There is always someone worth learning for, even if it's yourself!

~Kevin Little- educator~

Anybody can learn anything!

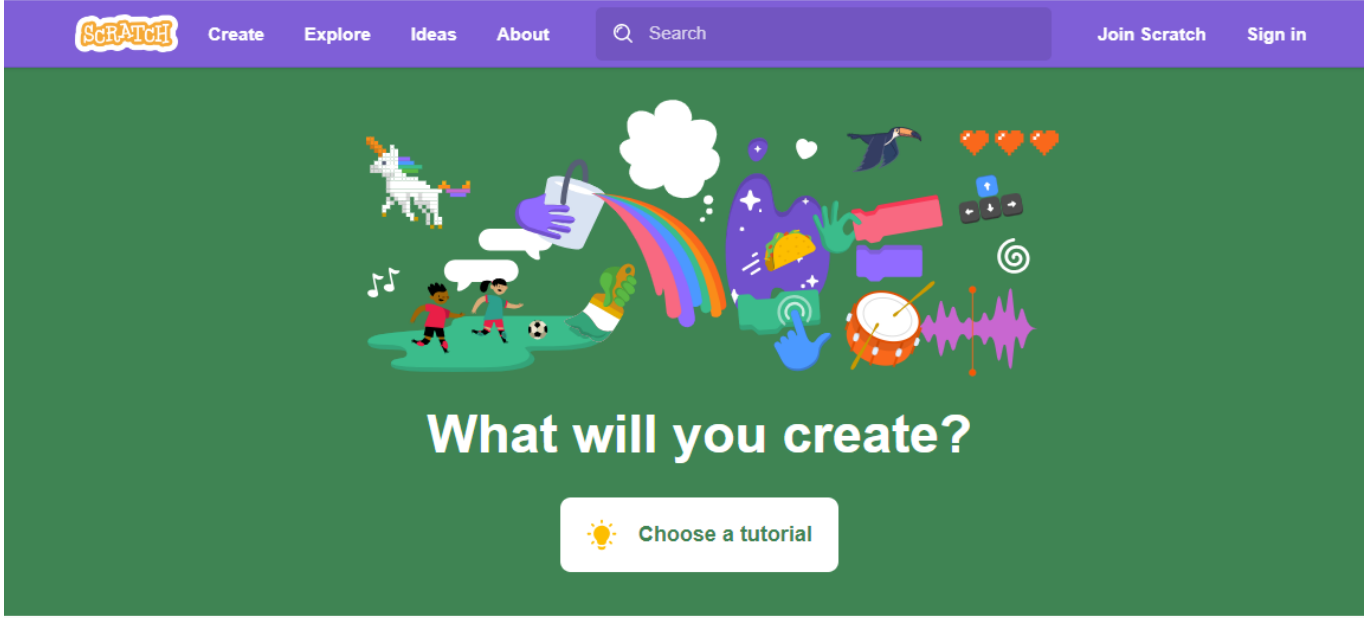
https://code.org

C O
D E

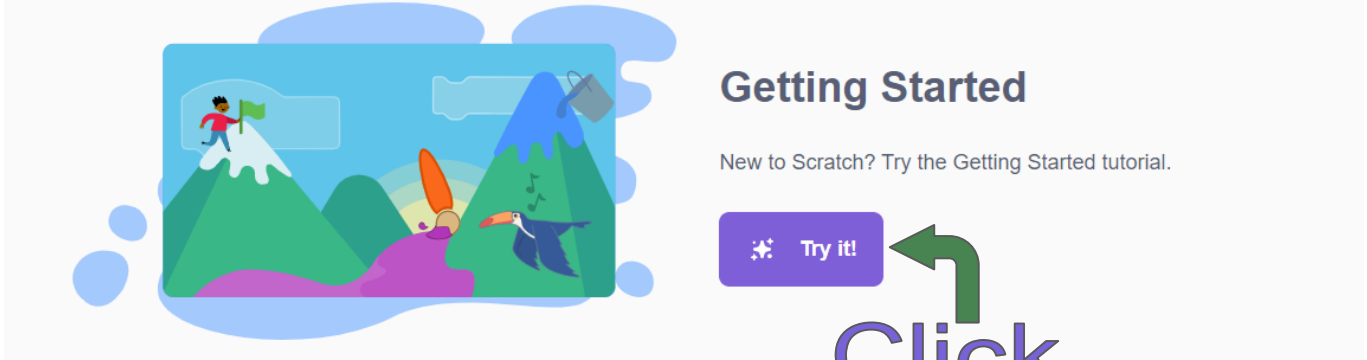
Kevin Little

CS Regional Coach

KLLittle@ed.sc.gov



https://scratch.mit.edu/ideas



Profile of the South Carolina Graduate

World Class Knowledge

- Rigorous standards in language arts and math for career and college readiness
- Multiple languages, science, technology, engineering, mathematics (STEM), arts and social sciences

World Class Skills

- Creativity and innovation
- Critical thinking and problem solving
- Collaboration and teamwork
- Communication, information, media and technology
- Knowing how to learn

Life and Career Characteristics

- Integrity
- Self-direction
- Global perspective
- Perseverance
- Work ethic
- Interpersonal skills

Animate a Name Cards

Animate the letters of your name, initials, or favorite word.

Imagine a World

Imagine a world where anything is possible!

Chase Game Cards

Make a game where you chase a character to score points.

Pong Game Cards

Make a bouncing ball game and score points to win!

Make Music Cards

Choose instruments, add sounds, and press keys to play music.

Animate a Character Cards

Bring characters to life with animation.

Create a Story Cards

Choose characters, add conversation, and bring your story to life.

Let's Dance Cards

Design an animated dance scene with music and dance moves.

