

THE AMAZING PUZZLE

The final project for CSC 111

Mackie Zhou, Grace Li, Winnie Zong

Group 11

How to play the game?

1. Run the **main.py** file to play the game.
2. A python package, **pygame**, needs to be installed. See [pygame official website](https://www.pygame.org/wiki/GettingStarted#Pygame%20Installation) to learn how to pip install pygame.
<https://www.pygame.org/wiki/GettingStarted#Pygame%20Installation>

Game Description

Bored by problem sets and papers? Let our **Amazing Puzzle** sharp your brain! Choose a difficulty level and challenge yourself!

1. How to win?

- Make the yellow and blue squares cover the two static grey squares.

2. How to play?

- Choose a **difficulty level** from level 9, 99, and 999.
- Control the movement of the yellow square and the blue square by hitting the **left, right, up, or down arrow keys** on your keyboard.

3. Any rules?

- The two squares **move together** (i.e. if you hit the up arrow key, both squares will move up a grid)
- **NO MOVEMENT when hitting a wall**. If only one of the square is stopped by the wall, the other one will move normally (this is a strategy you can use to move only one square).
- The squares will be **transported by the numbers** around the game board. All the numbers appear in pairs and they are like channels between grids. If you move a colored square out of the board from one number, the colored square will reappear in the other grid surrounded by the same number.
- **NO OVERLAP** of the two squares.

4. Everything will be clear when you try it out!

There are two functions in the Project.py file: 1. the main() function 2. the createsq() function

