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import tensorflow as tf
from tensorflow.keras.preprocessing.image import ImageDataGenerator
from tensorflow.keras.preprocessing.image import load_img, img_to_array

# Create an image data generator with augmentations
datagen = ImageDataGenerator(
    rotation_range=40,
    height_shift_range=0.4,
    shear_range=0.4,
    zoom_range=0.4,
    horizontal_flip=True,
    rescale=None,
    fill_mode='reflect'
)

# Load image from path
img = load_img("/content/horse.jpg")
```

```
img
```





```
import os

# Convert to numpy array
x = img_to_array(img)
x = x.reshape((1,) + x.shape) # Reshape to (1, height, width, channels)

# Define the directory for saving augmented images
save_directory = '/content/augmented_images'

# Create the directory if it doesn't exist
os.makedirs(save_directory, exist_ok=True)

# Generate augmented images and save
i = 0
for batch in datagen.flow(x, batch_size=1,
    save_to_dir=save_directory,
    save_prefix='horse', save_format='jpeg'):
    i += 1
    if i > 18:
        break # Prevent infinite loop
```