Scratch Review

Sprites

Functions

Events

Values

Conditions

Loops

Variable

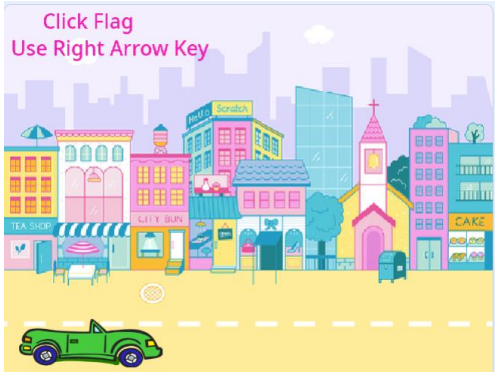
Abstraction

Building from Scratch

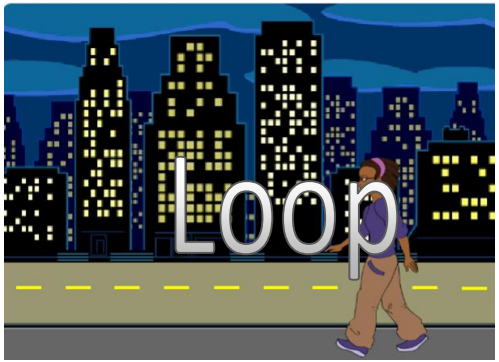
Click Flag
Number:
Boleans

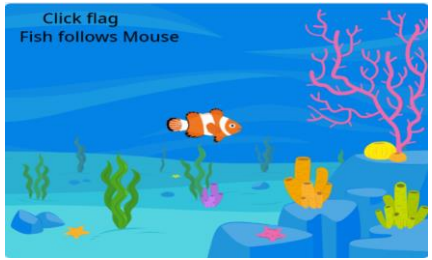
Abstraction

Events


Click Flag
Use Right Arrow Key

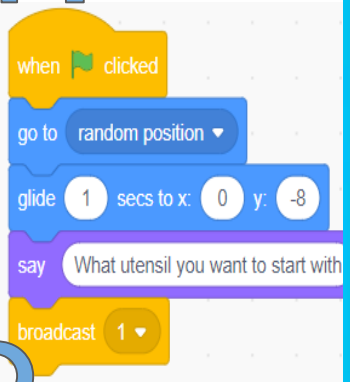
Lists


Loop


Click flag
Fish follows Mouse

Condition
Psalm 23
A psalm of David.

1.


when clicked
go to random position
glide 1 secs to x: 0 y: -8
say What utensil you want to start with
broadcast 1

2.

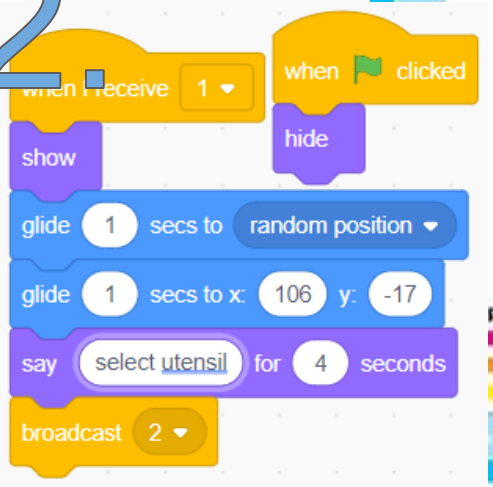

when I receive 1
show
glide 1 secs to random position
glide 1 secs to x: 106 y: -17
say select utensil for 4 seconds
broadcast 2
when clicked
hide

Table Setting Basics
TABLE MANNERS
Wash your hands before you eat.
Keep your elbows off the table and sit up tall.
Place your napkin in your lap.
Wait for everyone to be served before eating.
Food to mouth, not mouth to food.
Chew with your mouth closed.
Ask politely to be excused when you are done.
Say please and thank you.
cup
fork
plate
knife
spoon

Make your own restaurant!

Food safety project

By Luke Burke

Rules

info

Play!

Use the arrows to rotate the object to face in the direction of the hand. (1 of 1)

Questions

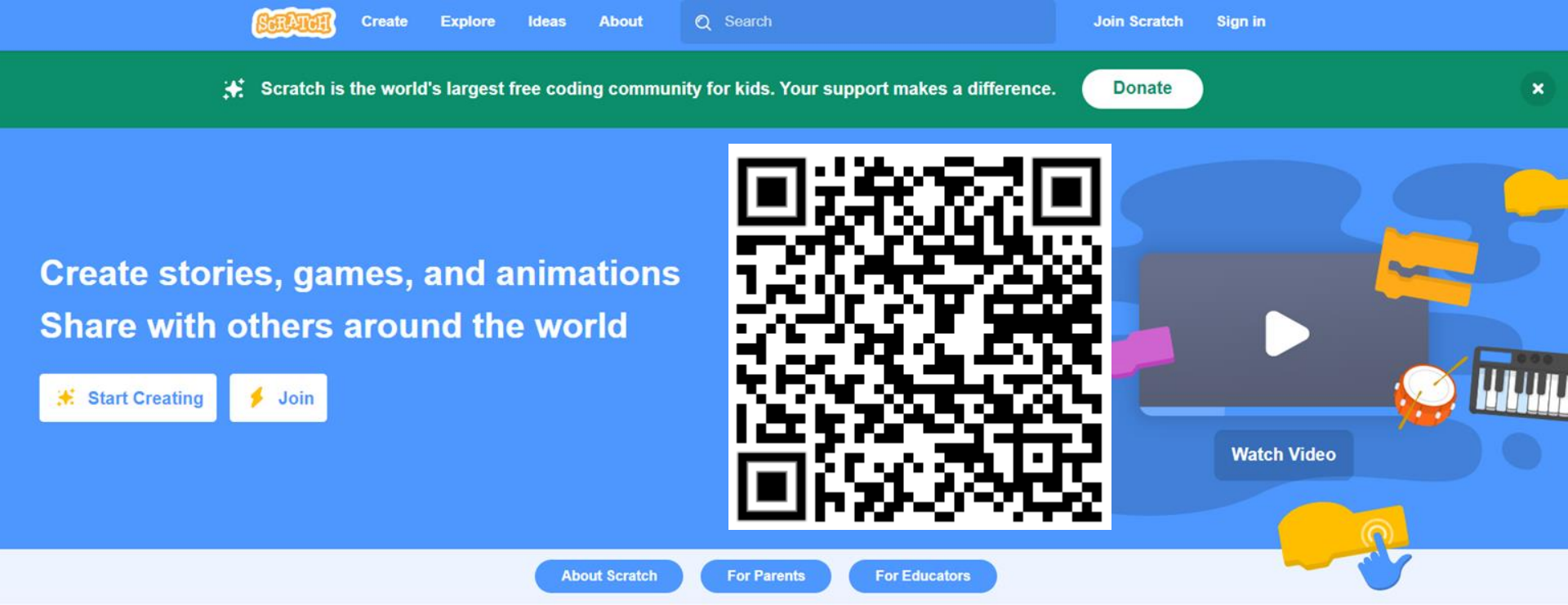
Thank You!

Loaner Program

Sphero Bolt
Click to Learn More

Ozobot Evo
Click to Learn More

Lego Spike Prime
Click to Learn More



bit.ly/3YKSbAg

Introduction to Scratch

My name is _____, and I am a/an _____.
name
Person, animal, or thing

My best friend is _____. And he /she is a/an _____.
name
Person, animal, or thing

We like to play _____ at the _____.
sport
where

When we were younger. While playing we liked to listen to _____, but if there was no music. We _____ until one of us would stop.
song
verb

Welcome! We look forward to a great day.

Today’s agenda.

- Profile of SC Graduate
- Overview of Scratch
- Vocabulary
- Build some code
- Have Fun!

SCHOOL

Scratch! for About

Confirm your account!

