

## Caveats

- performance of AdaBoost depends on **data** and **weak learner**
- consistent with theory, AdaBoost can **fail** if
  - weak classifiers too **complex**
    - overfitting
  - weak classifiers too **weak** ( $\gamma_t \rightarrow 0$  too quickly)
    - underfitting
    - low margins → overfitting
- empirically, AdaBoost seems especially susceptible to uniform noise