IP'16 Testing Cases

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IMPORTANT NOTE

In all of the following cases, each step (1, 2, 3...etc.) should be applied completely to the original image **NOT** to the previous step... while parts of each step should be incrementally applied.

Example:

On Cat55

1- Resize to 1333 × 1000
   Resize to 177 × 100
2- Increase contrast (Stretch the histogram)

This means that you should resize original Cat55 to 1333 × 1000, and then resize the result to 177 × 100. While increasing contrast should be applied to **the original Cat55**

First: Geometry and Pixel Operations

Image(s)	Operations Sequences	Targeted Task(s)
Translate.bmp	1- Translate in X by +150 2- Translate in X by -135	1- Translate with wrap
Cat55.bmp	3- Resize by factor **4** in both dimensions Resize by factor **0.5** in y and **0.3125** in x Rotation by 30° Shear in X direction by 0.45 4- **ALL:** Resize y-factor=**0.5,** x-factor=**0.3125**, Rotate 30° & Shear in X by 0.45	2- Reverse mapping 3- Scale 4- Rotation 5- Shear 6- ALL
bird.bmp	1- Decrease RED brightness by 200 Decrease GREEN brightness by 200 Increase RED brightness by 50	Brighten/darken one channel
Cat55 & Marbles	1- Add 2 images (Fraction = 0.5)	Add & Subtract
Mask & Live	1- Subtract 2 images	
Gamma1	1- Gamma by 0.25	Gamma
Gamma2	1- Gamma by 5	
ChessWarped	▪ Image Warping $Pts1 = \begin{bmatrix} 215 & 95 & 660 & 780 \\ 100 & 295 & 330 & 137 \end{bmatrix}$ $Pts2 = \begin{bmatrix} 1 & 1 & 500 & 500 \\ 1 & 500 & 500 & 1 \end{bmatrix}$	Image warping
ClrCorrection1 & ClrCorrection2	1- Color correction with N = 3 2- Color correction with N = 100	Color Correction

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THANKS VERY MUCH FOR YOUR HUGE EFFORTS

☺GOOD LUCK isA☺