Confirm your Scratch account

You just signed up for a new Scratch account with the username: **Little8568**

To finish creating your account, click on the link below:

Having trouble? Copy this link into your browser instead:
https://scratch.mit.edu/accounts/email_verify/WzEwODQxMzEzMiwia2xsaXR0bGVAZWQuc2MuZ292IixmYWxzZV0:1pNy8O:KwW0v7DZuOJMnH34sx1QojwMA5s/?isRegistration=true
Scratch On!
—The Scratch Team

Using Scratch, children can create interactive stories, games, and animations.

Scratch is available for free, thanks to generous support from our donors. We are grateful to our Founding Partners: Massachusetts Institute of Technology, the National Science Foundation, and the Siegel Family Endowment.

Privacy Policy | About Scratch | Make a Donation

Confirmation Email

Does this email look weird? - Click Here

SCRATCH

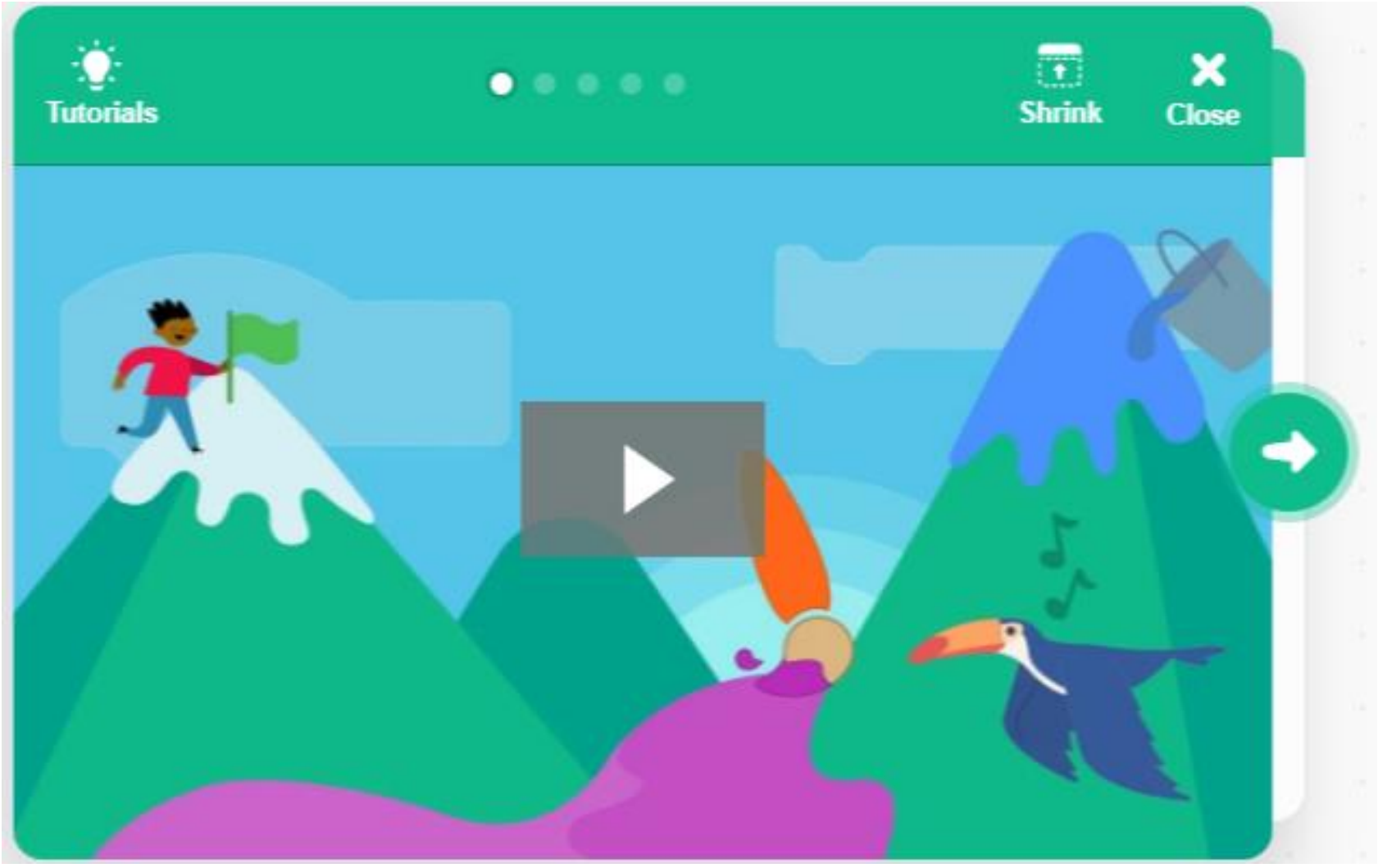
Welcome to Scratch, Little8568!

With Scratch, you can program your own interactive stories, games, and animations—and share your creations with others in the community.
New to Scratch? Click the link below:

To learn more about the Scratch online community, go to our **Community Guidelines**
To discover project ideas, check out our **Ideas Page**.
Scratch On!
—The Scratch Team

Using Scratch, children can create interactive stories, games, and animations.

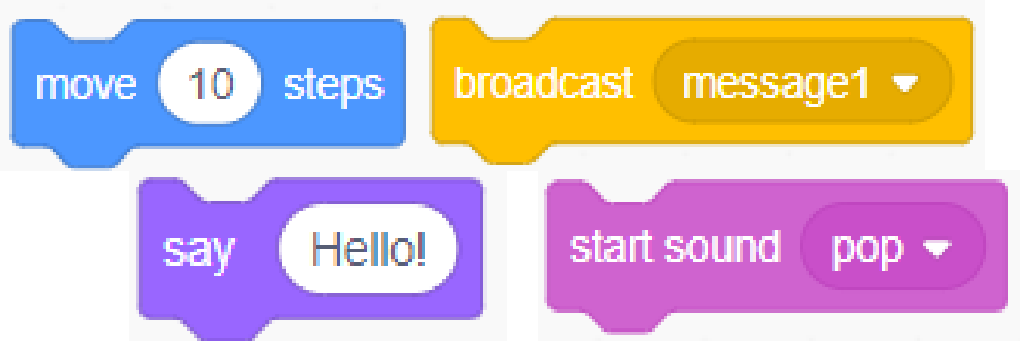
_____	Statement Blocks (h)	A. a copy of a Sprite that is made using the control block.
_____	Boolean Expressions (e)	B. A mini program within a program that can execute at the same time
_____	Conditions (g)	C. A placeholder for some value, muck like x and y
_____	Loops (f)	D. A signal from one thread to another
_____	Variables (c)	E. Evaluates to true or false
_____	Threads (b)	F. include multiple executions of a statement
_____	Events (d)	G. Something that must be true in order for something to happen.
_____	Clone (a)	H. tells the computer to do something.


