

multiple people pose

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[1]: import cv2
import time
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline
```

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[2]: MODE = "MPI"

if MODE is "COCO":
    protoFile = "pose/coco/pose_deploy_linevec.prototxt"
    weightsFile = "pose/coco/pose_iter_440000.caffemodel"
    nPoints = 18
    POSE_PAIRS = [
        [1,0],[1,2],[1,5],[2,3],[3,4],[5,6],[6,7],[1,8],[8,9],[9,10],[1,11],[11,12],[12,13],[0,14],
        [2,1],[5,3],[5,4],[6,2],[6,7],[8,1],[8,9],[9,10],[1,11],[11,12],[12,13],[0,14],
        [1,11],[2,12],[3,13],[4,14],[5,12],[6,13],[7,14],[8,11],[9,12],[10,13],[11,12],[12,13],[13,14]
    ]

elif MODE is "MPI" :
    protoFile = "pose/mpi/pose_deploy_linevec_faster_4_stages.prototxt"
    weightsFile = "pose/mpi/pose_iter_160000.caffemodel"
    nPoints = 15
    POSE_PAIRS = [[0,1], [1,2], [2,3], [3,4], [1,5], [5,6], [6,7], [1,14], [14,8], [8,9], [9,10], [14,11], [11,12], [12,13]]
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[3]: image1 = cv2.imread("input/body.jpg")
frameWidth = image1.shape[1]
frameHeight = image1.shape[0]
threshold = 0.1
```

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[4]: net = cv2.dnn.readNetFromCaffe(protoFile, weightsFile)

inWidth = 368
inHeight = 368
inpBlob = cv2.dnn.blobFromImage(image1, 1.0 / 255, (inWidth, inHeight),
                                 (0, 0, 0), swapRB=False, crop=False)

net.setInput(inpBlob)
output = net.forward()
H = output.shape[2]
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W = output.shape[3]
print(output.shape)
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(1, 44, 46, 46)
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[5]: for i in range(0,43):
    probMap = output[0, i, :, :]
    probMap = cv2.resize(probMap, (image1.shape[1], image1.shape[0]))
    plt.figure(figsize=[14,10])
    plt.imshow(cv2.cvtColor(image1, cv2.COLOR_BGR2RGB))
    plt.imshow(probMap, alpha=0.6)
    plt.colorbar()
    plt.axis("off")
```

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/home/vikrant/.virtualenvs/dl4cv/lib/python3.6/site-
packages/matplotlib/pyplot.py:528: RuntimeWarning: More than 20 figures have
been opened. Figures created through the pyplot interface
(`matplotlib.pyplot.figure`) are retained until explicitly closed and may
consume too much memory. (To control this warning, see the rcParam
`figure.max_open_warning`).
max_open_warning, RuntimeWarning)
```





















































































