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import torch
import torchvision.transforms as transforms
from PIL import Image
import requests
from io import BytesIO
import matplotlib.pyplot as plt

# 函數從網址加載圖片
def load_image(url):
    response = requests.get(url)
    return Image.open(BytesIO(response.content))

# 定義變換
transforms_dict = {
    "Original Image": None,
    "Resized": transforms.Resize((1920, 1080)),
    "Center Cropped": transforms.CenterCrop(265),
    "Color Jittered": transforms.ColorJitter(brightness=1, contrast=1, saturation=0.3),
    "Horizontally Flipped": transforms.RandomHorizontalFlip(p=0.5),
    "Randomly Rotated": transforms.RandomRotation(160)
}

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# 加載圖片
img_url = 'https://www.e-muse.com.tw/wp-content/uploads/2023/09/%E8%91%AC%E9%80%81%E7%9A%84%E8%8A%99%E8%8E%89%E8%93%AE%E7%B9%81%E7%9B%B4.jpg'
img = load_image(img_url)

# 準備繪圖
fig, ax = plt.subplots(1, 6, figsize=(15, 5)) # 1 row, 6 column

# 繪製和顯示變換後的圖像
for i, (title, transform) in enumerate(transforms_dict.items()):
    transformed_img = img
    if transform:
        transformed_img = transform(transformed_img)
    ax[i].imshow(transformed_img)
    ax[i].set_title(title)
    ax[i].axis('off')

plt.tight_layout()
plt.show()

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