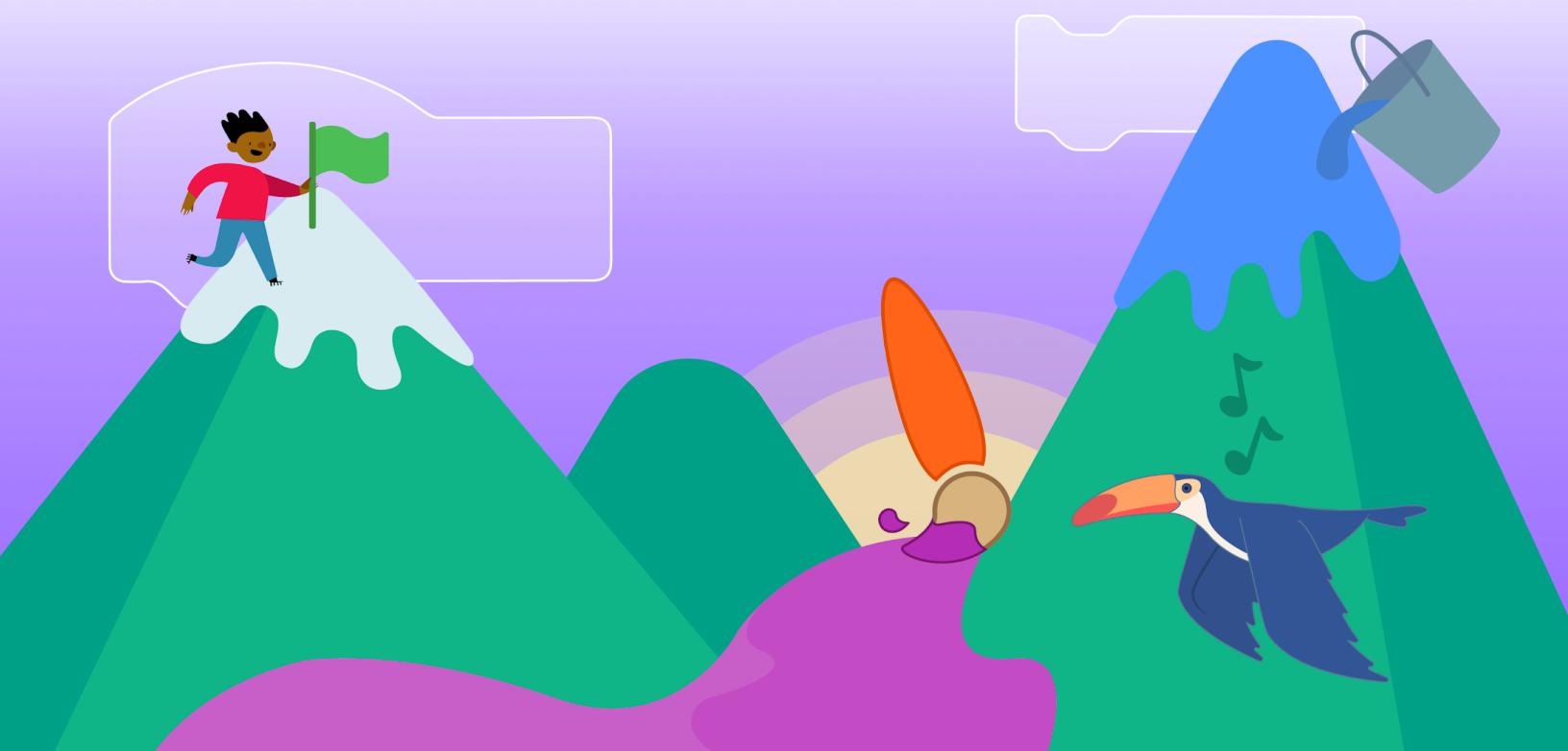


# Getting Started with

# SCRATCH

Create your own games, animations,  
interactive stories, and more!



