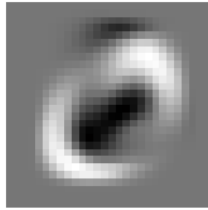
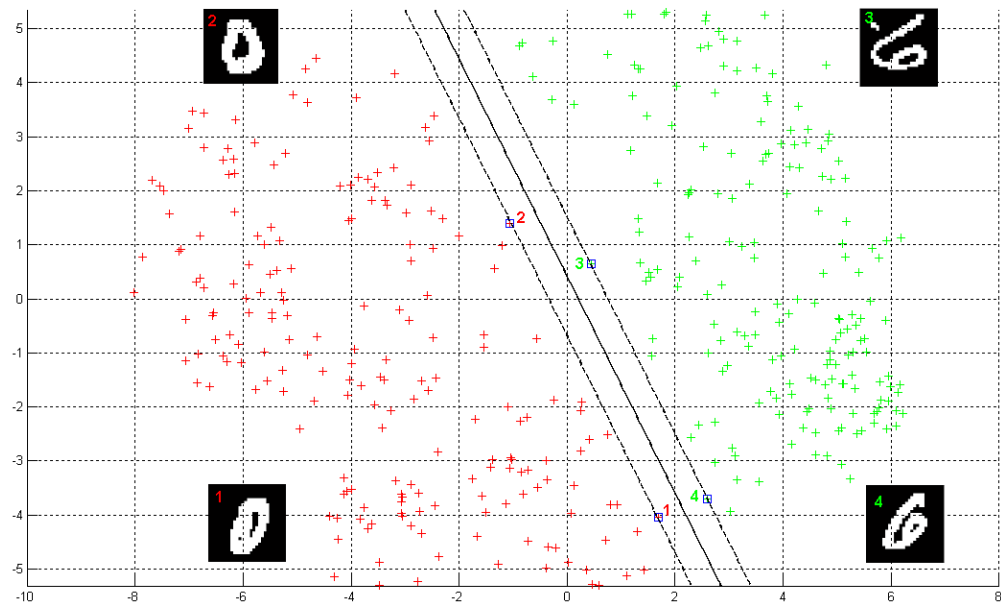


## PCA+LinSVM (separable)

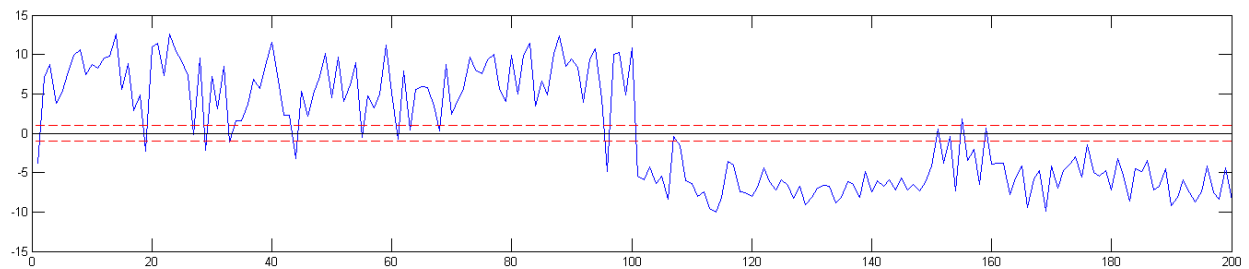
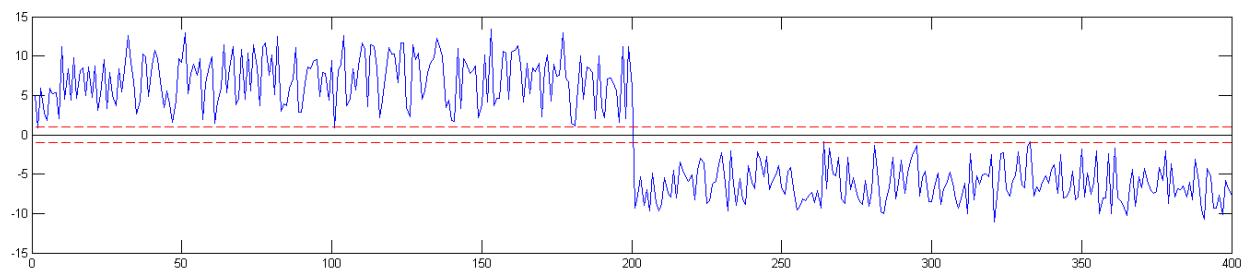
linear mapping



Support vectors



The coefficients for training and test images



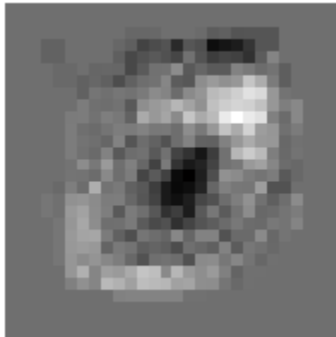
Classification accuracy:

Training data: digit '0' (200/200) digit '6' (200/200)

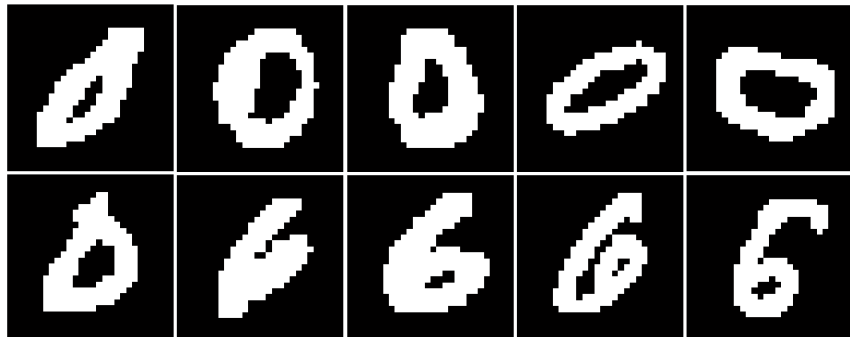
Test data: digit '0' (91/100) digit '6' (97/100)

