- constructing D_t :
 - $D_1(i) = 1/m$
 - given D_t and h_t :

$$D_{t+1}(i) = \frac{D_t(i)}{Z_t} \times \begin{cases} e^{-\alpha_t} & \text{if } y_i = h_t(x_i) \\ e^{\alpha_t} & \text{if } y_i \neq h_t(x_i) \end{cases}$$
$$= \frac{D_t(i)}{Z_t} \exp(-\alpha_t y_i h_t(x_i))$$

where
$$Z_t =$$
 normalization factor $\alpha_t = \frac{1}{2} \ln \left(\frac{1 - \epsilon_t}{\epsilon_t} \right) > 0$

- final classifier:
 - $H_{\text{final}}(x) = \operatorname{sign}\left(\sum_{t} \alpha_{t} h_{t}(x)\right)$