BubbleMan

by team iNoodle Squad

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Introduction

BUBBLE MAN is a two-player entertaining game.

Players – lay bubbles on the map, try not to be killed by the exploded bubbles, get the tools to strengthen different abilities

bubbles – explode in a few seconds after laid

If the player fails to escape from the explosion, he will be trapped in a bubble and die in a few seconds.

Tools –



a) Rollerblading Shoes: speed up the player;



b) Red Heart: give players extra lives;



c) Magical Potion: increases the range of explosion;



d) Bubble Baby: increases the limitation of the number which a player can put simultaneously.

Technical Difficulties



1 The original PNG object in Map will be destroyed after Map object was used in functions by copy.

Solution – Using reference instead of the copy of the object.

2 Explosion of bubbles should be independent means that several bubbles can explode at the same time.

Solution – Knowing that the bubbles will not be more than 15*15, we set 15*15 bubble objects located on each patch to reach our goal.

3 One player can only move to one direction in a single moment. And movement of two players should not be affected by each other.

Solution – Set flags to check each player so that movement won't conflict.

4 If a bubble is in another bubble's explosion, it should also be detonated.

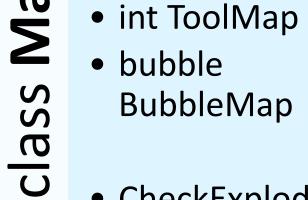
Solution – Using the recursion of CheckExplosion() function

Game Interface Bubble Man Time 00 : 35 Player1

Data Structure



int StateMap



- CheckExplode()
- AdjacentExp()
- CheckSetState()
- Draw()



- Place
- Velocity
- ToolNumber

State

- LayBubble()
 - AddTool()
 - Move()
 - Draw()



Place

- PlayerID
- Range
- State

- CheckTime()
- Draw()

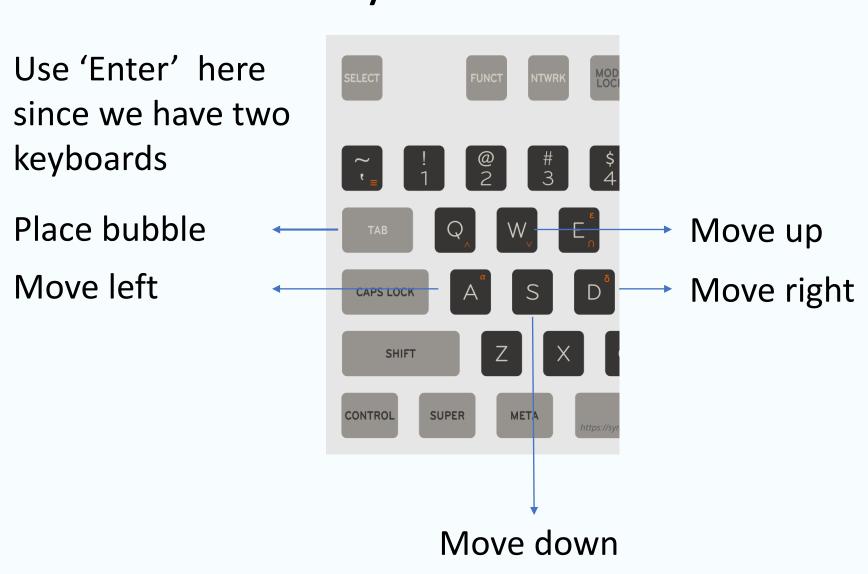


- P1Parameter
- P2Parameter
- Draw()

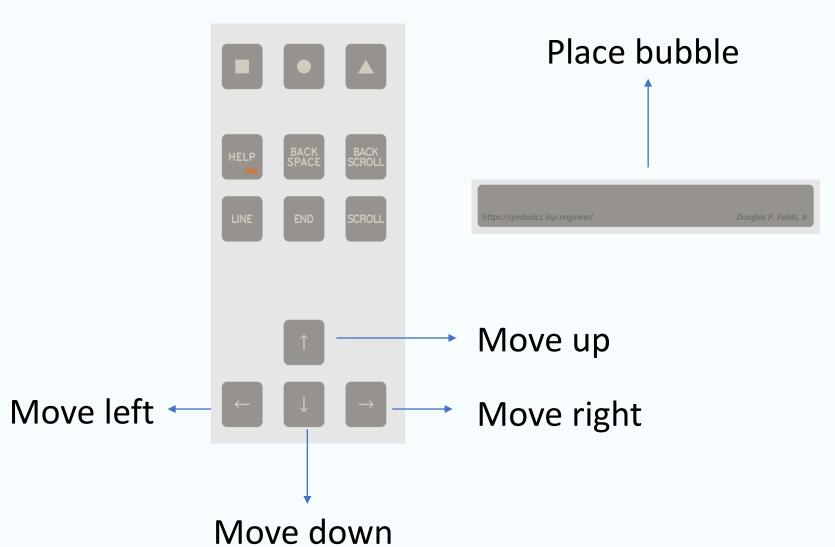
Thanks for playing!



Game controller



Player1 controller



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