

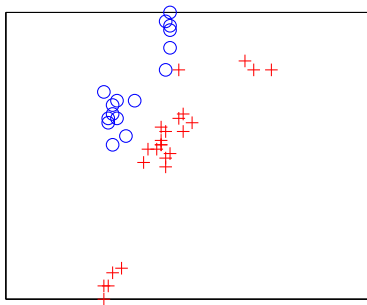
# Fast low-rank metric learning

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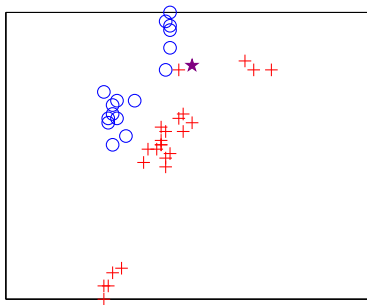
## $k$ nearest neighbours

- ▶ Simple, yet powerful classifier.
- ▶  $d(\mathbf{x}_i, \mathbf{x}_j) = \sqrt{(\mathbf{x}_i - \mathbf{x}_j)^T (\mathbf{x}_i - \mathbf{x}_j)}$



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# Neighbourhood component analysis