Getting Started With

SCRATCH

Getting Started

SCRATCH is a programming language that lets you create your own interactive stories, animations, games, music, and art.

This guide shows you how to make a project in SCRATCH .

To start a new project, go to SCRATCH and click Create.

If you have a SCRATCH account, sign in so your project saves.

SCRATCH
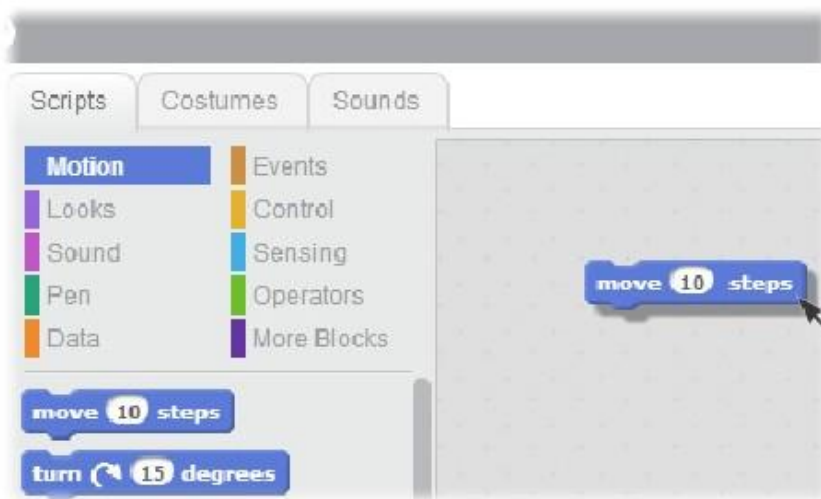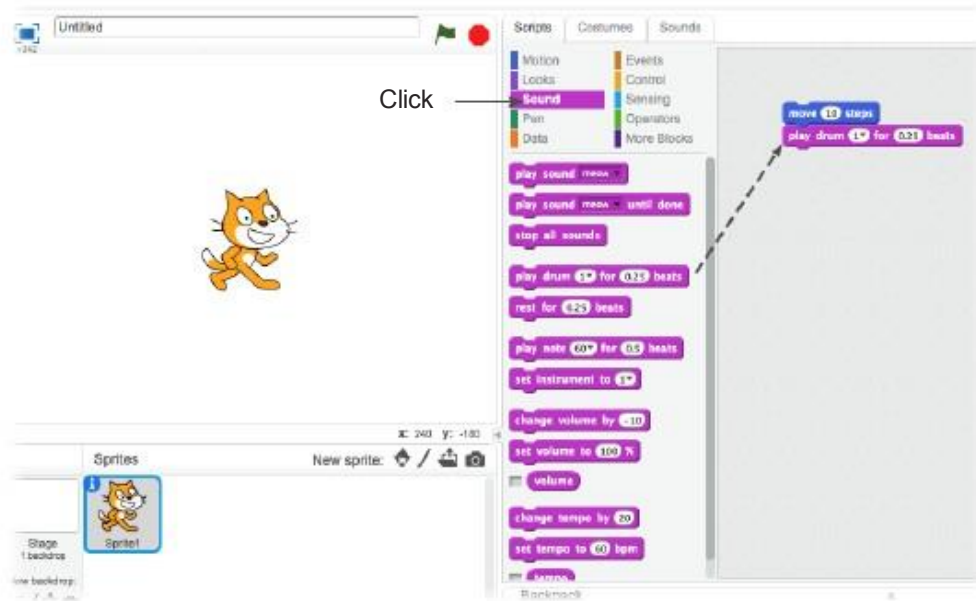
Drag a MOVE block into the Scripts area.
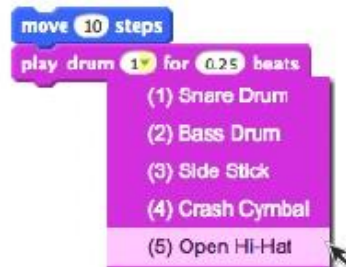

Click on the block to make the cat move.

Click

Drag out a PLAY DRUM and snap it onto the MOVE block.

Click and listen.

If you can't hear it, check that the sound on your computer is on.

You can choose different drums from the pull-down menu.

