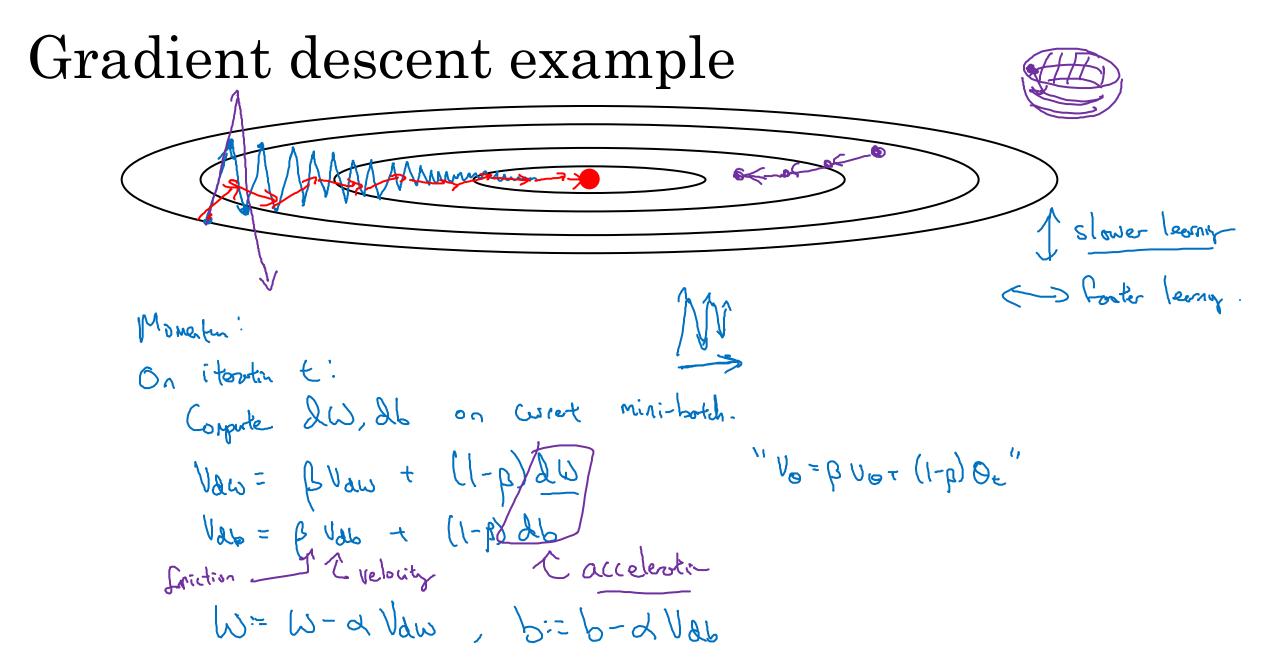


Optimization Algorithms

Gradient descent with momentum



Implementation details

On iteration t:

Compute dW, db on the current mini-batch

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

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



Hyperparameters:
$$\alpha, \beta$$

$$\beta = 0.9$$
Overloge on lost 100 graduits