

# A Tour of TensorFlow



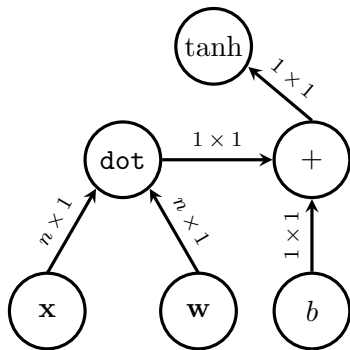
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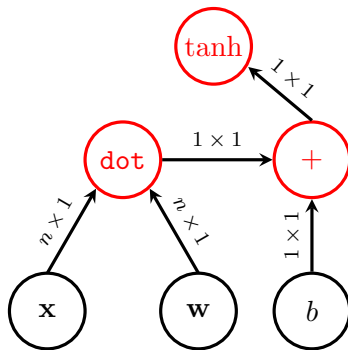
# Computational Paradigms



**Computational Graphs**

$$\hat{y} = \tanh(\mathbf{x}^T \mathbf{w} + b)$$

# Computational Paradigms

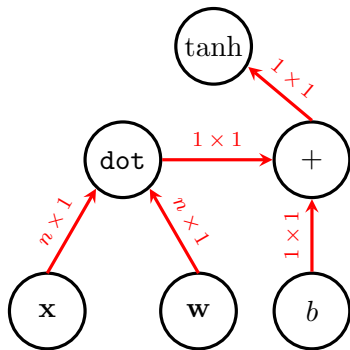


$$\hat{y} = \tanh(\mathbf{x}^T \mathbf{w} + b)$$

## Computational Graphs

### 1. Operations

# Computational Paradigms

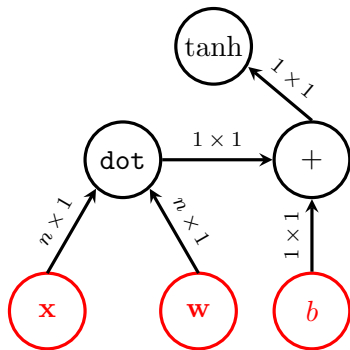


$$\hat{y} = \tanh(\mathbf{x}^T \mathbf{w} + b)$$

## Computational Graphs

1. Operations
2. Tensors

# Computational Paradigms



$$\hat{y} = \tanh(\mathbf{x}^T \mathbf{w} + b)$$

## Computational Graphs

1. Operations
2. Tensors
3. Variables

# Execution Model

# Backpropagation in TensorFlow



# Visualization Tools

# Use Cases of TensorFlow

# Walkthrough

# Thank You