CoderDojo Athenry

SCRATCH Beginners

Code and notes by Martha Fahy, 2014

CoderDojo Athenry
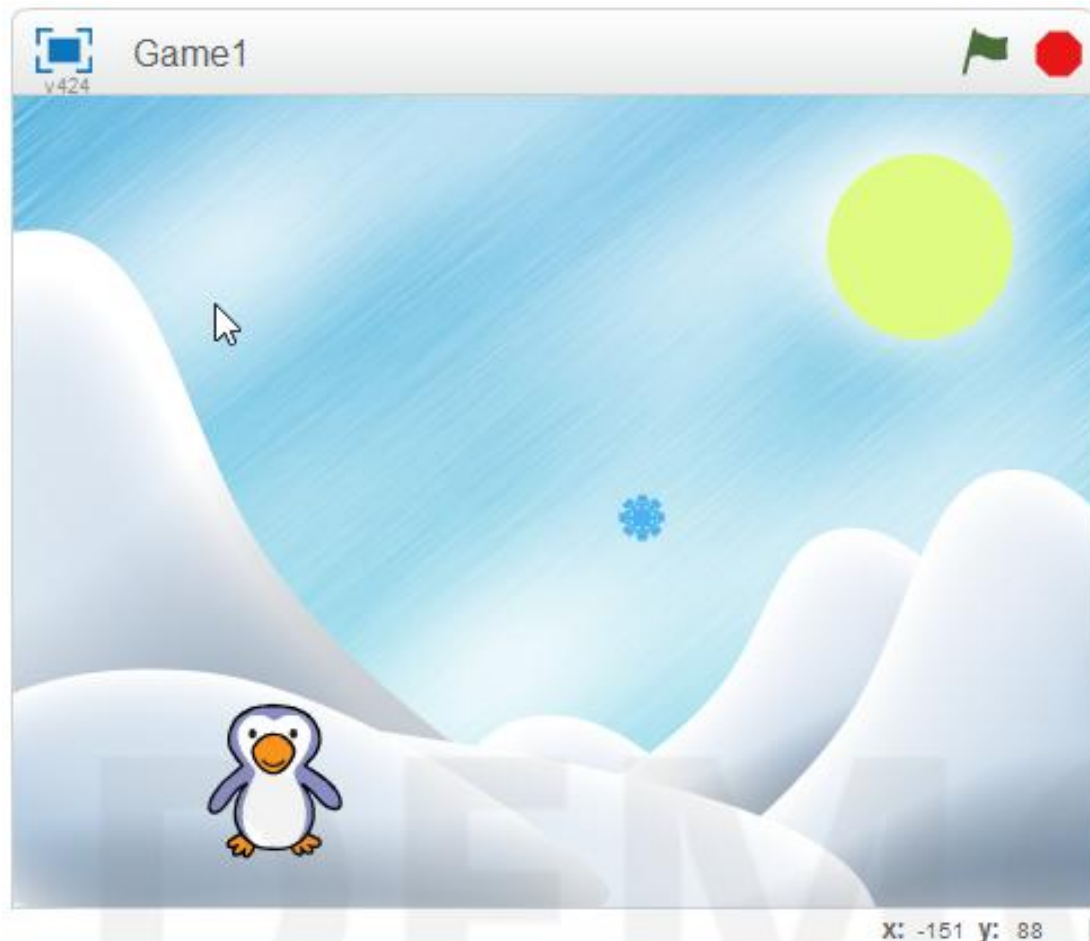# "Above all, be cool"

Every week:
- ✓ Sign in at the door

If you are new:
- ✓ Fill in Registration Form
- ✓ Ask a Mentor how to get started

