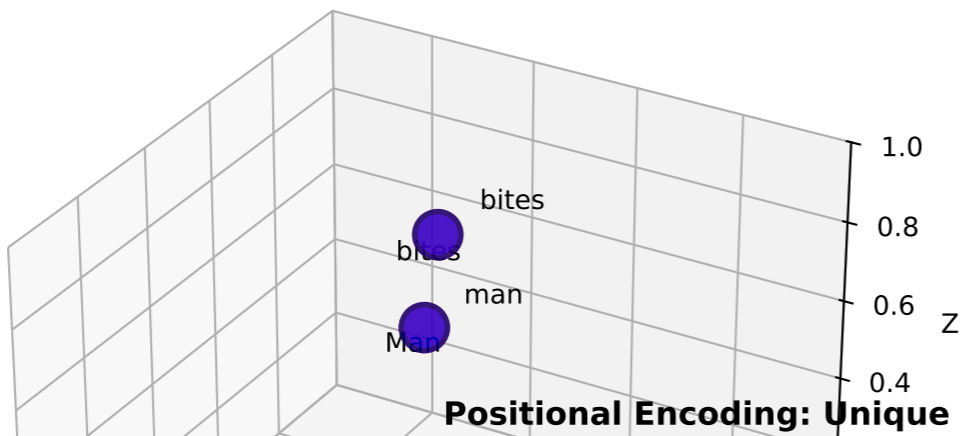


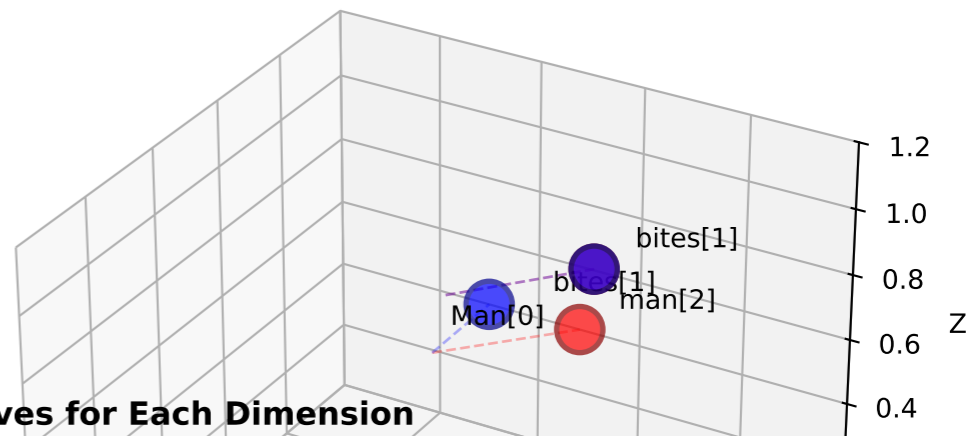
**Without Position: Same Words = Same Location**

**"Dog bites man" = "Man bites dog" ☐**



**With Position: Word + Position = Unique**

**"Dog[0] bites[1] man[2]" ≠ "Man[0] bites[1] dog[2]" ✓**



**Positional Encoding: Unique Sine/Cosine Waves for Each Dimension**

