Design Requirements
The goal of this lab is to use the DE2 board to load and display an image to the VGA output, as well as to display a transformed version of the image where the transformations are rotation and scaling.

In the state selected by pressing KEY3 (the initial state), the DE2 should display the unaltered image to VGA, along with text, visible somewhere on the frame, that says “original image”.

In the state selected by pressing KEY2, the DE2 should continuously rotate the image clockwise in increments of 10 degrees as fast the processor can perform it. There must also be text, visible somewhere on the frame that says “rotation”.

In the state selected by KEY1, the DE2 should shrink the image in 10% increments down to 10% of the original size, grow the image in 10% increments to its original size, and repeat. This should be performed as fast the processor can perform it. There must also be text, visible somewhere on the frame that says “shrink/expand”.

Additional Requirements
Your code must render every pixel of each calculated output frame and must use bilinear interpolation to compute the color of each pixel.

Project Submission
Each group must submit a tar archive of all project files to Dropbox.