









## Weights and gradient:

A positive gradient for a weight implies a decrease is needed, and a negative gradient suggests an increase.

- 1. First Layer:
  - a. For the first neuron, the weights must be increased to reduce the error
  - b. For the second neuron, the weights must be decreased to reduce the error
- 2. Second Layer:
  - a. All weights must be increased to reduce the error
- 3. Third Layer:
  - a. For the first unit, the weight must be increased to reduce the error
  - b. For the second unit, the weight must be decreased to reduce the error