Make sure you are on the Athenry Parents/Kids Google Group: email
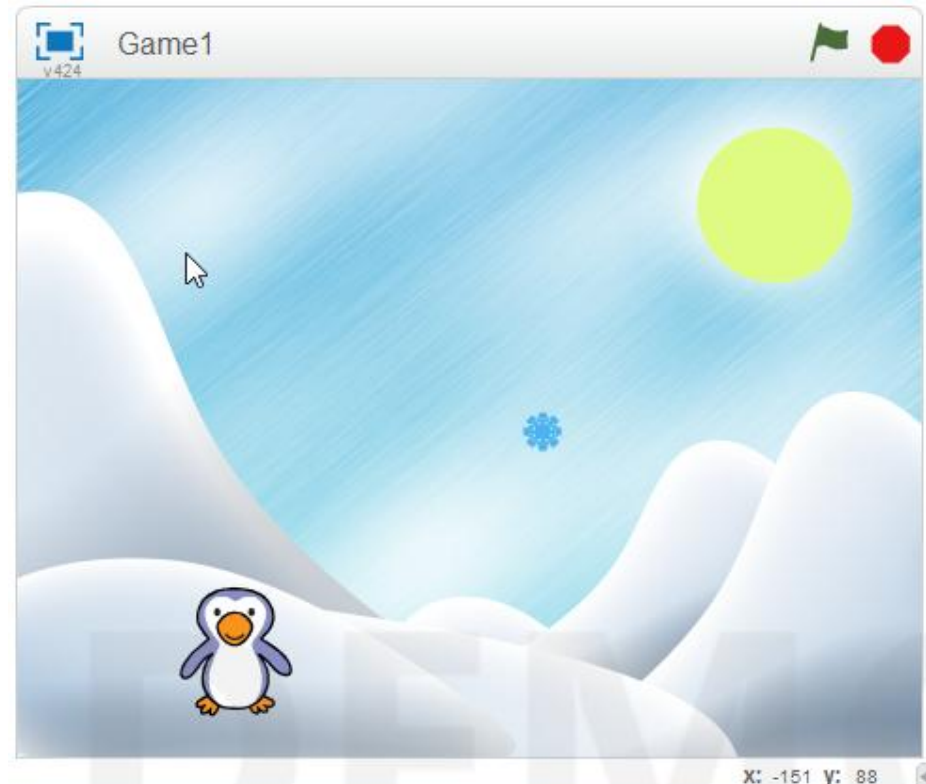coderdojoathenry@gmail.com

Today's Challenge: Add more functions to your First Computer Game!

Don't have a game...don't worry

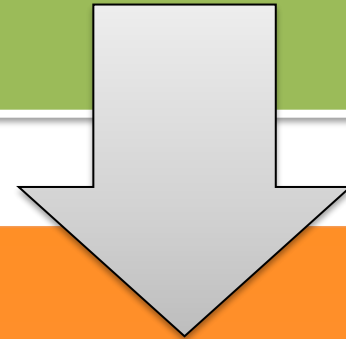Download: www.scratch.mit.edu

Login: cdathenry
Password: athenry
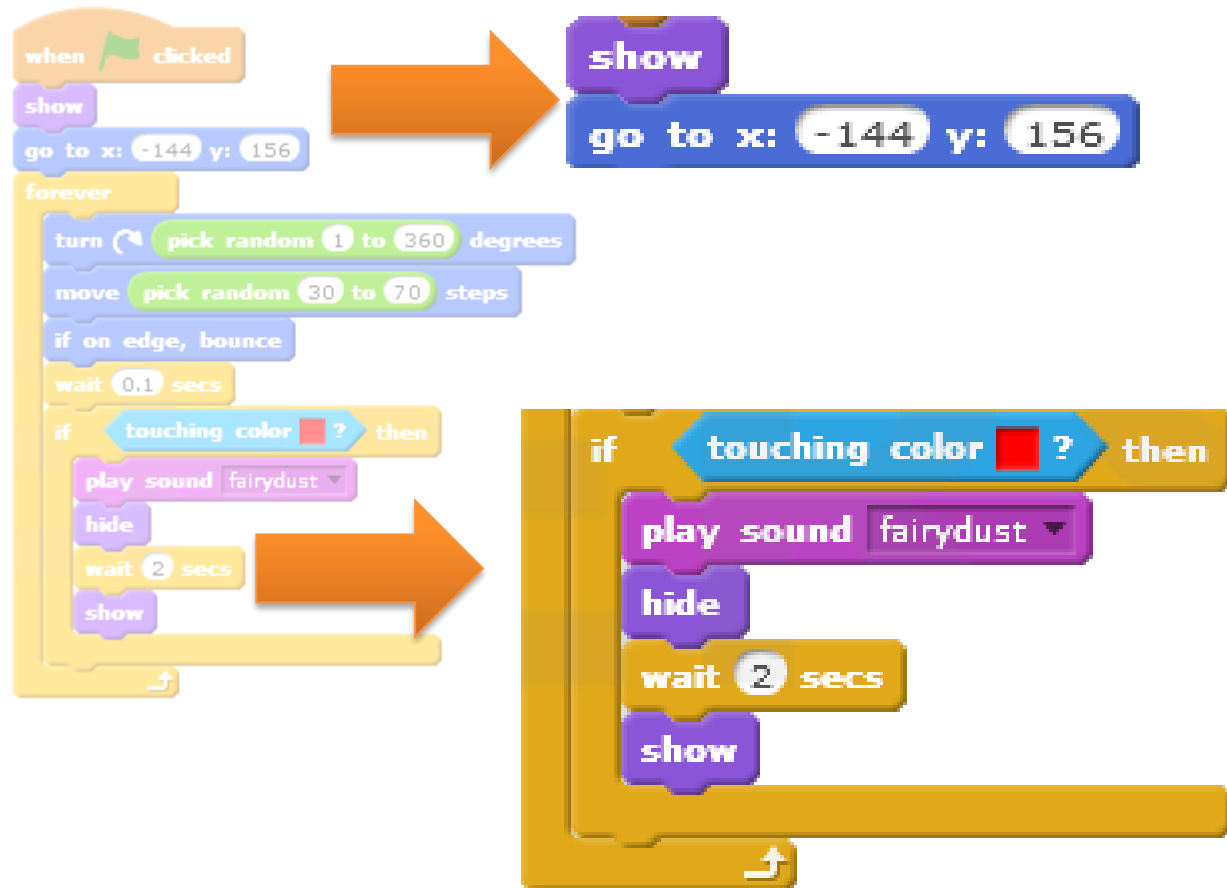
Steps To Improve Our Game

