

Figure 1: View of Mount Vesuvius from Pompeii

$$Q^{3 \times 4} =) \tag{1a}$$

$$K^{3 \times 4} =) \tag{1b}$$

$$V^{3 \times 4} =) \tag{1c}$$

$$B^{3 \times 4} = \text{mat_mult}(Q^{3 \times 4}, K^{3 \times 4}) \tag{1d}$$

$$Y^{3 \times 4} = \text{scale}(B^{3 \times 4}) \tag{1e}$$

$$R^{3 \times 4} = \text{mask}(Y^{3 \times 4}) \tag{1f}$$

$$G^{3 \times 4} = \text{softmax}(R^{3 \times 4}) \tag{1g}$$

$$P^{3 \times 4} = \text{mat_mult}(G^{3 \times 4}, V^{3 \times 4}) \tag{1h}$$

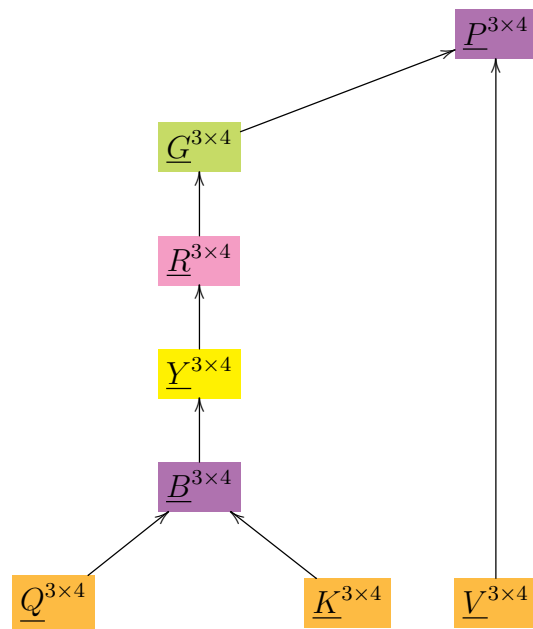


Figure 2: Scaled Dot Product Attention.