Tetris - Basic Implementation Practice for Android

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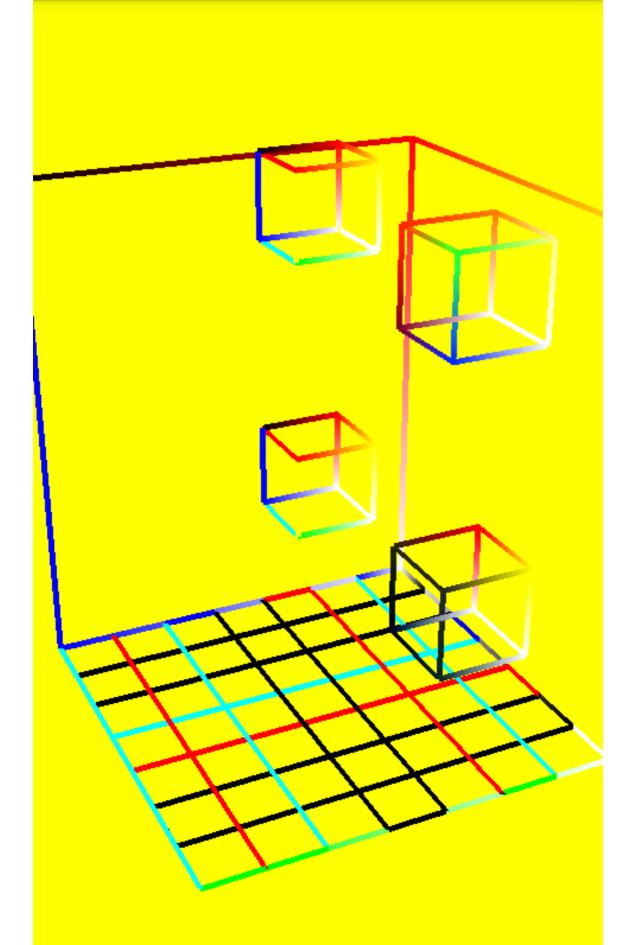
Better version, pretty good

• OpenGL 3D version status:

1 Better version, pretty good

- Still trying to adapt from the TetrisGlar app, and worked on the codes that are necessary for a real 3D instead of pseudo-3d.
- Understand the math part better, to remove unnessary background parts, mirror parts, beside making 2d ==> 3d, rotation could be modified to be better.
- Will continue work on this one today after updated "Undertable Blackmail" repository.
- Will update and report status tonight before sleep.
- This project is still on and updating, please don't think I could give up this one. Even I made limited progress someday, but I will make this project work after working on it day by day.
- I believe about MVP, I am correct now, and I am using the same world center now.
- For translation, rotation, calculation transformation matrix, I still have to write these utilities in order for my Cubes/Blocks to move.
- And I should NOT have been blocked by this drawing for so long, but at least now I know I am correct.
- Will work on Cube==>Block==>Model game flow on Monday, and will update on Monday latest in the evening.
- Move shader and drawing back to Cube, my flow of drawing direction is inverted. I could write and get
 my own UNV R^T matrix and translation matrix (though it's just a wrapper from OpengGL api functions)
 by calculating from setLookAtM function parameters, I believe this matrix should NOT multiply on my
 translated & scaled coordinates.
- (model translate ==> model rotate ==> V * ModelTransRotate result ==> P * V * M, left multiply for opengl matrix, which is WRONG). the correct should be:
- Vector(ofNewVertex) = $M_{Projection[from\ screen\ ratio]} * (M_{Translation[opposite}\ eye\ position] * (M_{Rotation[inv}\ UNV\ directions,\ from\ LookAt\ parameters\ for\ Q^{(-1)} = Q^T] * Vector(ofOriginalVertex))),\ now\ is\ right$
- Block center should be an important concept here, and I need to add the 3 parameters back, because they need to rotate and translate, scale later on depends on the Block center.

- Have spent two days tried to review someone else's code, but it was too complicated rather than developping my own code (tetrisglar $_{d9qpjwxc}$.apk is included in home directory for referencing).
- So from late this afternoon, working on my own codes, partially still referring to the other apk, but it's my flow-chart-ideas and implementation now.
- I believe I got at least some ideas for most of the basic ideas and OpenGL technical difficulties, so the implementation won't be too hard.
- game layout structure:



• a video for this Tetris game can be directly watched at https://www.youtube.com/watch?v=Ht4NOrEUtFk

• most challenge part for tonight, matrix translations & rotations.....will continue work on it tonight

- A video for the previous DrawingFun Android App can be watched at https://www.youtube.com/watch?v=
- YV78Tk5--5M, or by searching deepwaterooo Wang.
 - Starting my trial for OpenGL ES, need to figure out how to draw a game board. • Won't be able to work on it this weekend, but will work on it later on.

 - These video will serve as the indication that as an educated well practiced graduated student, I have the solid
 - technological background, my problem solving skills, the spirit of implementing whatever ideas for apps that
 - I feel I am capable, as well as confidence as an entry level mobile app programmer.

 - For the Tetris game, it's NOT the best product in my mind yet (though it is pretty good now and I will make

 - it a my version of Tetris), but I want to record it so that more friends can enjoy the so far already achieved

 - progress, and for those who just know me would be able to know what is my interested field.
 - By using SurfaceView who has a separate thread for drawing/painting, this game actually it pretty good
 - already, at least should be about 80 out of 100.
 - Though I will continuous refine this game later on when I have time (Better version will be recorded and
- uploaded later within a month or so.), but I won't be able to work on it day in and day out recently, having other things occupied.
- References
- 2.13D design

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