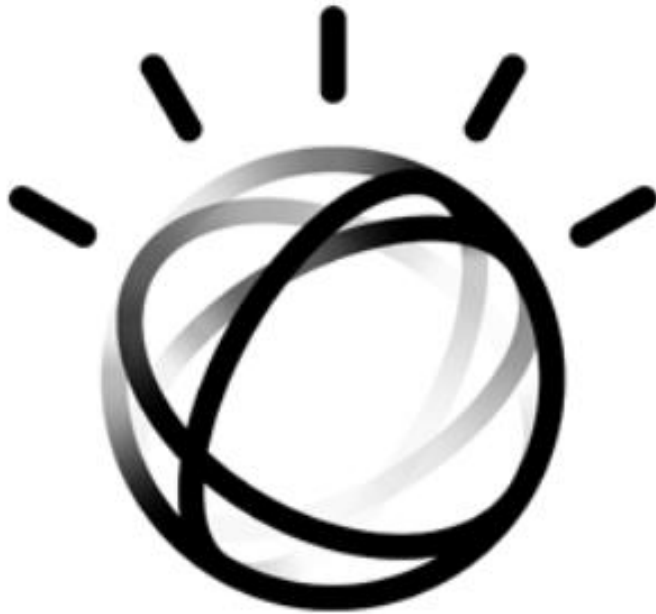


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# HOW FLASHY CAN YOU MAKE YOUR NAME?

SCRATCH FOR KIDS

AN IBM VOLUNTEERS ACTIVITY



DEE

@STEMDEEP

DEEPSTEM.WORDPRESS.COM

Jan 26 2019

COOPER SIEGEL  
COMMUNITY LIBRARY



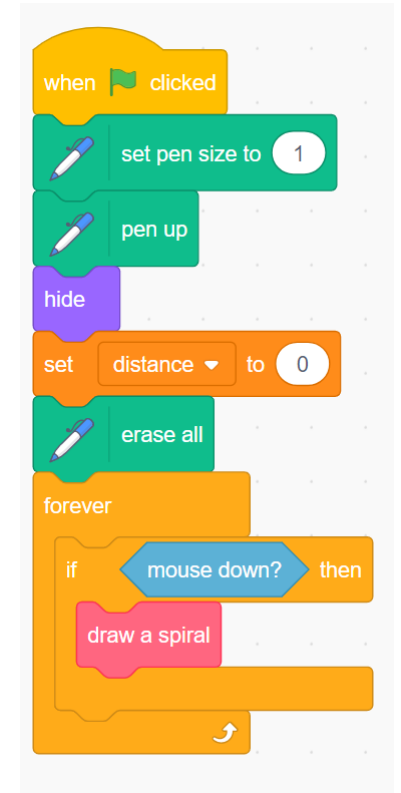
LET'S GET TO  
KNOW EACH  
OTHER!

## Introductions

- Name
- School
- Grade



# WHO HAS USED



*Scratch is a project of the Scratch Foundation, in collaboration with the Lifelong Kindergarten Group at the MIT Media Lab. It is available for free at <https://scratch.mit.edu>*

Code

Costumes

Sounds

Motion

Looks

Sound

Events

Control

Sensing

Operators

Variables

My Blocks

move 10 steps

turn 15 degrees

turn 15 degrees

go to random position

go to x: 0 y: 0

glide 1 secs to random position

glide 1 secs to x: 0 y: 0

point in direction 90

point towards mouse-pointer

change x by 10

set x to 0

change y by 10

set y to 0



Sprite Sprite1

x 0

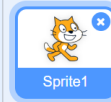
y 0

Show

Size 100

Direction 90

Stage



Sprite1

Backdrops

1

Backpack



<https://scratch.mit.edu/projects/282428452/>



<https://scratch.mit.edu/projects/280902514/>

# TODAY'S PROJECT: ANIMATE YOUR NAME

## 1. PLAN

Plan your project on paper

## 2. DESIGN

Design YOUR name in Scratch

## 3. ANIMATE

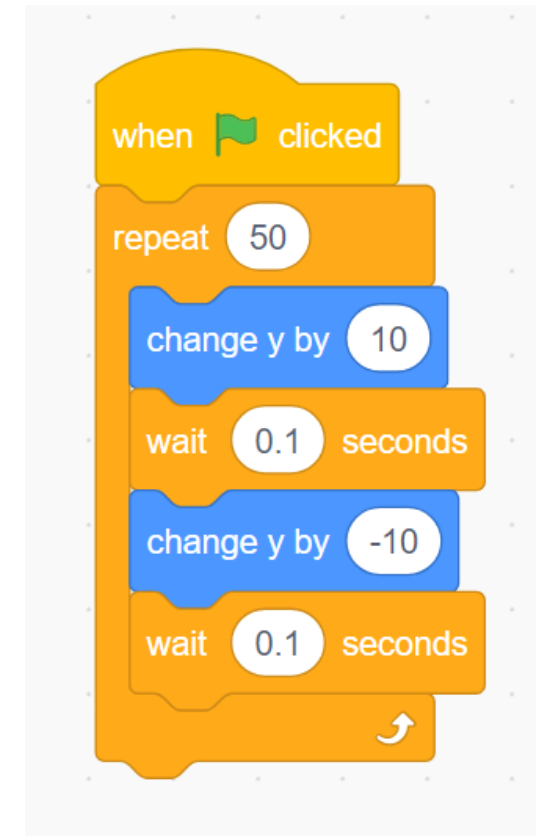
Make the letters of your name come to life:  
Grow, Spin, Change Color, Glide, Bounce

