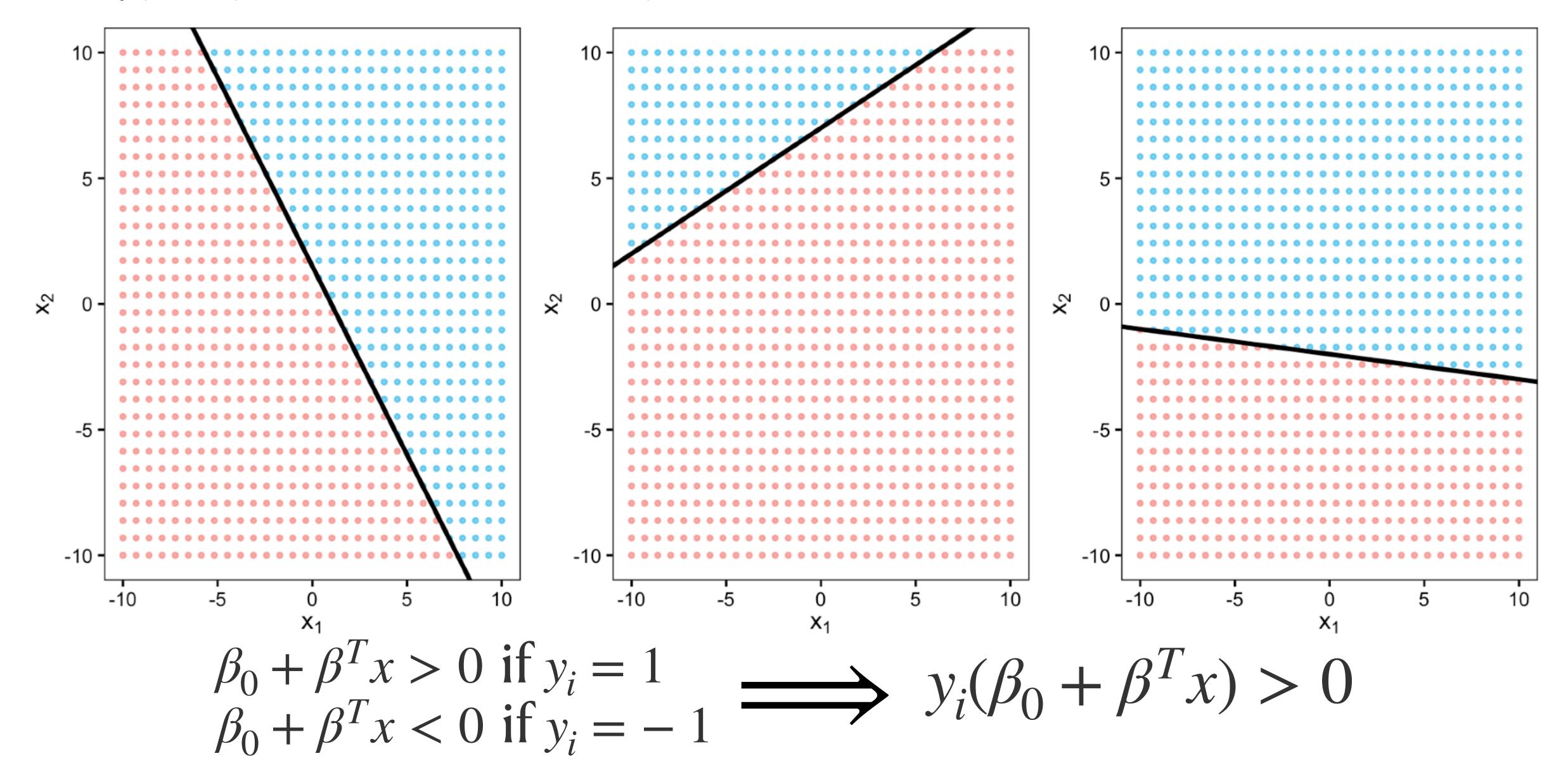
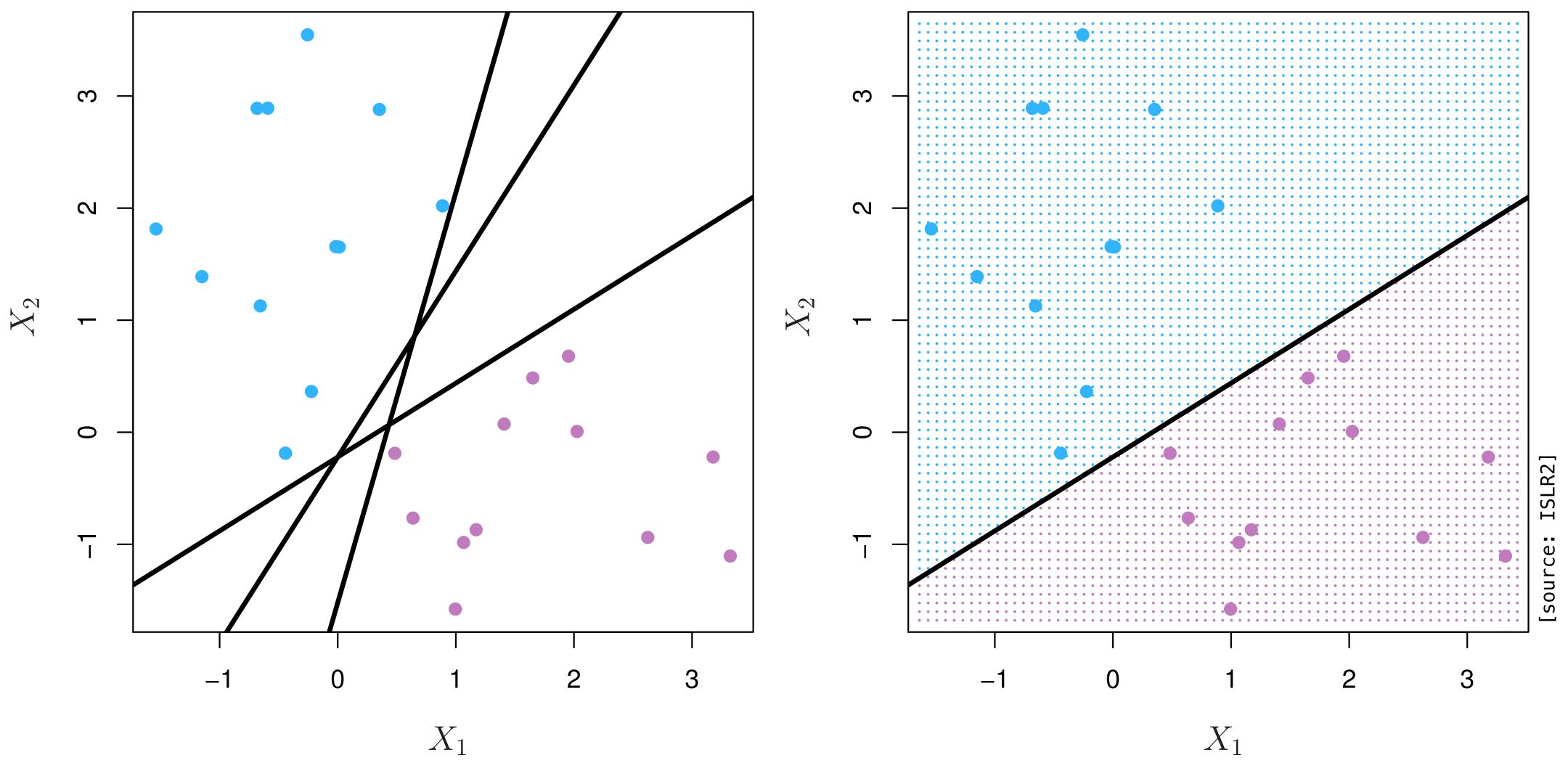
## Hyperplanes Divide Spaces in Half



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