

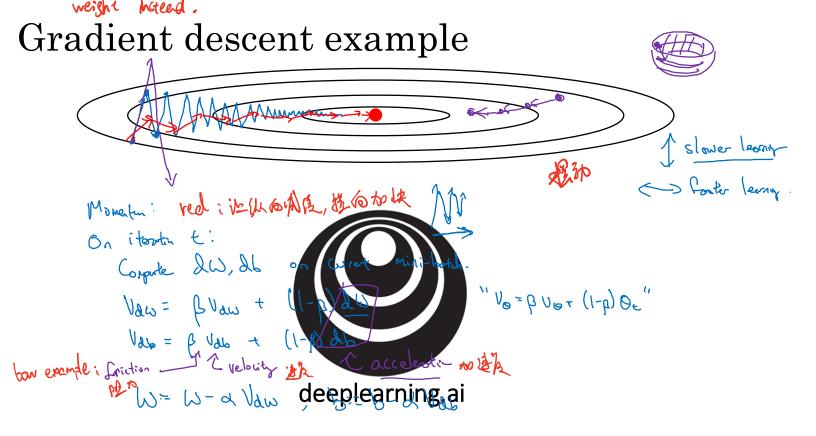
## Optimization Algorithms

## Gradient descent with momentum

deeplearning.ai

Basic idea:

to compute an exponentially neighted average of your gradients, and then use that gradient to update your



## Implementation details

On iteration t:

Compute dW, db on the current mini-batch

 $W = W - \alpha v_{dW}, \ b = b - \alpha v_{db}$ 

Hyperparameters: 
$$\alpha, \beta$$

$$\beta = 0.9 \quad \text{continuous} \quad \beta = 0.9 \quad \text{contin$$

Andrew Ng