Adam Hadar – anh2130

COMS4731 – Computer Vision

Homework 4 – Due 2016-11-01

It should be simple to do just the three necessary transformations (resize, rotate, translate). But since the rotation and scaling happen with regards to the origin, doing either the translation first and the resize/rotation, or doing the resize/rotation and then the translation, would modify in some unintended way the other transformations.

Therefore instead there should be four transformations:

1. Translation so center of square is at the origin
2. Rotate counterclockwise
3. Scale by 2
4. Translation so center of square is at c2

Note that steps 2 and 3 are interchangeable.