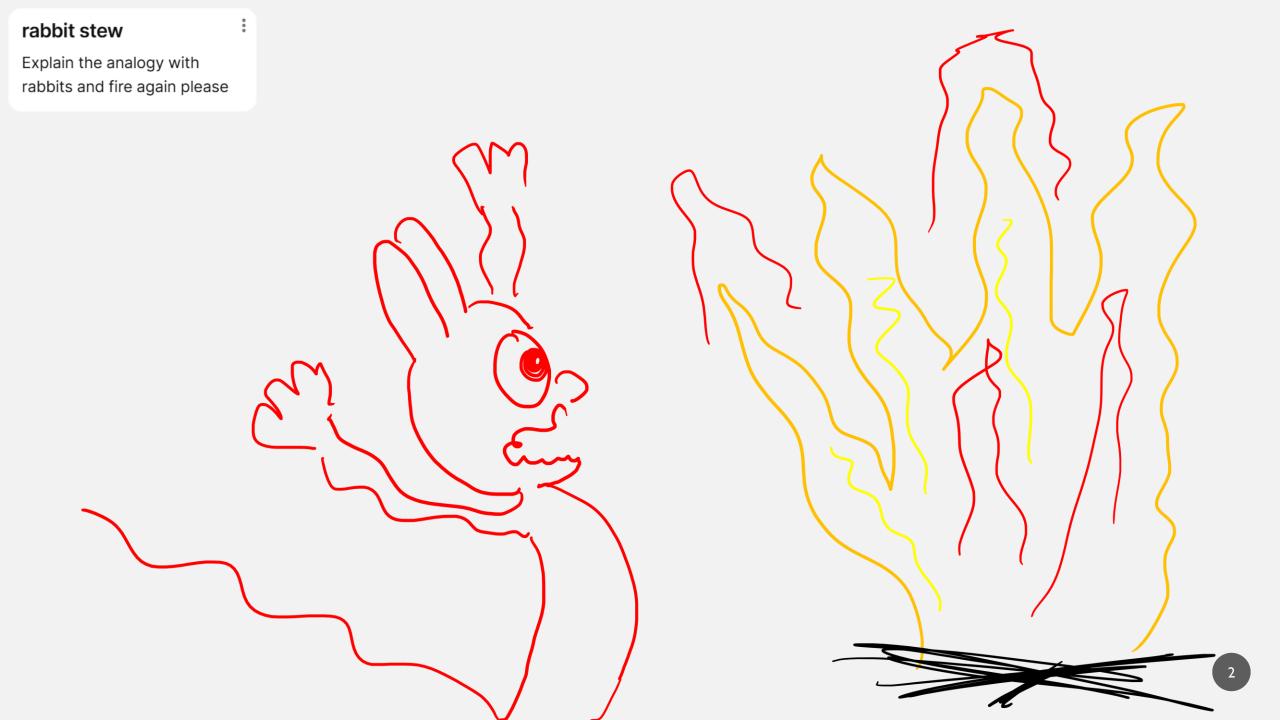
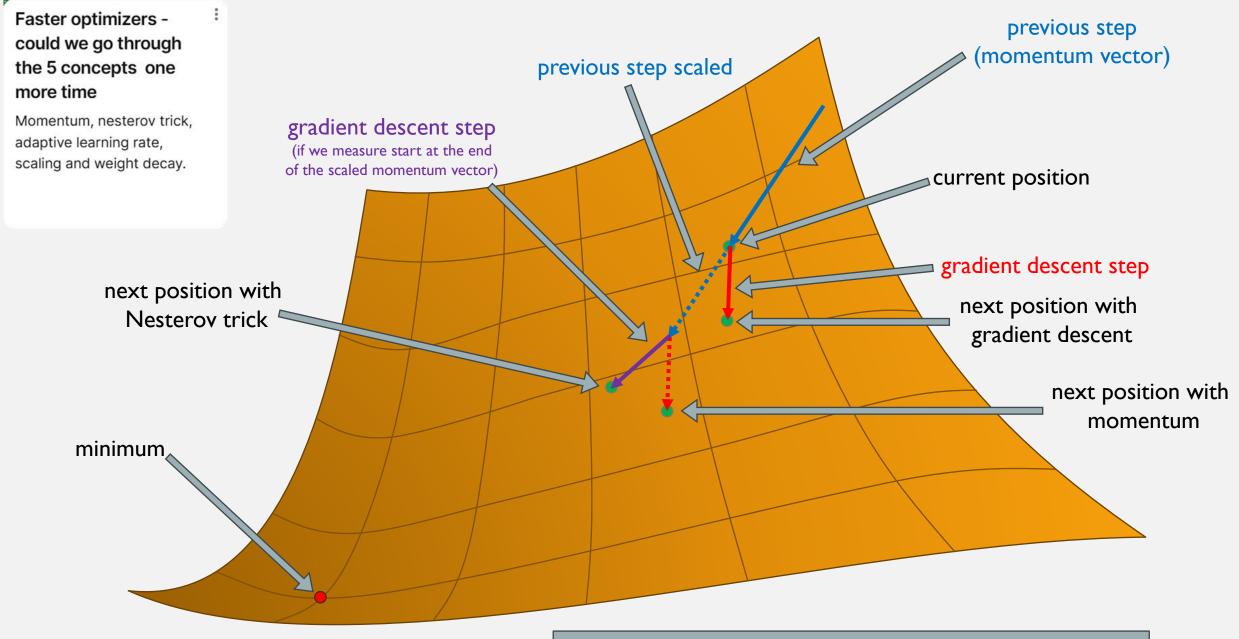
DIVING INTO THE MACHINE ROOM

