TDT4195: Visual Computing Fundamentals
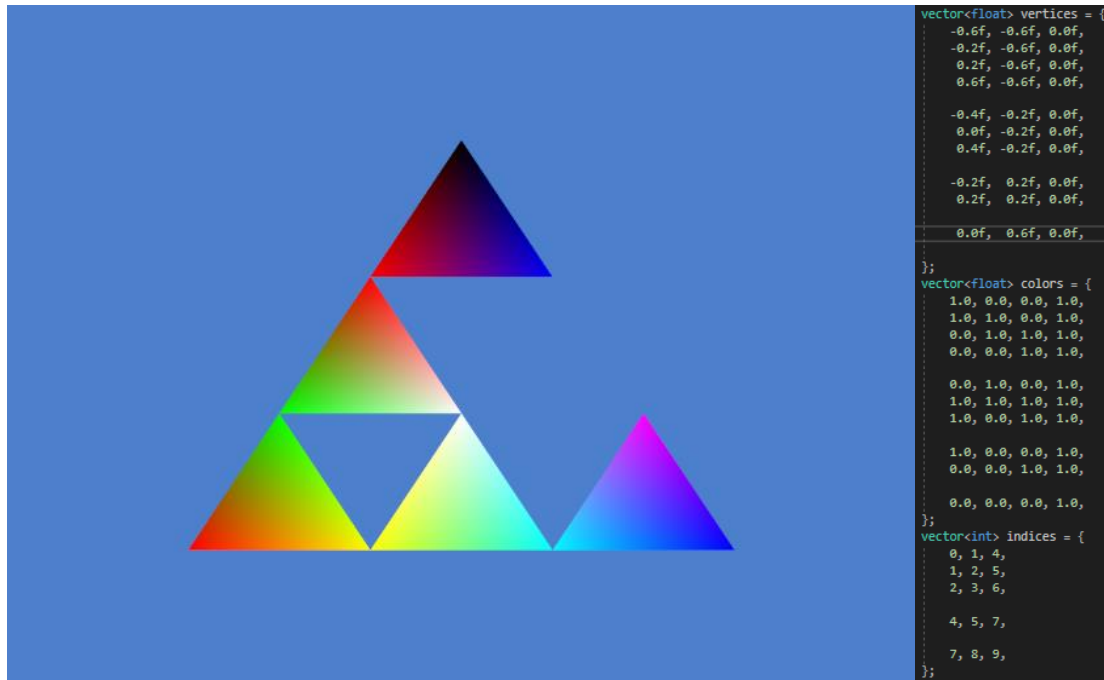
Computer Graphics – Assignment 2

Deadline: 20.09.2019
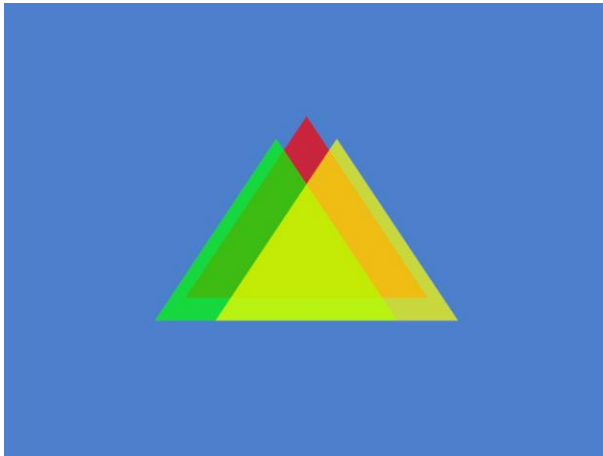
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Task 1

Screenshot from 1b:

Task 2

Screenshot from 2a:

b)

    i)   The effect on the area covered by all triangles that were caused by swapping the colours of said triangles was that the resulting colour was different. The pattern $red \rightarrow green \rightarrow yellow$ resulted in a weird, green-tinted yellow (screenshot from 2a), while the pattern $green \rightarrow red - yellow$ resulted in a very strong orange. The overall colour of the overlapping area is more strongly influenced by the layers that are closer, compared to the layers further away.

    ii) By swapping the z-values of these triangles makes the very first triangle described by the index buffer appear as solid, even though its z-value is lower than another triangle's z-value. TODO

Task 3

b)

    a) Scaling; x-axis.
    b) Shearing; x-axis.
    c) Translation; x-axis.
    d) Shearing; y-axis.
    e) Scaling; y-axis.
    f) Translation; y-axis.

Task 4

The key-bindings I use in subtask c) (b) vi. is WS for pitch, AD for yaw, and QE for roll.