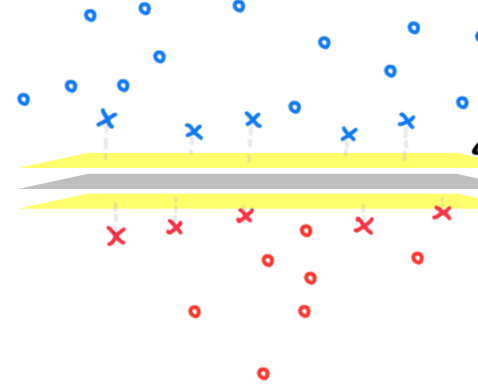
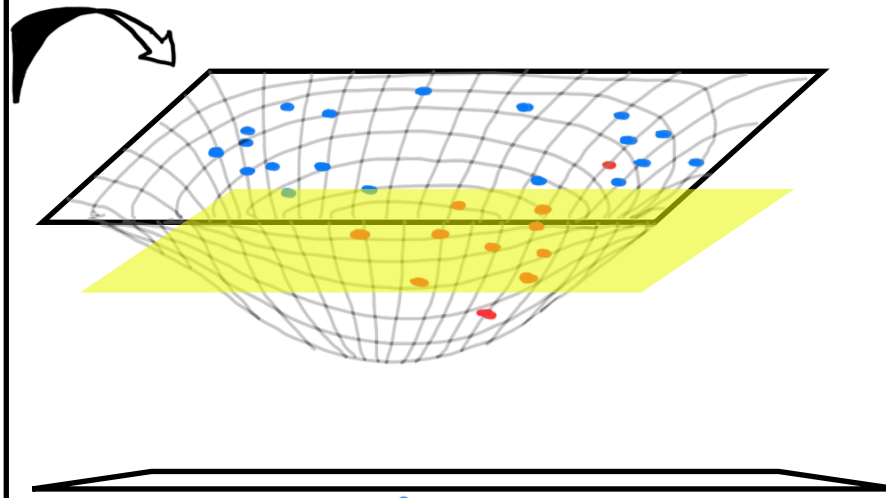
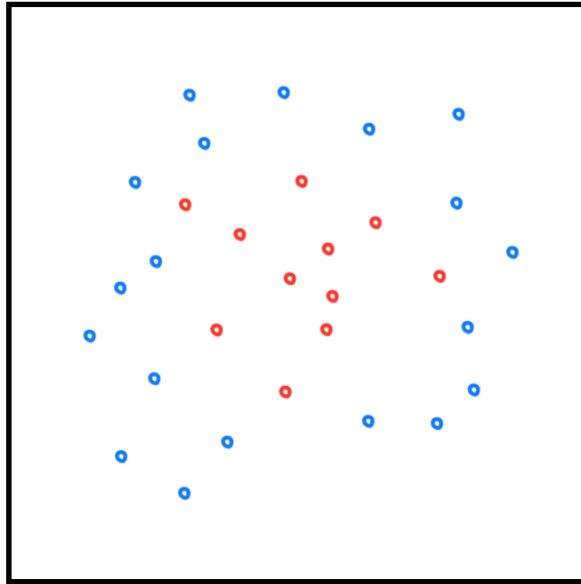


# SUPPORT VECTOR MACHINE

DIMENSION REDUCTION

APPLY A TRANSFORMATION  
TO FIT A HYPER PLANE  
TO CLASSIFY/REGRESS

"KERNEL TRICK"



"SUPPORT  
VECTORS"

LIE CLOSEST  
TO THE  
MARGINS  
OF THE  
DECISION BOUNDARY

DISTANCES ARE  
OPTIMIZED BY  
"COST"