Tutorials
Shrink
Close

Statement Blocks

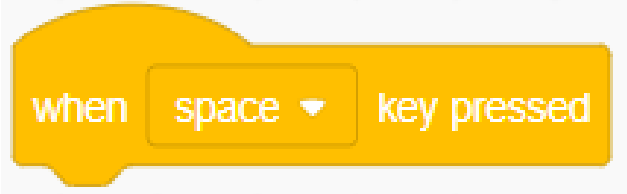
A statement tells the computer to do something. (command or instruction)

Any block whose label reads like a command is a statement.



Conditions

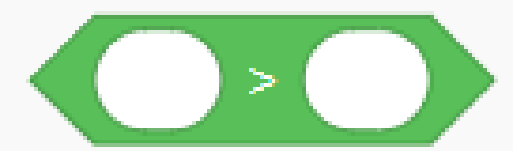
When Construct



Boolean Expressions

An expression that is either true or false.

Any block shaped like an elongated diamond is a boolean.



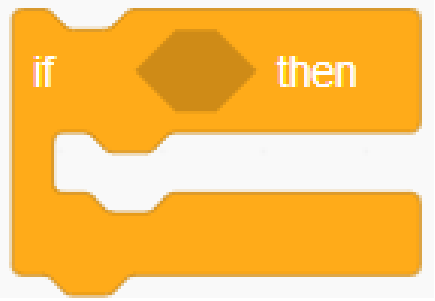
With Booleans Expressions can we construct conditions.

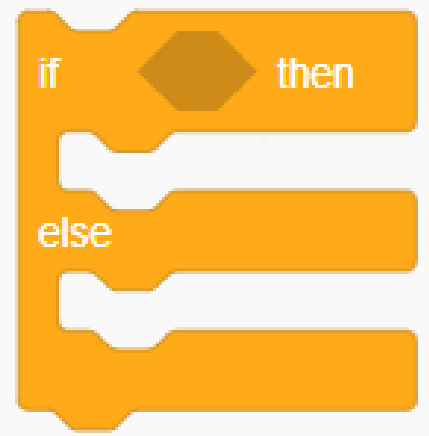
Conditions

Something that must be true in order for something to happen.

“Evaluates to true” or “evaluates to false”

Any block whose label says “if”, “if else”, “when”, or “until”





Loops

- Can include multiple executions of a statement
- Any block whose label begins with “forever” or “repeat”

Variable

- A placeholder for some value, muck like x and y are popular variables in algebra
- Represented with blocks shape like elongated circles, uniquely labeled by you

Creating a Variable

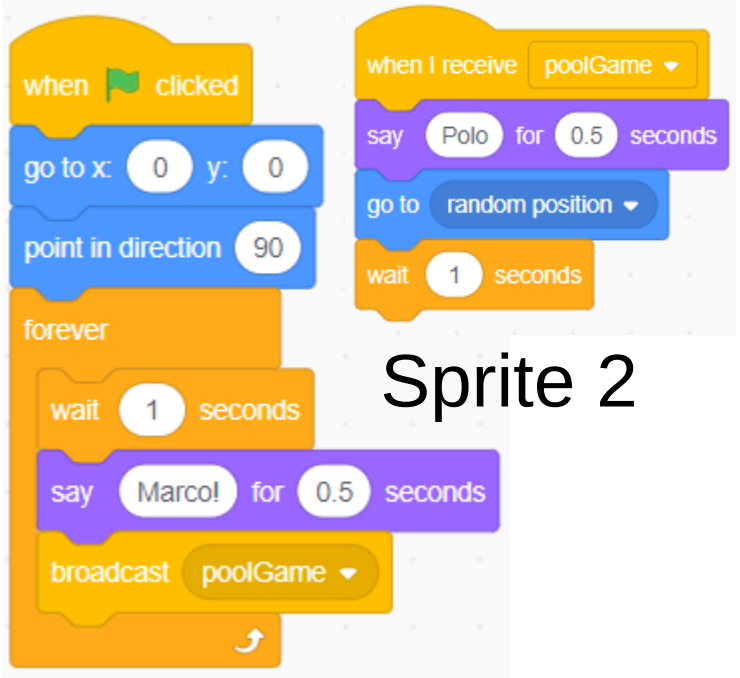
1. Click Make A Variable (Blocks Palette)
2. Name Variable(select preference)
3. Click OK

Threads

- A mini program within a program that can execute at the same time as other threads.
- Any block whose label begins with “when” essentially denarks the start of a thread
- Events or Control Block!

Events

- A signal from one thread to another
- Blocks whose label begin with “when” handle events
- Blocks whose label begin with “broadcast” signal events



Clone

- a copy of a Sprite that is made using the “Create clone of” control block.

Happy
Valentine's
day

Recruiting is NEEDED!

93% of parents want their child's school to teach computer science, but only **53% of high schools** offer it.

More than **70% of superintendents and principals** say offering computer science is just as important as offering subjects like English, math, history, and science.

50% of Americans rank computer science as one of the two most important subjects of study after reading and writing.

Students who learn computer science in high school are **six times** more likely to major in it, and **women are ten times more likely**.

Black students are **more interested** in CS and **more confident** in their abilities than white students but are less likely to enroll in a class.

In South Carolina, there are currently 6,272 open computing jobs with an average salary of $77,383.

There are **60 colleges and universities** in the U.S. state of South Carolina.

Yet, there were only 806 graduates in computer science in 2019 and only 93% of all public high schools teach a foundational computer science course.

Public School Teacher Salary in **South Carolina**

Salary | Benefits | Job Description | Compare Jobs | Similar Jobs | Job Openings | Resume Critique

Based on HR-reported data: a national average with a geographic differential

View as table

10%	25%	50%(Median)	75%	90%
$35,555	$43,343	**$51,896**	$63,276	$73,637

Didn't find your job? **Click**

Are you ok with your students starting salary being higher than your max salary?

Employers: Price Your Company Jobs

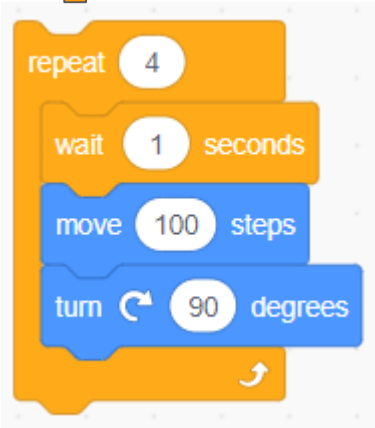
Employees: View your Salary

You may get higher pay by adjusting the following factors:

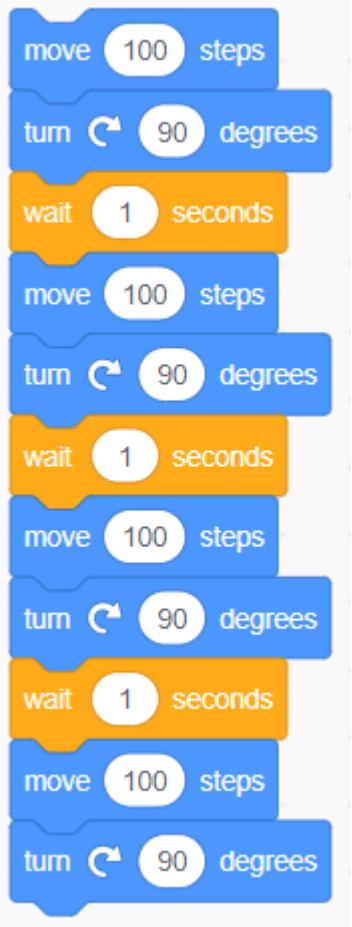
Location | Years of Exp. | Education | Direct Reports | Performance | Other

What shape will this code make?

