

Tetris 2048

Course: Comp204-Programming Studio

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What is 2048?

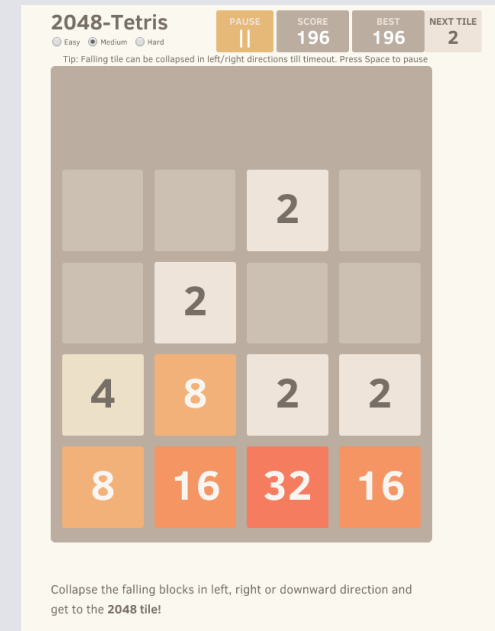
- 2048 is an exciting tile-shifting game, where we move tiles around to combine them, aiming for increasingly larger tile values.
- The sliding block puzzle game 2048 was created by Italian web designer Gabriele Cirulli.



2048

Tetris 2048

- Tetris 2048 is a combination of two popular puzzle games: Tetris and 2048. In this game, players must use Tetris-style gameplay to stack numbered tiles and create combinations that add up to 2048.
- In Tetris 2048, blocks are numbered tiles that can be combined to increase their value. When two tiles with the same number are touched, they merge into a single tile by the sum of the two values.
- It's a great way to test your puzzle-solving skills and compete with other players for high scores.

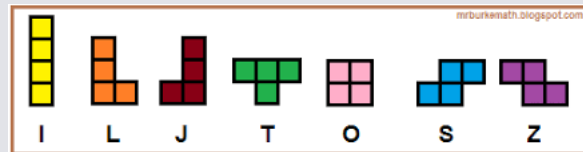


Project Content

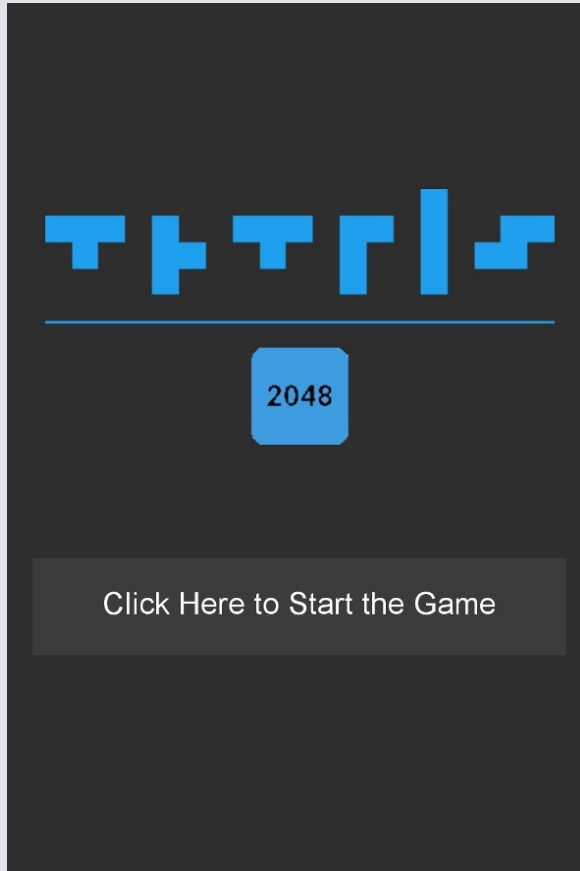
- Models a point as a position in a 2D field
 - Contains a basis for the Tile class
 - Contains a basis for the Tetromino class
- Contains the GameGrid class for representing the game grid
- A menu with an image and a start game button that allows you to move tetrominos left, right or down on the game grid

Gameplay

- There are numbered blocks in Tetris 2048 ranging from 2 to 1024 Dec. to get to the number 2048, you need to combine these numbered blocks.
- Use the arrow keys on your keyboard to move the falling blocks and the Z key to rotate them. The blocks will fall from the top of the screen to the bottom.
- If you fill the screen with blocks and can't create any more horizontal lines, the game is over.



