# The Breakout Game Using Pygame Library

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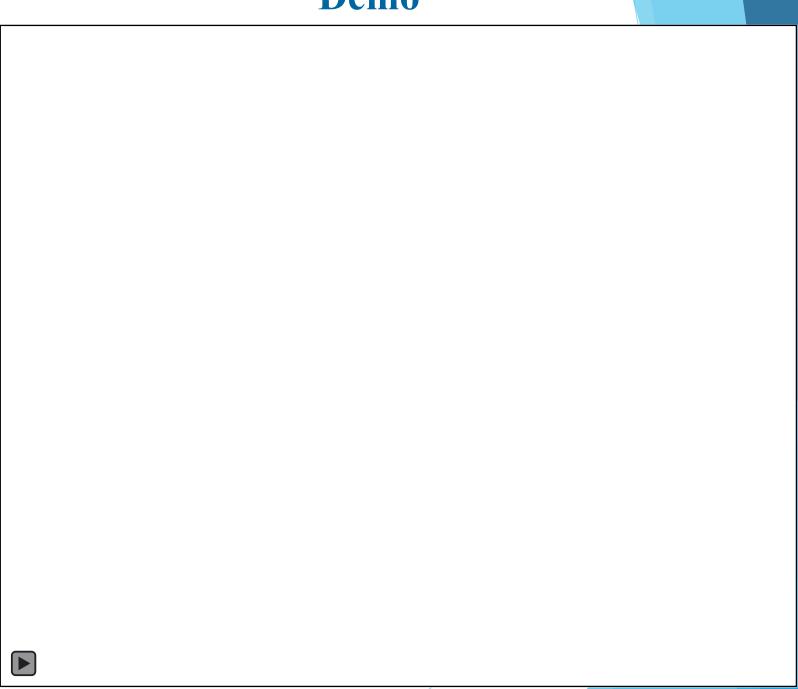
# **Outline**

- Introduction and Demo
- Features
- Limitations
- **☐** Future Implementations

### Introduction

- Breakout is one of the earliest arcade video games, first released in 1976 by Atari. It was derived from the game Pong (released by Atari in 1972).
- ► This one-player game features simple 2D graphics.
- It consists of one paddle used to return a bouncing ball back and forth across the screen.
- The aim of the game is to break the bricks of a brick wall by getting the ball to hit/bounce on the bricks.
- The score correspond to the number of bricks being hit.

# Demo



#### **Features**

- User friendly UI.
- Game window size can be changed. Game objects are responsive to size.
- Paddle can shoot the bricks.
- Paddle can move up, down, left right.
- Bricks keep going down after some frames interval
- Balls are doubled if hit some special bricks.

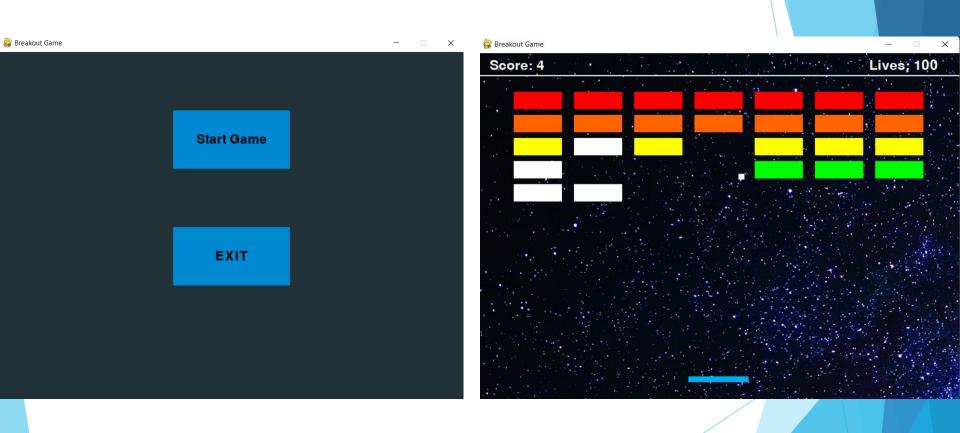
#### Limitations

- Full screen view feature not implemented.
- Difficulty levels are not defined.

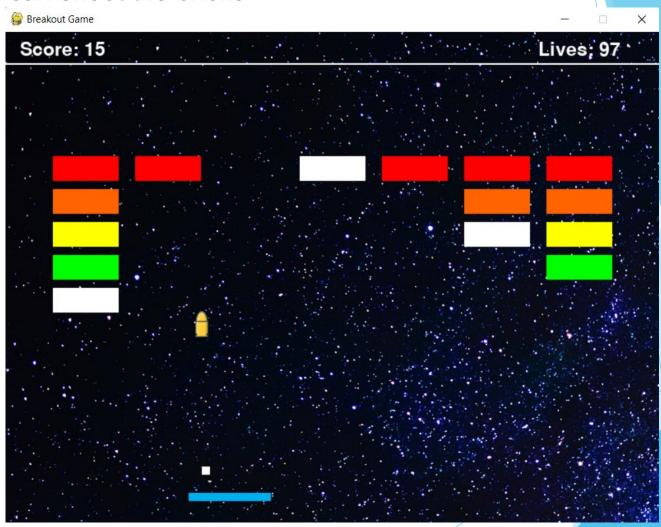
# **Future Implementation**

- Choose difficulty level at the start
- Solve full screen view issue.
- Build an AI bot to play the game using Q learning

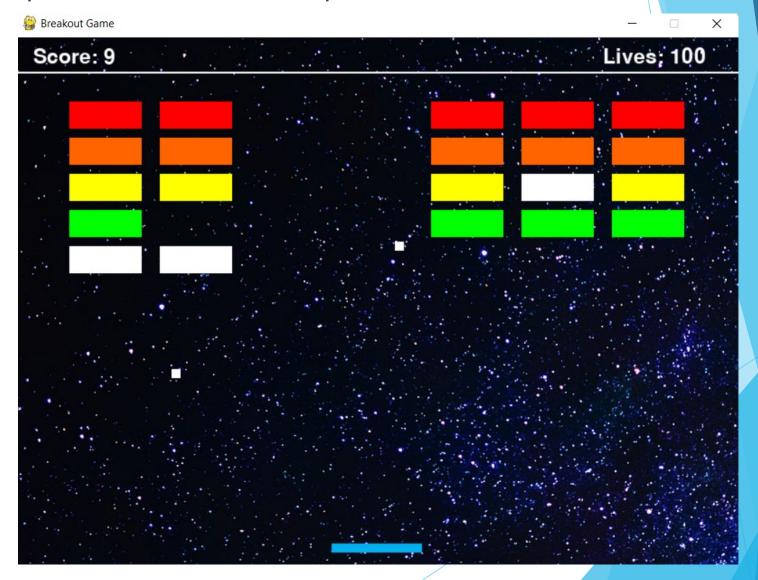
• User friendly UI



Paddle can shoot the bricks.



Multiple balls when hit some special bricks



# Thank you

Feel free to ask questions