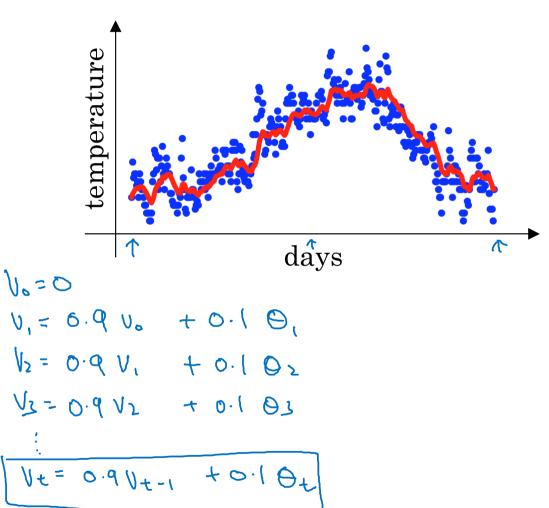


Optimization Algorithms

Exponentially weighted averages

Temperature in London



Andrew Ng

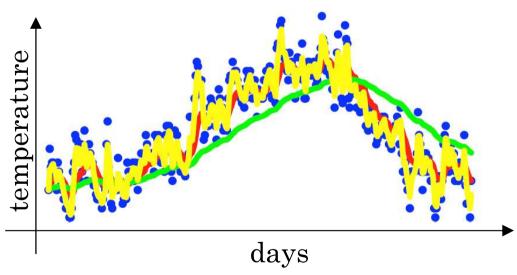
Exponentially weighted averages

$$V_{\xi} = \beta V_{\xi-1} + (1-\beta)O_{\xi}$$

$$\beta = 0.9 : \% \text{ lo days' texperten.}$$

$$\beta = 0.98 : \% \text{ so days}$$

$$\beta = 0.98 : \% \text{ 2 days}$$



Ve as approximately

Overage over

Note 1-p days

temperature.