

$$\Delta w = \alpha \left[ \underbrace{(R + \gamma \max_a \hat{Q}(s', a; w))}_{\text{Max Qvalue for } s'} - \underbrace{\hat{Q}(s, a; w)}_{\text{Predicted Qvalue}} \right] \underbrace{\nabla_w \hat{Q}(s, a; w)}_{\text{Gradient of Qvalue}}$$