

```
I = imread('cat.jpeg');  
gray_image = rgb2gray(I);  
  
% Resize the image to create quantization effect  
resized_image = imresize(gray_image, [256, 256]);  
  
% Quantize to 32 levels  
quantized_image = uint8(floor(double(resized_image)/8) * 8);  
  
imshow(quantized_image);
```

