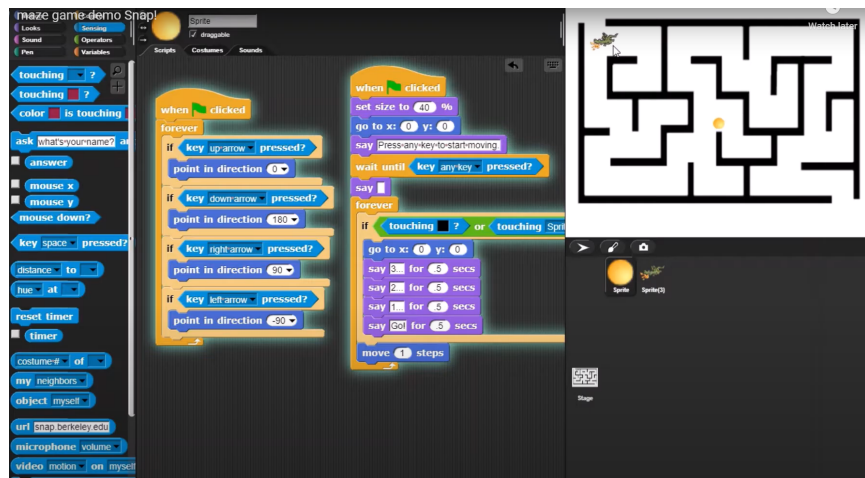


# Snap! Game of Maze Project

## UBMS Snap! Programming Summer 2023

June 27, 2023

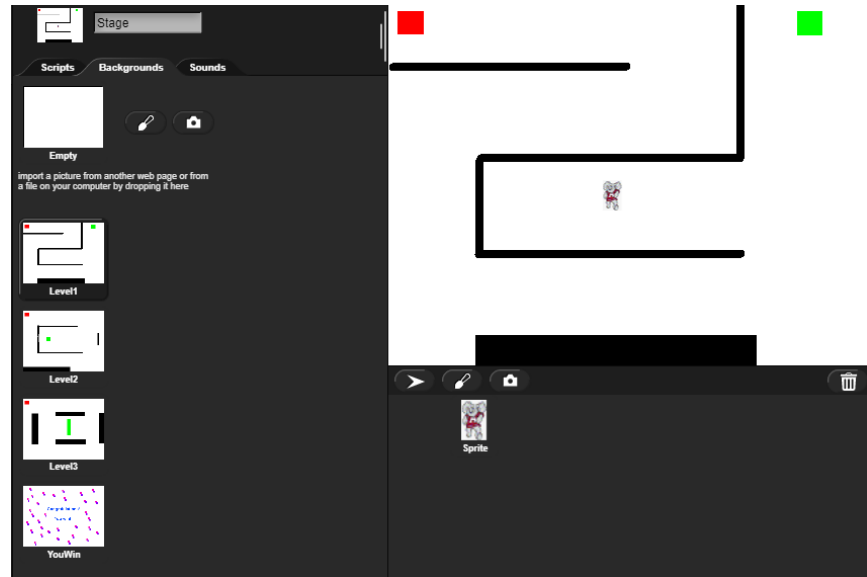
### Objective



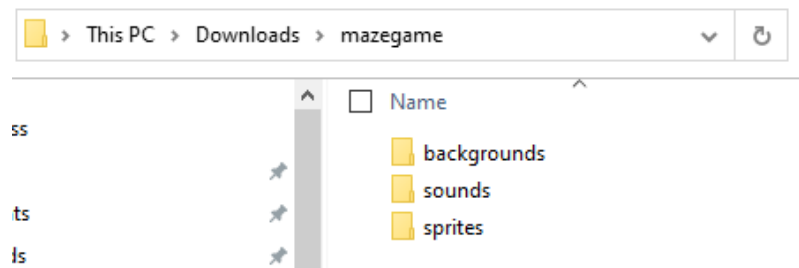
We're going to code a game of maze together - you can then refine and finish the game on your own at will.

Upload the finished game to the Snap! cloud and upload the URL as usual to Canvas for practice points.

## Step 1: setup



1. Download the sprite, background and sounds as a ZIP file: [tinyurl.com/5n8xke8z](https://tinyurl.com/5n8xke8z)
2. Extract the file on your PC:



3. Create new Snap! project and save it as **mazegame**
4. Set up *sprite*, *backgrounds* and *sounds*:
  - Set up (draggable) sprite **player**
  - Set up sprite sounds for **buzzer** (wall), **clap** (level up)
  - Set up stage sound for winning the game (**yea**)
  - Set up stage backgrounds: three levels and final screen

