

cat

August 11, 2022

1 FMD

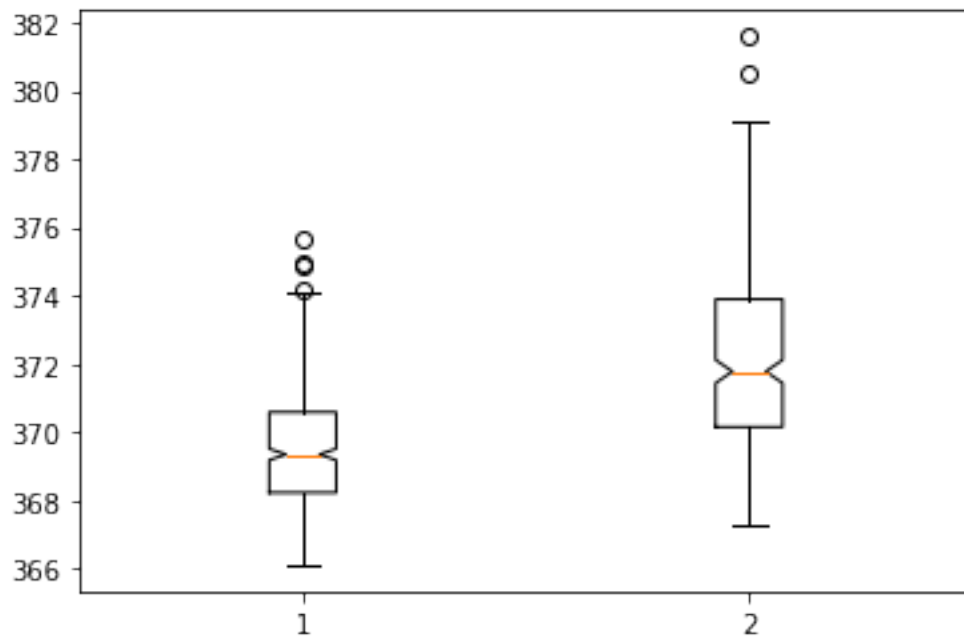
```
[ ]: from FMD_old import FMD as FMD_old  
  
fmd_old = FMD_old("/Volumes/My Passport_ssd_sg3/data_sets/cifar10/cat")  
  
[ ]: fmd_old.fit()
```

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()
```

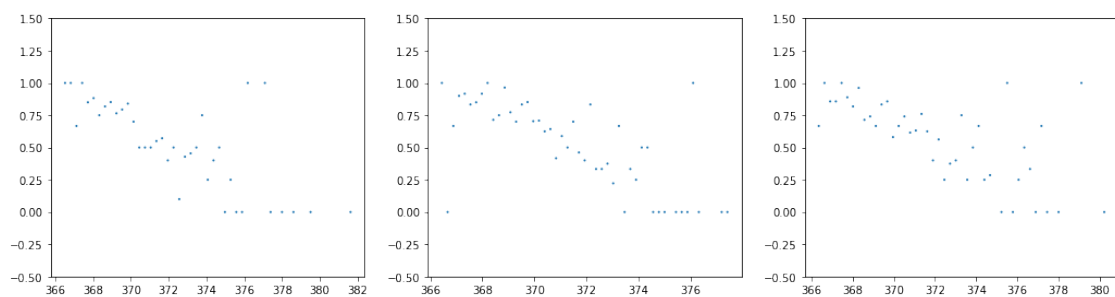


