

Vectorized Operations:
Jacobi metrix

$$2 = W \cdot X = \left(W_{0,1} \chi_{1} + \dots + W_{1,n} \chi_{n} \right)$$

$$W_{0,1} \chi_{1} + \dots + W_{0,n} \chi_{n} \right)$$

$$\sqrt{w} = 2q \cdot \chi^{T}$$

$$\frac{\partial k}{\partial W_{i,j}} = \int_{k=1}^{k=1} Y_{i,j}$$

$$\frac{\partial f}{\partial W_{i,j}} = \sum_{k=1}^{k} \frac{\partial f}{\partial W_{i,j}}$$

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Nerwal Network:

2-layer Neural Neural