# WWMR 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 [13]: import numpy as np
    from PIL import Image
    import matplotlib.pyplot as plt
    import os

In [14]: correct_dir = r'D:\data\face_mask\www.cropped MediaPipe\correct'
    incorrect_dir = r'D:\data\face_mask\www.cropped MediaPipe\incorrect'
```

## Load images as np arrays

#### Concat the correct and incorrect

```
In [20]: incorrect_X.shape
Out[20]: (420, 112, 112, 3)

In [21]: WMMR_X = np.concatenate((incorrect_X, correct_X))
WMMR_y = np.concatenate((incorrect_y, correct_y))

In [22]: WMMR_X.shape
Out[22]: (560, 112, 112, 3)

In [23]: WMMR_y.shape
Out[23]: (560,)
```

## Save the output

```
In [26]: out_x = r'D:\data\face_mask\www.x_for_model'
out_y = r'D:\data\face_mask\www.x_for_model'

np.save(out_x, www.x_)
np.save(out_y, www.x_y)
```

#### Resources

- loading an image
  - $\blacksquare \ \ \, \text{https://stackoverflow.com/questions/7762948/how-to-convert-an-rgb-image-to-numpy-array}$
- numpy docs
  - https://numpy.org/doc/stable/reference/generated/numpy.save.html