

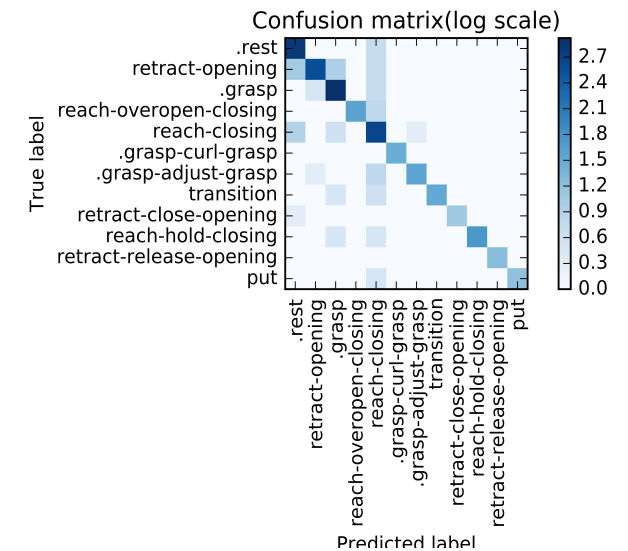
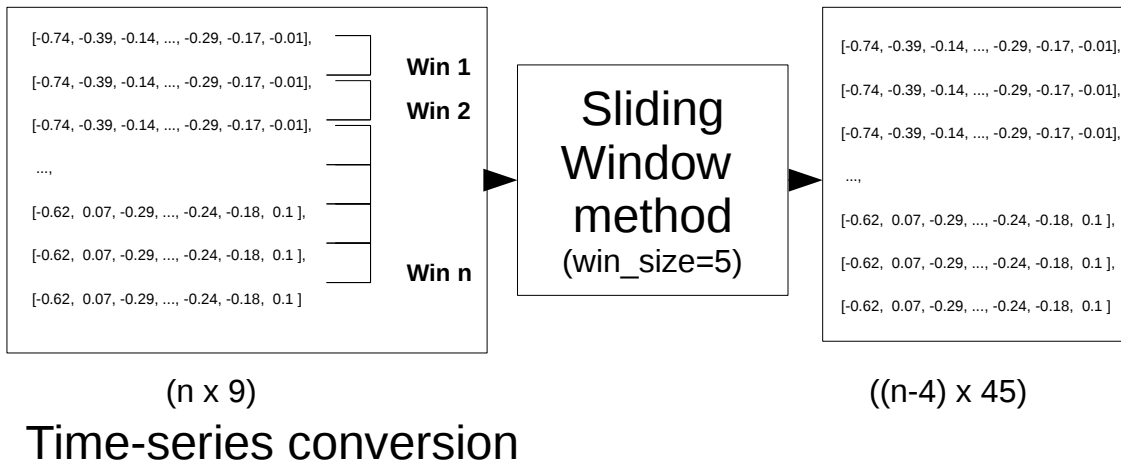
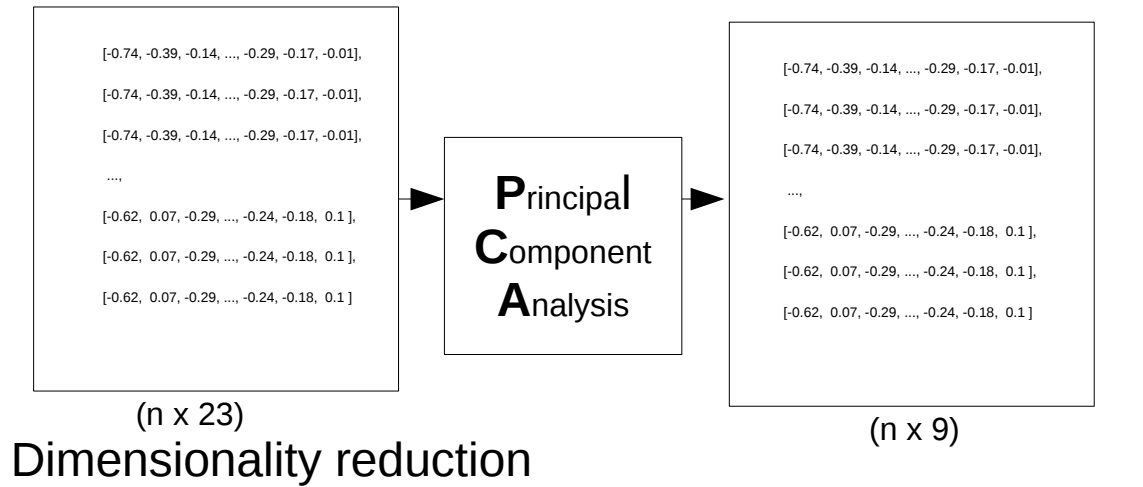
## Hand Motion Analysis.

This program finds the hand pose given joint angles of the hand.



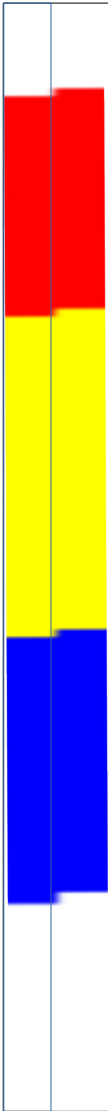
Legend (output - 12 grasp types)

# Hand motion analysis explained in detail



- **Python library:** sklearn.svm.SVC
- **Parameters:** kernel: RBF (degree 3)
- **Accuracy:** 98.09 % (with PCA) win\_size=5

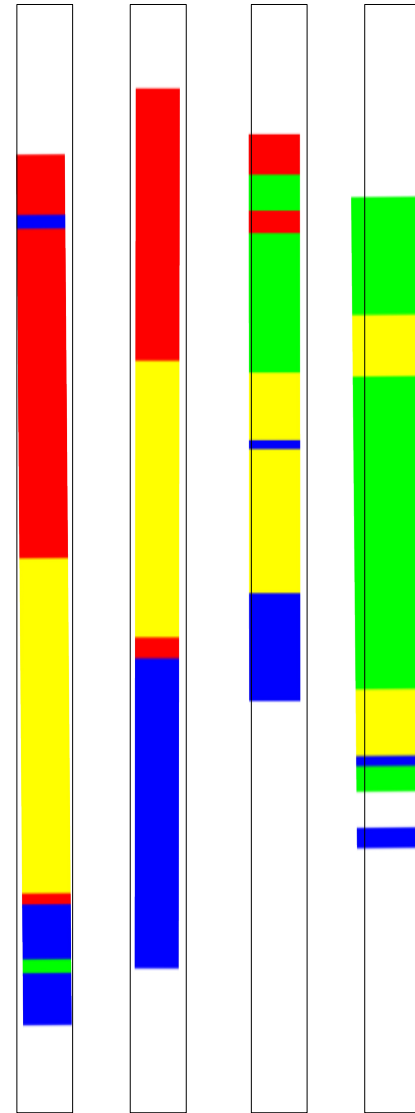
Classification using **S**upport  
**V**ector **M**achine



Testing on training data shows the wrongly classified data is usually when there is transition from one grasp type to another grasp type.

(1) (2)

(1) Testing on training data  
(2) Testing on left out data



Results on testing data show small patches of “misclassified” grasp types.

**Analysis of output**