Make things happen when Penguin catches the Snowflake

Code to control what happens when touches colour

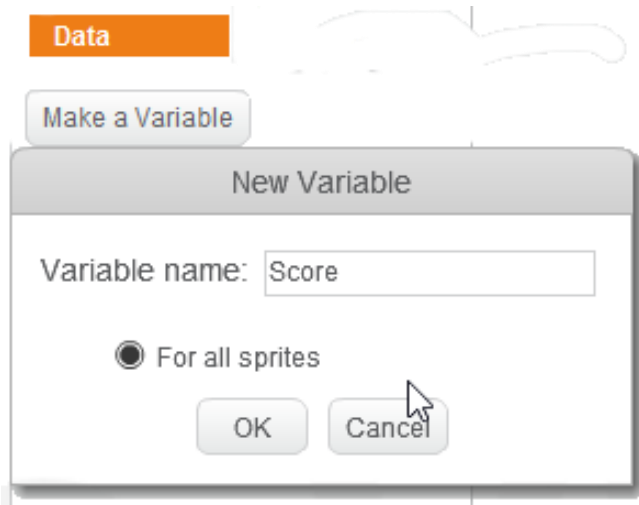Keep track of Score: Make a variable called Score
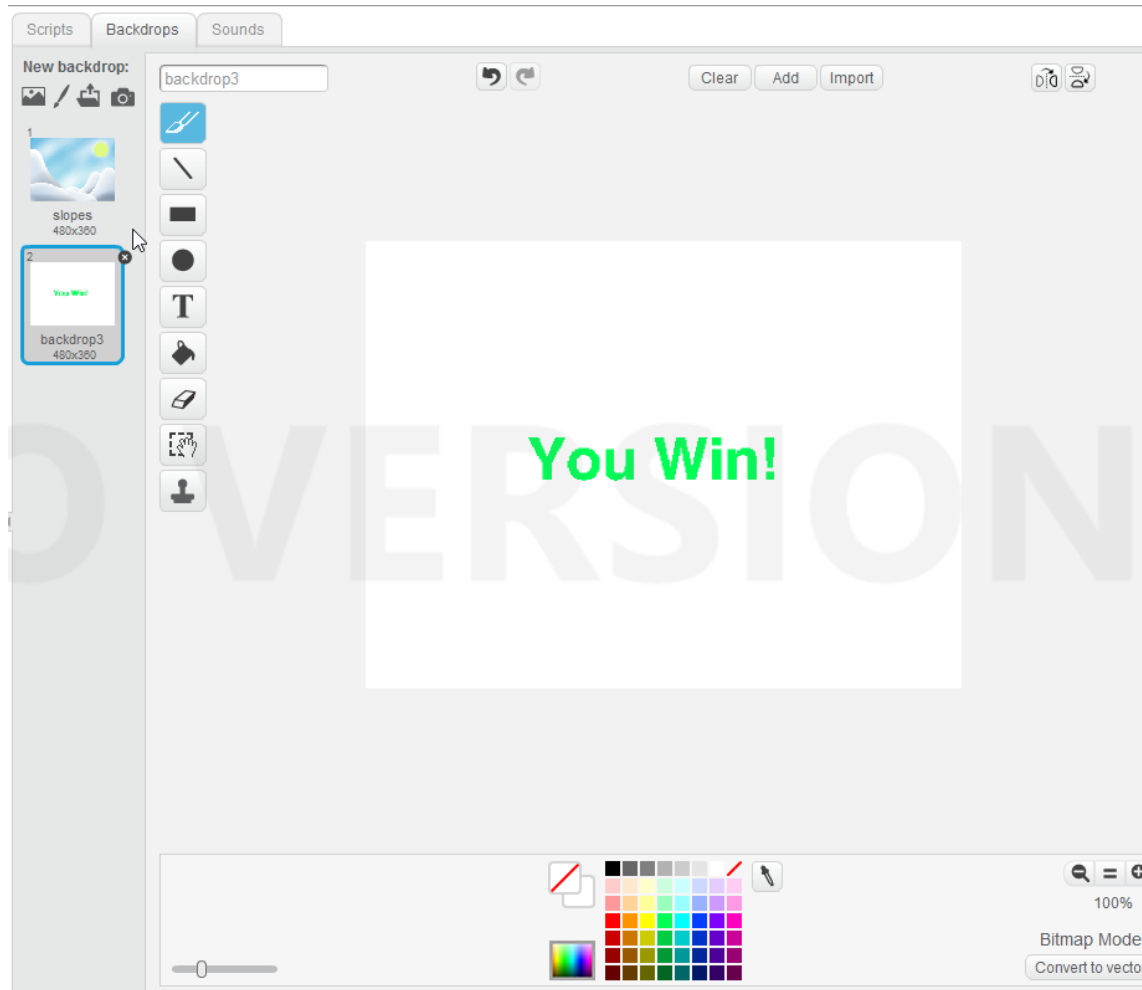
Make Things Happen
When They Touch