## 4. PRESENT

Present your project to the class

# PROGRAMMING CONCEPTS

- Program or Code
  - Set of step by step instructions
- Concepts:
  - Sequencing
  - Events
  - Loops





# TUTORIAL



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

## EXAMPLE PROJECTS



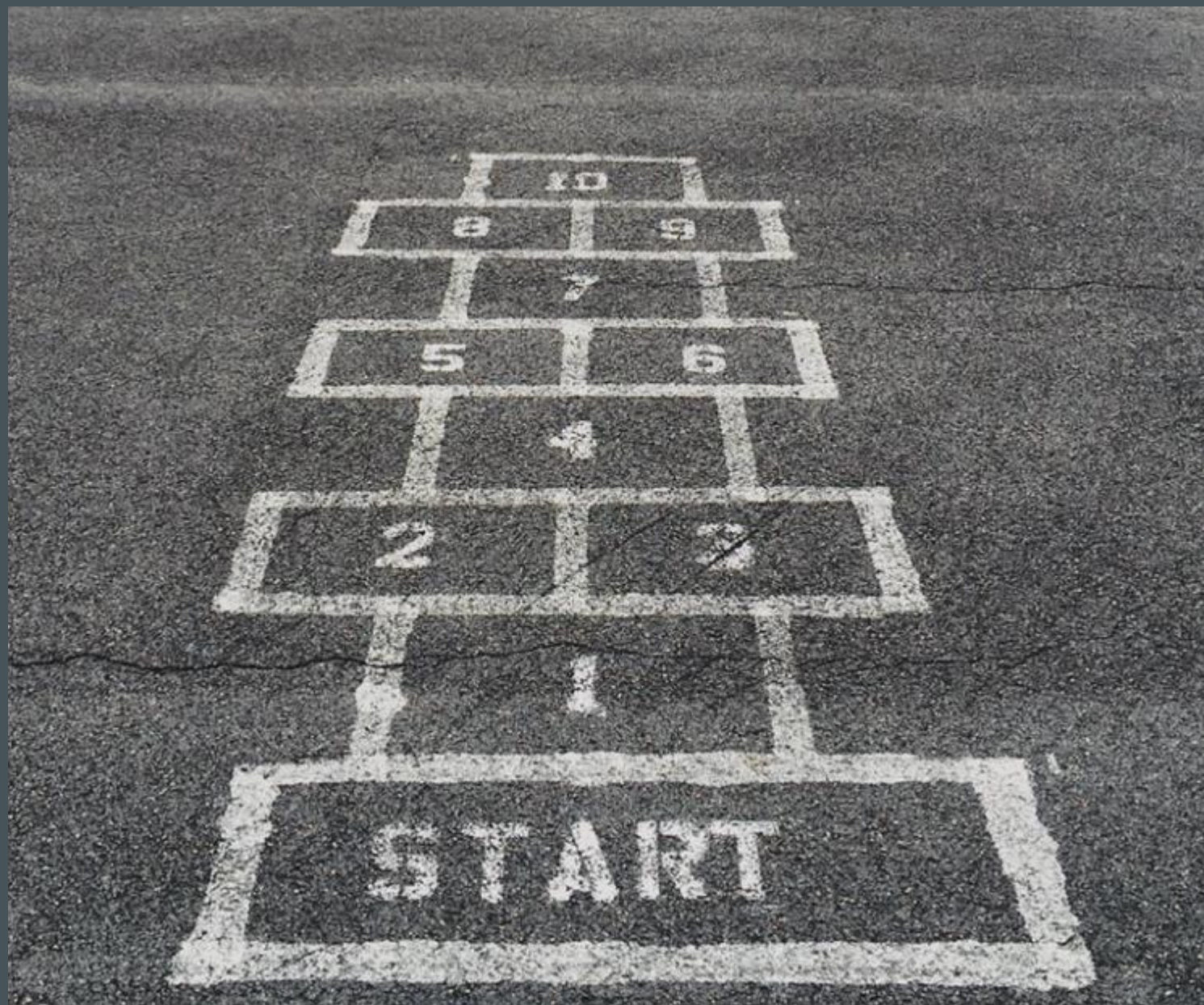
<https://scratch.mit.edu/projects/280917969/>



<https://scratch.mit.edu/projects/280916909/>

---

LET'S GET  
STARTED!





