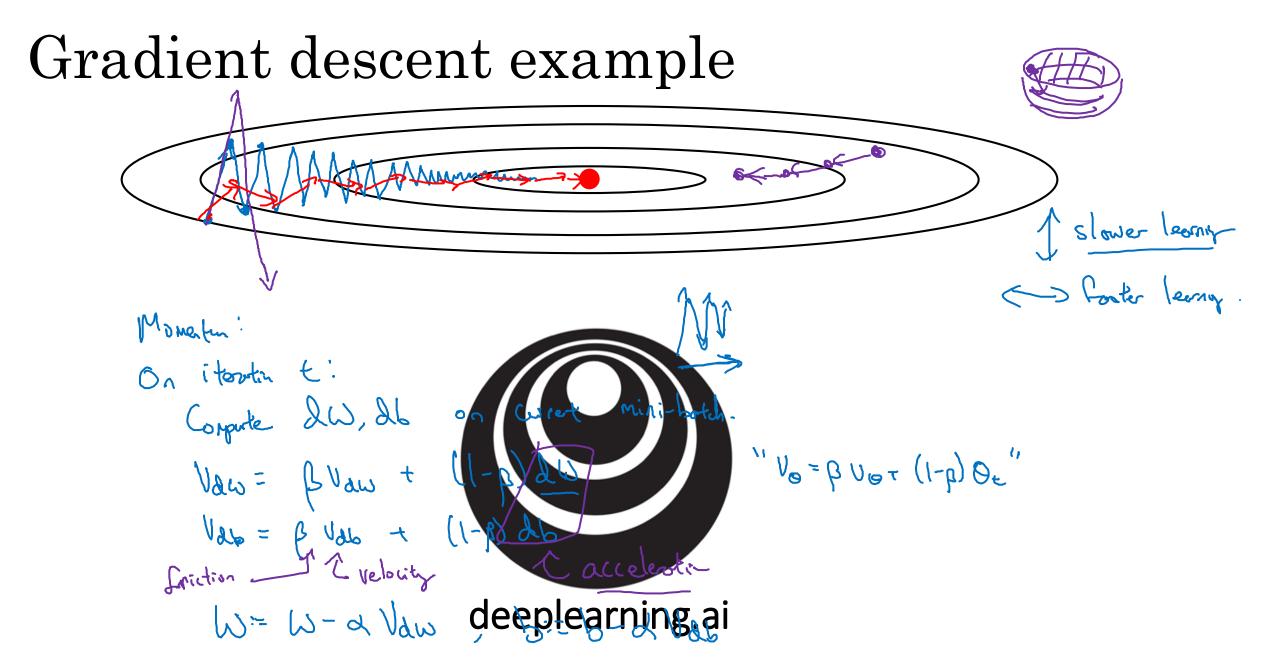


Optimization Algorithms

Gradient descent with momentum



Implementation details

On iteration t:

Compute dW, db on the current mini-batch

$$v_{db} = \beta v_{db} + (1 - \beta) db$$

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

Hyperparameters:
$$\alpha, \beta$$

$$\beta = 0.9$$
Overlose on last 100 graduits