Have fun with it!

Keep Track of Score

Need to make a variable

Data

Make a Variable

New Variable

Variable name: Score

○ For all sprites

OK   Cancel

☑ Score

set Score ▾ to 0

change Score ▾ by 1

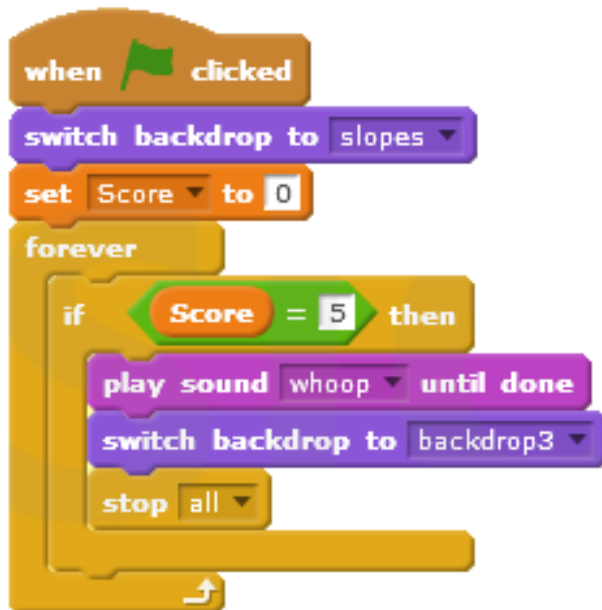show variable Score ▾

hide variable Score ▾

Create a *Second* Background
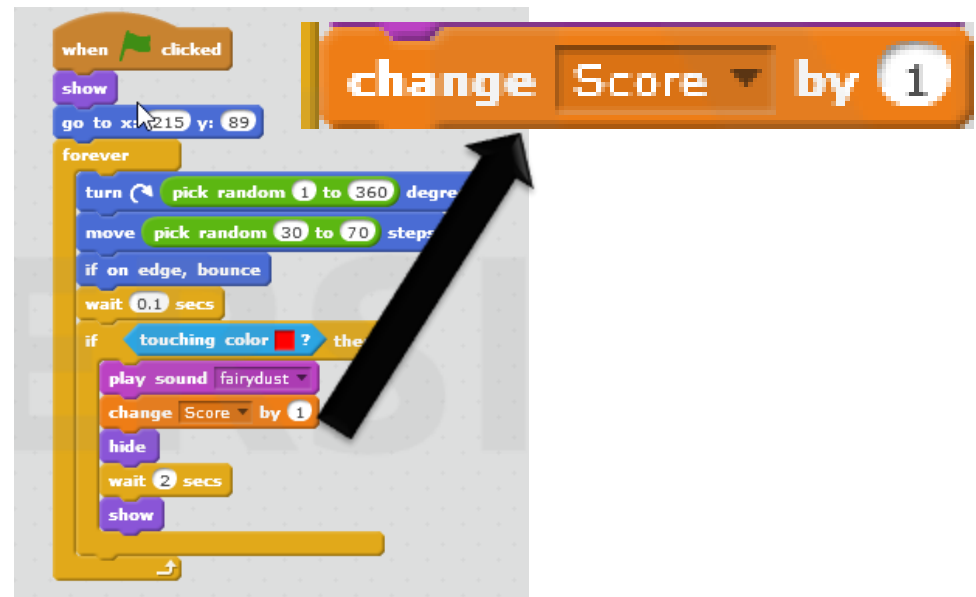
Write our code for the Scores

