

FMD_old_test

August 11, 2022

1 FMD

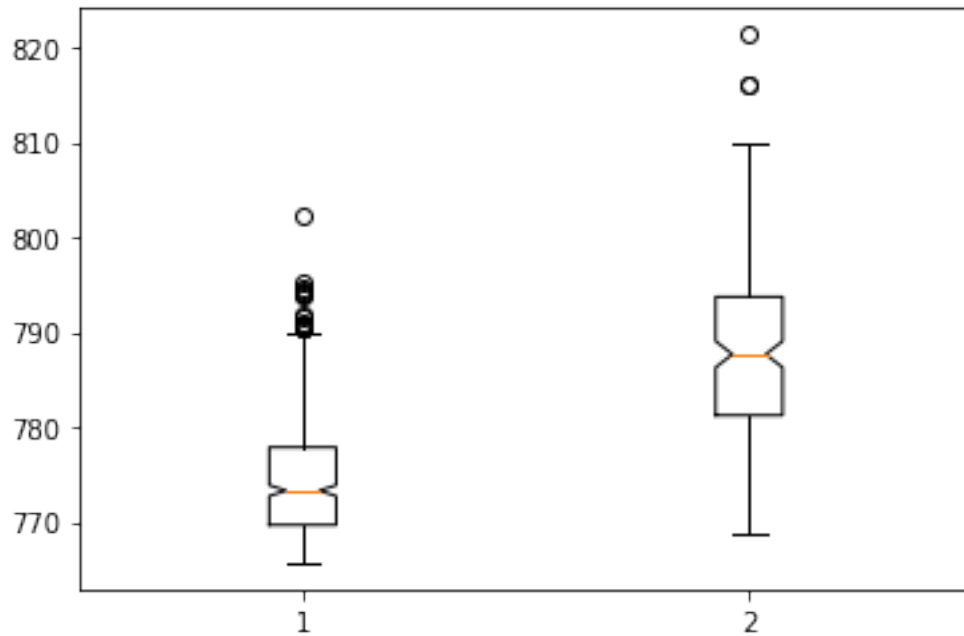
```
[ ]: from FMD_old import FMD as FMD_old  
  
fmd_old = FMD_old("/Volumes/My Passport_ssd_sg3/data_sets/cifar10/airplane")  
  
[ ]: fmd_old.fit()
```

2

```
[ ]: fmd_old.eval()
```

3 FMD

```
[ ]: # fmd_old.show_data_infos()  
  
[ ]: # fmd_old.show_FM_repres()  
  
[ ]: # fmd_old.show_AMs_and_related()  
  
[ ]: # fmd_old.show_dirs()  
  
[ ]: # fmd_old.show_layer_infos()  
  
[ ]: # fmd_old.show_eval_infos()  
  
[ ]: fmd_old.show_fmfs_box_plot()
```

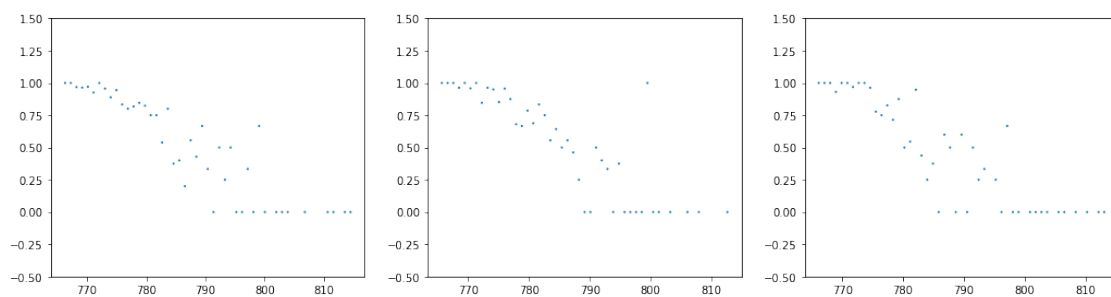


```
[ ]: fmd_old.show_fmdc()
```

```
self.fmdc
768.8214872879798
```

