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import cv2
import numpy as np
from urllib.request import urlopen
from matplotlib import pyplot as plt

def read_image_from_url(url):
    """Reads an image from a URL and returns it as a BGR numpy array."""
    response = urlopen(url)
    image = np.asarray(bytearray(response.read()), dtype="uint8")
    image = cv2.imdecode(image, cv2.IMREAD_COLOR)
    return image

# Example image URL
url = 'https://pic.pimg.tw/fir790409/1428256192-4232067687_1.jpg' # 替換為你想要的圖片URL

# Read the image from the URL
image_color = read_image_from_url(url)

# Height, Width, and Three Channels
print('Image Size', image_color.shape)

# Splitting the BGR image into its components
b, g, r = cv2.split(image_color)

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# Merging the components into an RGB image
color_image = cv2.merge([r, g, b])

# Setting up the matplotlib plot
fig, axs = plt.subplots(nrows=1, ncols=5, figsize=(12, 4))

def f_imshow(ax, mat, title):
    ax.imshow(mat, cmap='winter')
    ax.set_title(title)
    ax.axis('off')

# Display each channel and the combined image
f_imshow(axs[0], color_image, 'All Channels(RGB)')
f_imshow(axs[4], image_color, 'Original Channels(BGR)')
f_imshow(axs[1], r, 'Red Channel')
f_imshow(axs[2], g, 'Green Channel')
f_imshow(axs[3], b, 'Blue Channel')

# Adjust the layout of the subplots
plt.tight_layout(w_pad=0.5)
plt.show()

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Image Size (683, 1024, 3)