Add to Background

Add to Snowflake

Make your own game with what you have learned....Have fun

Recap

Moving

```
when right arrow key pressed
change x by 10
```

```
when left arrow key pressed
change x by -10
```

```
when up arrow key pressed
change y by 10
```

```
when down arrow key pressed
change y by -10
```

Adding Sound

```
when clicked
show
go to x: -215 y: 89
forever
    turn ↻ pick random 1 to 360 degrees
    move pick random 30 to 70 steps
    if on edge, bounce
    wait 0.1 secs
    if touching color [ ] ? then
        play sound fairydust
        change Score by 1
        hide
        wait 2 secs
        show
```

Moving - Random

```
when clicked
forever
    turn ↻ pick random 1 to 360 degrees
    move pick random 10 to 100 steps
    if on edge, bounce
    wait 0.2 secs
```

Adding Variable

```
when clicked
switch backdrop to slopes
set Score to 0
forever
    if Score = 5 then
        switch backdrop to backdrop3
        stop all
```

At the End ...

Upload your project to the Scratch Website
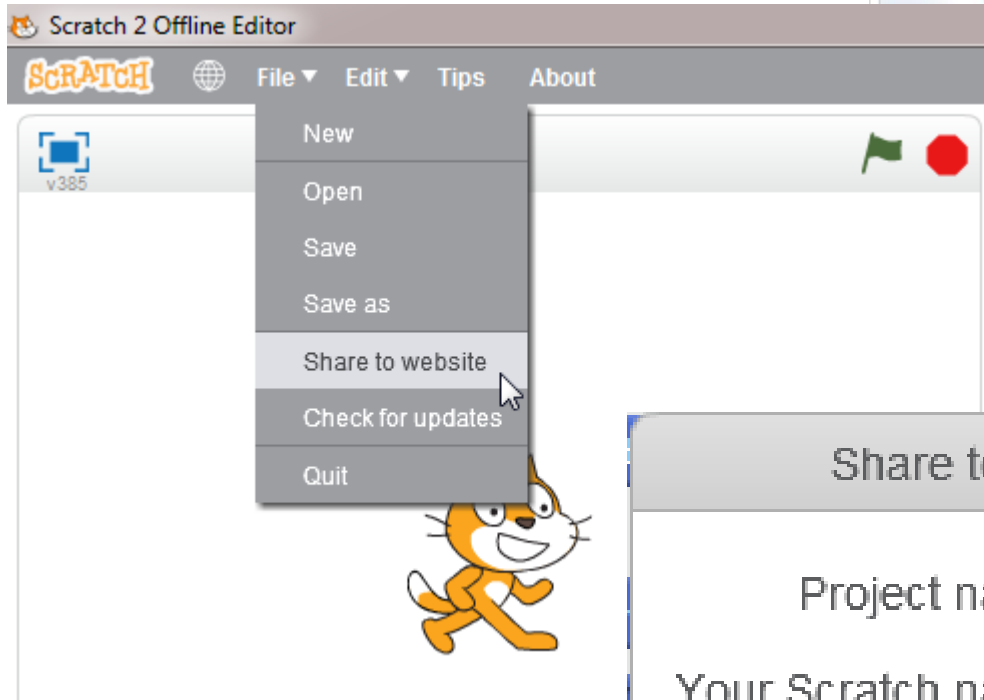user: **cdathenry**   password: **athenry**

Access it
from home

Improve it

Show your
friends!

Uploading to Scratch Website

Keep In Touch!

coderdojoathenry@gmail.com

@coderdojoathenr

zen.coderdojo.com/dojo/53