

$$\sum w_i^{t+1} = \frac{1}{Z} \sqrt{\frac{\epsilon^t}{1-\epsilon^t}} \sum_{\text{correct}} w_i^t + \frac{1}{Z} \sqrt{\frac{1-\epsilon^t}{\epsilon^t}} \sum_{\text{wrong}} w_i^t$$

$$= \frac{2}{Z} \sqrt{1-\epsilon^t} \sqrt{\epsilon^t} = 1. \quad Z = 2 \sqrt{1-\epsilon^t} \sqrt{\epsilon^t}$$

$$\sum_{\text{correct}} w_i^{t+1} = \frac{1}{2} = \sum_{\text{wrong}} w_i^{t+1}$$

that

PERSISTENCE \rightarrow DISCOVERY

WISDOM of WEIGHTED THE CROWD.