# I. PLAN YOUR PROJECT



# PAPER & PENCIL

## My Plan

Saturday, January 26, 2019 2:00 PM

Name: Suzie

S: Grow

U: Bounce

Z: Change Color

I: Spin

E: Glide

- Write down the letters of your name or nickname
- Shorten to three to five letters (ALEXANDRA-> ALEX, MELANIE -> MEL, RICHARD -> RICK)
- Pick an animation for each letter
  - Grow
  - Bounce
  - Change Color
  - Spin
  - Glide



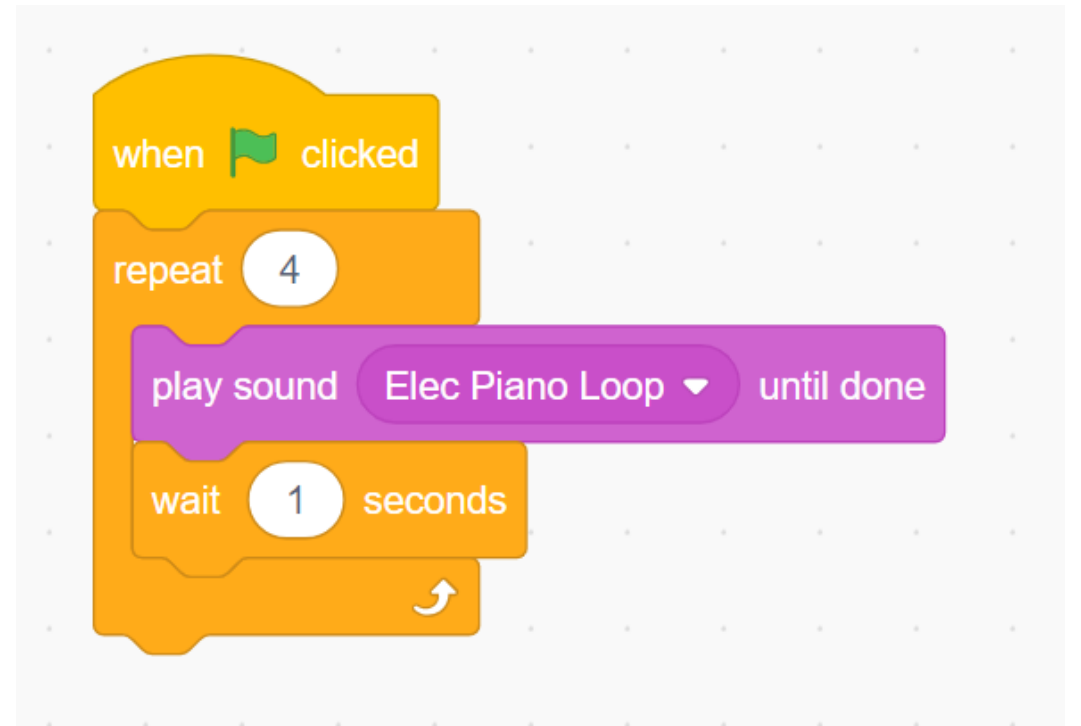
## 2. DESIGN YOUR NAME





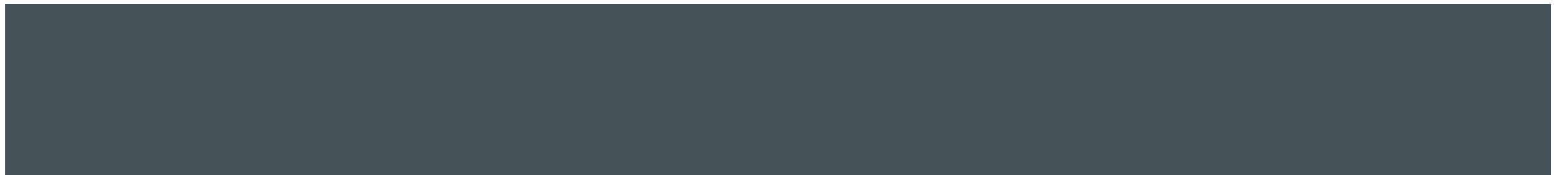
# DESIGN YOUR NAME

- Log into Scratch
- Choose a sprite for each letter
- Add a backdrop
- Add music
- Arrange your letters





### 3. ANIMATE YOUR NAME





# ANIMATE EACH LETTER

- Grow
- Bounce
- Change Color
- Spin
- Glide

You will Animate Your Name for 10 seconds (Your code should run in 10 seconds)

# CODE THE ANIMATION

## SPIN

```
when green flag clicked
repeat 10
  turn 36 degrees
  wait 1 seconds
```

## GROW

```
when green flag clicked
repeat 5
  wait 1 seconds
  change size by 10
repeat 5
  wait 1 seconds
  change size by -10
```

## BOUNCE

```
when green flag clicked
repeat 30
  change y by 10
  wait 0.1 seconds
  change y by -10
  wait 0.1 seconds
```

## GLIDE

```
when green flag clicked
glide 3 secs to x: -150 y: -150
glide 3 secs to x: 200 y: -150
glide 3 secs to x: 75 y: -50
```

## COLOR

```
when green flag clicked
repeat 10
  change color effect by 25
  wait 1 seconds
```



## 4. PRESENT YOUR PROJECT





## QUICK SURVEY

- Was this fun?
- Do you want to come back for another project with Scratch?
- What would you like to build with Scratch next?