Encoder-Decoder Model – Formal Notation

$\begin{array}{ll} \textbf{Data} \\ \text{input tokens (source language)} & \textbf{x} = (x_1, \dots, x_{T_x}) \\ \text{output tokens (target language)} & \textbf{y} = (y_1, \dots, y_{T_y}) \end{array}$