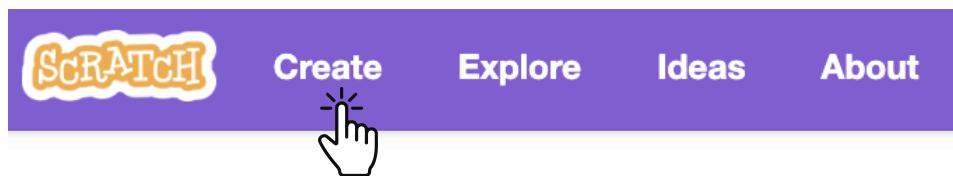
# Getting Started



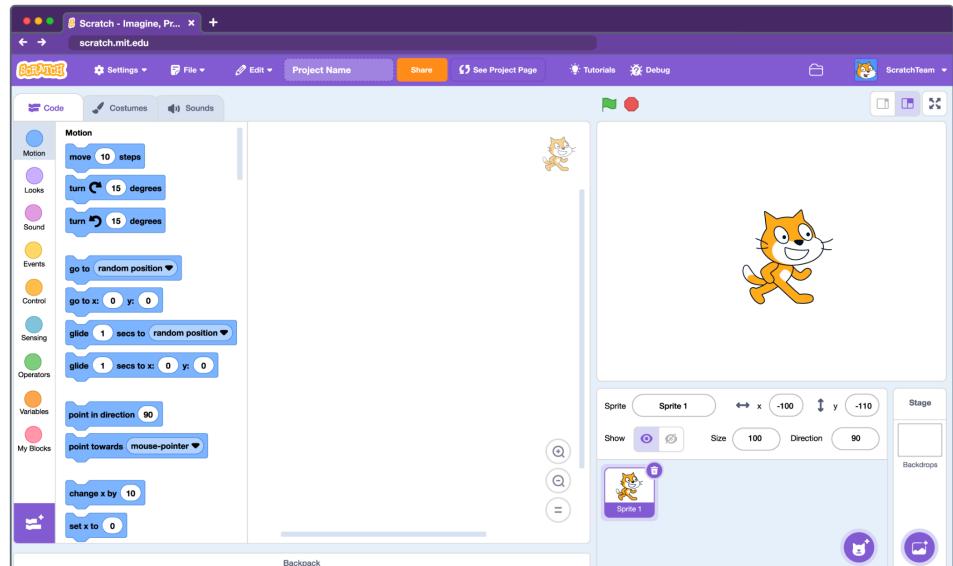
Access Scratch online at: [scratch.mit.edu](https://scratch.mit.edu)

go to: [scratch.mit.edu](https://scratch.mit.edu)

Once you've navigated to scratch.mit.edu, click **Create**.



This will bring you to the **Scratch Editor**, where you can start creating projects. (Create or log in to your free Scratch account to save projects.)



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If your computer uses an older operating system, or your internet connection is unreliable, you can **download Scratch** and use it offline.



Visit <https://scratch.mit.edu/download> for information on downloading and installing the Scratch app.



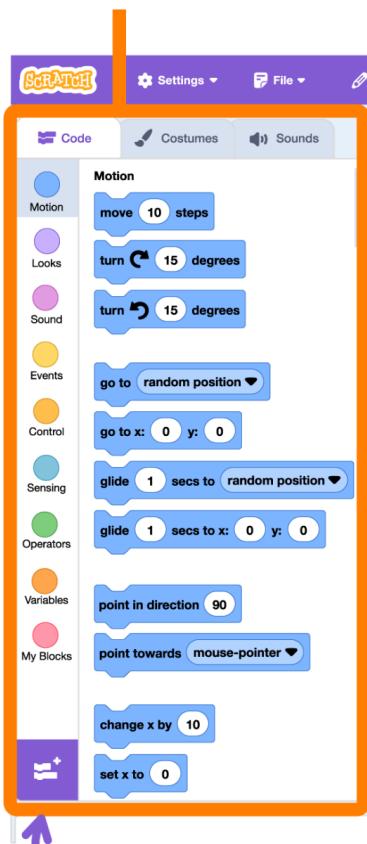
# The Scratch Editor



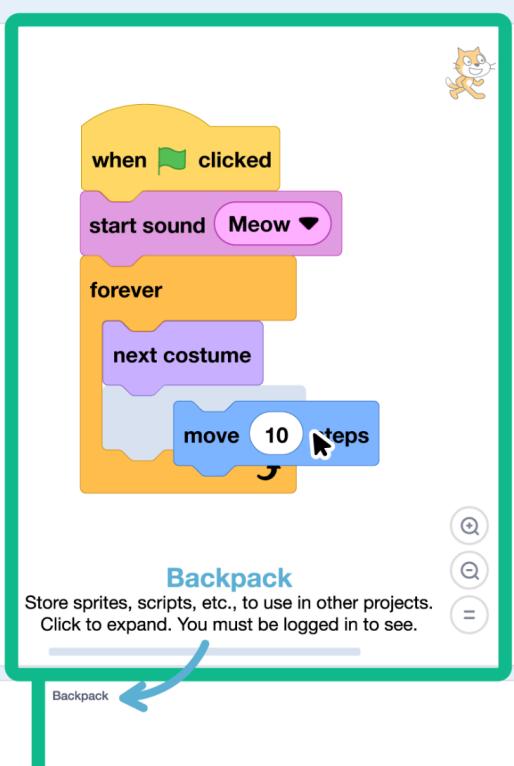
The Scratch Editor is where you create projects in Scratch.  
Here are its main parts:

## Block Palette

Blocks for coding your projects.



