



A contour plot of a loss function $L_{\mathcal{B}}$ is shown. The plot features concentric elliptical contours, with the center being the minimum of the function. The color gradient transitions from white at the center, through pink, red, orange, yellow, green, and cyan, to blue at the outer edges. A black dot is placed on one of the inner contours, representing the current parameter vector $w(t)$. A white rectangular box is overlaid in the upper right quadrant, containing the update equation for the next step.

$$w(t+1) = w(t) - 0.03 \nabla L_{\mathcal{B}}(w(t))$$