

Support Vector Machine

- In n-dimensions points are divided by a plane, instead of a line
- SVMs can be used separators that are curve, not necessarily linear, by transforming points before classification
 - Transformation functions may be non-linear and are called kernel functions
 - Separator is a plane in the transformed space, but maps to curve in original space
- There may not be an exact planar separator for a given set of points
 - Choose plane that best separates points
- N-ary classification can be done by N binary classifications
 - In class i vs. not in class i.