SCRATCH

3 Start a Dance

```
move 10 steps
play drum 1 for 0.25 beats
move -10 steps
```

Add another MOVE block. Click inside the
block and type in a minus sign.

```
move 10 steps
play drum 1 for 0.25 beats
move -10 steps
```

Click on any of the blocks
to run the stack.

```
move 10 steps
play drum 1 for 0.25 beats
move -10 steps
play drum 5 for 0.25 beats
```

Add another PLAY DRUM block, then choose
a drum from the menu. Click to run.
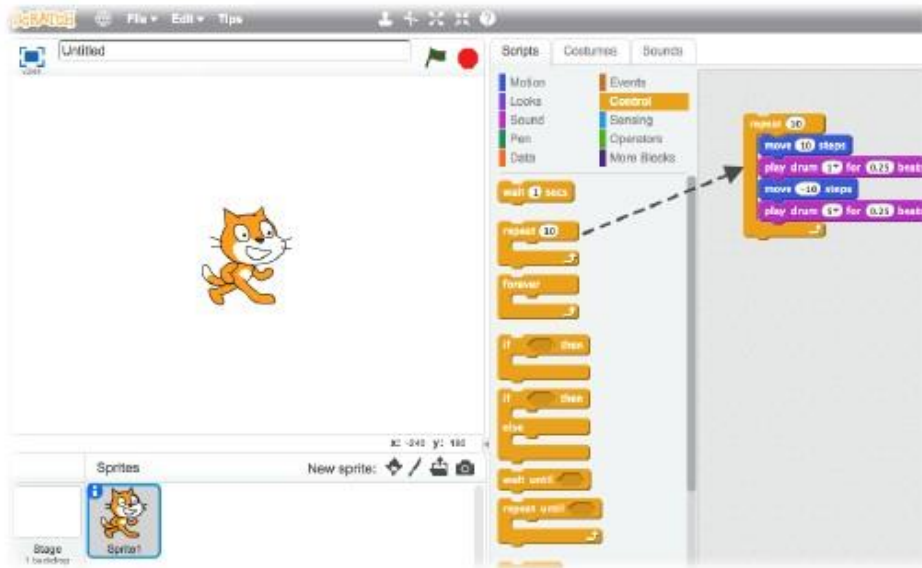
Drag out a REPEAT block and drop it on top of the stack.
You want the mouth of the REPEAT to wrap around the other blocks.
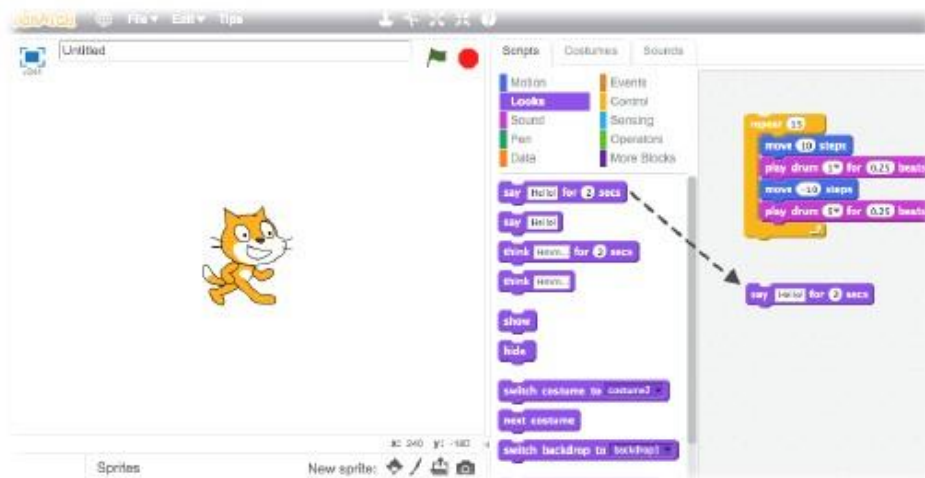
To drag a stack, pick it up from the top block.

You can change how many times it repeats.

Click to run.

You can click on any block to run a stack.

