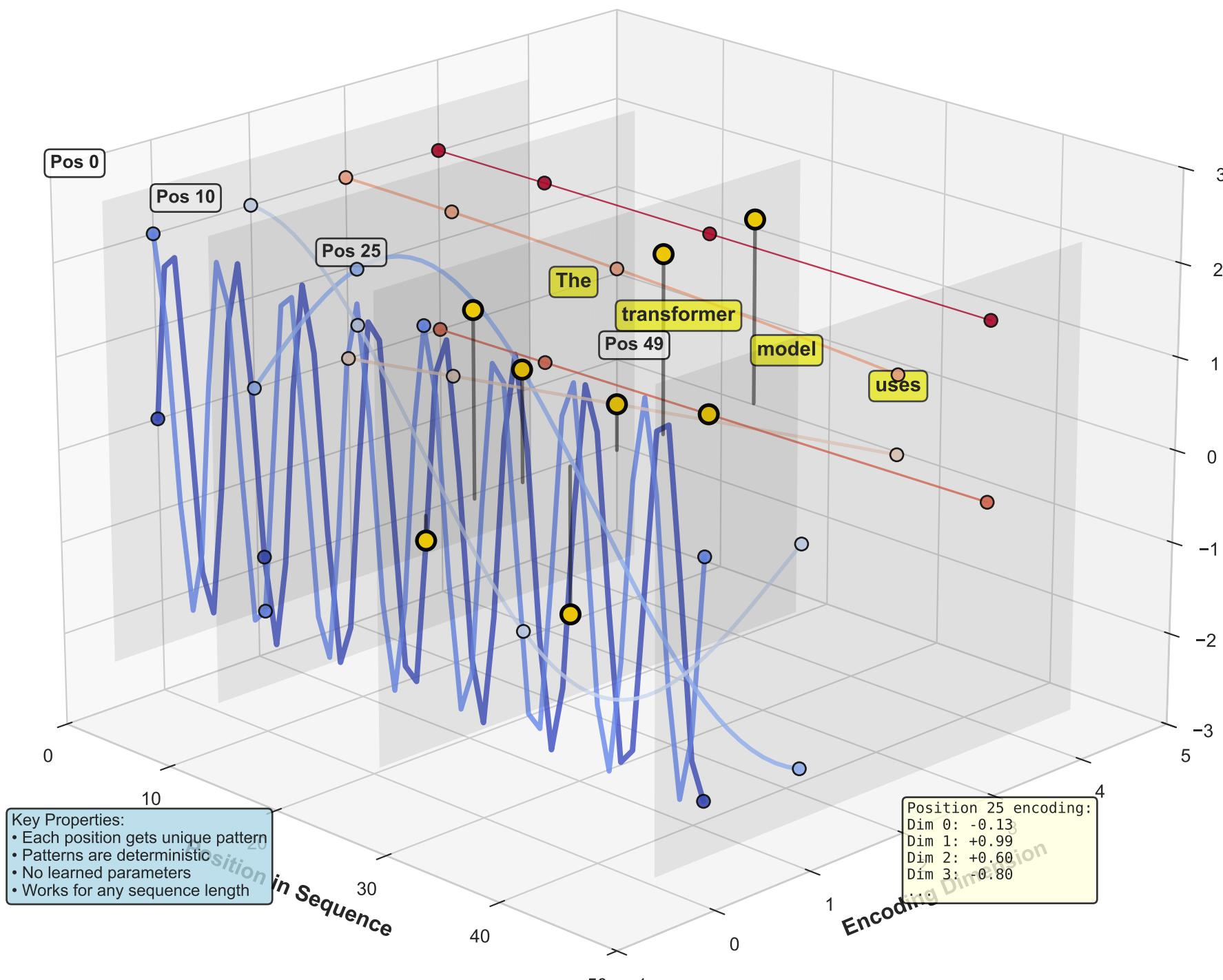


Positional Encoding: Unique Wave Patterns for Each Position

Low frequencies capture global position, High frequencies capture local patterns

Low frequency (global)
Medium frequency
High frequency (local)



Sine and cosine waves at different frequencies create a unique "fingerprint" for each position