Project 2: Image Effects Mascot Concept

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Grayscale

```
i = imread('tiger.png');
g = rgb2gray(i);
imshow(g); title('original');
```
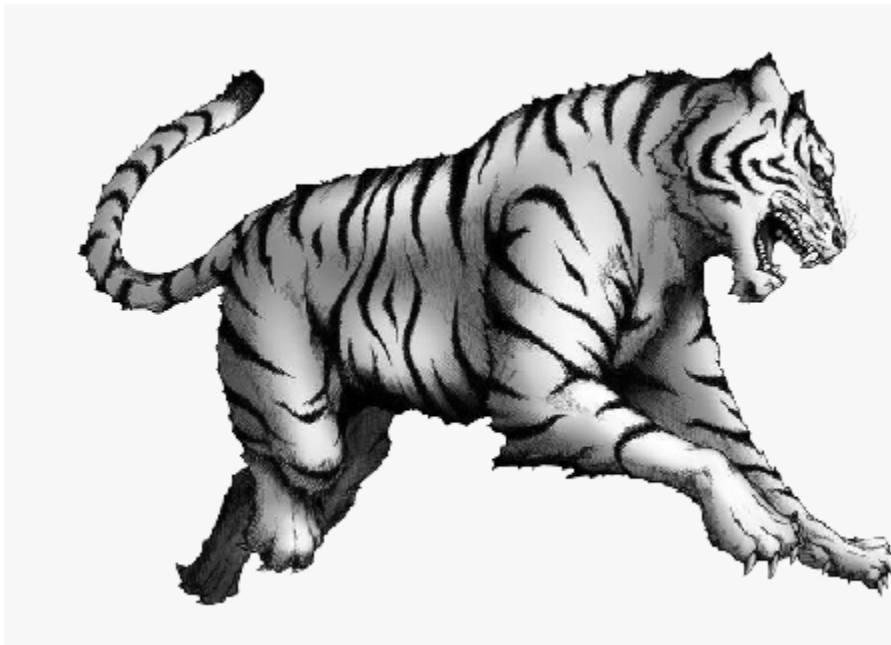
Rotation

```
rot = imrotate(g,90,'bicubic');
imshow(rot)
```
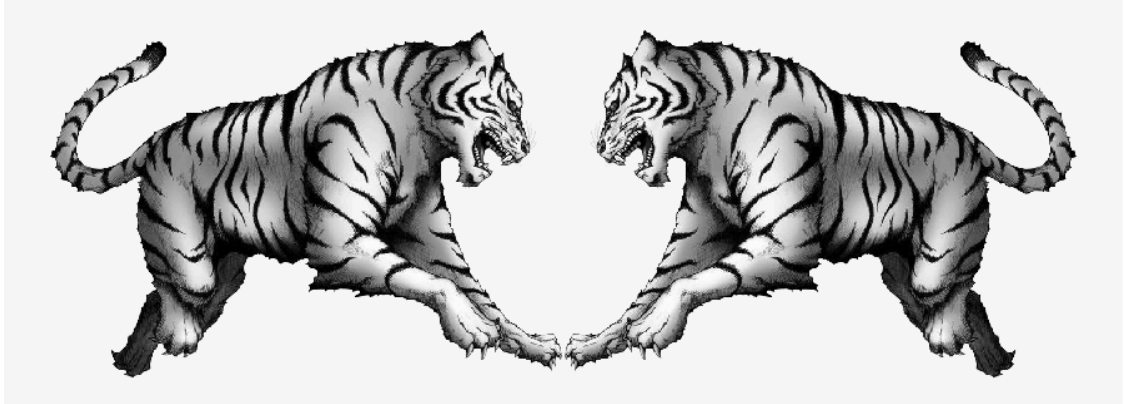
Crop Image

```
%[J, rect] = imcrop(rot);
imshow(J)
```


Mirror Image
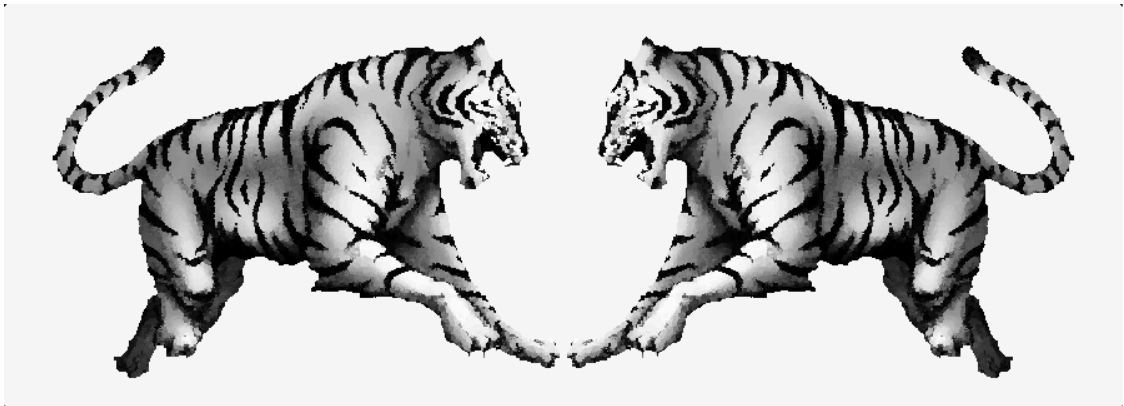
```
flipim = (fliplr(J));
newImg = imfuse(J,flipim,'montage');
```

```
imshow(newImg)
```


Oil Painting filter

```
op = colfilt(newImg,[7,7],'sliding',@mode);
imshow(op)
```


Pseudocoloring

```
g = 53/360;
cm = [ 0 0 0;0 0 0;g 0 0;0 0 0;0 0 0;
       g 1 0.4 ;g 1 0.4 ;g 1 0.4 ;g 1 0.4 ;g 1 0.4 ;
       g 1 0.4 ;g 1 0.4 ;g 1 0.4 ;g 1 0.4 ;g 1 0.4 ;
       g 1 0.4 ;g 1 0.45 ; g 1 0.5 ;g 1 0.55 ;g 1 0.6 ;
       g 1 0.65 ;g 1 0.7 ;g 1 0.75 ;g 1 0.8 ;g 1 0.85 ;
       g 1 0.9 ;g 1 0.95 ;g 0.7 0.95 ;g 0.95 1 ; g 0.5 1 ;
       0.13 0.3 .95 ;  g 0.4 1  ];
[n s] = size(cm);
t = n;
cmap = hsv2rgb(cm);
[c,m] = gray2ind(op,t);
imshow(c,cmap); title('Final Image');
imwrite(c,cmap,'goldtiger.png');
```

```
%imtool(i);
```

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