Click the LOOKS category and drag out a SAY block.
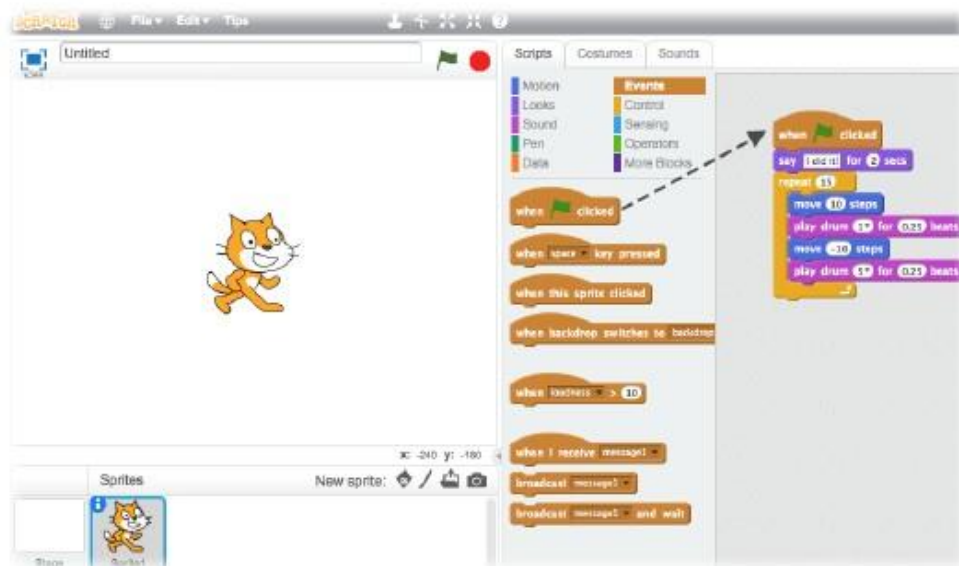
Click inside the SAY block and type to change the words. Click to try it.

Then snap the SAY block on the top.
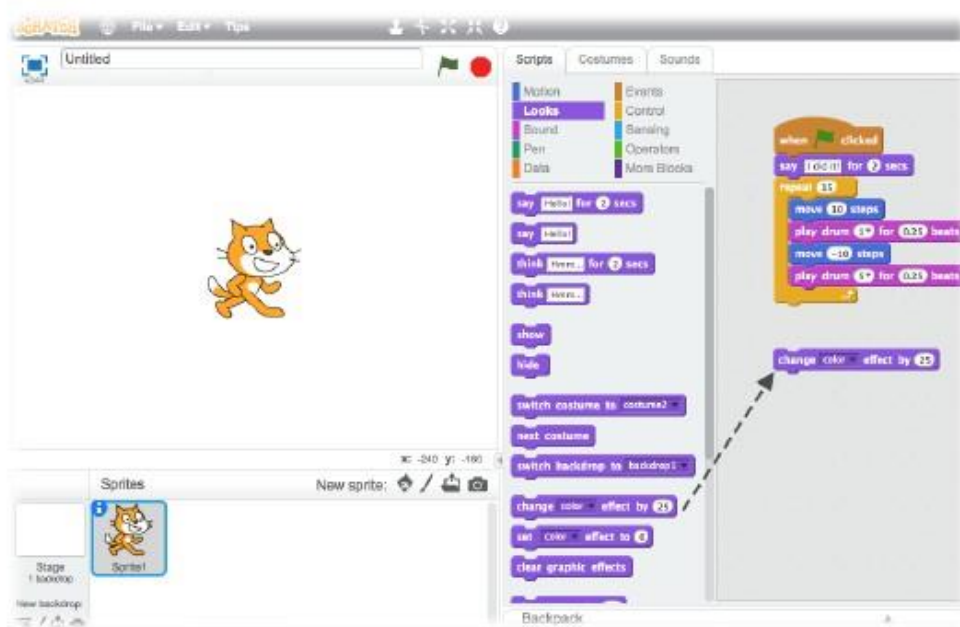
Drag out a block and snap it on top.

Whenever you click the green flag, your script will start.

