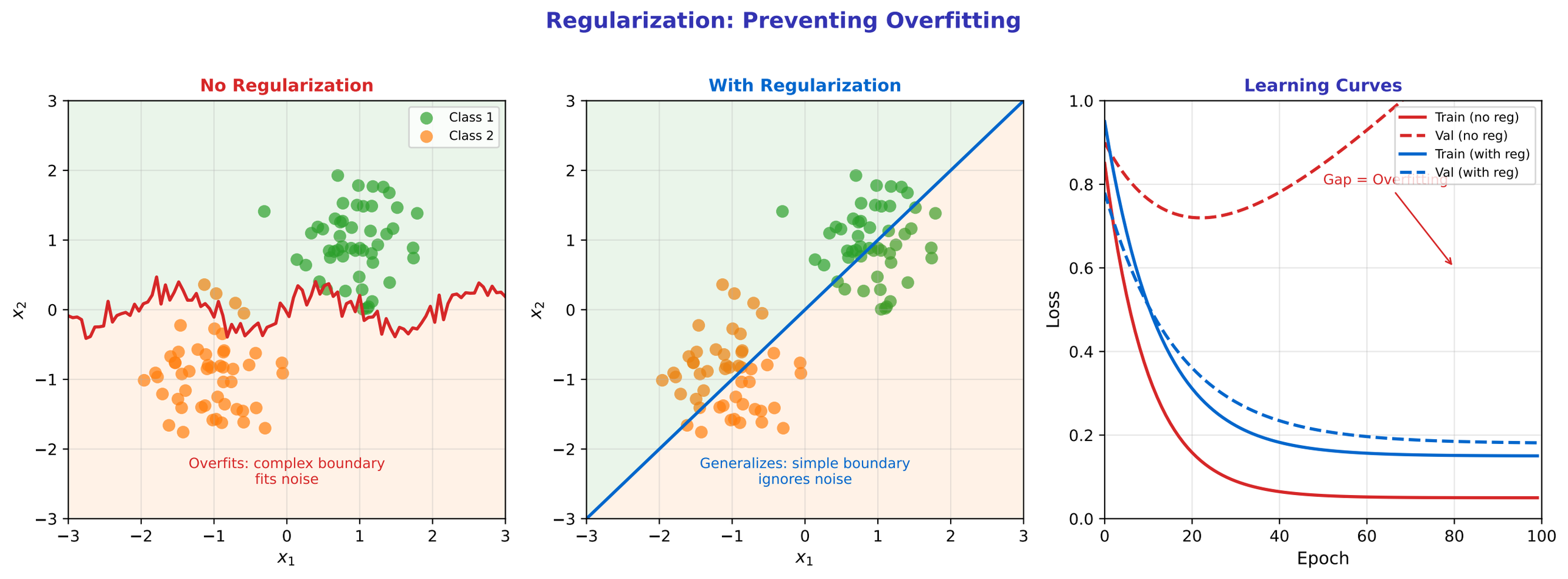
Regularization: Preventing Overfitting
No Regularization
Class 1
Class 2
Overfits: complex boundary
fits noise
With Regularization
Generalizes: simple boundary
ignores noise
Learning Curves
Train (no reg)
Val (no reg)
Train (with reg)
Val (with reg)
Gap = Overfitting
Loss
Epoch
x_1
x_2