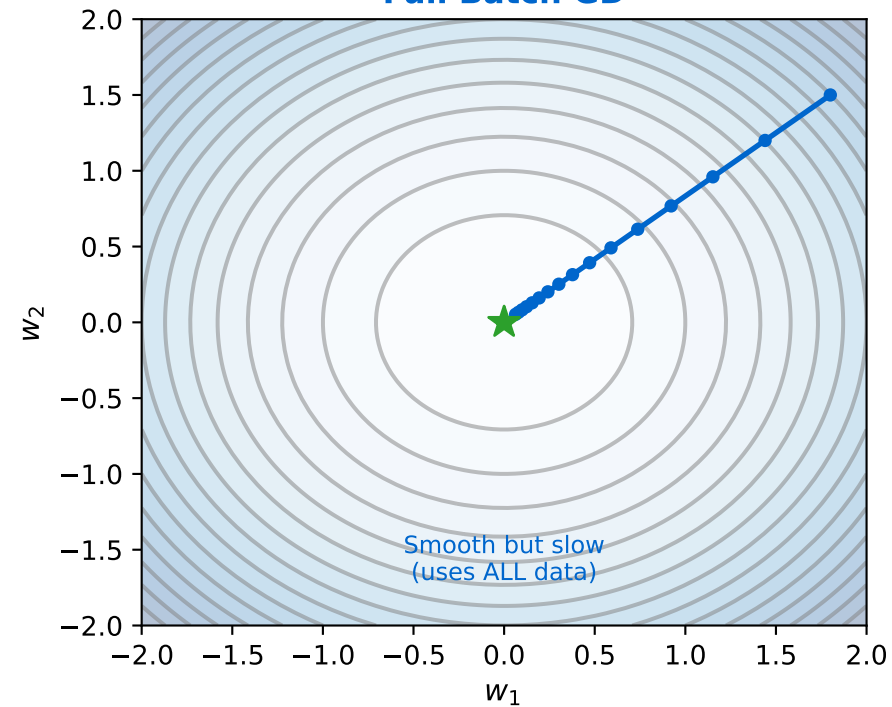
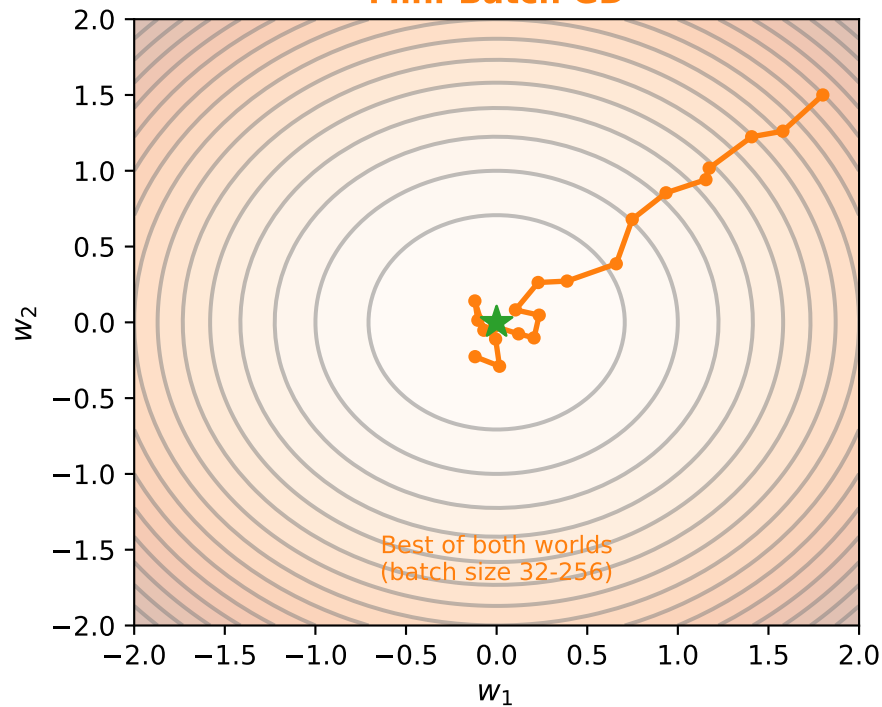


# Gradient Descent Variants: Trading Off Speed vs Stability

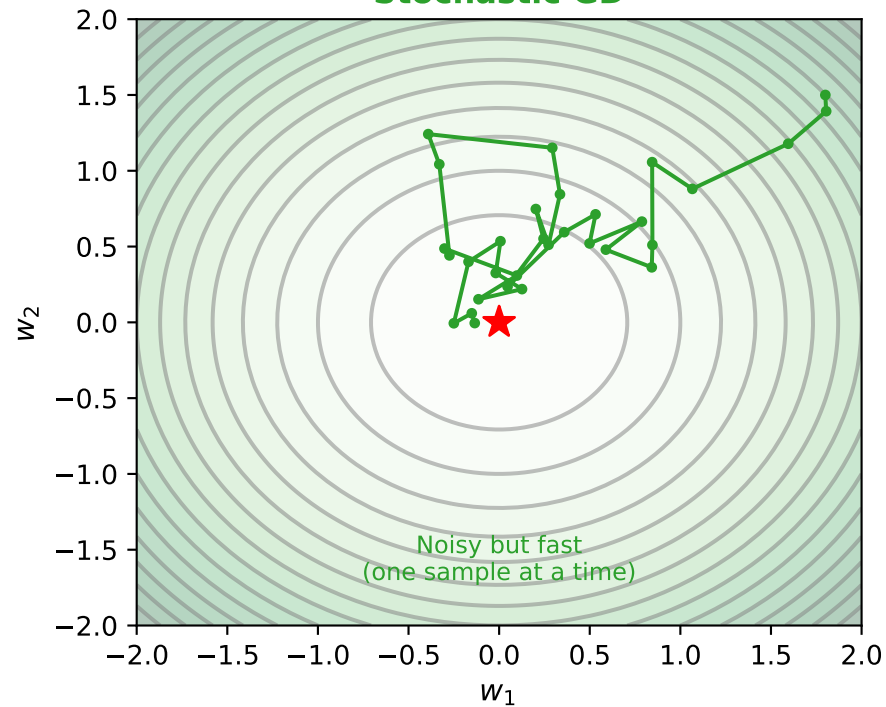
## Full Batch GD



## Mini-Batch GD



## Stochastic GD



Full Batch: Stable gradients, slow updates | Mini-Batch: Good balance, standard choice | SGD: Fast updates, noisy gradients