- Quadratic programming involves optimization problems with a quadratic objective and linear constraints.
- SVM training is an optimization problem in that we are maximizing the margin.
- Lagrangian multipliers are used to unify the objective and constraints into a single formula.
- In the context of SVMs, a kernel function is used to compute the dot products of transformed vectors from the original vectors (that is, without computing the transformed vectors themselves).
- Soft margin classification refers to a variation on support vector machines where we allow some training data points to be on the wrong side of the margin.

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