1



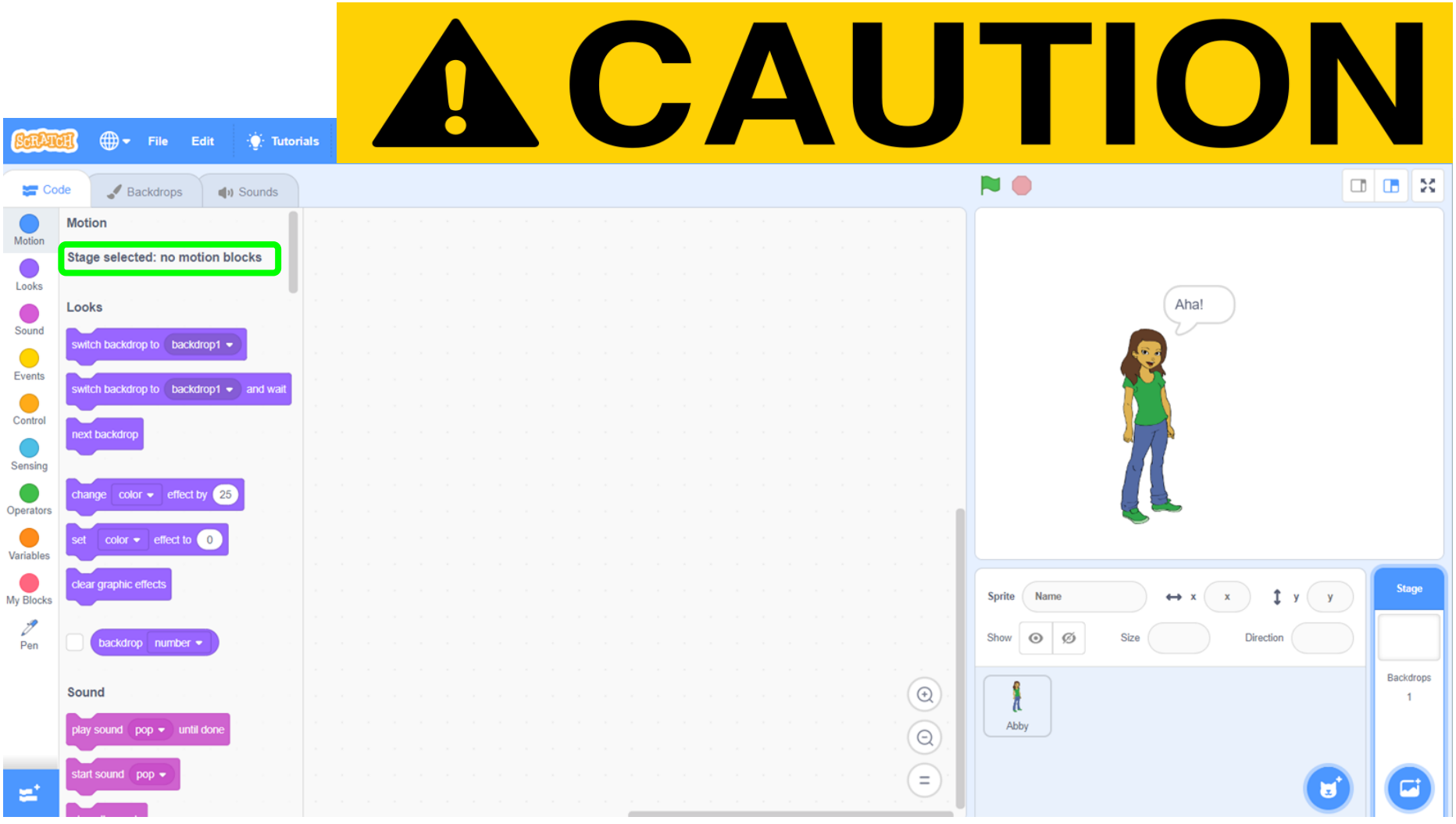
2



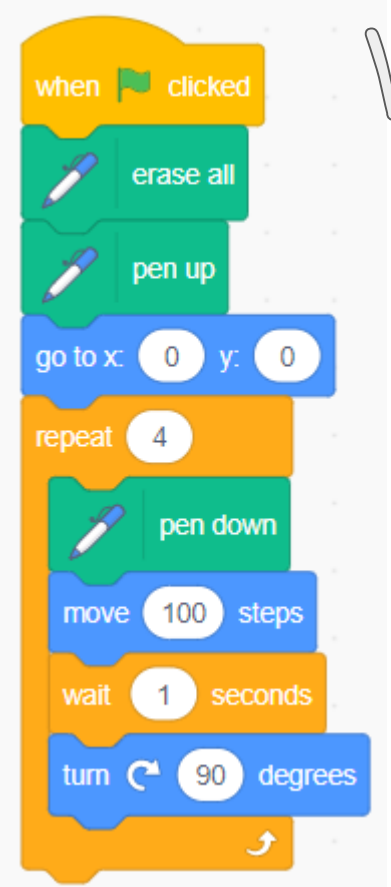
Elegant

When a theory or model explains a phenomena clearly, directly or economically

Code with **BUGS** can never be elegant.