## Linear SVM (separable)

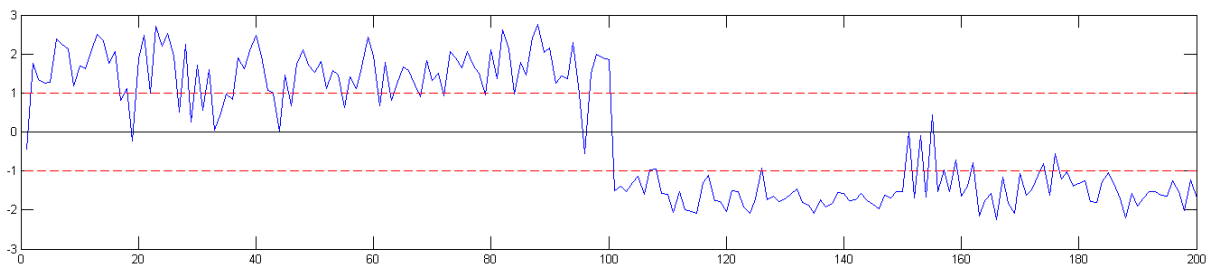
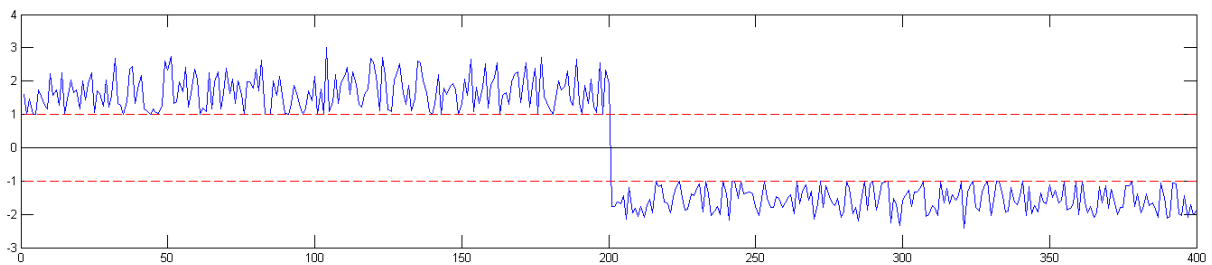
The linear mapping



Support Vectors



The coefficients for training and test images



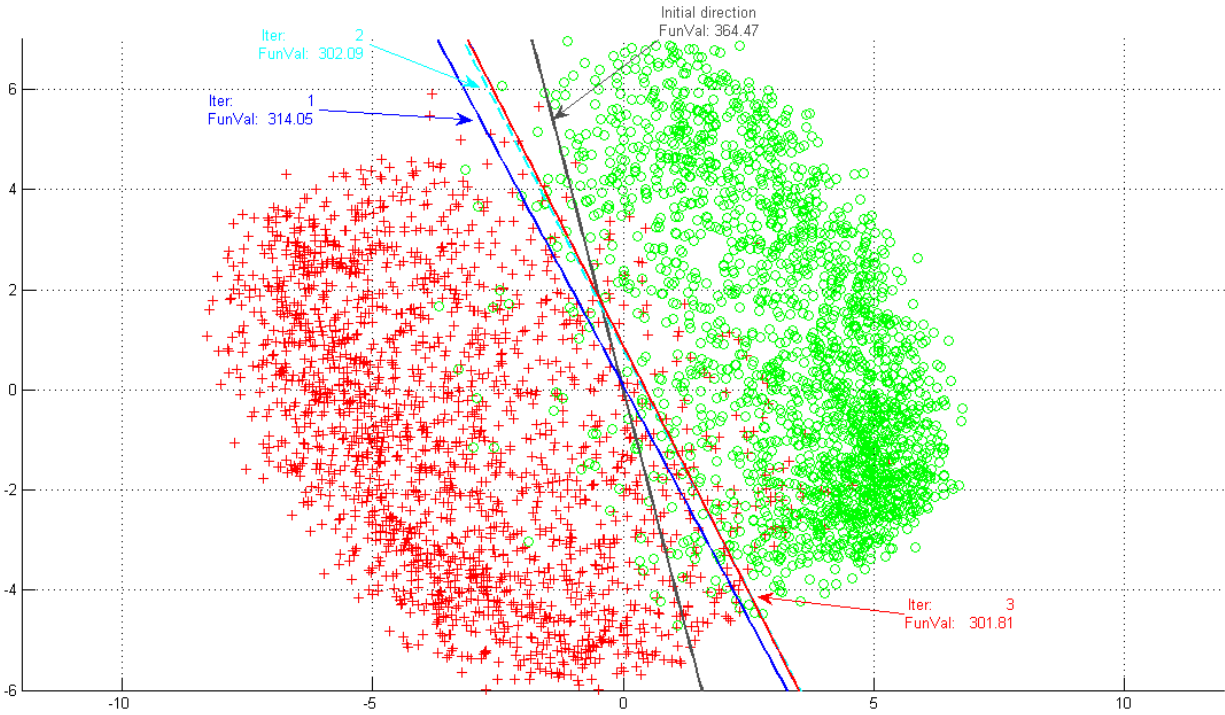
Classification accuracy:

Training data: digit '0' (200/200) digit '6' (200/200)

Test data: digit '0' (97/100) digit '6' (98/100)

## Linear SVM (non-separable)

Decision Boundary:



Support Vectors

