# GameMaker: Jardine Middle School 2014

(all content for this class, including Gamemaker and additional resources, is available at <a href="http://tinyurl.com/Gamemaker2014">http://tinyurl.com/Gamemaker2014</a>)

# **Day 1: Your First Game**

# Game Description:

- A sprite (the main character) moves around in a room on the screen
- When the sprite hits a wall it bounces off the wall
- If we click on the sprite, we get points! :-)
- If we click and miss the sprite, we lose points! :-(
- There's fun music, sound effects, and a sprite explosion so we know when we hit the sprite

## I. Getting Started

- 1. set up sprite and room:
  - a. create a sprite
  - b. create object for sprite
  - c. put sprite in room
- 2. make your sprite move!
  - a. create a rule to make object move when created
- 3. make walls around the room

- a. create a brick sprite
- b. make an object for the brick sprite
- c. make the brick solid
- d. outline the room with brick sprites
- 4. make sprite bounce against the bricks
  - a. create a rule in the main character object for collision

#### II. Add randomness to motion

- 1. in the *create* event of the main sprite, add an *alarm* action
  - a. set the number of steps in which to trigger that alarm
- 2. add an *alarm* event to the main sprite
  - a. choose a new random direction

- b. reset the alarm to "go off" after a certain number of steps
- optional: use random\_range to choose the minimum and maximum steps for the alarm to "go off"

#### III. Add sounds:

- 1. add the sound you want for when you hit the sprite in the *sounds* section
- 2. add an action to play the sound for a left mouse button event
- 3. using similar logic, add a sound for wall bounce
- 4. add a sound for when sprite randomly changes direction from our alarm
- 5. add background music and make it loop
  - a. what event should start the background music?

## IV. Make an explosion when you click on the sprite

- 1. add a new sprite which represents your explosion
- 2. in your collision event:
  - a. change to your new sprite

- b. wait (sleep) for a bit
- c. change back to your old sprite
- d. start moving!

## V. Add penalty when you miss

1. add a global mouse left-press event

2. add a "set score" action of -1 relative

## VI. Bonus stuff: can you...

- 1. Draw your own sprites?
- 2. Make sprite choose a new random location after every time you click on it?
- 3. Record your own sounds using the Windows Sound Recorder?
- 4. gradually make the game harder?

- a. make the main sprite get faster and faster?
- 5. Set an end to the game
  - a. time limit
  - b. high score
  - c. add room(s)