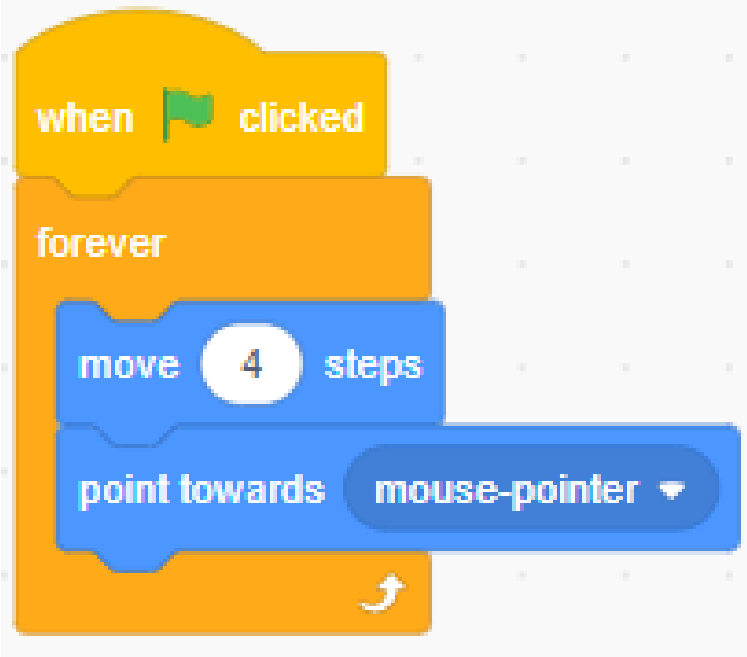

CAUTION
File
Edit
Tutorials
Code
Backdrops
Sounds
Motion
Looks
Sound
Events
Control
Sensing
Operators
Variables
My Blocks
Pen
Motion
Stage selected: no motion blocks
Looks
switch backdrop to backdrop1
switch backdrop to backdrop1 and wait
next backdrop
change color effect by 25
set color effect to 0
clear graphic effects
backdrop number
Sound
play sound pop until done
start sound pop
Aha!
Sprite
Name
x
y
Show
Size
Direction
Abby
Stage
Backdrops
1

1

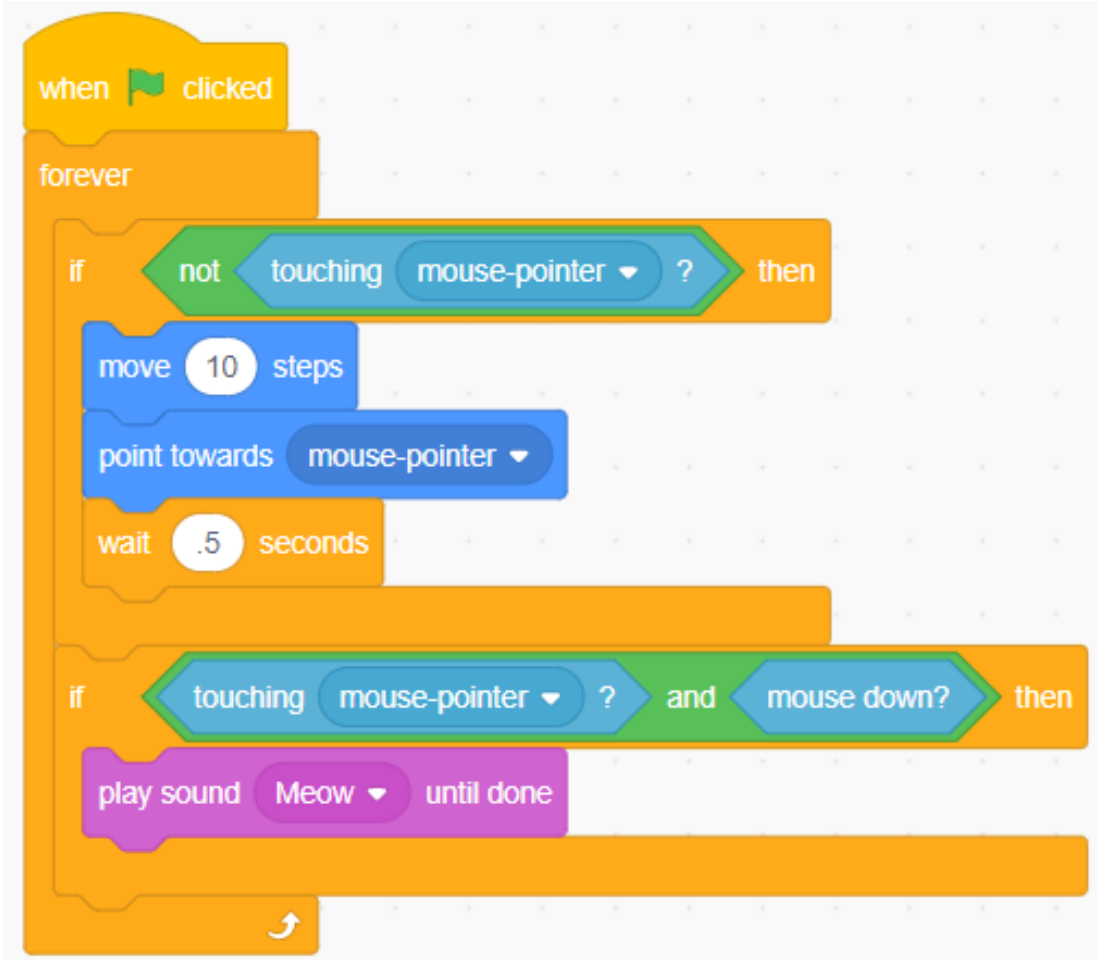


What if I wanted to draw the lines of the shape?

Follow Mouse



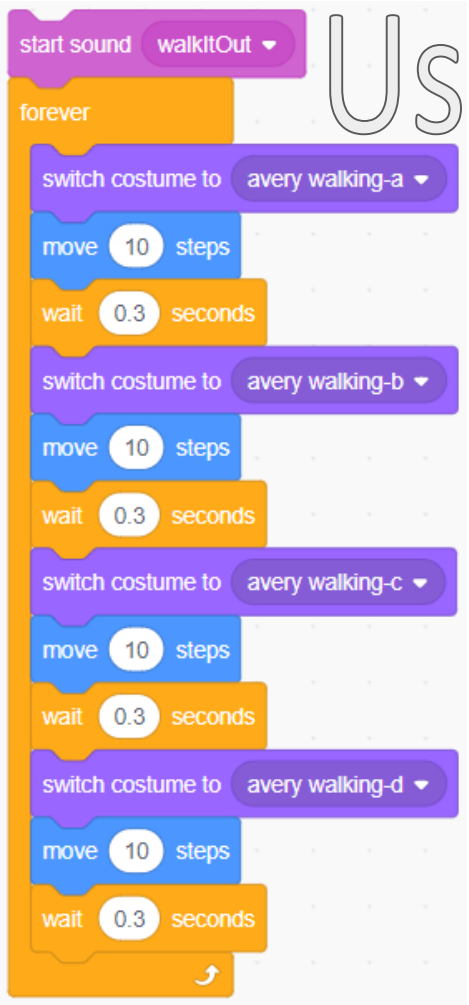
Follow Me


when clicked
forever
if not touching mouse-pointer ? then
move 10 steps
point towards mouse-pointer
wait .5 seconds
if touching mouse-pointer ? and mouse down? then
play sound Meow until done

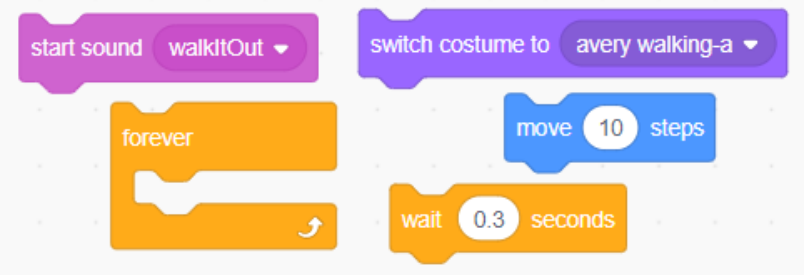
Sprites

COSTUMES

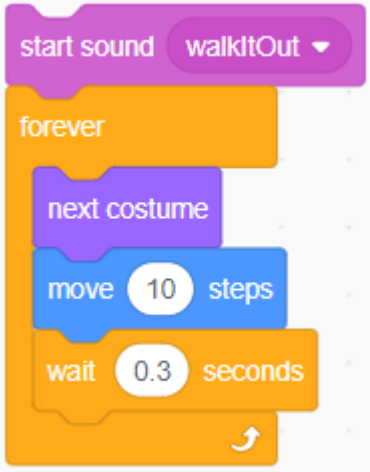
1 Using Blocks to Animate!



