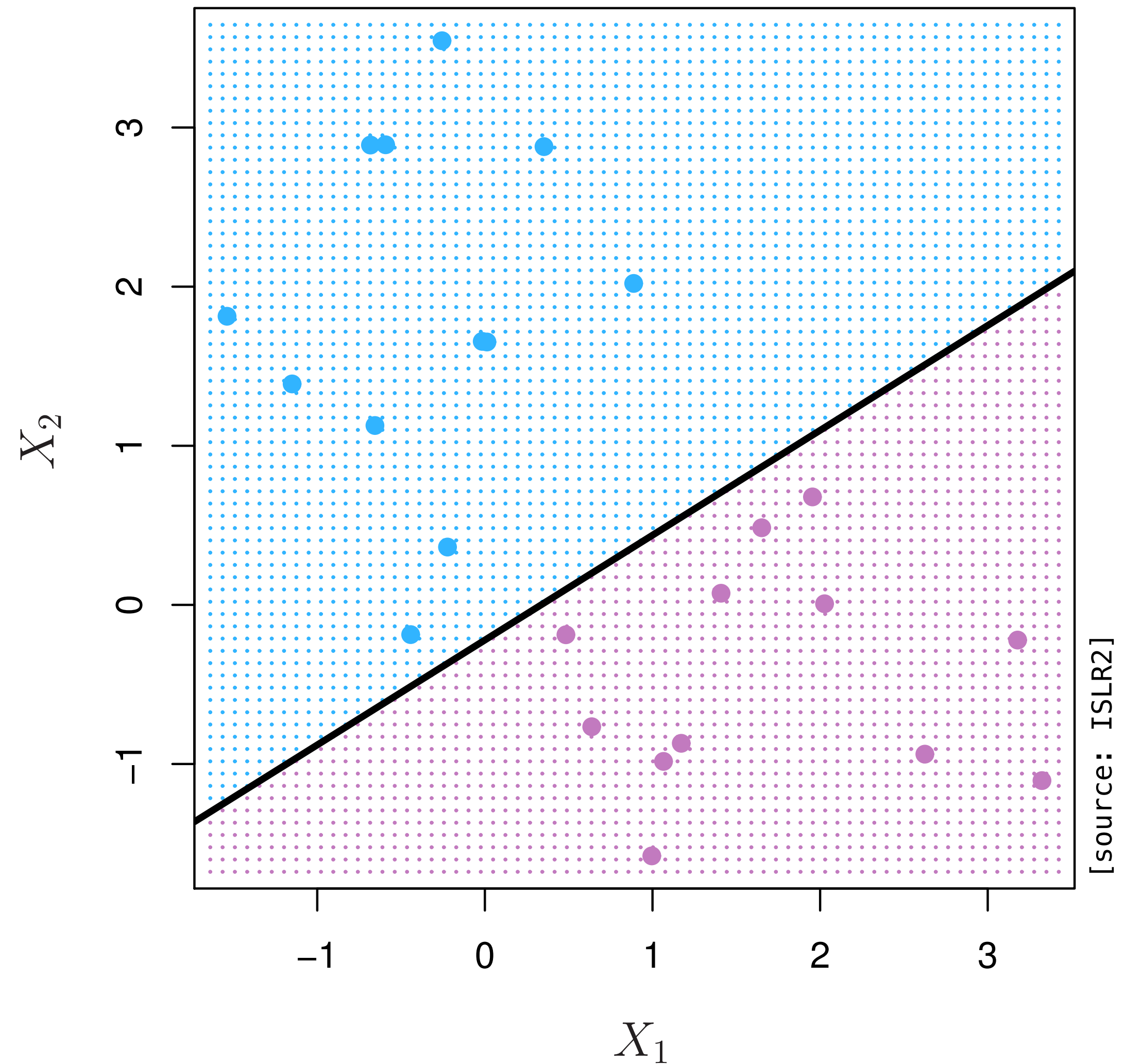
