

# **Computer Vision**

## **Fall 2018**

### **Problem Set #6**

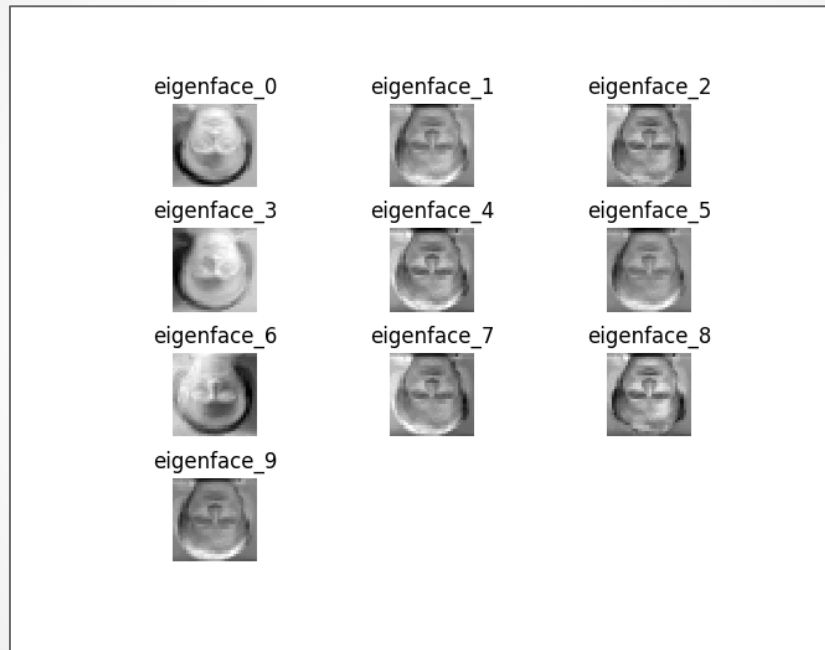
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# 1a: Average face