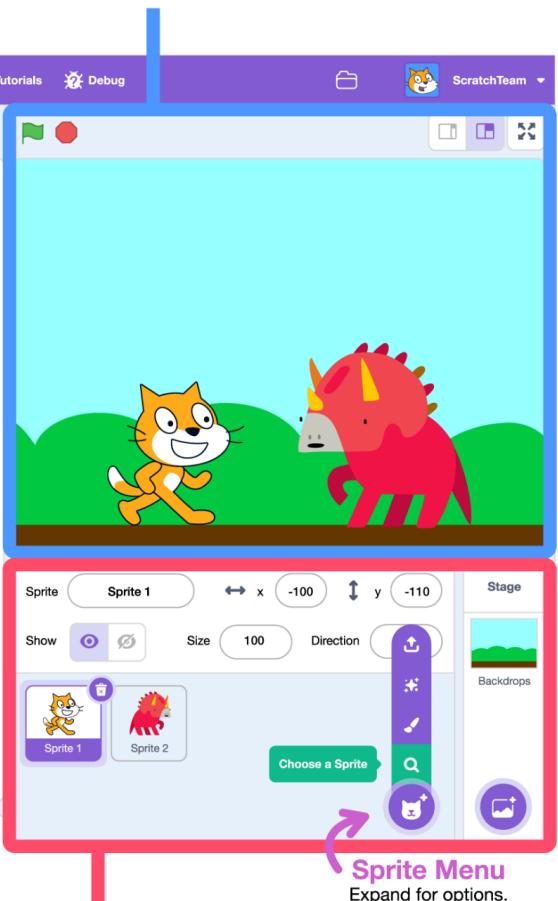
Extension Menu  
Additional blocks available.



Backpack  
Store sprites, scripts, etc., to use in other projects.  
Click to expand. You must be logged in to see.

## The Stage

Where your creations come to life.



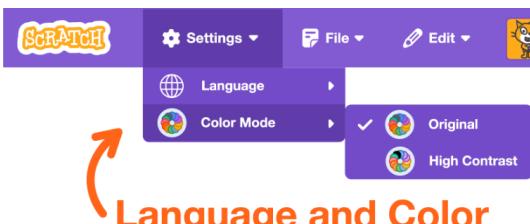
Sprite Menu  
Expand for options.

## Coding Area/Script Area

Drag in blocks and snap them together.

## Sprite Area

Click the thumbnail of a sprite to select it.



## Language and Color

Original or high contrast blocks available.

## Share or Remix

You must be logged in to see.



## Help

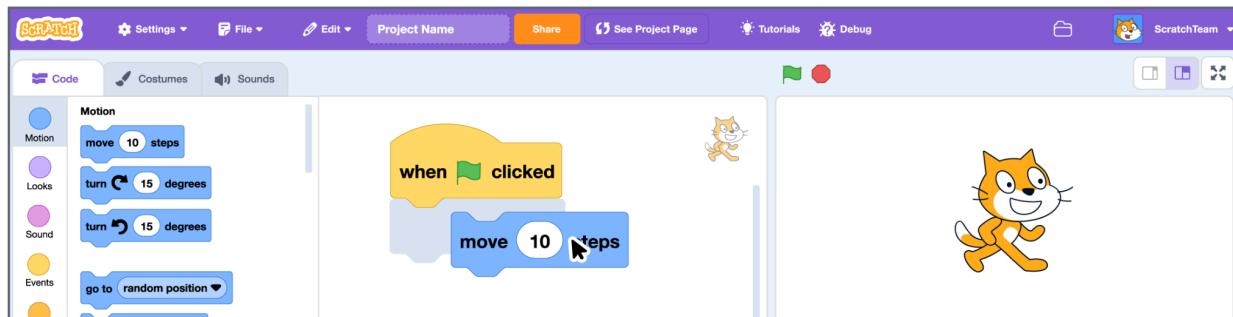
Access saved projects.



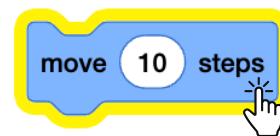
# Let's Code!



