Team C Final

Julianna Truitt Amaya Bryant Prosper Jibunor Josh Lohner

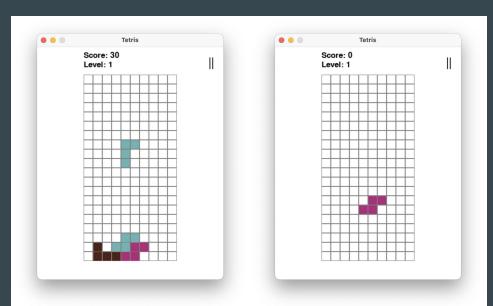
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Simple Design/Architecture

- Refactored original Tetris code with Strategy Design Pattern and the Factory Design Pattern, as well as eliminating many code smells.
- Implemented several features using good testing principles.

Score (Prosper)

- Score is an evaluative numerical value that records how well the player is doing
- Increments by 10 upon piece landing and 100 upon row being cleared



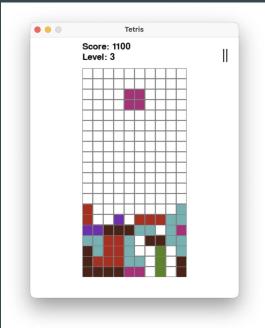
Level (Prosper)

• A series of stages of increased difficulty starting from 1 and incrementing based on

the players score.

Increases by 1 when the player hits a multiple of 500

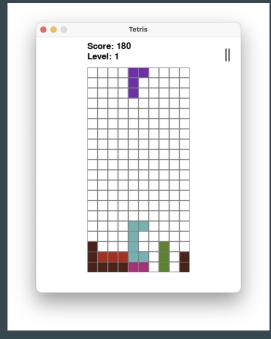
Increases the speed of Tetrominoes



Combos (Prosper)

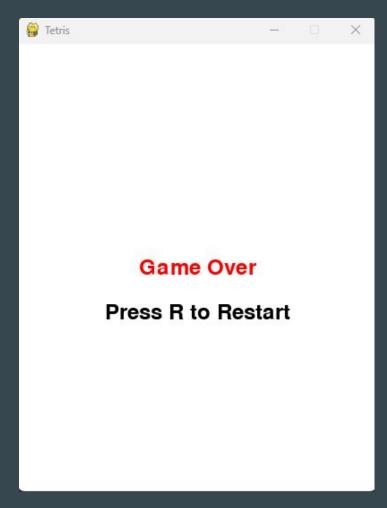
Another reward for skillful players which gives extra points for the clearing of a

row



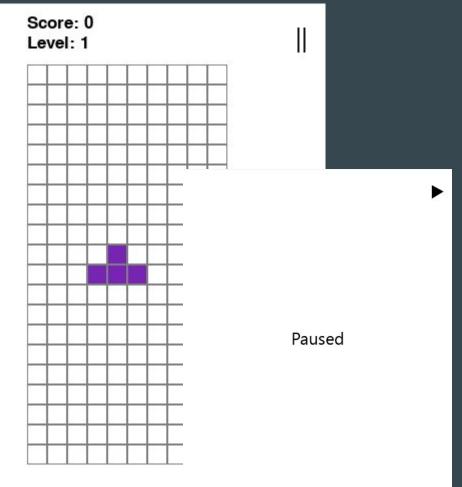
Game Over UI (Amaya)

- Game over screen once the player can no longer make moves.
- Easy game restart by pressing "r"



Pause Game (Amaya)

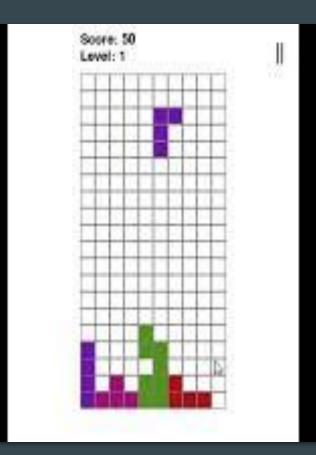
- Player can pause the screen by pressing "||"
- Pause screen appears
- Player can resume the game by pressing "•"



Game Sound (Amaya)

Sounds for

- Background music
- Pausing
- Resuming
- Moving piece side to side
- Rotating piece
- Placing piece
- Filling a line Tetris
- Game over



Choose Figures Color Scheme (Julianna)

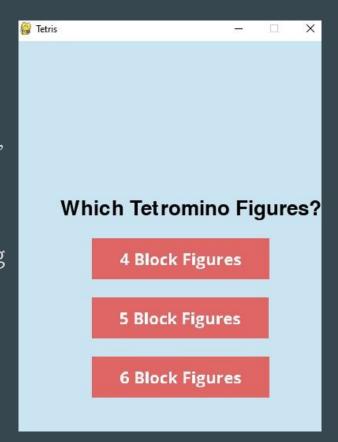
- -Users are given option at the startup menu which color scheme they want to make the figures.
- -Users can pick the Classic, Autumn, Rainbow, or Bright color scheme.
- -This feature will help give users an option to add more customization to their game.



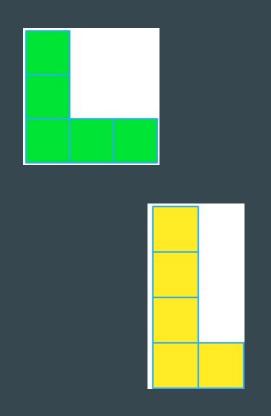
Rainbow Autumn Colors: Colors:

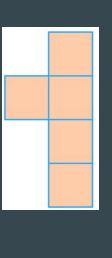
Advanced Figures (Julianna)

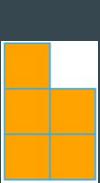
- -Users are asked if they want to play with 4 block figures, 5 block figures, or 6 block figures.
- -This feature will give users a chance to increase the difficulty of the game and keep users intrigued in playing if they get tired of using the same blocks.

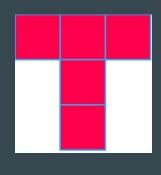


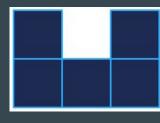
5 Block Figures:













6 Block Figures:

Pick Background Color (Julianna)

- -Users get to select which background color they want the screen to be.
- -All background colors are compatible with all the different color schemes.
- -This increases the users ability to customize the game.



Lessons Learned

- Unnecessary design patterns make code more complicated
- Starting early helps everyone
- There are always more code smells
- Staying organized early would help relieve stress
- Starting early is better—gives you time to ask for help/reduces stress

Progress Summary

Initial loc: 235

Final loc: 740

Final Burndown: 100%

Final Test Coverage: 96%