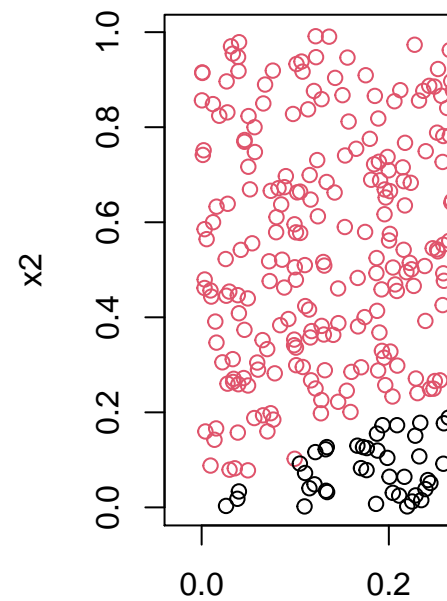


Lab 1 block2

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a.create 1000 training datasets of size 100, learn a random forest from each dataset, and compute the misclassification error in the same test dataset of size 1000. Report results for when the random forest has 1, 10 and 100 trees.



Random forest model can evaluated by using the data x1 and x2 ,where target $y=x1 < x2$

```
## telabels
## 0 1
## 529 471
```

```
## Mean of Miss classification using n_tree
## n_tree=1- 0.186376
## n_tree=10- 0.136079
## n_tree=100- 0.112806
```

```
## Variance of Miss classification using n_tree
## n_tree=1- 0.002220069
## n_tree=10- 0.0009500808
## n_tree=100- 0.0008645069
```