Notation

- \boldsymbol{x} A vector
- \boldsymbol{X} A matrix
- X A Tensor
- \boldsymbol{X}_{ij} Element located at row i column j in matrix \boldsymbol{X}
 - * The convolution operator
 - o The Hadamard product
 - σ The sigmoid activation function
- $\nabla_{\boldsymbol{x}} f$ Gradient of f with respect to \boldsymbol{x}
- $f(x;\theta)$ Function f with input x and parameter θ