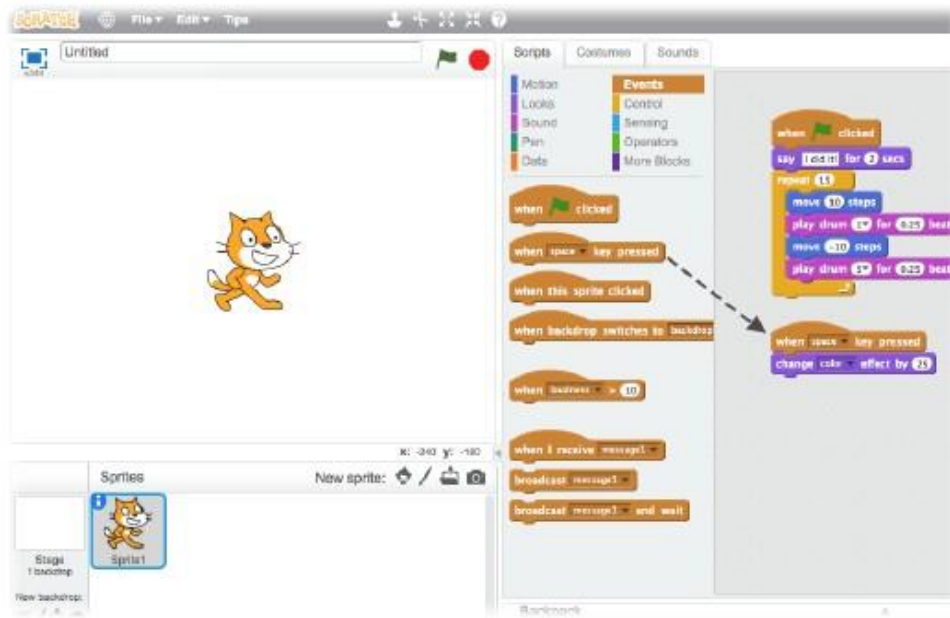To stop, click the stop button.

SCRATCH

Now try something different...

Drag out a CHANGE EFFECT block.

Click to see what it does.

Snap on a when space ▼ key pressed

Now press the space bar on your keyboard.

when space ▼ key pressed
up arrow
down arrow
right arrow
left arrow
space
a
b
c

You can choose a different key from the pull-down menu.

You can add a backdrop to the Stage.

Click to
choose a new
backdrop. ⟶
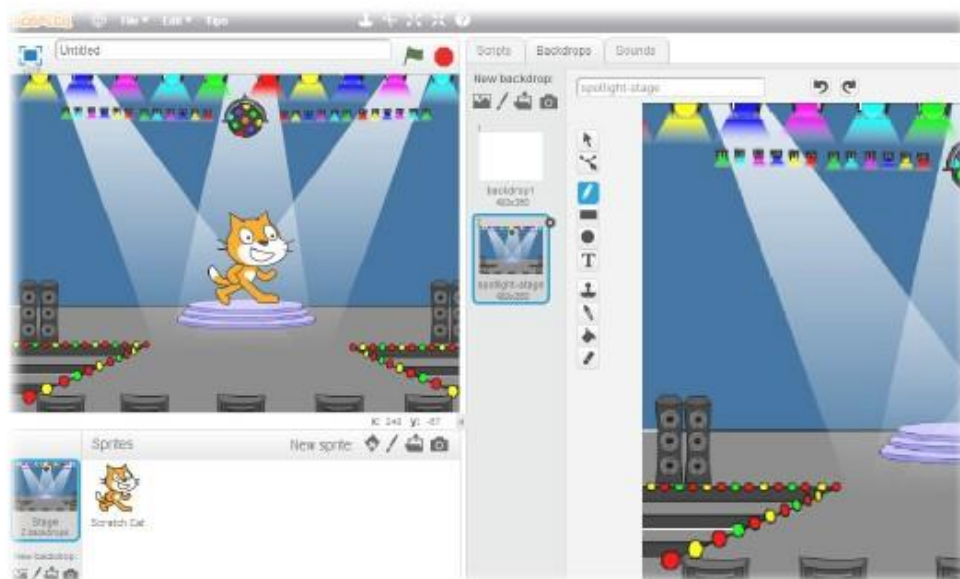
Choose a backdrop from the library (such as "Spotlight-Stage").

Click OK.

The new backdrop now appears on the Stage.

Each object in Scratch is called a sprite.

To add a new sprite, click one of these buttons.

