Importing Libraries

```
1 import numpy as np
2 import matplotlib.pyplot as plt
3 import matplotlib.gridspec as gridspec
4 import itertools
5 from sklearn.linear_model import LogisticRegression
6 from sklearn.svm import SVC
7 from sklearn.ensemble import RandomForestClassifier
8 from mlxtend.classifier import EnsembleVoteClassifier
9 from mlxtend.data import iris_data
10 from mlxtend.plotting import plot_decision_regions
11 %matplotlib inline
```

Initializing Classifiers

Loading iris data

```
1 # Loading iris data
 2 X, y = iris_data()
 3 X = X[:,[0, 2]]
 1 # Plotting Decision Regions
 3 gs = gridspec.GridSpec(2, 2)
 4 fig = plt.figure(figsize=(10, 8))
    <Figure size 720x576 with 0 Axes>
 1 #Ensemble
 3 labels = ['Logistic Regression',
 4
             'Random Forest',
 5
             'RBF kernel SVM',
             'Ensemble']
 6
 8 for clf, lab, grd in zip([clf1, clf2, clf3, eclf],
 9
                             labels,
                             itertools.product([0, 1],
10
```

/usr/local/lib/python3.6/dist-packages/mlxtend/plotting/decision_regions.py:244: Matrax.axis(xmin=xx.min(), xmax=xx.max(), y_min=yy.min(), y_max=yy.max())