## Step 2: sprite script

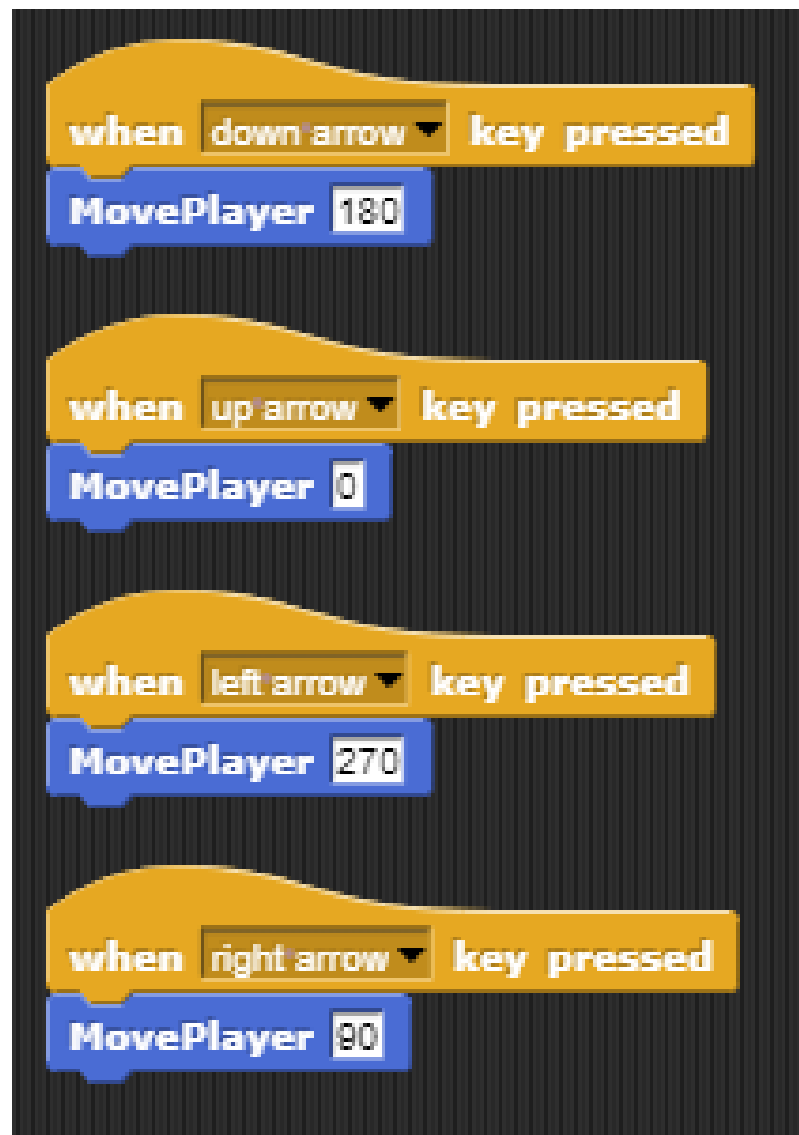
1. Open the **player** script editor
2. Make a new Motion block and call it MovePlayer



3. Make a start script (green flag) that moves the **player** back to the starting position ( $x = -218$ ,  $y = 160$ )



4. Set up keyboard actions for arrows



5. Modify the MovePlayer block

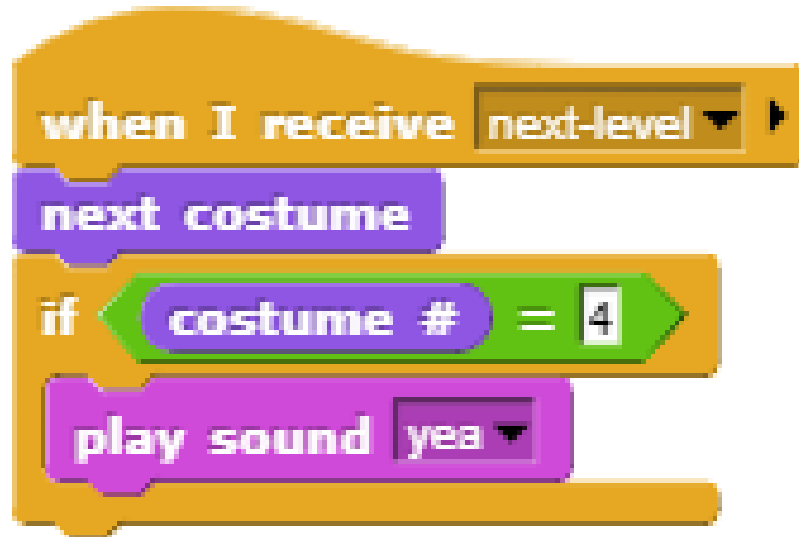


### Step 3: stage script

1. When game starts, switch to level1



2. When `next-level` broadcast is received, change costume and play winning sound when all levels are finished



3. Link to the final game

## Refine the game

- Moving obstacles
- A monster follows the player
- Add a variable to track prize points and penalties
- Add a timer

## Sources

Video examples:

- CSP-Alabama (Sep 1, 2014). Unit 3: Maze Game Example. URL: [youtu.be/wlz08UEql9k](https://youtu.be/wlz08UEql9k)
- Joe Haas (Jul 11, 2020). maze game demo Snap! URL: [youtu.be/bi94erkDXdE](https://youtu.be/bi94erkDXdE)

Many more maze game examples are on [snap.berkeley.edu](https://snap.berkeley.edu).