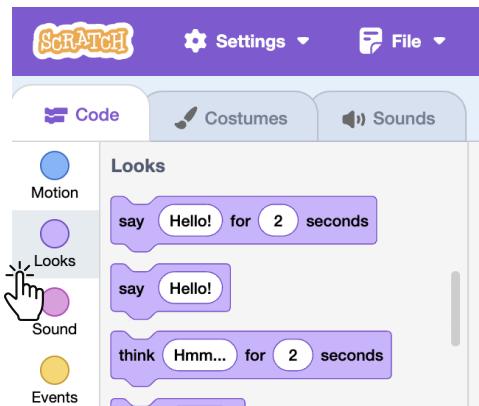
To code projects in Scratch, you snap together blocks.  
Start by dragging out a **"move"** block.



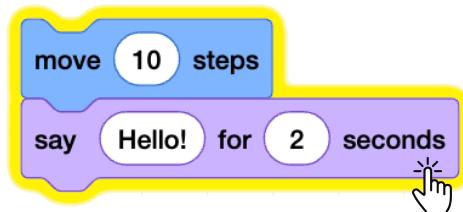
Click the block to try it. Does your cat move?



Now say something!  
Click the **Looks** category.



Drag out a **"say"** block.  
Snap it onto the **"move"** block.  
Click on your blocks to try them.





# What Is a Sprite?

In Scratch, any character or object is called a sprite.  
Every new project in Scratch starts with the Cat sprite.

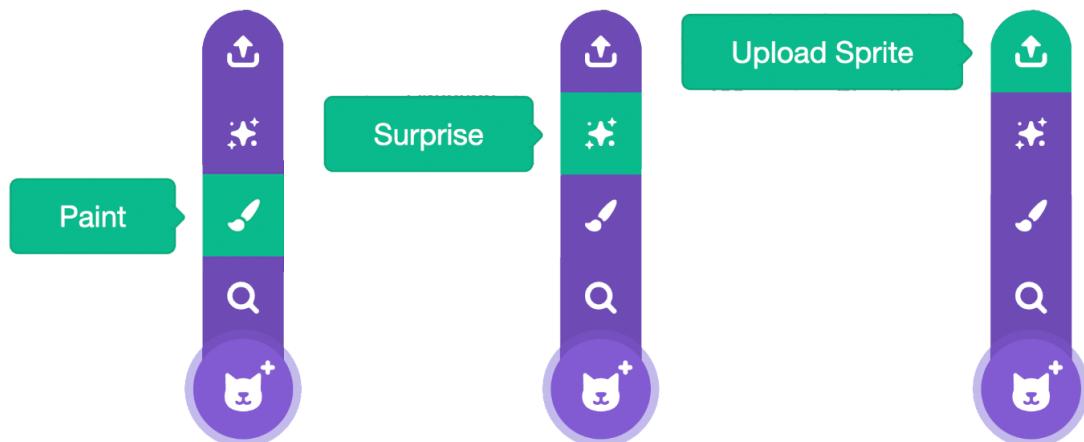


Want to choose a different sprite?

Click the **New Sprite** icon to choose a sprite from the library.



Or, hover over the New Sprite icon to see more options to draw your own sprite, get a surprise sprite, or upload an image from your computer.



Download our *Sprite Creation coding cards* from the Learning Library for more tips and tricks: [scratchfoundation.org/learn/learning-library/sprite-creation](https://scratchfoundation.org/learn/learning-library/sprite-creation)

Want to **delete a sprite** from your project?



First, select the sprite by clicking on its thumbnail in the Sprite List. Then, click the trash can to delete the sprite.



