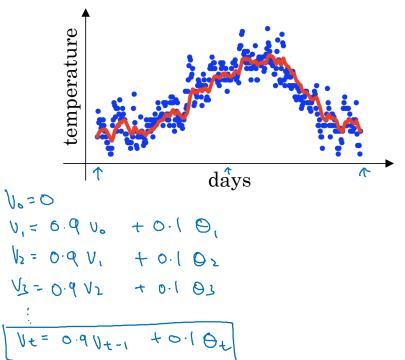


Optimization Algorithms

Exponentially weighted averages

Temperature in London

```
\theta_{1} = 40^{\circ}F \quad \text{fc} \leftarrow
\theta_{2} = 49^{\circ}F \quad \text{qc}
\theta_{3} = 45^{\circ}F
\vdots
\theta_{180} = 60^{\circ}F \quad \text{cc}
\theta_{181} = 56^{\circ}F
\vdots
```



Exponentially weighted averages

