

# splitmerge

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[ ]: import cv2 as cv
import numpy as np

[ ]: img = cv.imread('Images/cat.jpg')
cv.imshow('Cat', img)

[ ]: blank = np.zeros(img.shape[:2], dtype='uint8')

[ ]: b, g, r = cv.split(img)

[ ]: blue = cv.merge([b, blank, blank])
green = cv.merge([blank, g, blank])
red = cv.merge([blank, blank, r])

[ ]: cv.imshow('Blue', blue)
cv.imshow('Green', green)
cv.imshow('Red', red)

[ ]: merged = cv.merge([b, g, r])
cv.imshow('Merged', merged)

[ ]: cv.waitKey(0)
```