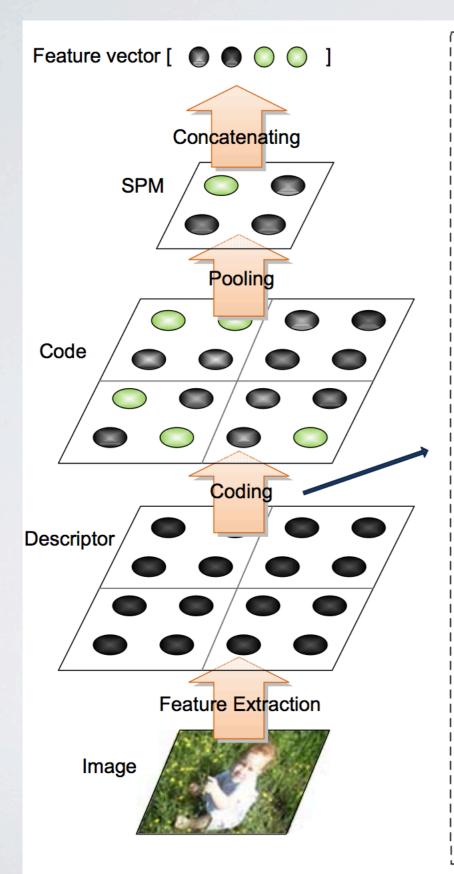
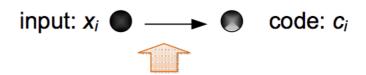
# Locality-constrained Linear Coding



# LLC Coding process

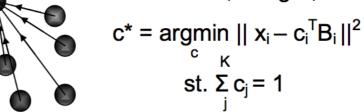
#### Step 3:

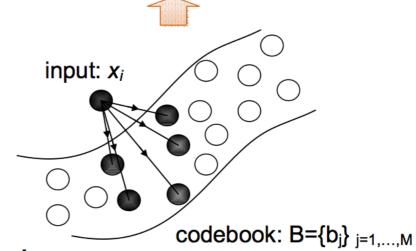
 $c_i$  is an Mx1 vector with K non-zero elements whose values are the corresponding  $c^*$  of step 2



## Step 2:

Reconstruct  $x_i$  using  $B_i$ 





### Step 1:

Find K-Nearest Neighbors of  $x_i$ , denoted as  $B_i$ 

Image credit: Wang et al 2010