

```

function out = Transform(img_src,img_target,target_x,target_y)

src_height = size(img_src,1);

src_width = size(img_src,2);

src_x = [1 1 src_width src_width]';

src_y = [1 src_height src_height 1]';


target_height = size(img_target,1);

target_width = size(img_target,2);


out=img_target;


tform = fitgeotrans([src_x src_y],[target_x target_y],'projective');

ImageRegistered = imwarp(img_src,tform,'OutputView',imref2d(size(out)));


mask = sum(ImageRegistered,3)~=0;

index = find(mask);

out(index) = ImageRegistered(index);

out(index+target_height*target_width) =
ImageRegistered(index+target_height*target_width);

out(index+2*target_height*target_width) =
ImageRegistered(index+2*target_height*target_width);

end

```

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