Decomposed



2



Fair Use

107. That section of the Copyright Act says that there's no copyright infringement if the use of the material is fair, in other words "for purposes such as criticism, comment, news reporting, teaching (including multiple copies for classroom use), scholarship, or research.

4 Fair Use Factors

1. The purpose and character of the use, including whether such use is of a commercial nature or is for nonprofit educational purposes

Quoting a song's lyrics in a review of the song, the album or a concert where the song was performed.

2. The nature of the copyrighted work

Including a clip of a news program in a show commenting on how the news program handled the event covered

3. The amount and substantiality of the portion used in relation to the copyrighted work as a whole, and

Paraphrasing text from a novel or nonfiction book in a collegiate essay.

4. The effect of the use upon the potential market for or value of the copyrighted work… Showing a nature documentary to a biology class.

Copyrights may last how long?
(Choose all that apply)

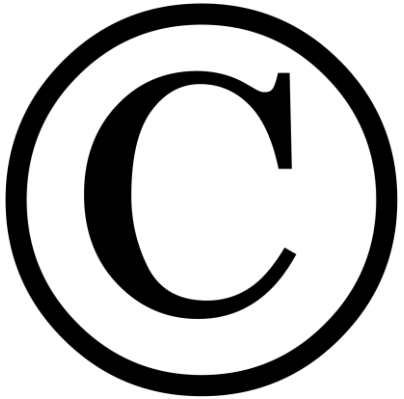
a. 25

b. 50

c. 70

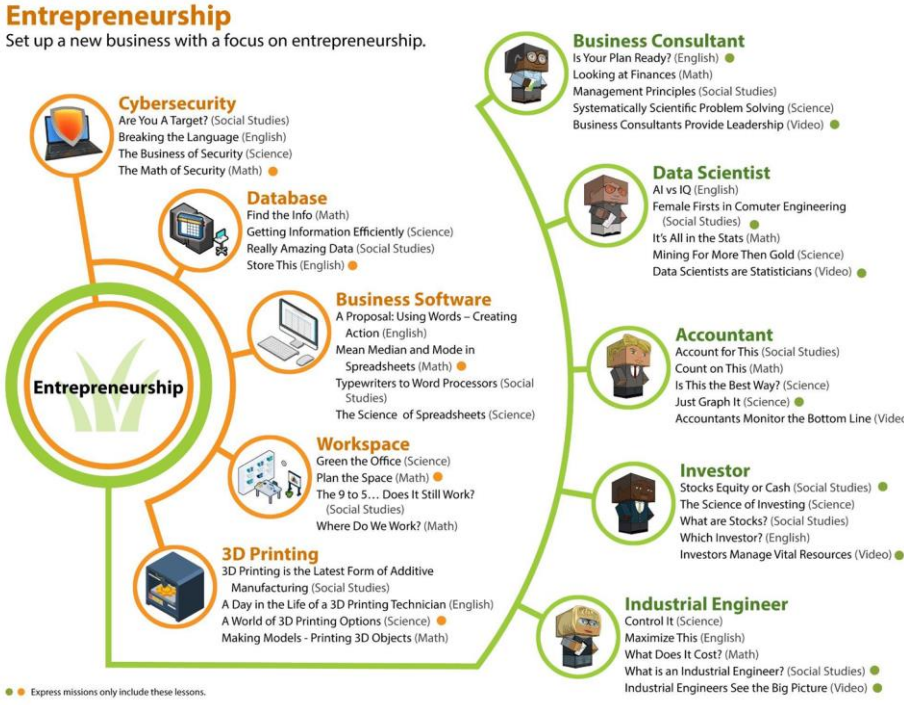
d. 95

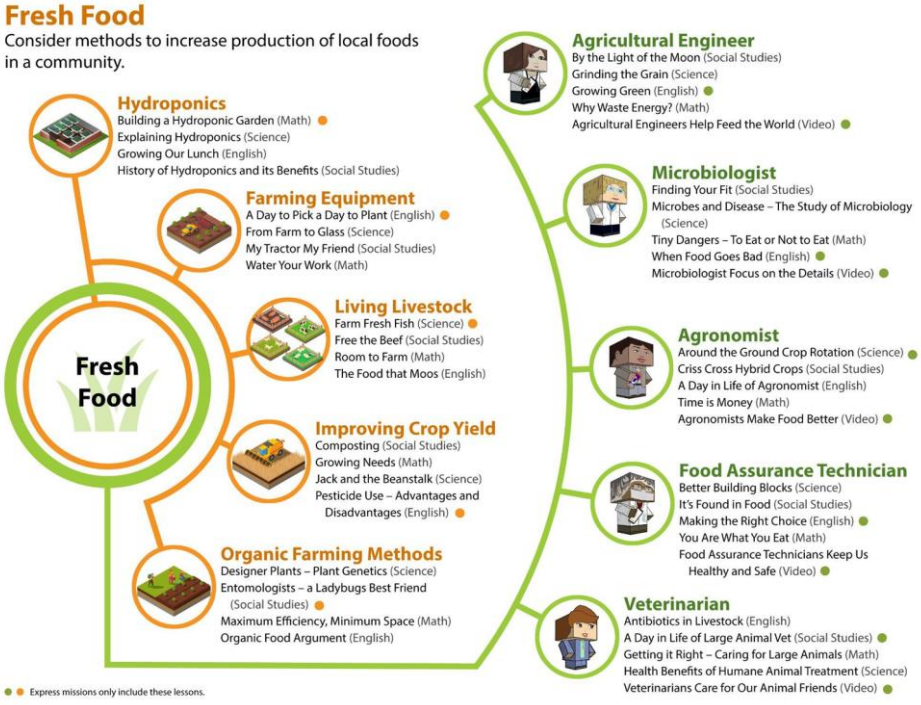
e. 120



January 1, 1978

Learning Blade Missions





Access free account at LearningBlade.com/SC

COMPUTER
SCIENCE

Regional Coaches Contact

Sherri Smith
(shlsmith@ed.sc.gov)

