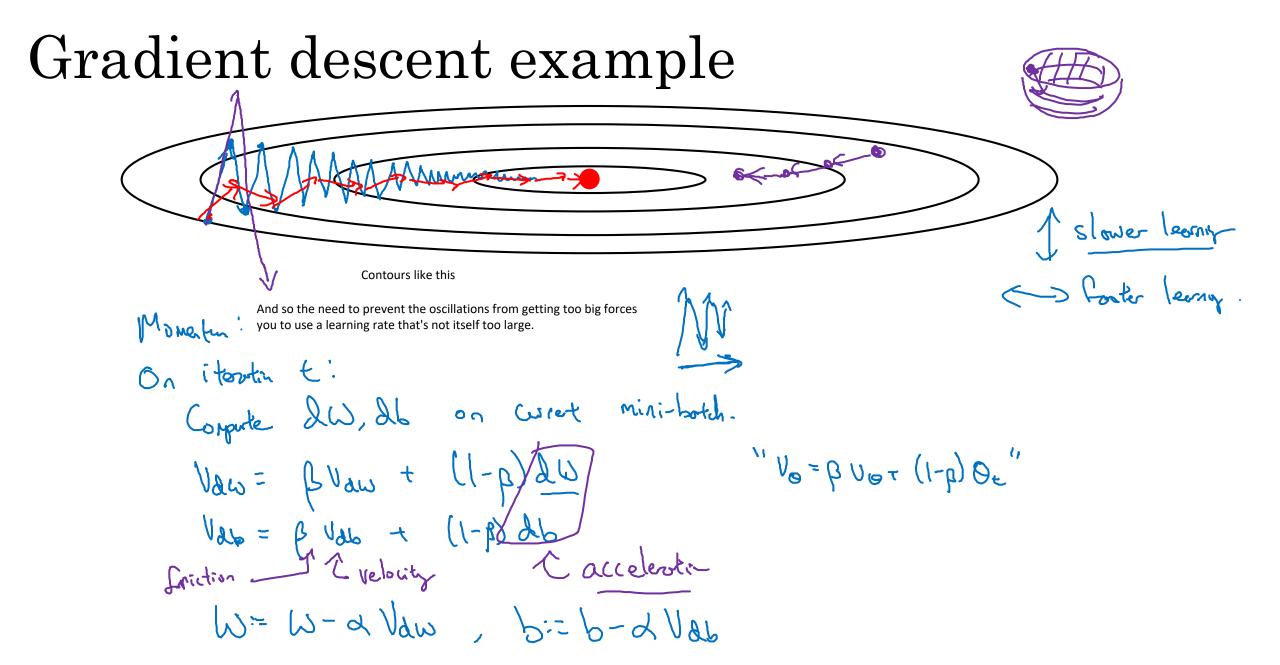


Optimization Algorithms

Gradient descent with momentum

In one sentence, the basic idea is to compute an exponentially weighted average of your gradients, and then use that gradient to update your weights instead.



Implementation details

On iteration *t*:

Compute dW, db on the current mini-batch

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

it just affects what's the best value of the learning rate alpha.

Hyperparameters: α, β

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