4 fmd-

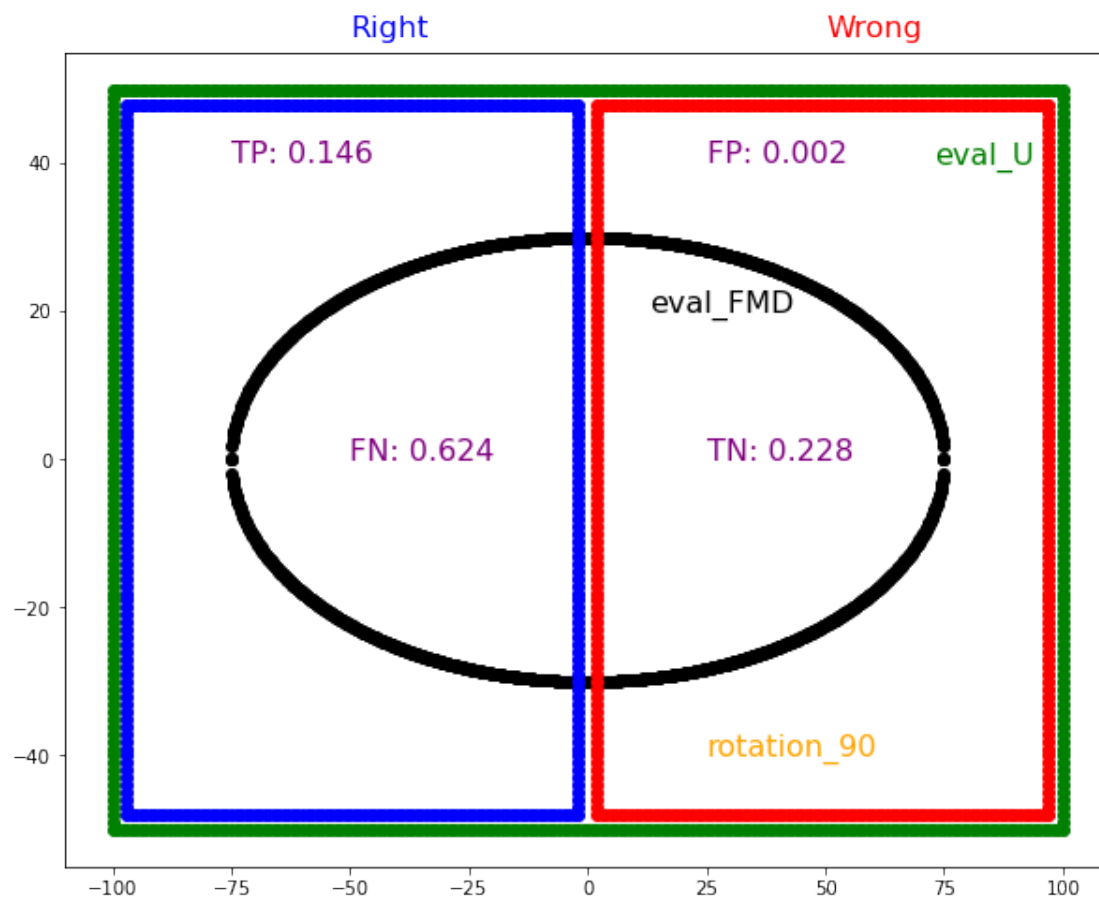
```
[ ]: fmd_old.show_fmd_right_ratio_graph()
```

