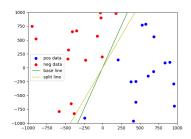
# HW2

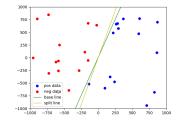
## **Execution description**

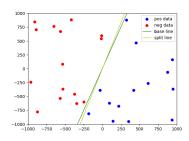
this code

## **Expermental results**

# 1. data\_30\_1 ~ data\_30\_3 iterations nums





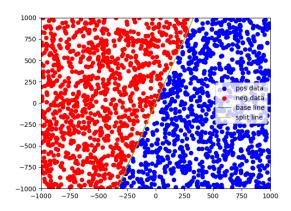


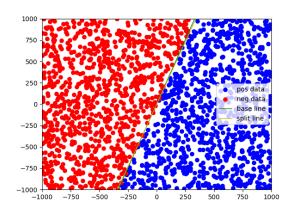
AVG iterations: 33

AVG iterations: 47

AVG iterations: 3

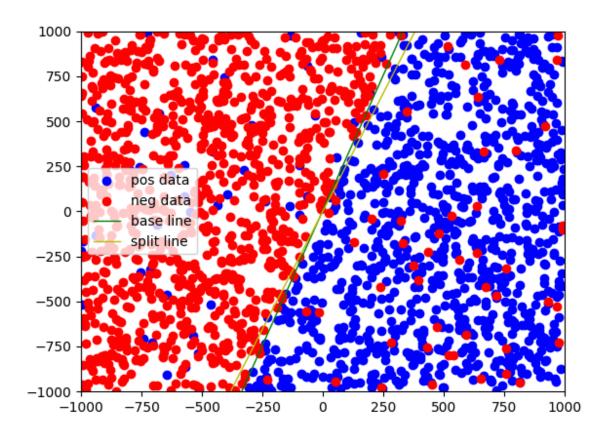
#### 2. PLA and Pocket execution times diff





PLA: 0.014215s Pocket: 0.2726s

### 3. Pocket Alogorithm data\_2000\_50wrong



error nums: 107,

accurancy = 1 - (107 / 2000) = 0.9465

## Conclusion

和理論一致, PLA 在線性可分割的資料集下必定能收斂, 且 Pocket 的 run time 會比 PLA 更久

## **Discussion**

貌似有時候 Pocket 會找到局部最小值而不會完全收斂, 這件事情要怎麼避免呢?

HW2 3