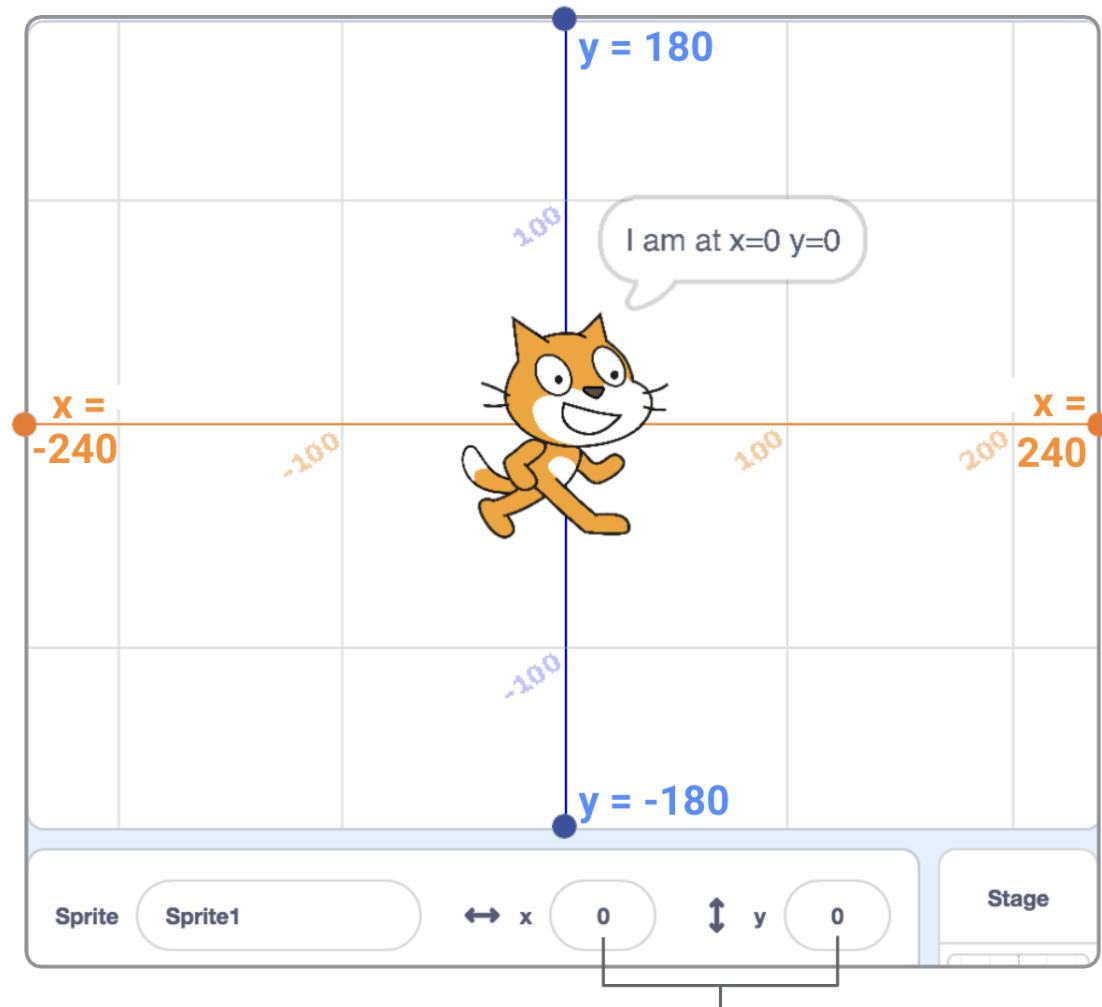
# Where Is Your Sprite?

Every sprite has an **x and y position** on the Stage.

x is the position of the sprite from left-to-right.

y is the position from top-to-bottom.

At the very center of the stage, x is 0 and y is 0.



When you move your sprite, you can see its x and y position change.

Find resources to learn more in our Learning Library:

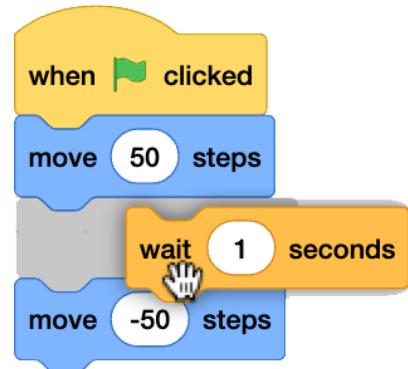
[scratchfoundation.org/learn/learning-library/x-y-coordinates-grids](https://scratchfoundation.org/learn/learning-library/x-y-coordinates-grids)

# Quick Tips



Something not working as expected?

**Add temporary waits** to slow down the action and give you time to process if a piece worked or not. Once you know the code is working, you can remove these waits.



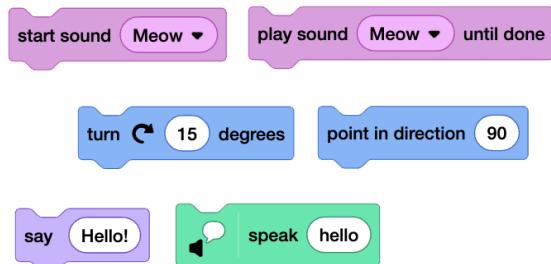
**Try adjusting the order/the sequence** of the blocks. Ask yourself: What needs to happen first? What needs to happen second?

**Separate the blocks** and click on each individually to see what it does. Is there a **similar but different** block option that might work better in your sequence?

**First...**

**Second...**

**Third...**



**Debugging** is finding the errors in your code. Click on the bug in the Scratch Project Editor to find helpful tips on how to find and fix issues. Or see additional resources in our Learning Library [scratchfoundation.org/learn/learning-library/debugging](https://scratchfoundation.org/learn/learning-library/debugging).

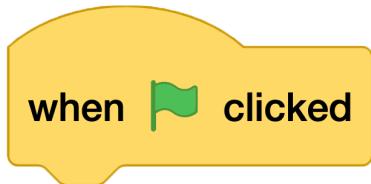


# Next Steps



Many Scratch projects are started when the user clicks the green flag above the stage.

