

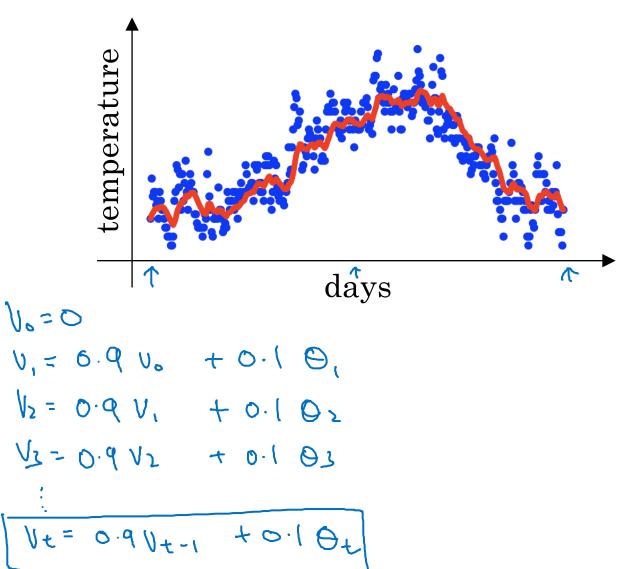
Optimization Algorithms

Exponentially weighted averages

Also called exponentially weighted moving averages in statistics.

Temperature in London

```
\theta_{1} = 40^{\circ}F 4^{\circ}C \leftarrow
\theta_{2} = 49^{\circ}F 4^{\circ}C
\theta_{3} = 45^{\circ}F
\vdots
\theta_{180} = 60^{\circ}F C
\vdots
\theta_{181} = 56^{\circ}F
\vdots
```



Exponentially weighted averages

