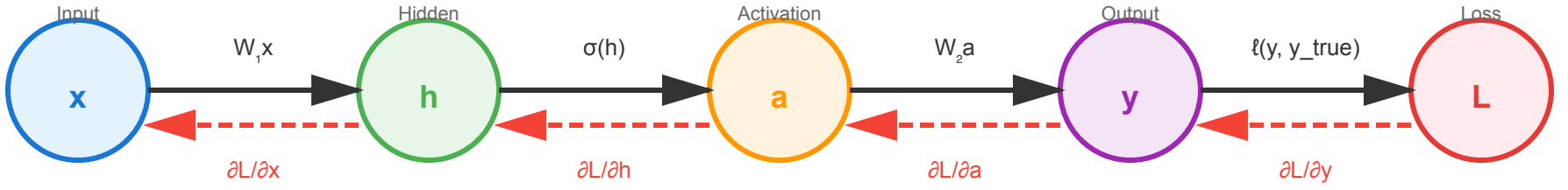
Backpropagation Computational Graph

Forward Pass →



Complexity

O(n) for n operations

Chain Rule Application

$\partial L/\partial W_1 = \partial L/\partial h \times \partial h/\partial W_1$

Key Insight

Each edge traversed exactly once

← Backward Pass (Backpropagation)

Forward pass computes outputs; backward pass computes gradients using chain rule