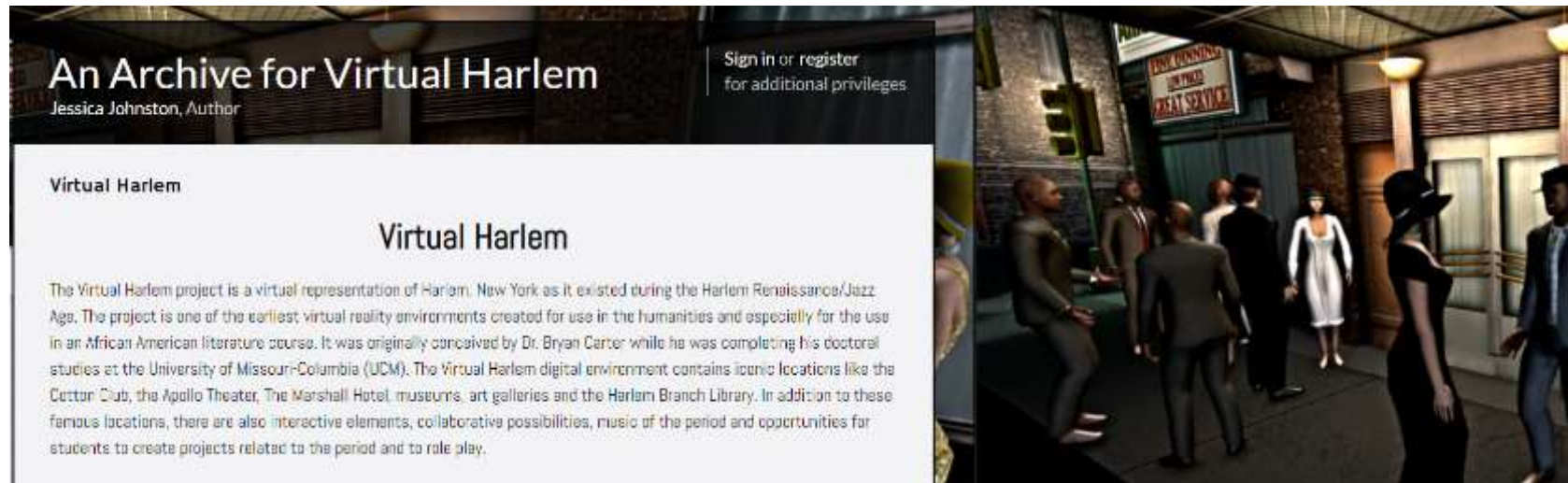


Virtual Harlem

Appropriate for ages 14+

Experience a virtual representation of the Harlem Renaissance/Jazz Age in Harlem, New York!

This archive includes interactive elements, collaborative possibilities, music of the period and opportunities for students to create projects related to the period and to role play.



Three-dimensional (3D) virtual reality and graphic art is becoming an increasingly popular technology used in the Computer Science and IT industry to tell stories of objects, places and times we would never be able to experience in two-dimensional (2D) formats such as pictures or words. Try making your own 3D experience with [Alice3](#)!

Go to the [An Archive for Virtual Harlem](#) website.



Our commitment

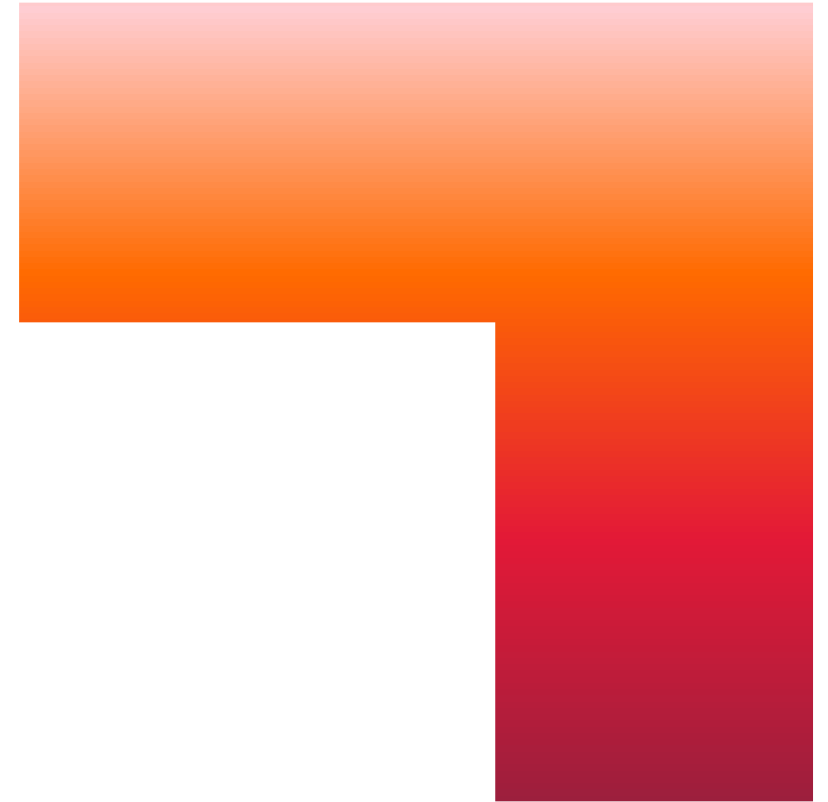
We are passionate about helping students in our communities become the next generation of information technology professionals.

Insights you can act on

Founded in 1976, CGI is among the largest IT and business consulting services firms in the world.

We are insights-driven and outcomes-based to help accelerate returns on your investments. Across hundreds of locations worldwide, we provide comprehensive, scalable and sustainable IT and business consulting services that are informed globally and delivered locally.

cgi.com



The CGI logo, consisting of the letters 'CGI' in a bold, red, sans-serif font.

Citations

- <https://www.pacificsciencecenter.org/events-programs/blackhistory/>
- <https://www.nlm.nih.gov/exhibition/aframsurgeons/canady.html>
- <https://www.nps.gov/articles/000/parks-named-in-honor-of-african-americans.htm>
- Johnston, Jessica. 2015. An Archive for Virtual Harlem. April 29. Accessed January 27, 2022.
<https://scalar.usc.edu/works/harlem-renaissance/title-page>.
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