Click the **Events** category and drag out the block you want to activate your code sequence. Attach your code sequence to the event block and click the green flag to test.

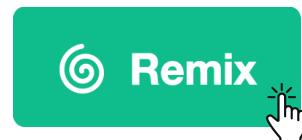


You can choose to share your projects with the global Scratch community by clicking the **Share** button on your project page.

- Sharing projects allows others to experience your program and see inside to explore your code.
- Projects can be unshared at any time (under “My Stuff”). And commenting can be turned on or off, based on your preference.



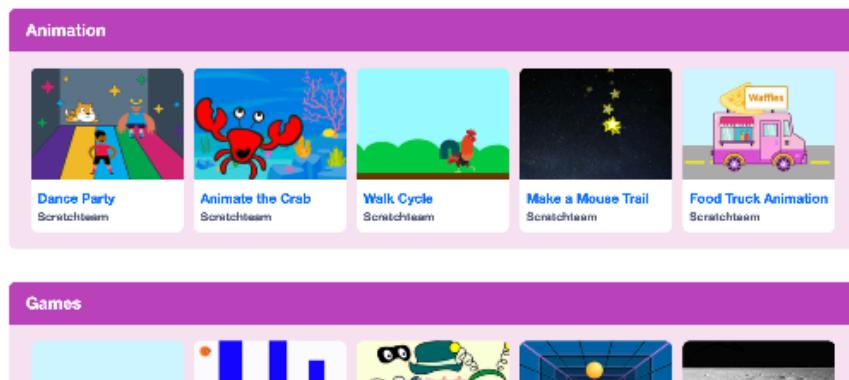
Embrace remix culture! Remixing is encouraged in the Scratch community, as it is a great way to collaborate and connect with others and can lead to new ideas and also help others grow as creators. Click the **Remix** button on any shared project to create a copy. Then, make a meaningful change to the project to personalize it and make it your own.



# Starter Projects



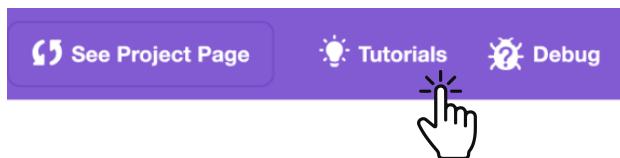
Starter projects include some simple code you can remix to make your own creations, so you don't have to start from scratch! Find some at [scratch.mit.edu/starter-projects](https://scratch.mit.edu/starter-projects). "See Inside" to get started.



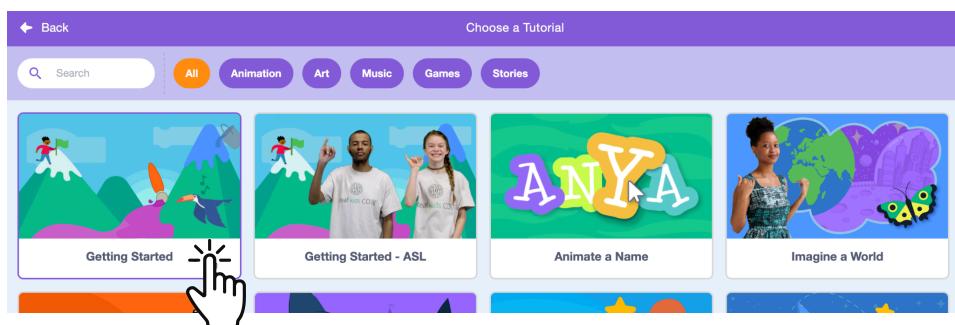
## Tutorials

There are a range of tutorials available in the Scratch Tutorials Library, which guide learners in creating projects with Scratch. Students can get started making their own stories, animations, and games.

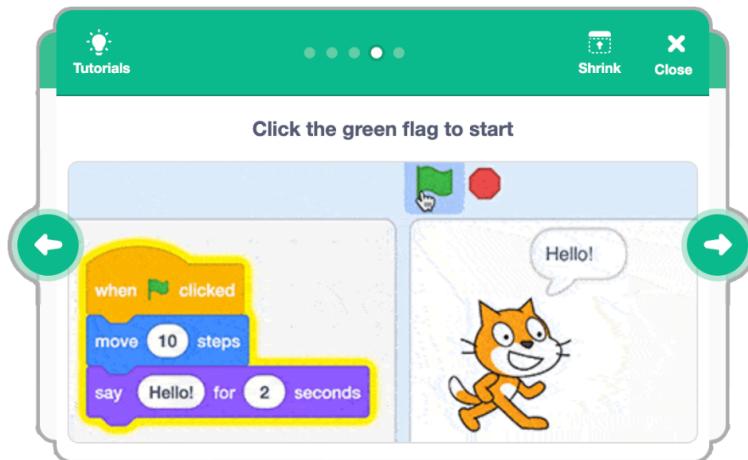
You can get to the **Tutorials Library** from the Scratch Editor by clicking the Tutorials button.