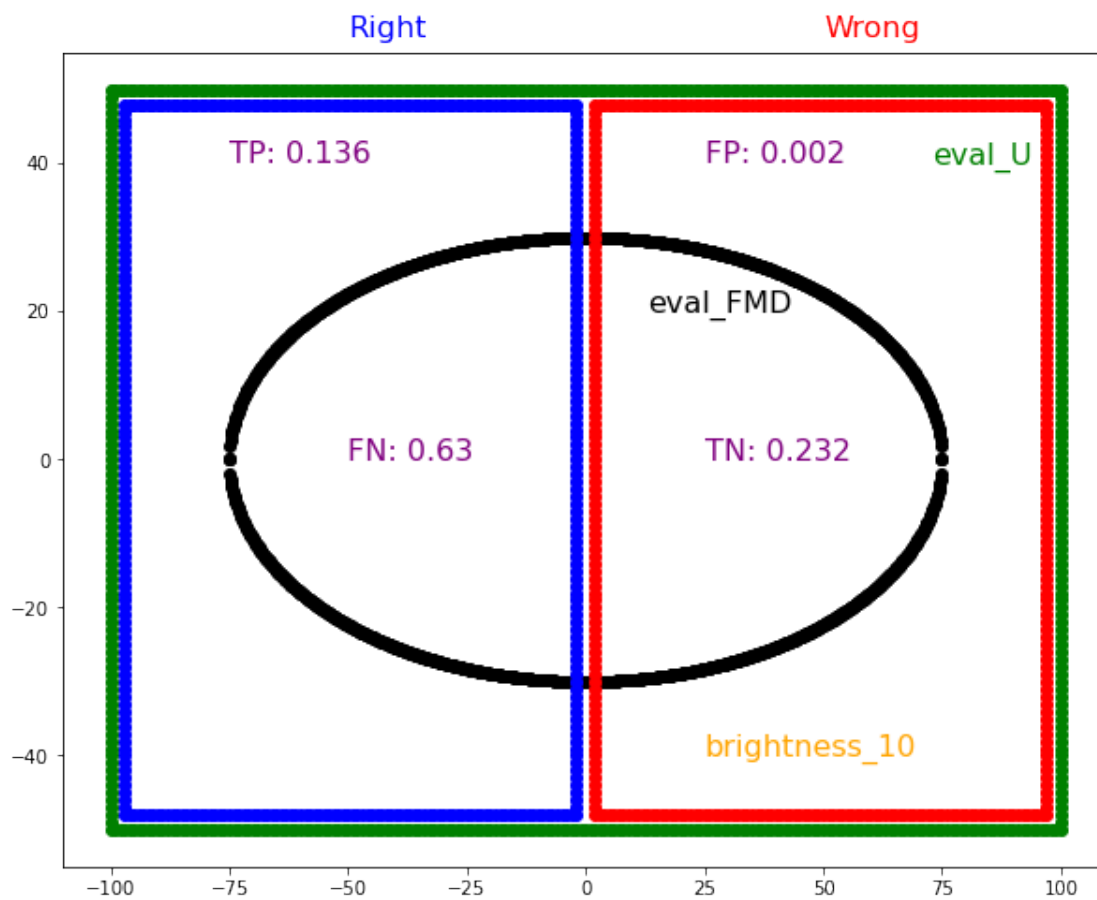


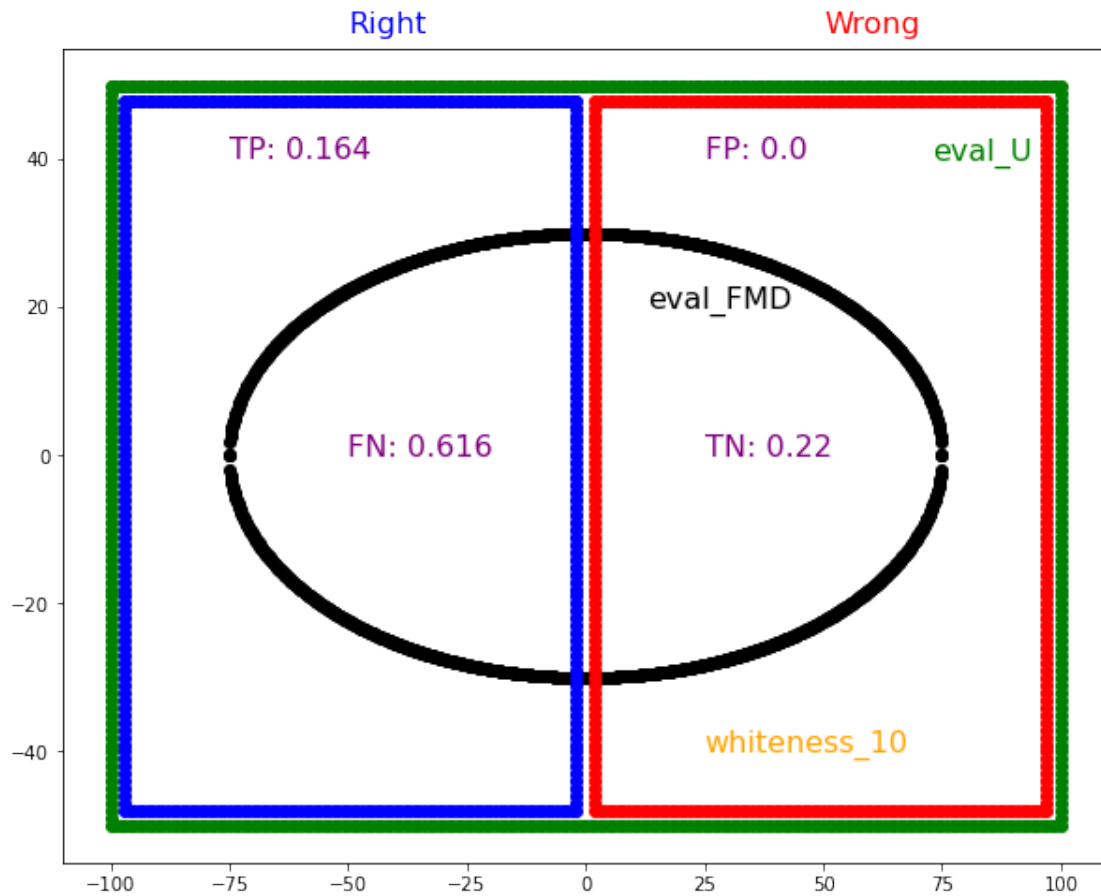
5

```
[ ]: fmd_old.set_CM_infos()
```

```
[ ]: fmd_old.show_eval_venn_diagrams()
```







```
[ ]: fmd_old.show_efficiency_and_FMD_ratio()
```

```
In rotation_90
[   U = WR_U(N)] = 0.23
[   FMD = WR_FMD(NPV)] = 0.26760563380281693

[   (TPR)] = 0.1896103896103896
[   (TNR)] = 0.9913043478260869
-----
[   ] = 1.1809147374364766

[FMD (|eval_FMD|/|eval_U|)] = 0.624
-----

In brightness_10
[   U = WR_U(N)] = 0.234
[   FMD = WR_FMD(NPV)] = 0.26914153132250584

[   (TPR)] = 0.17754569190600522
[   (TNR)] = 0.9914529914529915
```

```
-----  
[ ] = 1.1689986833589967
```

```
[FMD (|eval_FMD|/|eval_U|)] = 0.63  
-----
```

```
In whiteness_10
```

```
[ U = WR_U(N)] = 0.22
```

```
[ FMD = WR_FMD(NPV)] = 0.2631578947368421
```

```
[ (TPR)] = 0.21025641025641026
```

```
[ (TNR)] = 1.0  
-----
```

```
[ ] = 1.2102564102564102
```

```
[FMD (|eval_FMD|/|eval_U|)] = 0.616  
-----
```

```
[ ]: # show_all_mask = {'show_dirs': True,  
                        # 'show_data_infos': True,  
                        # 'show_hyper_parameter': True,  
                        # 'show_FM_repres': True,  
                        # 'show_AMs_and_related': True,  
                        # 'show_layer_infos': True,  
                        # 'show_fmfs_box_plot': True,  
                        # 'show_fmfc': True,  
                        # 'show_eval_infos': True,  
                        # 'show_fmd_right_ratio_graph': True,  
                        # 'show_eval_venn_diagrams': True,  
                        # 'show_efficiency_and_FMD_ratio': True,}  
# fmd_old.show_all(show_all_mask)
```