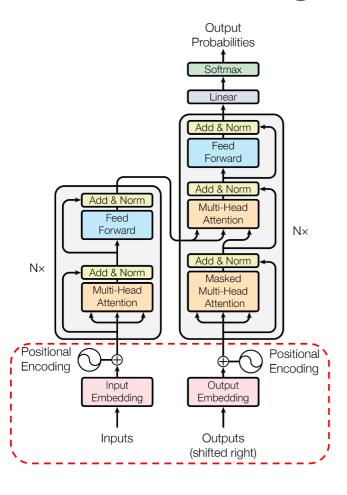
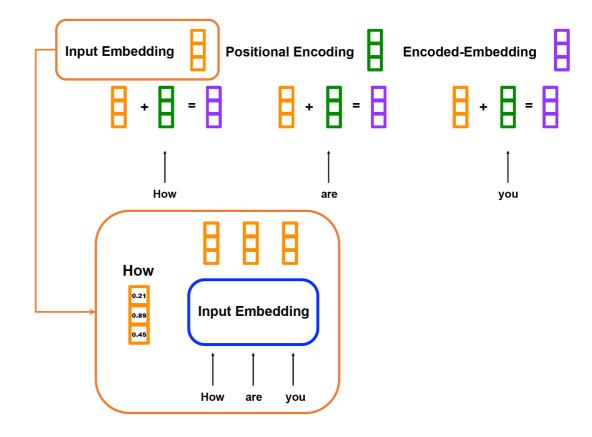
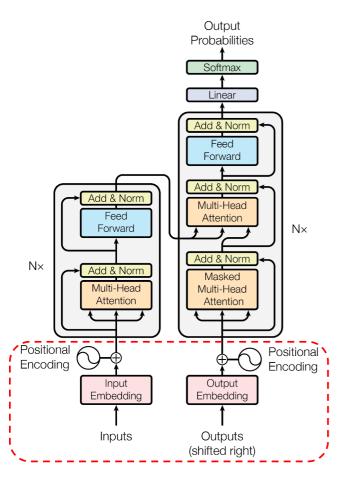
Summary