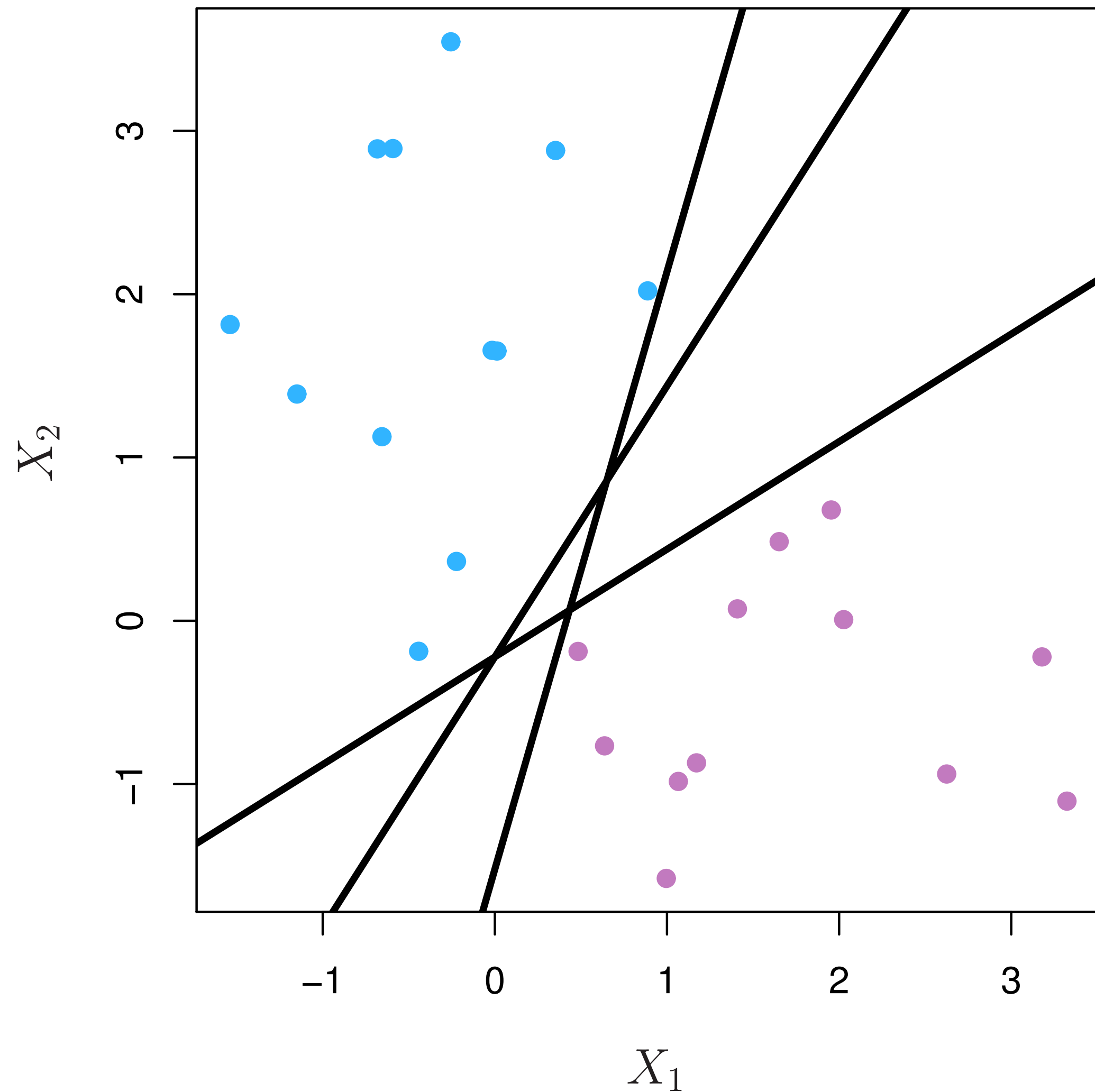