ps6-1-a-1.png

# 1b: Eigenvectors



ps6-1-b-1.png

## 2a: Average accuracy

(Random) Training accuracy: 50.63%

(Weak) Training accuracy 89.72%

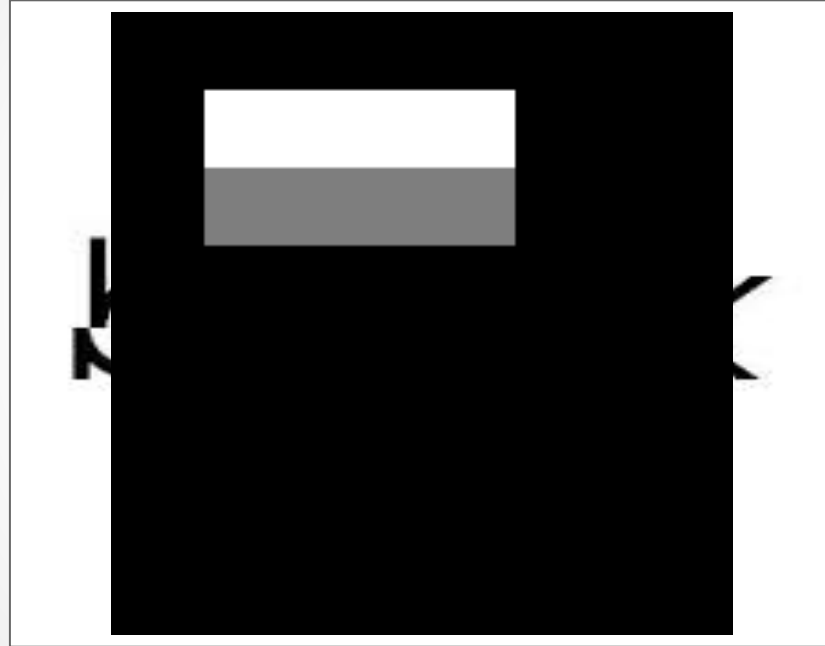
(Boosting) Training accuracy 96.49%

(Random) Testing accuracy: 48.75%

(Weak) Testing accuracy 85.75%