Mingyu (Jerry) Liu 4th Sep

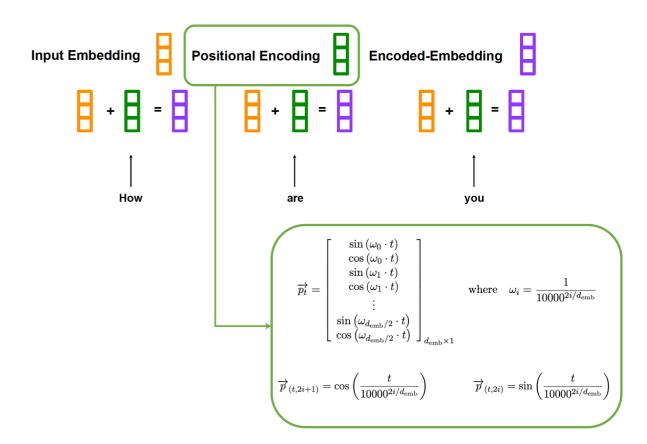


1.2 Input Embedding

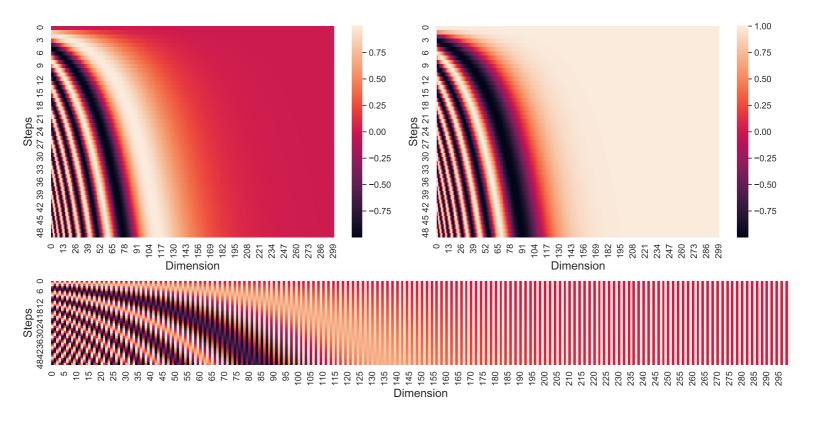




1.2 Positional Encoding



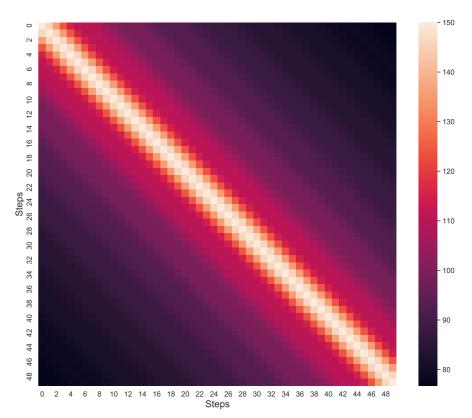
1.2 Positional Encoding – Visualized

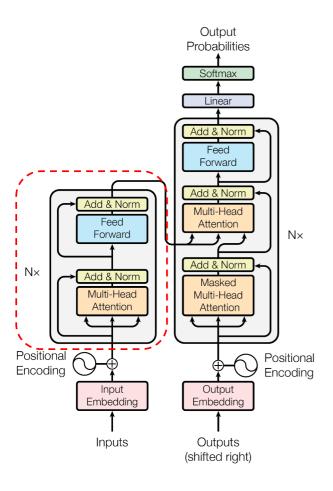


1.2 Positional Encoding – Properties

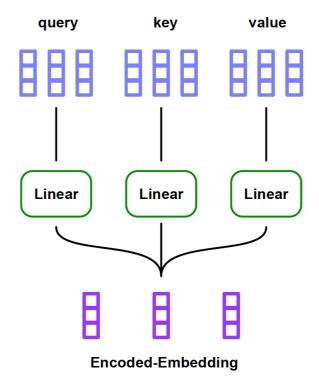
Property 1: The encoding $\vec{p}(t+\phi)$ can be represented as a time-independent linear transformation of $\vec{p}(t)$ for any offset ϕ

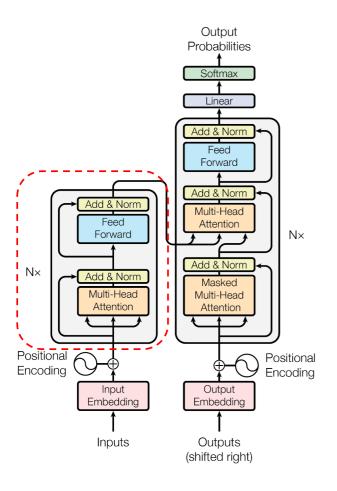
Property 2: Neighbouring time-steps' dotproducts are symmetrical and decay nicely with time