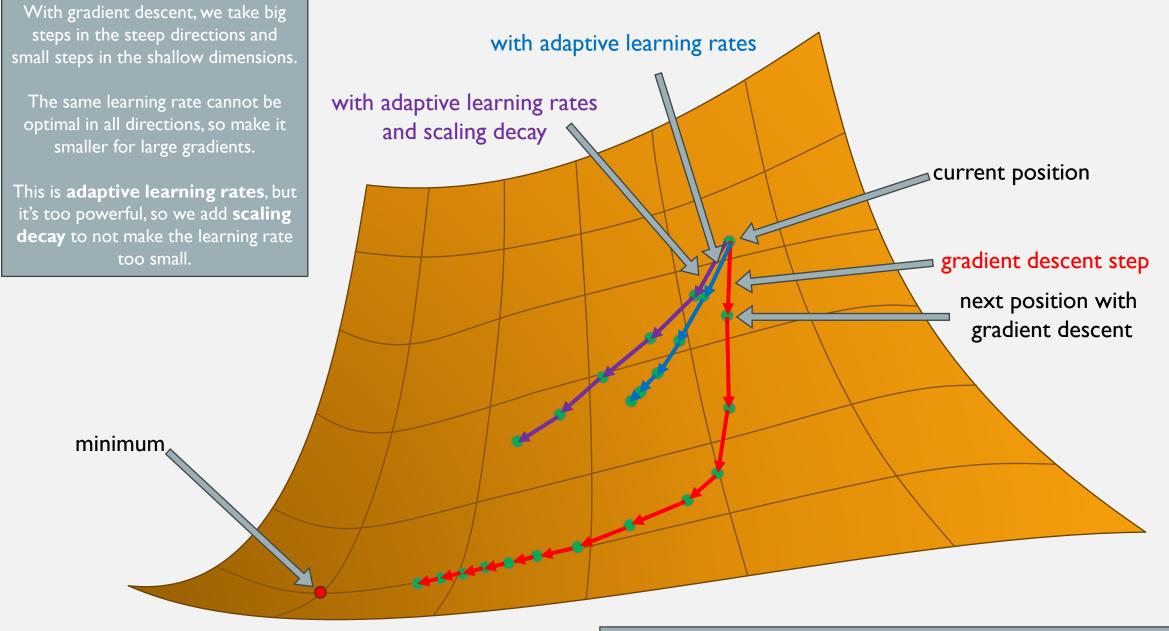
Pain points





Momentum: Add a bit of the previous step

Nesterov: Measure the gradient after the momentum step



Combine momentum, adaptive learning rates and scaling decay to get Adam.

Add Nesterov to get Nadam.

Add weight decay (for regularization) to get AdamW.