## MLFW Files to PyTorch Ready Data

The WWMR data has been filtered down to square images of faces of the target shape already.

## Imports and info

```
In [1]: import numpy as np
    from PIL import Image
    import matplotlib.pyplot as plt
    import os

In [2]: # text document containing list of image files with masks
    masks_list_fp = r'D:\data\face_mask\MLFW\mask_list.txt'
    img_dir = r'D:\data\face_mask\MLFW\MLFW\maligned'
```

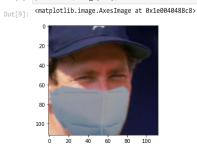
## Load images as np arrays

First, we need to read the names of the images that have masks.

```
In [3]: masks_file = open(masks_list_fp, 'r')
    masks_img_names = masks_file.readlines()
    # strip newtimes
    masks_img_names = file_name.strip() for file_name in masks_img_names]

In [4]: label_list = {|
    imp_list = {|
        for root, subdirectories, files in os.walk(img_dir):
        for fin files:
        # determine tabel
        if fin masks_img_names:
        label_list.append(0)
        # load image
        im fp = os path.join(img_dir, f)
        im = nage.open(im_fp)
        im = mage.open(im_fp)
        im [img_list.append(im_nrr)

In [5]: REFM_x = np.array(img_list)
        img_list = {
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        img_list = np.array(img_list)
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        img_list = np.array(img_list)
        img_list = np.array(img_list)
```



```
In [10]: out_x = r'D:\data\face_mask\MLFW\MLFW_Y'
out_y = r'D:\data\face_mask\MLFW\MLFW_Y'

np.save(out_x, MLFW_X)
np.save(out_y, MLFW_y)
```