Project Solutions

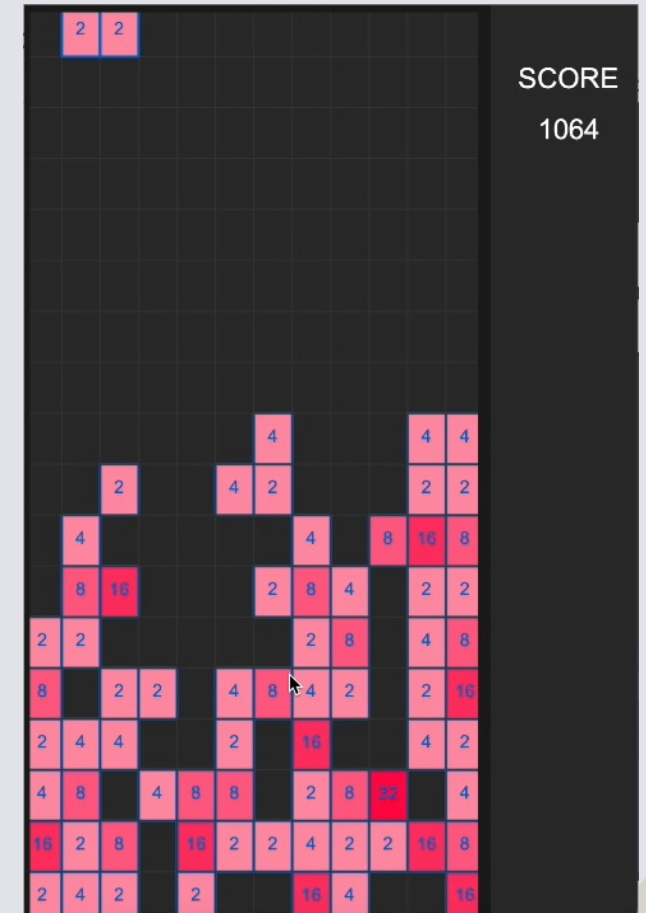
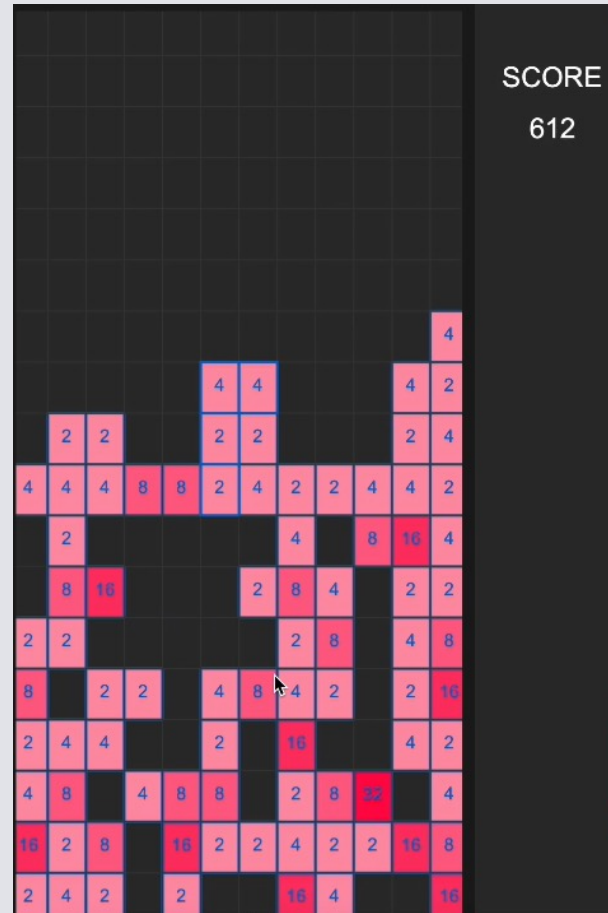
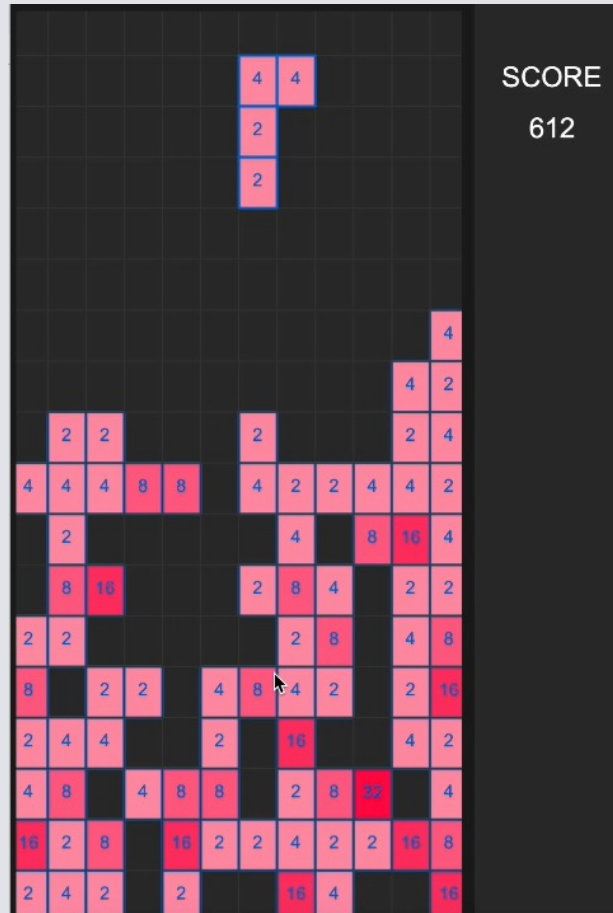


