Improved Boosting with Better Margin-Maximization?

- can design algorithms more effective than AdaBoost at maximizing the minimum margin
- in practice, often perform worse [Breiman]
- why??
- more aggressive margin maximization seems to lead to:
 - more complex weak classifiers (even using same weak learner); or
 - higher minimum margins,
 but margin distributions that are lower overall

[with Reyzin]