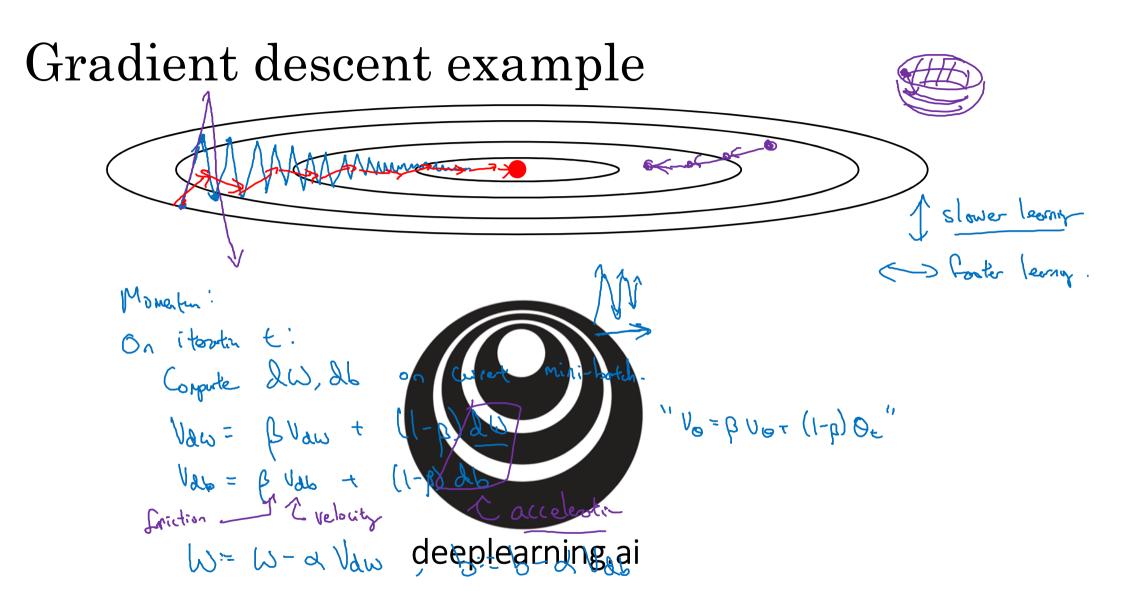


Optimization Algorithms

Gradient descent with momentum



Implementation details

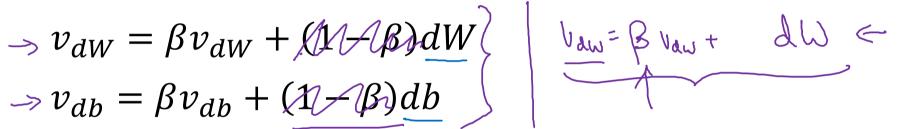
On iteration *t*:

Compute dW, db on the current mini-batch

$$\rightarrow v_{dW} = \beta v_{dW} + M \beta dW$$

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

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



Hyperparameters:
$$\alpha, \beta$$

$$\beta = 0.9$$
Overlose on last & lo graduits