Game Menu



Game Over Menu

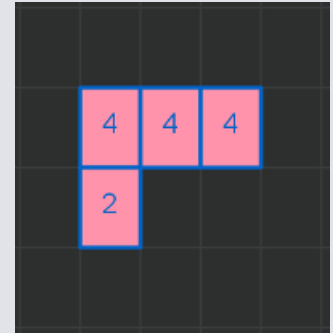
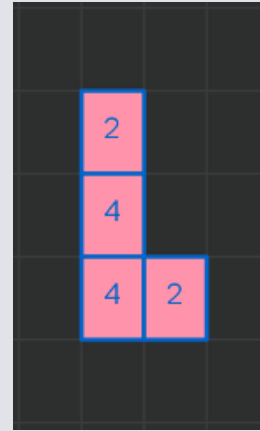
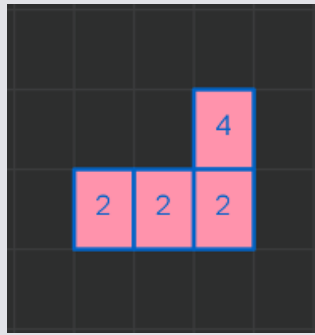
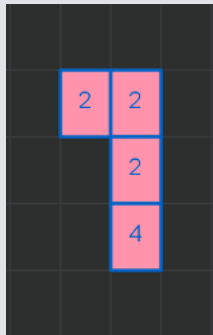
Project Solutions



Clear Full Row

Project Solutions

Rotation of a Tetromino



Merge