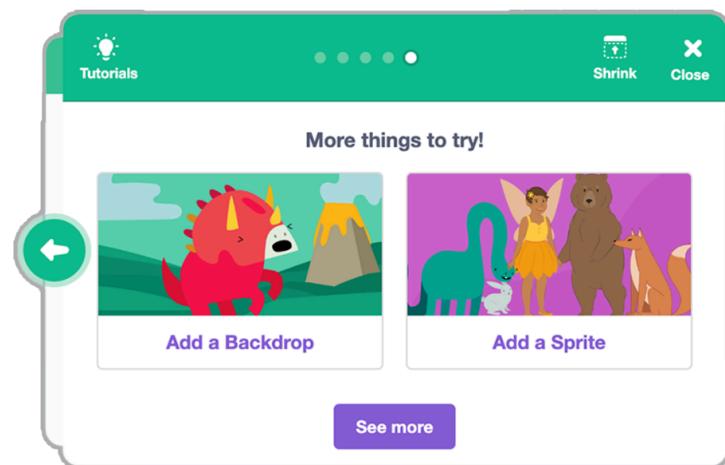
The **Getting Started tutorial** will walk you through the basics.



Once you've selected the tutorial, it will open in the Scratch Editor. Click the green arrow to see each step.



When you've reached the end of a tutorial you can select from another suggested tutorial, click the “See More” button to see all the Tutorials, or click the close button to continue to customize your project.



You can also look for **video tutorials** on our official Scratch YouTube page:  
[youtube.com/c/ScratchTeam](https://youtube.com/c/ScratchTeam).



# Coding Cards



The Scratch **Coding Cards** provide another way to learn to create projects with Scratch. Find coding cards in our Learning Library:

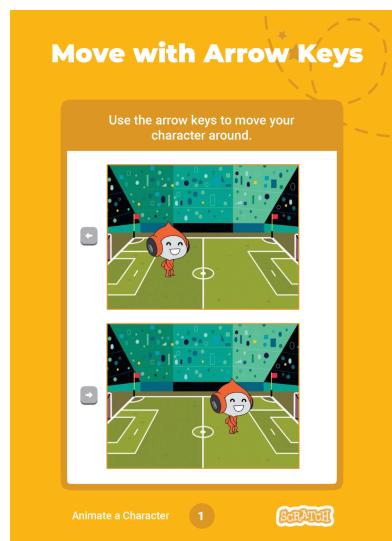
[scratchfoundation.org/learn/learning-library](https://scratchfoundation.org/learn/learning-library).



On the back of each title card is a list of cards in the set. In each set, you'll find examples of what you can create and cards walking you through each step of creating a project.

Once you've completed a card set, customize your projects by adding your own sprites, backdrops, sounds, and more!

The **Animate a Character** cards are a great set to start with.



See the front of cards for what you can create...



...and flip the card over to see how to do it.



# Get Creative!



Tinker, explore, and use your imagination as you create projects. There are many different ways to make Scratch projects unique:

## Create your own unique and original sprites and backdrops!

[scratchfoundation.org/learn/learning-library/sprite-creation](https://scratchfoundation.org/learn/learning-library/sprite-creation)

[scratchfoundation.org/learn/learning-library/backdrop-background](https://scratchfoundation.org/learn/learning-library/backdrop-background)



## Choose a sound or record your own.

[scratchfoundation.org/learn/learning-library/sound-music](https://scratchfoundation.org/learn/learning-library/sound-music)



Try changing numbers or adding blocks to your code to see what happens. Experiment and customize your project however you want!