Upstate

Benjamin Dusek
(bwdusek@ed.sc.gov)

Central

Kevin Little
(kllittle@ed.sc.gov)

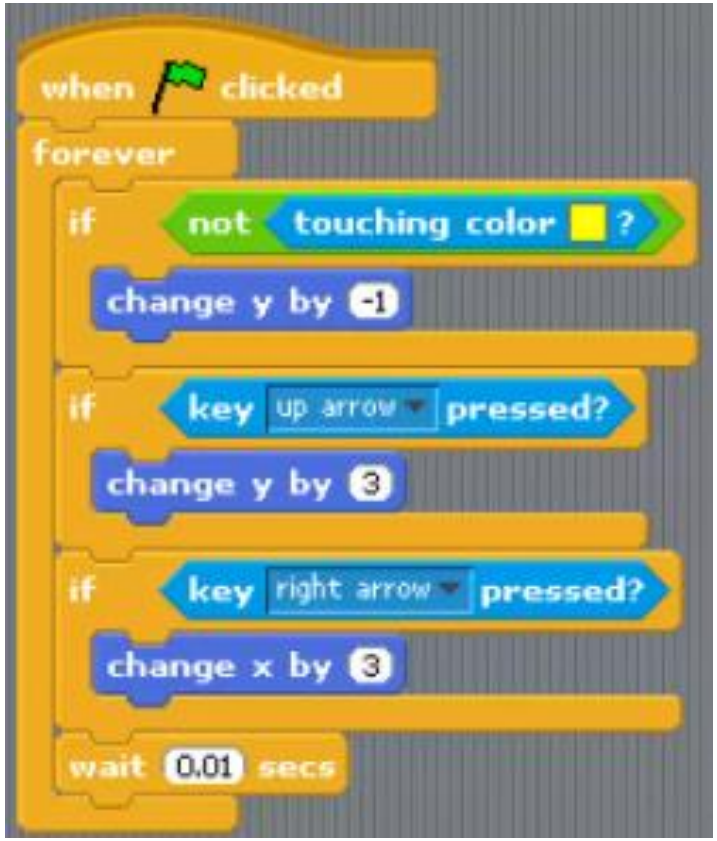
Pee Dee

Matthew Neal
(mhneal@ed.sc.gov)

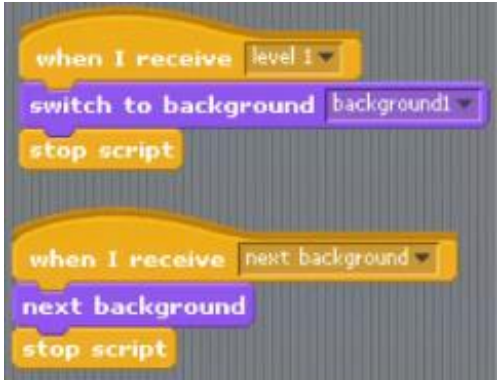
South Coast

Regional CS Listserv
bit.ly/rcs4sclist

Copter Game

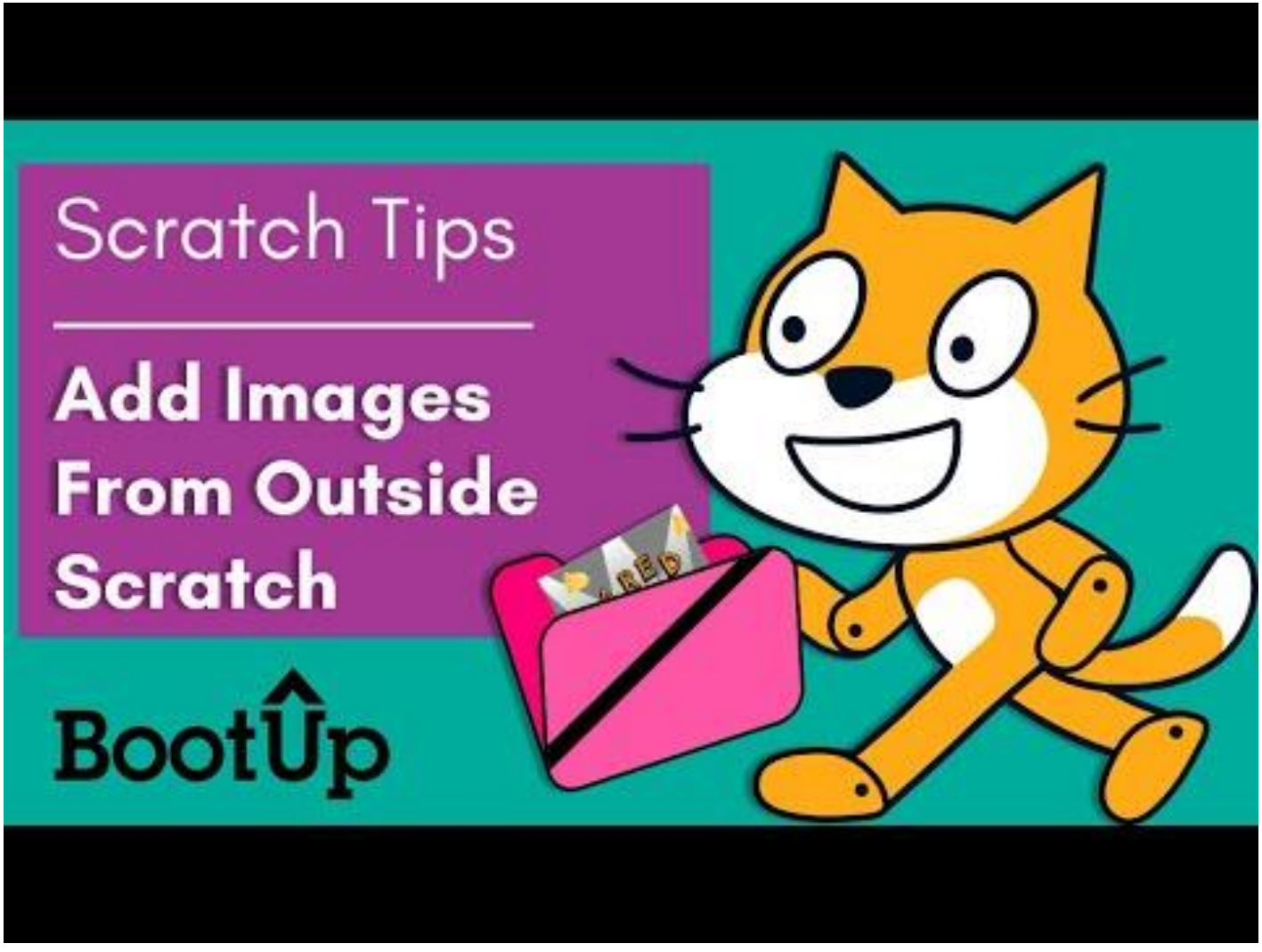


Adding levels



Extensions

Upload Image



Toggle Music