NEW SPRITE BUTTONS:

Choose from the library

Paint your own sprite

Upload your own image or sprite

Take a picture (from a webcam)

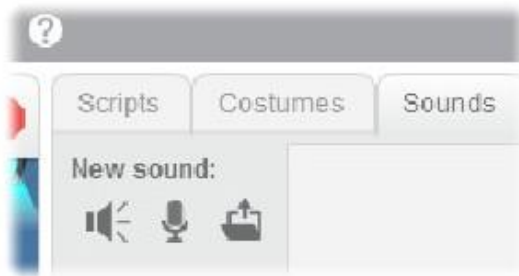To add this sprite, click then click People and select "Cassy Dance."

You can drag the characters to where you want them.

Cassy Dance
Costumes: 4

Now you can tell the sprite what to do. Try the following, or explore on your own.

ADD SOUND

Click the SOUNDS tab.

You can Choose 🔊 a sound

Record 🎤 your own sound

Or Import ⬆ a sound file.
(MP3, AIF, or WAV format)

Then, click the SCRIPTS tab,
and drag in a PLAY SOUND block.

Choose your sound from
the pull-down menu.

CHANGE COSTUMES

Each sprite can have more than
one costume.

To change the current costume,
click the COSTUMES tab.

Then click on a different costume
for the sprite.

ANIMATE

You can animate a sprite by
switching between costumes.

Click the SCRIPTS tab.
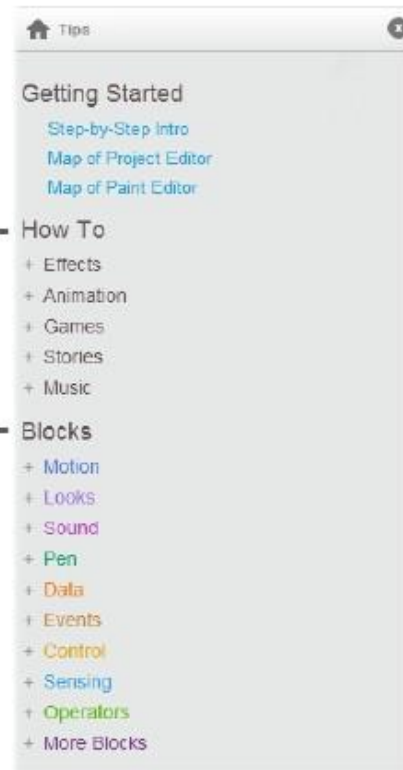
Create a script that switches
between costumes.

Type a title for your project.

For more ideas, click Tips:

Getting Started
Step-by-Step Intro
Map of Project Editor
Map of Paint Editor

The Tips Window shows example scripts you can use in your project.

How To
+ Effects
+ Animation
+ Games
+ Stories
+ Music

It also explains what each of the blocks in SCRATCH does.

Blocks
+ Motion
+ Looks
+ Sound
+ Pen
+ Data
+ Events
+ Control
+ Sensing
+ Operators
+ More Blocks

Save and Share

To save your project online, make sure to sign in.
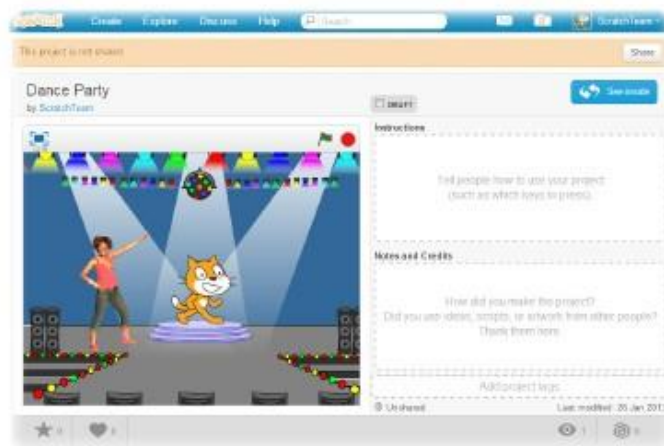
Sign in ▾

(If you want to save the file to your computer drive, click the File menu and choose "Download to your computer.")

When you are ready, click **↻ See project page**

Project Page

Click for full screen viewing.

Click **Share** for others to see and play with your project.

Type in notes about your project.

When you share, others can visit and interact with your project.

Now what? You can **Create** a new project or **Explore** for ideas.

To find out more, click **Help** or go to http://scratch.mit.edu/help

SCRATCH

Scratch is a programming language that makes it easy to create your own interactive stories, games, and animations & share your creations with others on the web.