

- **Conditions**
- **IfElse vs Switch**
- **Loop**
- **Scan**
- **Scan Example: Computing the sequence $x(t) = \tanh(x(t - 1) \cdot W) + y(t) \cdot U + p(T - t) \cdot V$**
- **Scan Example: Computing norms of lines of X**
- **Scan Example: Computing norms of columns of X**
- **Scan Example: Computing trace of X**
- **Scan Example: Computing the sequence $x(t) = x(t - 2) \cdot U + x(t - 1) \cdot V + \tanh(x(t - 1) \cdot W) + b$**
- **Scan Example: Computing the Jacobian of $y = \tanh(v \cdot A)$ wrt x**
- **Scan Example: Accumulate number of loop during a scan**
- **Scan Example: Computing $\tanh(v \cdot W) + b$ * d where d is binomial**
- **Scan Example: Computing $\text{pow}(A, k)$**