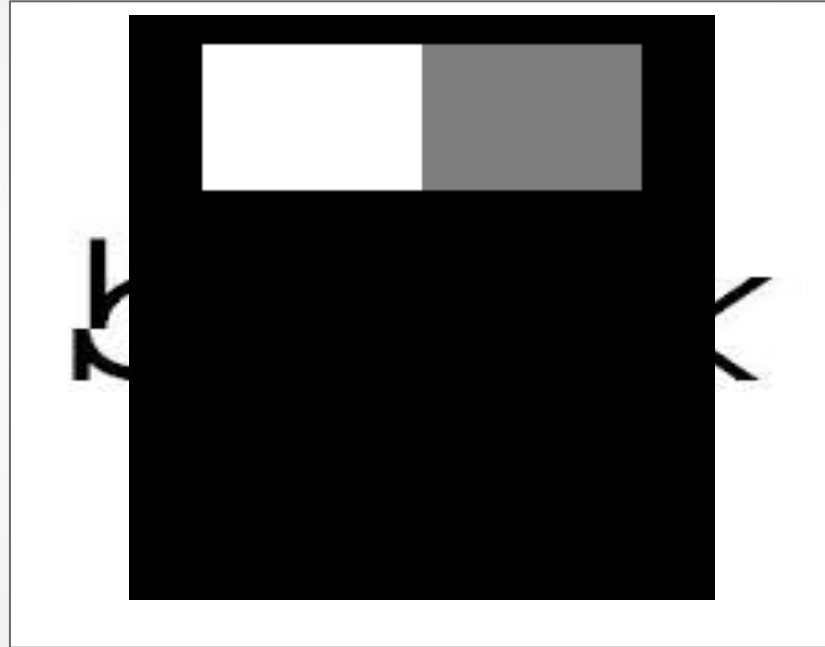
(Boosting) Testing accuracy 92.50%

# 3a: Haar Features



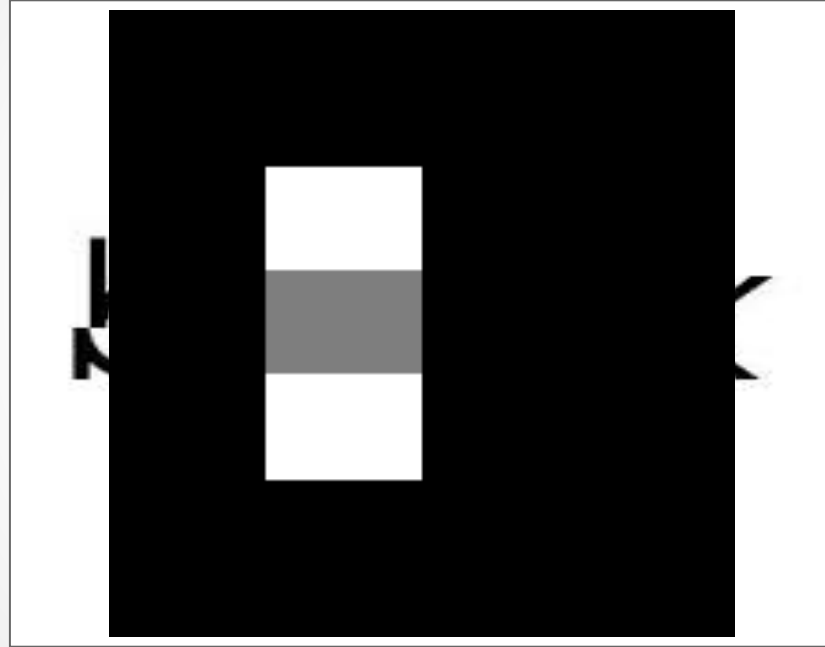
ps6-3-a-1.png

# 3a: Haar Features



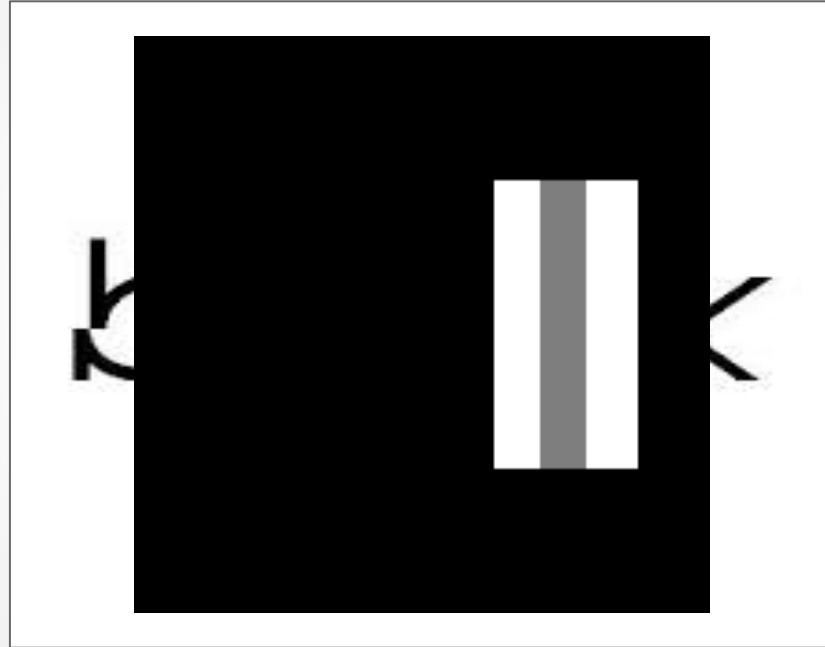
ps6-3-a-2.png

# 3a: Haar Features



ps6-3-a-3.png

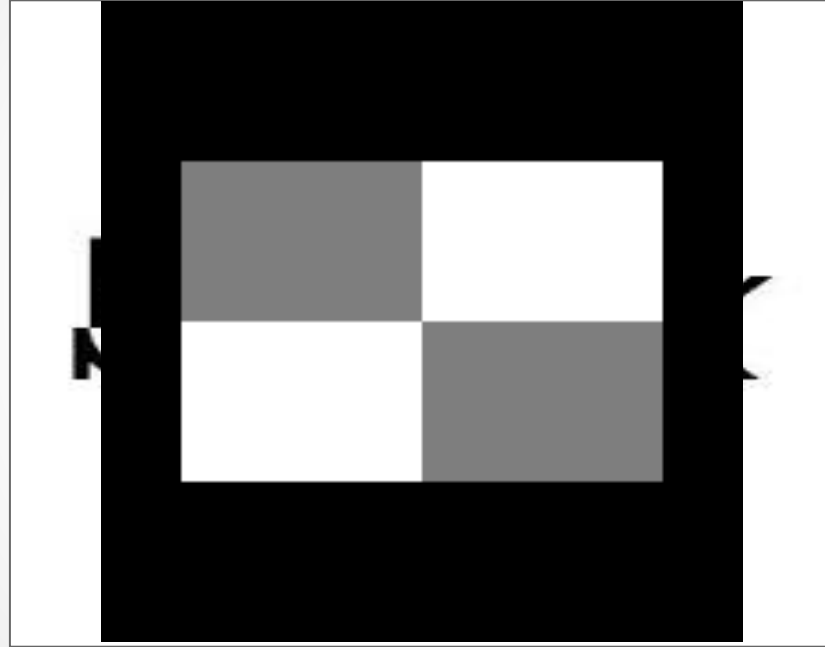