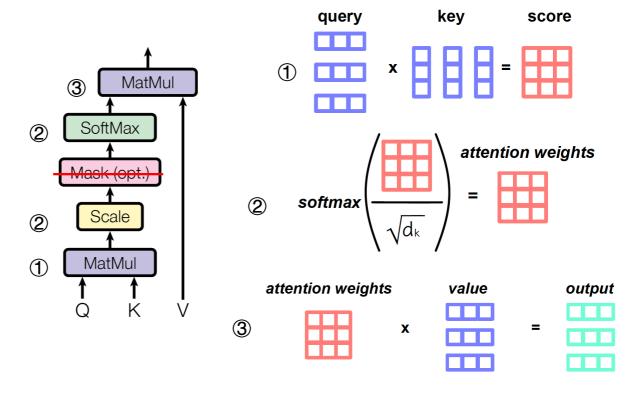
2.1 Creation of query/key/value vector

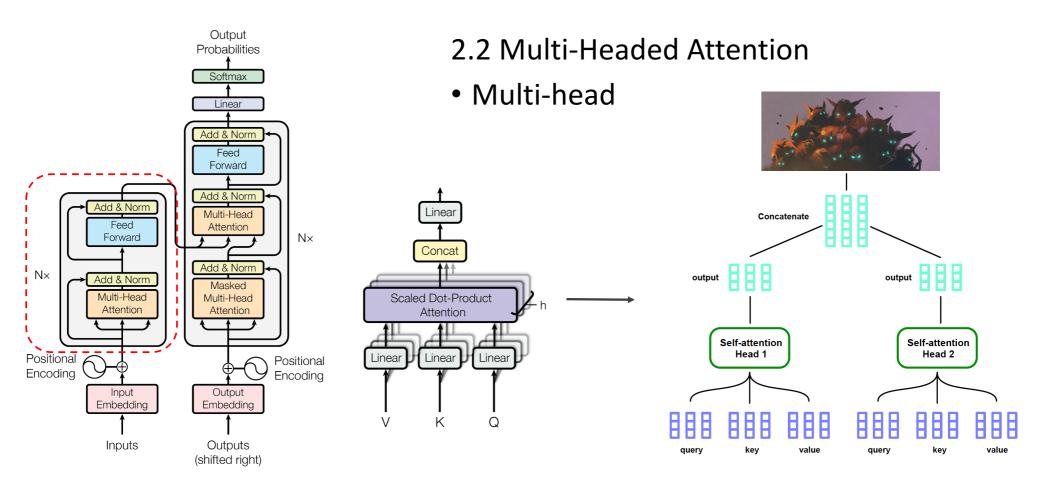


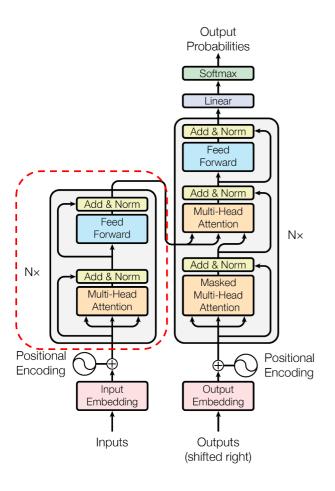


2.2 Multi-Headed Attention

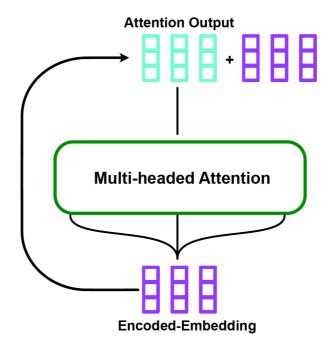
Self Attention

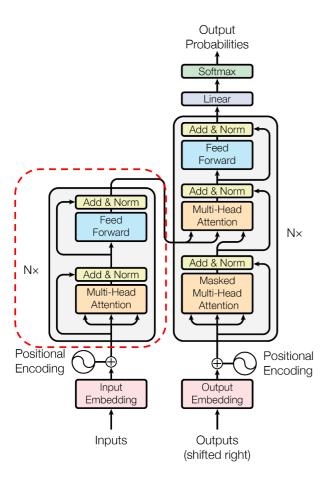




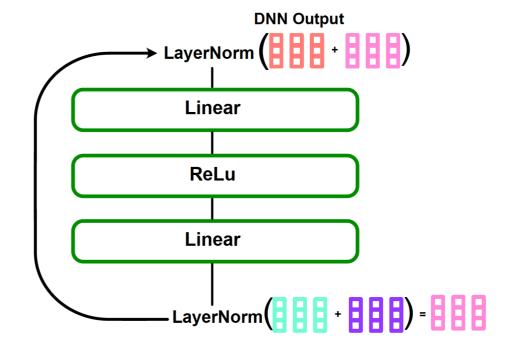


2.3 Residual Connection

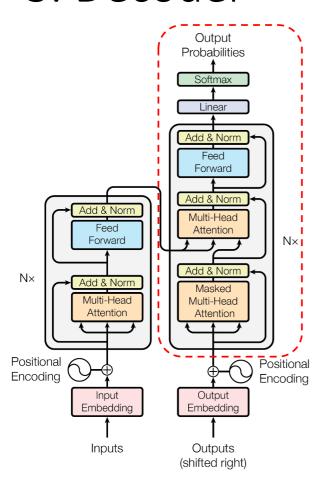




2.4 Layer Normalization & Feed-forward



3. Decoder



3.1 Masked Self-Attention

