In [67]:
```
from sklearn.datasets import load_iris
from sklearn.model_selection import train_test_split
from sklearn.ensemble import AdaBoostClassifier

%matplotlib notebook
```

In [68]:
```
X, y = load_iris(return_X_y=True)
X = X[:,1:3]
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.5, random_state=16)
```

In [69]:
```
abc = AdaBoostClassifier(n_estimators=100, random_state=42)
abc.fit(X_train, y_train)
```

Out[69]:
```
AdaBoostClassifier(n_estimators=100, random_state=42)
```

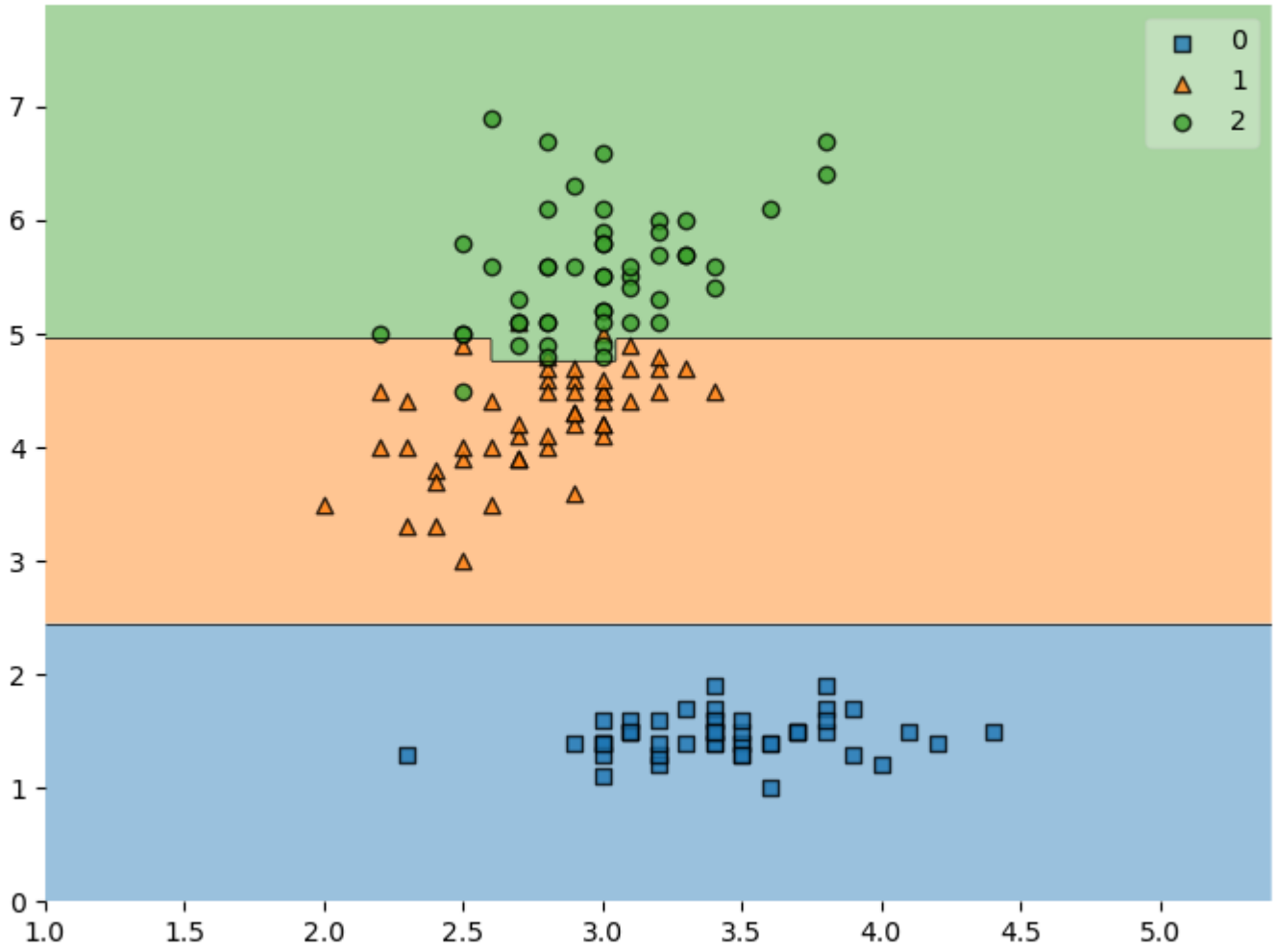
In [70]:
```
y_pred = abc.predict(X_test)
```

Out[70]:
```
array([1, 0, 1, 2, 1, 0, 1, 0, 0, 1, 1, 2, 2, 0, 2, 1, 0, 0, 1, 1, 0, 0,
       2, 2, 1, 1, 2, 2, 2, 0, 2, 2, 0, 1, 0, 1, 0, 1, 2, 0, 2, 2, 0, 1,
       1, 2, 2, 1, 0, 2, 1, 1, 1, 1, 1, 0, 0, 2, 1, 2, 0, 2, 0, 1, 1, 2,
       0, 2, 1, 0, 0, 1, 1, 1, 0])
```

In [72]:
```
print(f'Number of mislabelled points = {(y_test != y_pred).sum()}/{X_test.shape[0]}')
```

```
Number of mislabelled points = 4/75
```

In [73]:
```
from mlxtend.plotting import plot_decision_regions
plot_decision_regions(X, y, clf=abc)
```



Out[73]: <AxesSubplot:>

In [ ]: