## Intro to Programming Scratch #16h – Timing Game

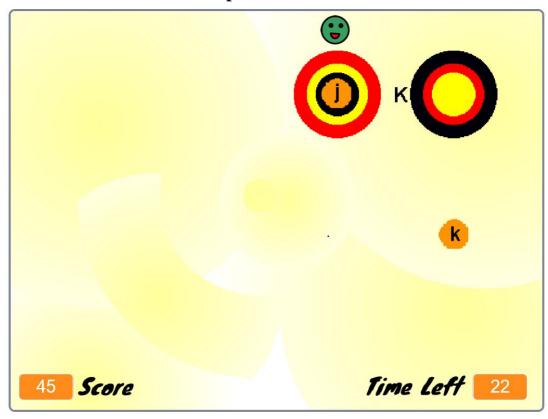
Objective: Create your own timing game in Scratch with 3 levels.

- 1. Login to the Scratch website. Create a new project. Change the name of this project to first\_last\_scratch\_16. Click File->Save now
- 2. You are to create a timing game with 3 levels: Easy, Medium, and Hard.
  - a. For the Easy level, you need 2 timed Sprites; for the Medium level, you need 3 timed Sprites; for the Hard Level, you need 4 timed Sprites.
  - b. You need to create your own shapes. Using the arrows we used in class is not allowed. Circles or squares are fine! The non-moving Sprite must have 3 colors.
- 3. Follow the example that we completed in class for handling the timing.
  - a. Different keys should be pressed to determine correct timing for each Sprite. It must be clear to the user which keys to press.
  - b. The player must receive feedback indicating how well the game is being played. You should have different feedback for each Sprite. This means that **each** moving Sprite needs its **own** notification Sprite.
  - c. The moving sprites should not go to the same position at the bottom of the screen when its key is pressed. Have the moving sprites go to random y positions towards the bottom of the instead of going to the same y position each time.
  - d. For each timed Sprite the following must take place;
    - ⇒ The fixed (non-moving) Sprite must flash when its associated key is pressed and the result is perfect, good, or poor.
    - ⇒ The fixed (non-moving) Sprite should not flash when its associated key is pressed and the result is a miss.
    - ⇒ The fixed (non-moving) Sprite should only flash when its associated key is pressed, and not when the key for a different Sprite is pressed.
  - e. Your game must have a timer and a way to keep track of points.
  - f. All variables on the Stage must be in large readout mode with a label.
  - g. More points must be given for better button presses.
  - h. The game must reset and start when the green flag is clicked.
  - i. The game must stop when the timer reaches 0.
  - j. The game must notify the user that the game is over.
  - k. The player must know the score when the game is over.
  - 1. The game must get harder the longer it is played.
  - m. The stage must play background music while the game is being played.

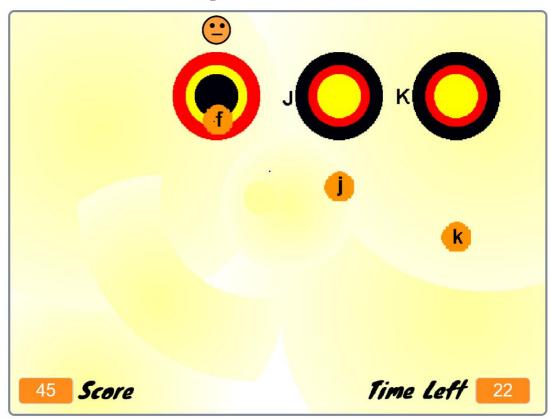
## Sample SPLASH Screen



**Sample EASY Screen** 



## **Sample MEDIUM Screen**



## Sample HARD Screen