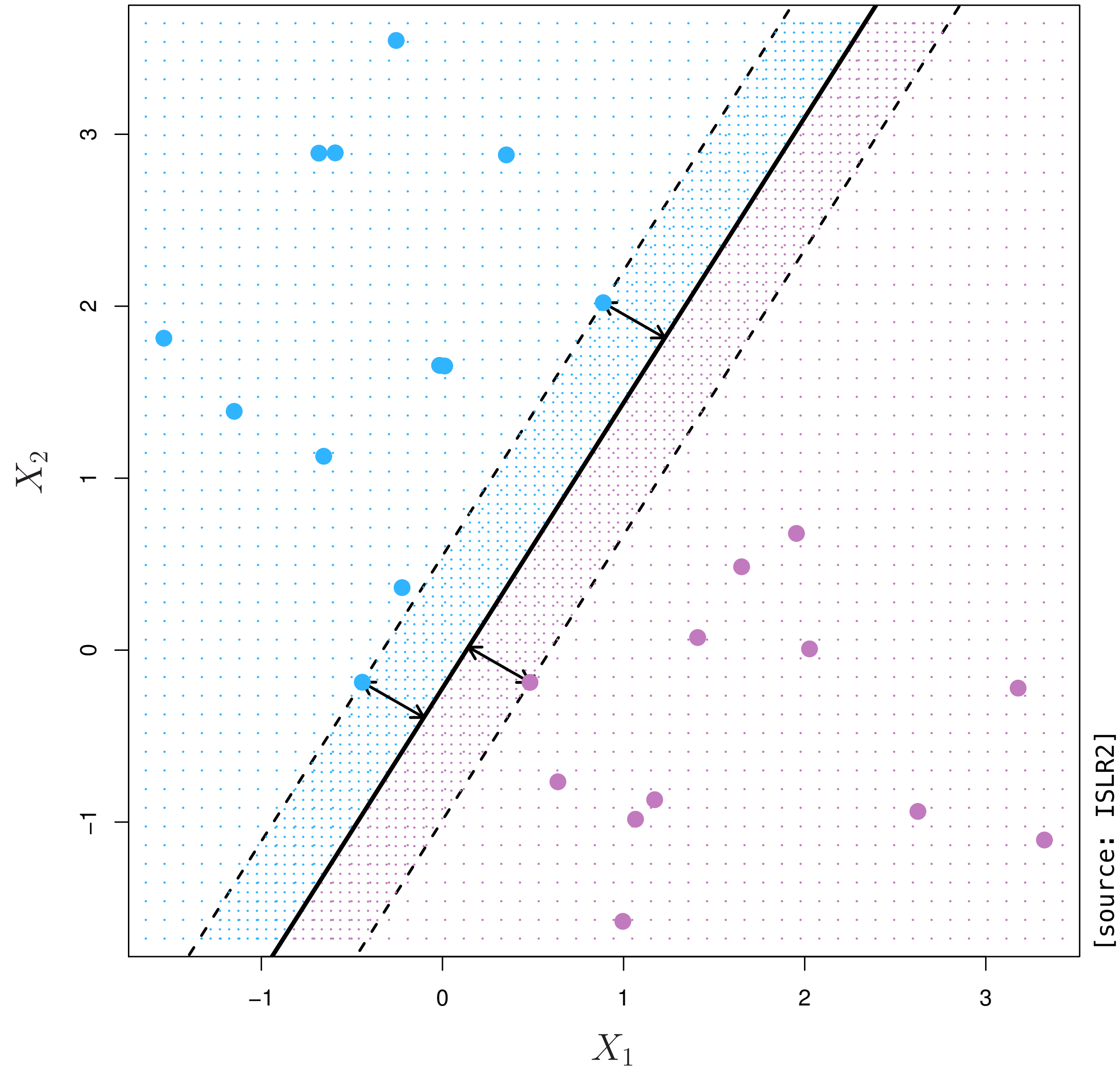
Hyperplanes Divide Spaces in Half



[source: ISLR2]

if a separating hyperplane exists, there will be ∞ many of them
how do we choose just one?

Maximal Margin Classifier



choose the one that's furthest from the training examples

[source: ISLR2]