

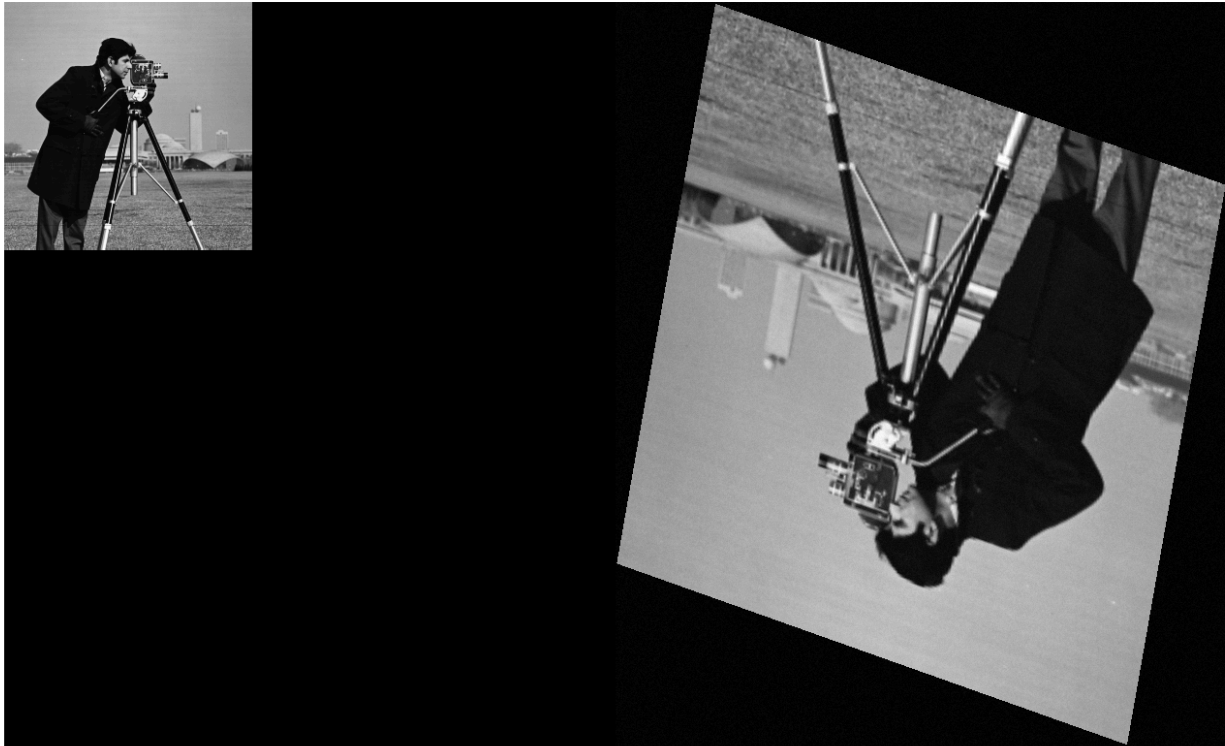
```
fixed = imread('cameraman.tif','tif');  
imshow(fixed);
```



```
theta = 170;  
rot = [cosd(theta) sind(theta) 0;...  
       sind(theta) cosd(theta) 0;...  
       0 0 1];  
sc = 2.3;  
scale = [sc 0 0; 0 sc 0; 0 0 1];  
sh = 0.5;  
shear = [1 sh 0; 0 1 0; 0 0 1];  
  
tform = affine2d(shear*scale*rot);  
moving = imwarp(fixed,tform);  
moving = moving + uint8(10*rand(size(moving)));  
imshow(moving)
```



```
estimate = imregcorr(moving, fixed);  
rfixed = imref2d(size(fixed));  
movingReg = imwarp(moving, estimate, 'OutputView', rfixed);  
imshowpair(fixed, moving, 'montage')
```



```
imshowpair(fixed,movingReg);
```



```
[optimizer, metric] = imregconfig('monomodal');
movingRegistered = imregister(moving, fixed,...
    'affine', optimizer, metric, 'InitialTransformation', estimate);
imshowpair(fixed, movingRegistered, 'Scaling', 'joint');
```

