#### Presentation

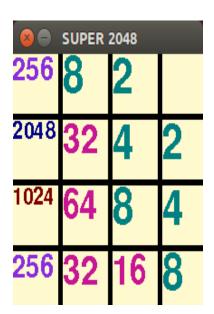
Development Of The Game: Super 2048

Sravya and Mahathi

04-July-2016

## Project Objective

To design a 2048 grid with additional features using modern Programming language: Python



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Sravya and Mahathi Presentation 04-July-2016

### About The Game

- Super 2048: 4 \* 4 grid.
- Tiles are moved in four directions.
- Two similar tiles merge.
- Game objective: To create '2048' tile.
- Modes: Normal and X Mode
- Super tile.

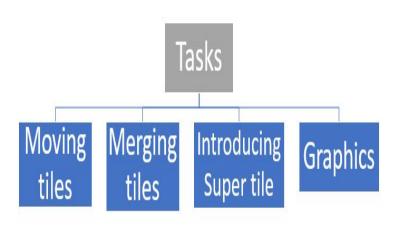
## Super Tile

- 1 It appears when 3 merges take place in a single move.
- Checks for the maximum value on the grid.
- 3 Raises the value of maximum tile by 4.

## Requirements

- Programming language: Python
- ② Graphics Platform: Pygame
- Python3 Interpreter
- Operating System: Linux
- Project Documentation: LATEX

### **Tasks**



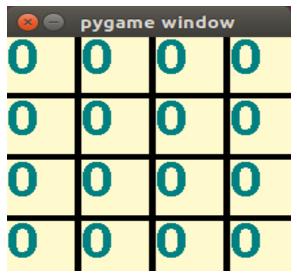
#### To Learn

How to implement Python coding for Game Development using PyGame

### **Progress**

- Day1: Printing a grid.
- Day2: Printing a list of numbers on a grid.
- Day3: Moving tiles by one-step in all directions.
- Day4: Moving and Merging tiles in four directions.
- Day5: Syncing Pygame and Python code.
- Following week : Super tile.

# Output



```
15wh1a05b4@ts-wise1:~/Project/source$ python3 sample.py
                0
enter move : r
                        0
                        0
                        0
                        0
enter move : u
        0
                        0
                        0
                        0
enter move : l
        0
                        0
                        0
enter move : d
        0
                        0
enter move : u
        0
```

enter	move	u		
8	16		8	8
4	2		4	4
2	0		2 0	4
<b>⊙</b>	0		0	0
enter	move	u		
8	16		8	8
4	2 2		4	8
2	2		2	0
<b>9</b>	Θ		Θ	0
enter	move	u		
8	16		8	16
4	2		4	0
2	0		2	0
<b>o</b>	0		0	0
enter	move	u		
8	16		8	16
4	2 0		4	0
2	0		2 0	0
<b>©</b>	2		0	0
enter	move	u		
8	16		8	16
4	4		4	2
2	0		2	2 0
<b>⊙</b>	0		0	0
enter	move	u		
8	16		8	16
4	4		4	2
2	0		2 0	2 0
enter 8 4 2 0 enter 8 4 2 0 enter 8 4 2 0 enter 8 4 2 0 enter 8 4 2 0 enter 8 4 2 0 enter 8	0		0	0

### Normal Mode



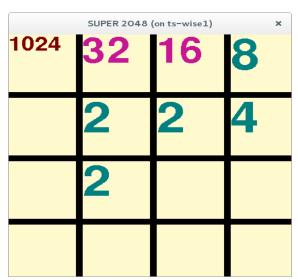
### X-Mode



# Step before Supertile



# Supertile



## Challenges Faced

- Printing a list on a grid.
- Merging the Like-tiles.
- Introducing Super tile.

## **Statistics**

Category	Python	Pygame	
Lines of code	149	41	
Number of Functions	9	1	
List of Functions	Random tile Up move Up merge Down move Down merge Left move Left merge Right move	Print Tiles	

# **Bibliography**

- www.stackoverflow.com
- www.pygame.org
- www.youtube.com
- docs.python.org