$$P(w_{t+1} = v_{k_{t+1}} | w_{0:t} = v_{k_{0:t}}) = \hat{y_t}(v_{k_{t+1}})$$
....
$$y_t$$
....
$$W_{fianl}$$
....
$$W_{LSTM}$$

$$h_t \rightarrow W_{e}$$

$$V_{k_t}$$

