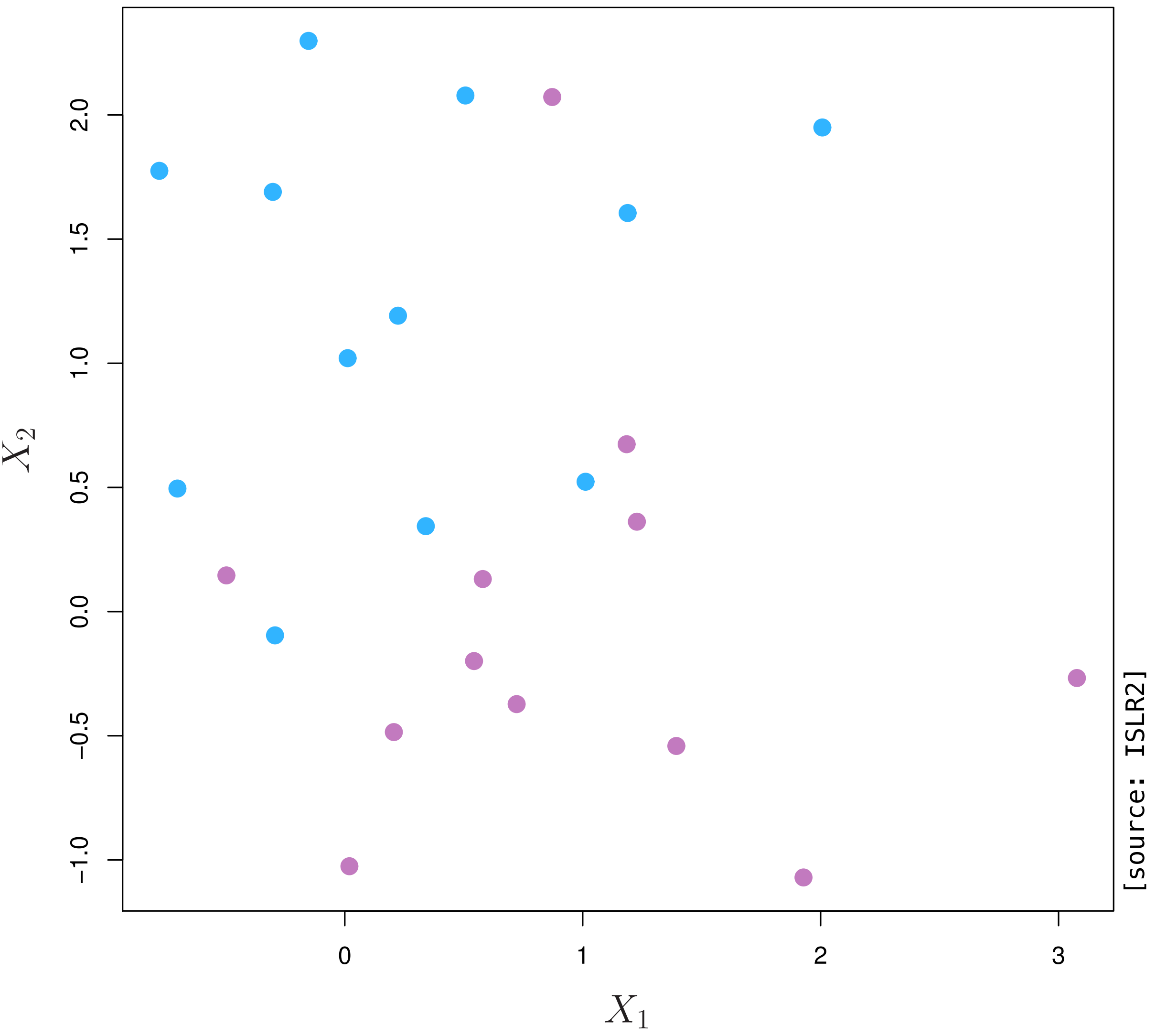




The Non-Separable Case



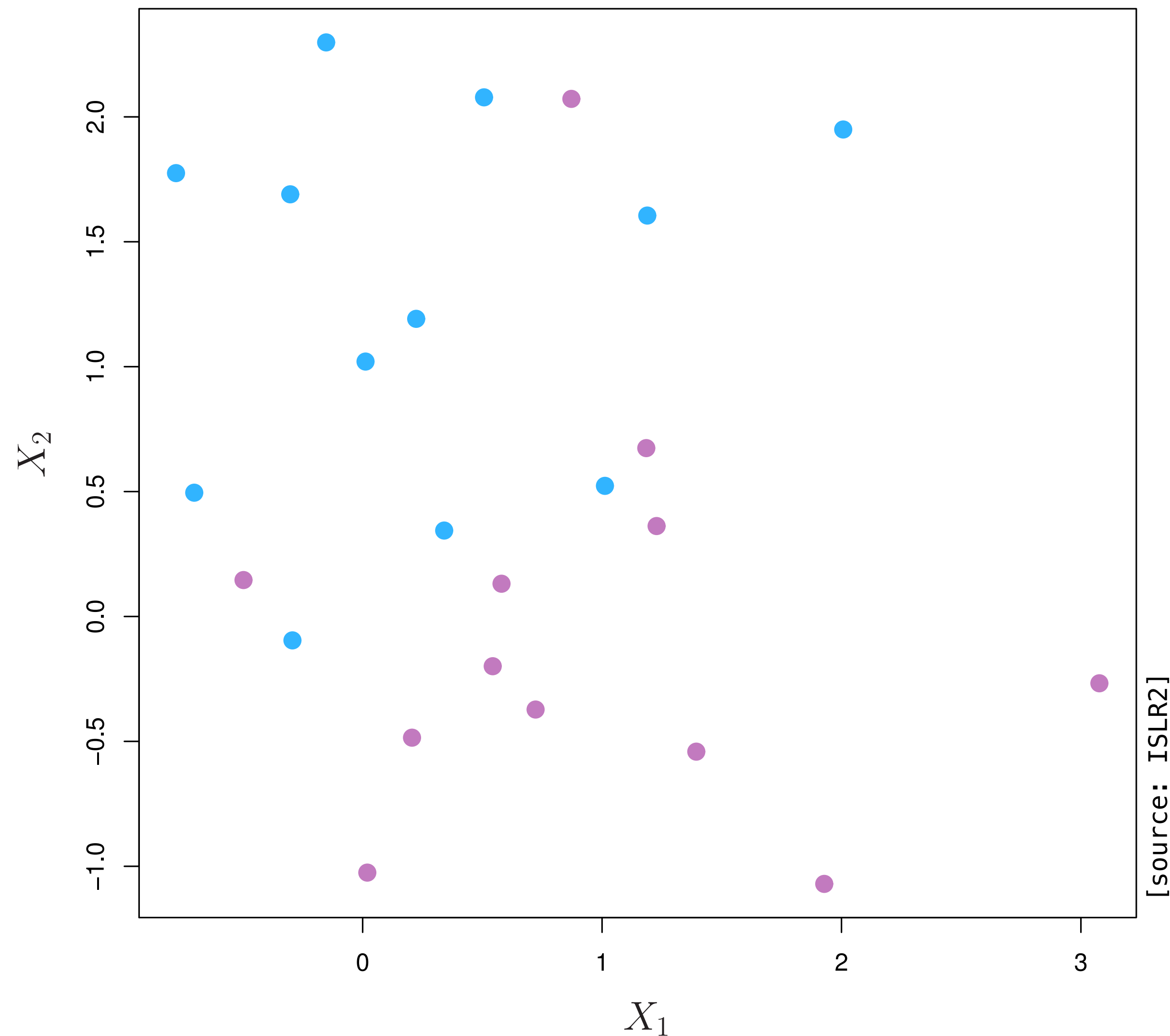
the optimization problem for the maximal margin classifier often has no solution with  $M \geq 0$



and it's very sensitive to outliers!

# The Non-Separable Case

the optimization problem for the maximal margin classifier often has no solution with  $M > 0$



and it's very sensitive to outliers!

# The Non-Separable Case

even if the data are separable, they are sometimes noisy

$\Rightarrow$  poor solution for the maximum margin classifier

