

# **Puzzle with Undo / Redo features**

## **About:**

A puzzle game where the player may have to use special platforms to tread certain areas of the level and reach the end

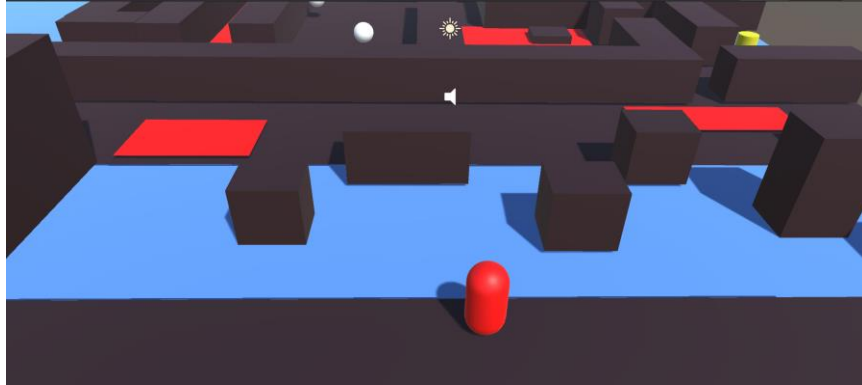


Fig 1: View of the level with water (blue) and fire (red)

## **Controls:**

W, UP arrow – move forward
A, Left arrow – move left
D, Right arrow – move right
S, Down arrow - move backward
Spacebar – Jump
Left mouse button – place the platform
Z – Undo
R - Redo

**Components in the game:**

Object	What it is	What it does
Red Capsule	Player	
Colored cubical platforms	Platforms to jump on	Allows the player to jump on it to avoid dangerous surfaces
Blue plane	Water	Drowns the player leading to death
Red plane	Fire	Burns the player leading to death
Yellow cylinders	Key	The player must collect two to finish the level
White sphere	Monsters	Eats the player. Player dies.
White capsule	Cheat	Gives the player immunity against all obstacles. Players needn't collect keys to pass through the door
Pink box	Portal	The Player passed the level and won the game

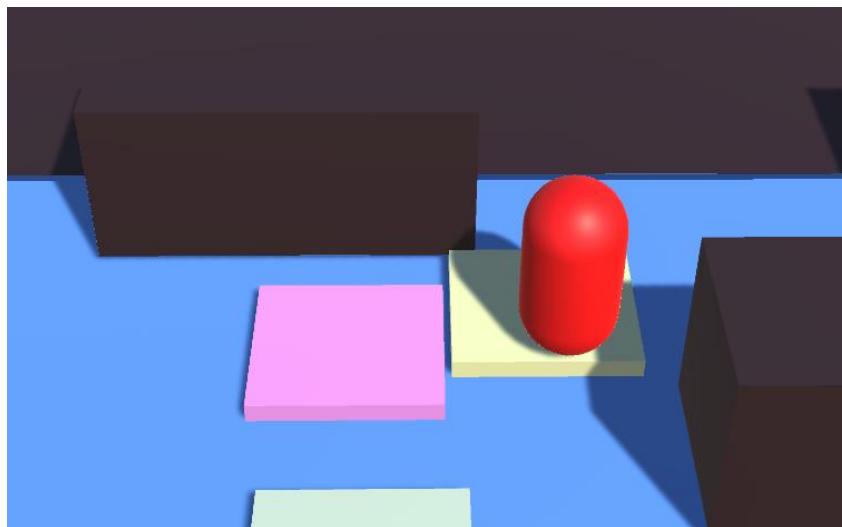


Fig 2: Player standing on platforms to avoid the water

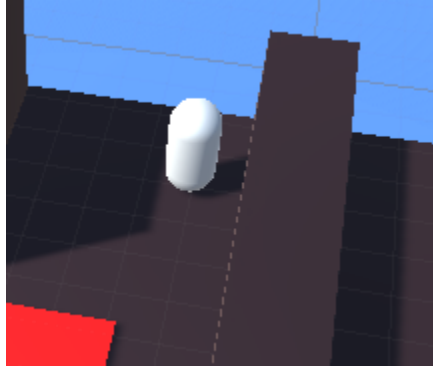


Fig 3: Cheat

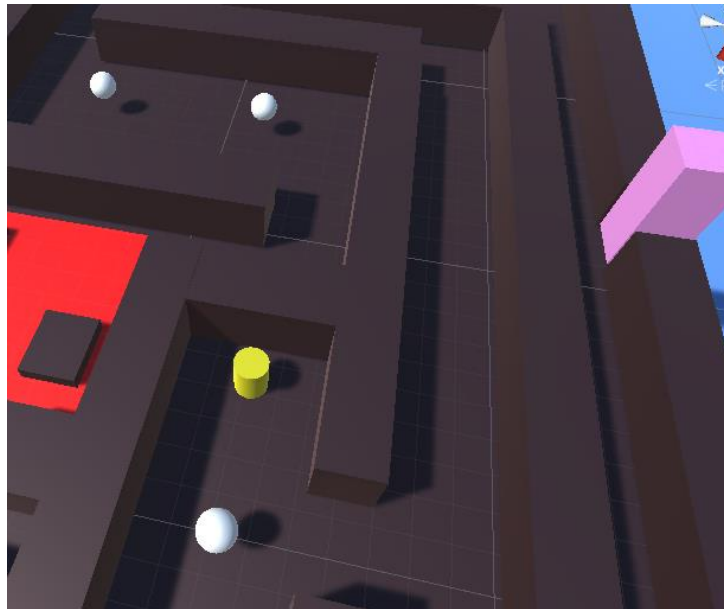


Fig 4: White monster guarding the yellow key

**How to play:**

Navigate through the level avoiding monsters, water, and fire. To open the portal, the player must collect two keys. The player can spawn platforms on water and fire to walk on top of it. The player can undo and redo the spawns.

**Win condition:**

Reach the pink portal

**Lose condition:**

1. Fall into the water
2. Walk on fire
3. Touch a monster
4. Spawn more than 15 platforms

**The number of lives:** Infinite!

Every time the player encounters one of the lose conditions, the game automatically restarts with the player at the starting point.

**Constraints:**

1. Player can only spawn at most 15 platforms in the game
2. As soon as the player passes the first water body, and when they enter the maze, the player will be unable to undo or redo any spawns from before. This is to make the game slightly difficult and limit the spawns.
3. The platform can only be placed on water and fire.

**Cheat:**

Collect the white capsule at the beginning of the level to gain immunity and breeze through the level. Once the player gets immunity, they needn't collect keys and can go to the portal directly.