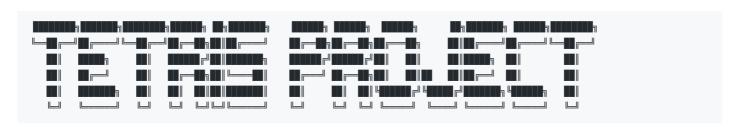
Tetris Project



Notions

- C# Documentation : Class
- C# Documentation : Inheritance
- C# Documentation : Timers
- C# Documentaion : Bitmap
- C# Documentation : Graphics
- Visual Studio Documentation : Winform

Optional notion

• C++ Documentation : patern state (its c++ documentation but its more a way to code, popular in video-games)

Instructions

You had to use Visual Studio (not visual studio code) to make your program

Make your own Tetris game! Create a menu with "Play", "Options" and "Quit" buttons and make them work.

* Button Play must launch the game * Button Option must contain some configurable options * Button Quit must obviously quit the game

Part 1-- Game

Here, is where users will scoring at your game Where to start?

Drawing--

First, you had to make a grid in your interface, its here where users will play. you had to use elements in winform to make it. This grid will allow you to: * Manage colisions * Make your shapes move by updating your grid in time * here you can look how it should work

You can define your shape with the way you want but we recommend to make a class for this

Your shape have to: * Have a size * Have a color * Have a shape -- '* Be able to rotate except beside a wall or an other shape

You had to have an area where users can see: * Their score * The next shape to come

Timer--

Every game (almost) have a timer, it will allow you to update your state game. With the timer you must: * Update animations * Increase the game speed according to the game score

Gameplay--

This is the way to play the game with elements that you put in your game. You can reinvent the way to play Tetris if you want but you had to make the base of the real game work.

Heres the elements you had to put in your game: *Uses key to move your shape right to left * Make a random shape spawn at the top of the grid * Make the shape fall * Make the shape fall faster when user press key down * Make line disappear if it is complete * Increase the score when a line is completed * Game over if shape fall at the top of the grid * You can add elements of gameplay if you want

Bonus part

Its an optional part

here is a list of possibilities you can add to your game: - Add a Menu where users will be able to navigate between "Play", "Options" and "Quit" buttons. - Save your current game and load it - Make an animation for the menu with a tetris playing alone randomly - Make a clean of the grid when user reach an X score - Add malus - Add gamemode - Make an Al that learn alone to play, make an incredible score and take the control of humanity (forget about that one ^^)

Allowed packages

You can use all system package provided with C# in Visual Studio

Exemple