[with Singer]

- useful to allow weak classifiers to assign confidences to predictions
- formally, allow  $h_t: X \to \mathbb{R}$

$$sign(h_t(x)) = prediction$$
  
 $|h_t(x)| = "confidence"$ 

use identical update:

$$D_{t+1}(i) = \frac{D_t(i)}{Z_t} \cdot \exp(-\alpha_t y_i h_t(x_i))$$

and identical rule for combining weak classifiers

• question: how to choose  $\alpha_t$  and  $h_t$  on each round