```
import numpy as np
from matplotlib import pyplot as plt
from skimage import data, img as float, color, exposure
from skimage.restoration import unwrap phase
phaseimg = np.load('/content/measured phase map 20MHz.npy')
unwrapped = np.unwrap(phaseimg, discont=2*np.pi, axis=0)
plt.imshow(unwrapped)
plt.colorbar()
plt.savefig('depthestimate.png')
import numpy as np
import cv2 as cv
from matplotlib import pyplot as plt
groundTruth = np.load('/content/ground truth depth.npy')
plt.imshow(groundTruth)
plt.colorbar()
plt.savefig('depth.png')
import numpy as np
import cv2 as cv
from matplotlib import pyplot as plt
# Loading exposure images into a list
img fn = ["/content/one over eight.png", "/content/one over four.png", "/c
img list = [cv.imread(fn) for fn in img fn]
# Exposure fusion using Mertens
merge mertens = cv.createMergeMertens()
res mertens = merge mertens.process(img list)
# Convert datatype to 8-bit and save
res mertens 8bit = np.clip(res mertens*255, 0, 255).astype('uint8')
cv.imwrite("fusion 1d.jpg", res mertens 8bit)
    True
import numpy as np
import cv2 as cv
from matplotlib import pyplot as plt
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