```
[ ]: fmd_old.show_fmdc()
```

```
self.fmdc
367.24864240594917
```

4 fmd-

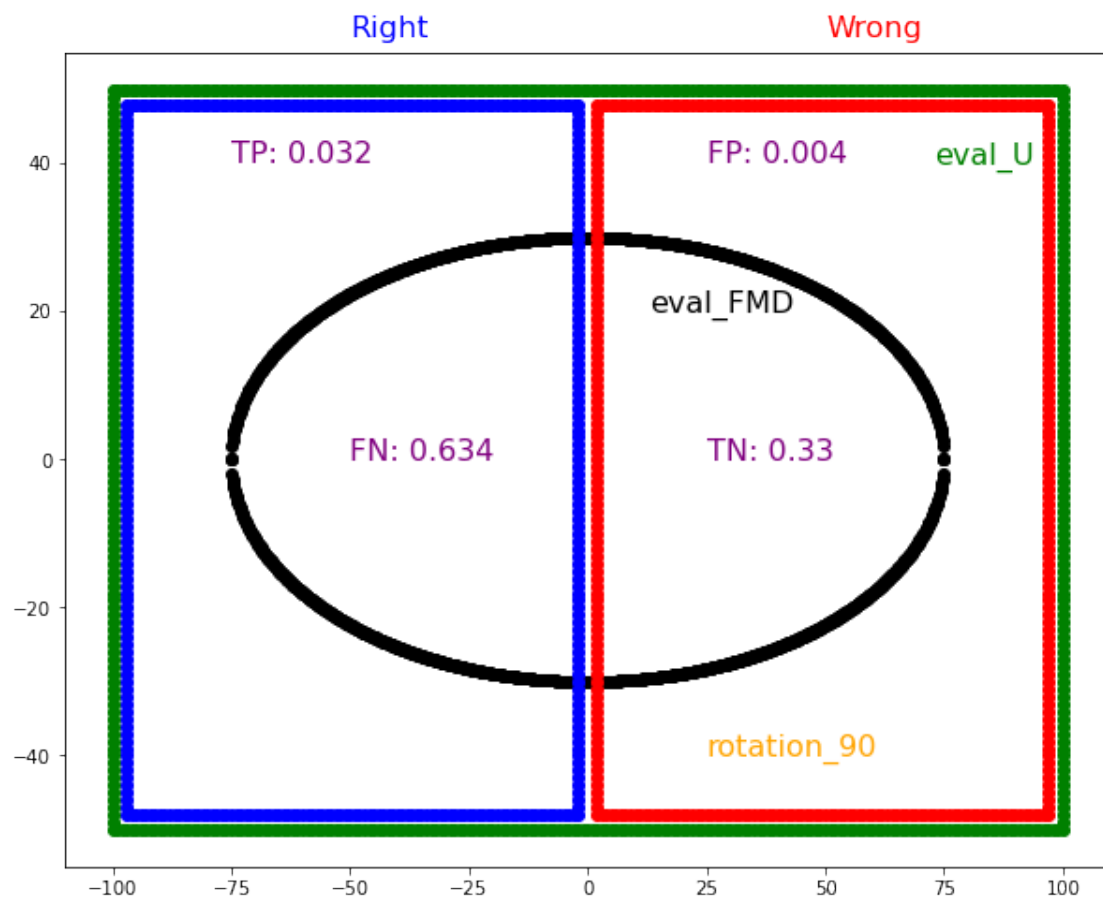
```
[ ]: fmd_old.show_fmd_right_ratio_graph()
```

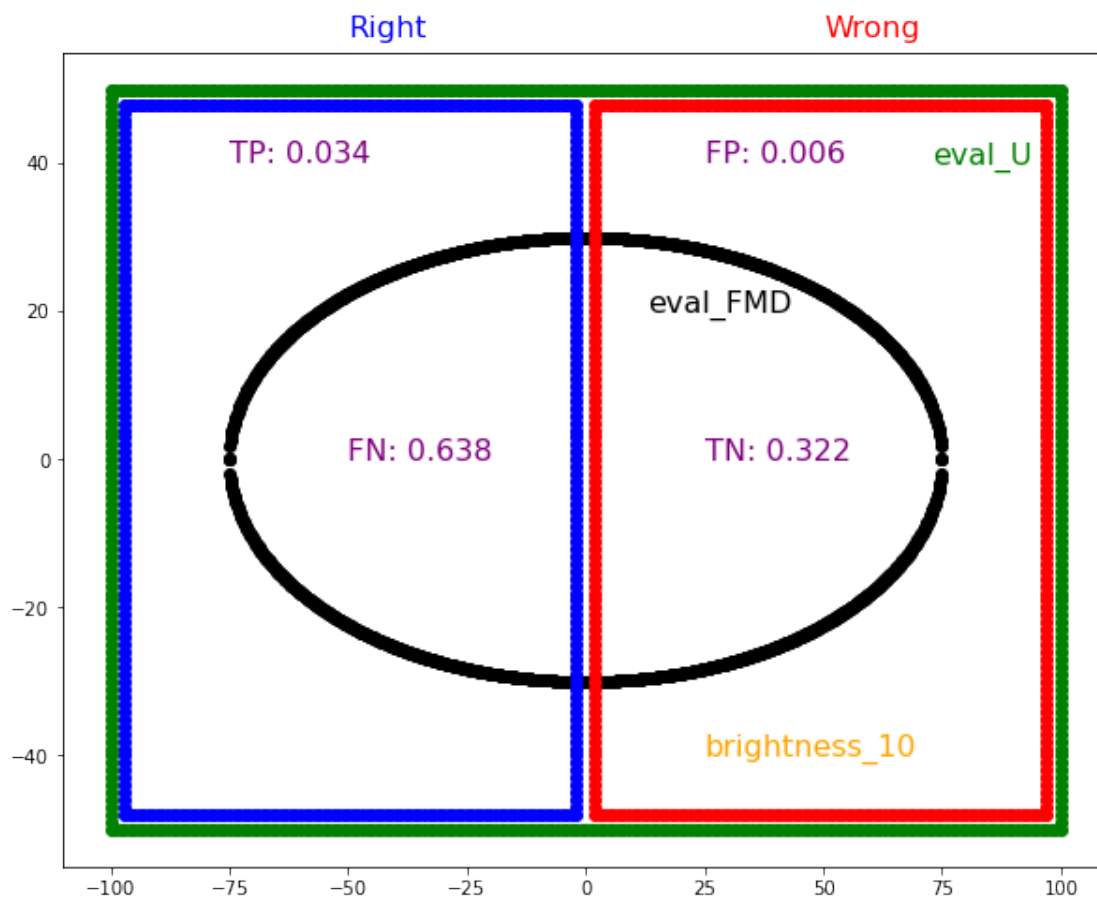


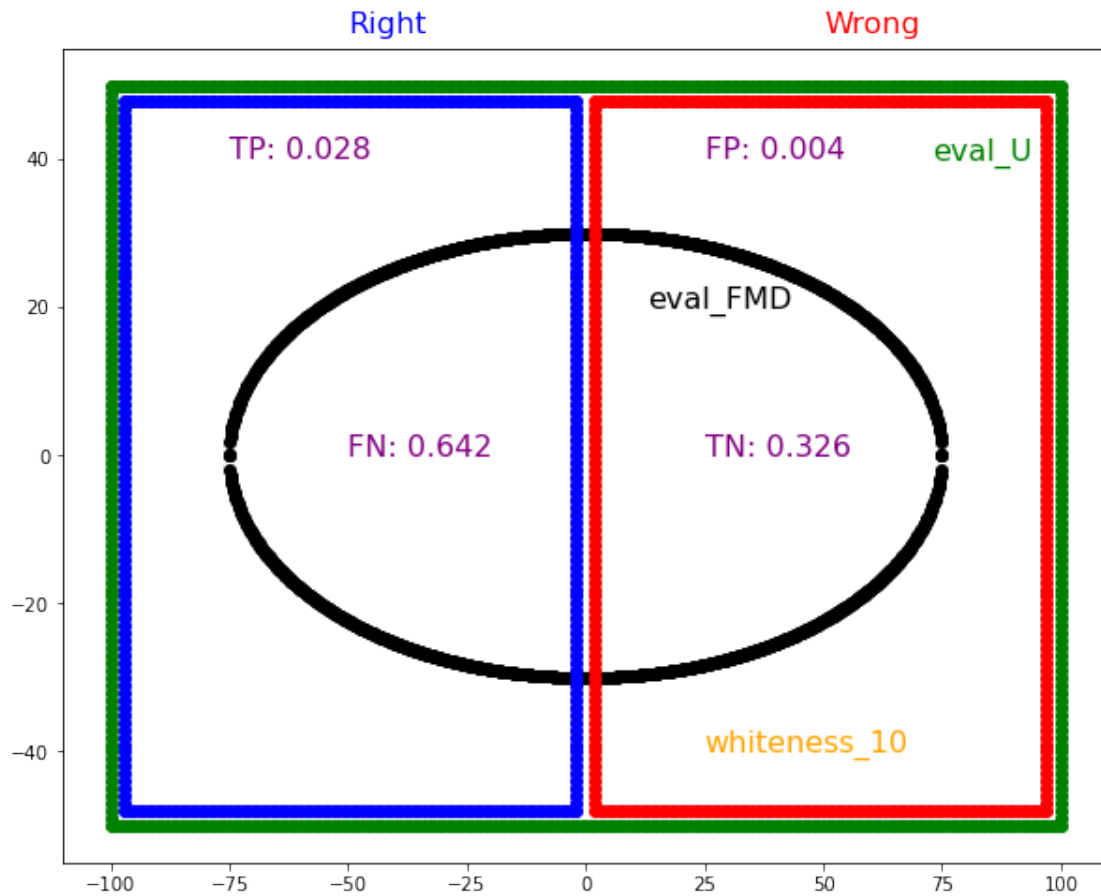
5

```
[ ]: 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)] = 0.334
[   FMD = WR_FMD(NPV)] = 0.34232365145228216

[   (TPR)] = 0.04804804804804805
[   (TNR)] = 0.9880239520958084
-----
[   ] = 1.0360720001438564

[FMD (|eval_FMD|/|eval_U|)] = 0.634
-----

In brightness_10
[   U = WR_U(N)] = 0.328
[   FMD = WR_FMD(NPV)] = 0.33541666666666667

[   (TPR)] = 0.050595238095238096
[   (TNR)] = 0.9817073170731707
```

```
-----  
[ ] = 1.0323025551684089
```

```
[FMD (|eval_FMD|/|eval_U|)] = 0.638  
-----
```

```
In whiteness_10
```

```
[ U = WR_U(N)] = 0.33
```

```
[ FMD = WR_FMD(NPV)] = 0.3367768595041323
```

```
[ (TPR)] = 0.041791044776119404
```

```
[ (TNR)] = 0.9878787878787879  
-----
```

```
[ ] = 1.0296698326549074
```

```
[FMD (|eval_FMD|/|eval_U|)] = 0.642  
-----
```

```
[ ]: # 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)
```