## Level Up!

Ready to learn more? See our video tutorials and coding cards on:

- **Conditional Statements**

[scratchfoundation.org/learn/learning-library/conditional-statements](https://scratchfoundation.org/learn/learning-library/conditional-statements)

- **Variables and Lists**

[scratchfoundation.org/learn/learning-library/variables-lists](https://scratchfoundation.org/learn/learning-library/variables-lists)

- **My Blocks** custom blocks

[scratchfoundation.org/learn/learning-library/my-blocks-custom-blocks](https://scratchfoundation.org/learn/learning-library/my-blocks-custom-blocks)

- **Clones** [scratchfoundation.org/learn/learning-library/clones](https://scratchfoundation.org/learn/learning-library/clones)

- **Face Sensing** [scratchfoundation.org/learn/learning-library/face-sensing](https://scratchfoundation.org/learn/learning-library/face-sensing)

- **Pen Blocks/Turtle Graphics**

[scratchfoundation.org/learn/learning-library/pen-blocks-turtle-graphics](https://scratchfoundation.org/learn/learning-library/pen-blocks-turtle-graphics)

# Choose Your Color Mode



We want to make sure everything on the site is easy to read so more people can express themselves on Scratch, and we want to follow Web Content Accessibility Guidelines. So Scratchers have the option to use High Contrast blocks, which will be easier for some people to read, or stick with the original block colors as they work in the project editor.

Set your mode in the project editor under Settings > **Color Mode**. And you can always toggle the color mode back and forth if your preference changes.

The image shows the Scratch project editor interface. On the left, there's a toolbar with icons for Scratch logo, Settings, File, Edit, and My Projects. Below the toolbar, there are two dropdown menus: 'Language' and 'Color Mode'. The 'Color Mode' menu is open, showing two options: 'Original' (selected) and 'High Contrast'. To the right of the menu, there are two examples of Scratch scripts. The 'Original' mode script uses standard colored blocks (yellow, blue, pink). The 'High Contrast' mode script uses yellow blocks with black outlines and white text. Both scripts start with a 'when green flag clicked' hat block, followed by a 'forever' control block containing a 'turn C -15 degrees' motion block and a 'start sound Meow' sound block. The 'High Contrast' version also includes a 'say Hello!' text block.

# Choose Your Language

Do you, or a Scratcher you are working with, read/work in a language other than English? You can adjust the language of the project editor under Settings > **Language**. Or set the language at the bottom of many of our site pages.

The image shows the Scratch website interface. At the top, there's a navigation bar with the Scratch logo, Settings, File, Edit, and a user profile icon. Below the navigation bar, there are two dropdown menus: 'Language' and 'Color Mode'. The 'Language' menu is open, showing several language options: Ελληνικά (selected), English (checked), Español (España), Esperanto, and Euskara. To the right of the language menu, there's a footer area with links: Mission Forums, FAQ, Download, Contact Us, Privacy, Cookie, and DMCA. At the bottom of the page, there's a language selector bar with 'English' and a downward arrow icon.

# Educators



Looking for even more resources? The Scratch Foundation's website includes a **Learning Library** with hundreds of free creative learning materials, from student-facing coding cards to video tutorials to lesson plans...and more! Explore it at <https://www.scratchfoundation.org/learn/learning-library>.

Resources are searchable and filterable, and we continue to add to it, so keep checking back.

A few that may be of interest include:

- [\*\*Scratch's Creative Learning Philosophy\*\*](#) shares our guiding stars and includes a trove of facilitation tips and recommended reading
- [\*\*Teacher Accounts\*\*](#) for more information on setting up teacher accounts and managing classes
- [\*\*Lesson Plans\*\*](#) and [\*\*Educator Guides\*\*](#) on a variety of topics
- [\*\*All Blocks Posters\*\*](#) posters showing all the primary blocks, the project editor, extension blocks, and more
- [\*\*Scratch Design Journal\*\*](#) to help students imagine, plan, iterate, and reflect throughout all of the phases of their project's development
- [\*\*Debugging\*\*](#) for posters with strategies to use to help your students get unstuck and debugging reflection questions
- [\*\*Reflection\*\*](#) worksheets for sharing their work and reflecting on their creative process
- [\*\*Studio Guide\*\*](#) for more on creating studios

The screenshot shows the Scratch Learning Library homepage. At the top, there are tabs for 'Learn', 'Explore', 'Create', and 'Play'. Below the tabs, there's a search bar and a 'Get Started' button. The main content area is titled 'Learning Library' and features several cards for different resources:

- Getting Started**: A card with a 'Getting Started' button and a brief description.
- Project Editor Settings**: A card with a 'Project Editor Settings' button and a brief description.
- Scratch Keyboard Shortcuts**: A card with a 'Scratch Keyboard Shortcuts' button and a brief description.
- Interactive Tutorials**: A card with an 'Interactive Tutorials' button and a brief description.
- Starter Projects**: A card with a 'Starter Projects' button and a brief description.
- Scratch Design Journal**: A card with a 'Scratch Design Journal' button and a brief description.
- Reflection and Sharing**: A card with a 'Reflection and Sharing' button and a brief description.
- Sprite Creation**: A card with a 'Sprite Creation' button and a brief description.

**Tip:** If you'd like to translate this guide, [click here to make a copy](#) of this Google doc.