# 3a: Haar Features



ps6-3-a-4.png

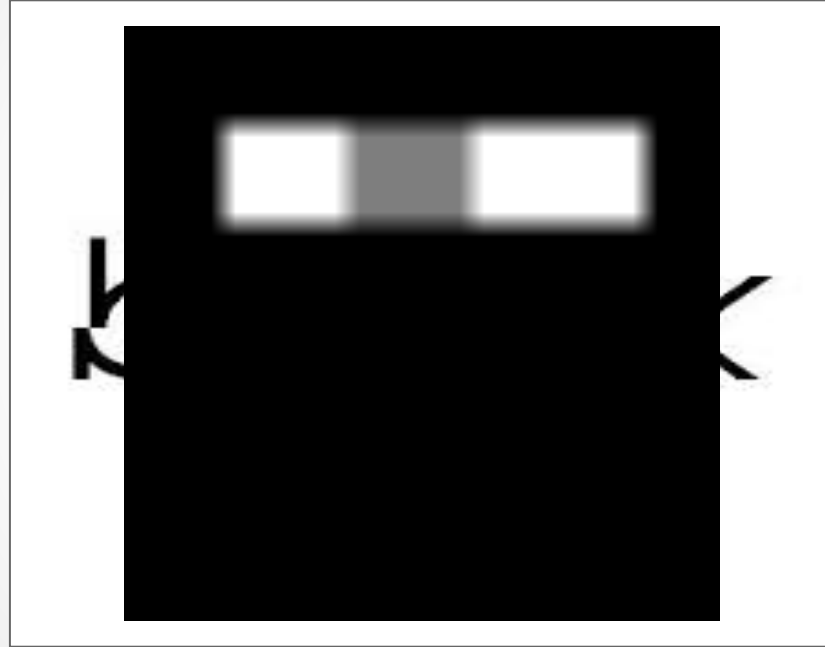


# 3a: Haar Features



ps6-3-a-5.png

## 4b: Viola Jones Features



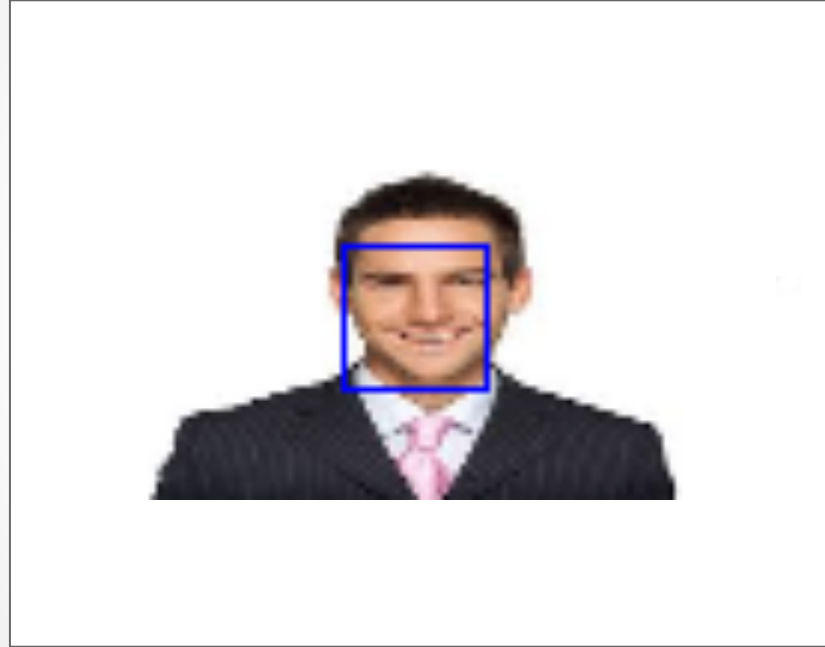
ps6-4-b-1.png

# 4b: Viola Jones Features



ps6-4-b-2.png

# 4c: Viola Jones Face Recognition



ps6-4-c-1.png