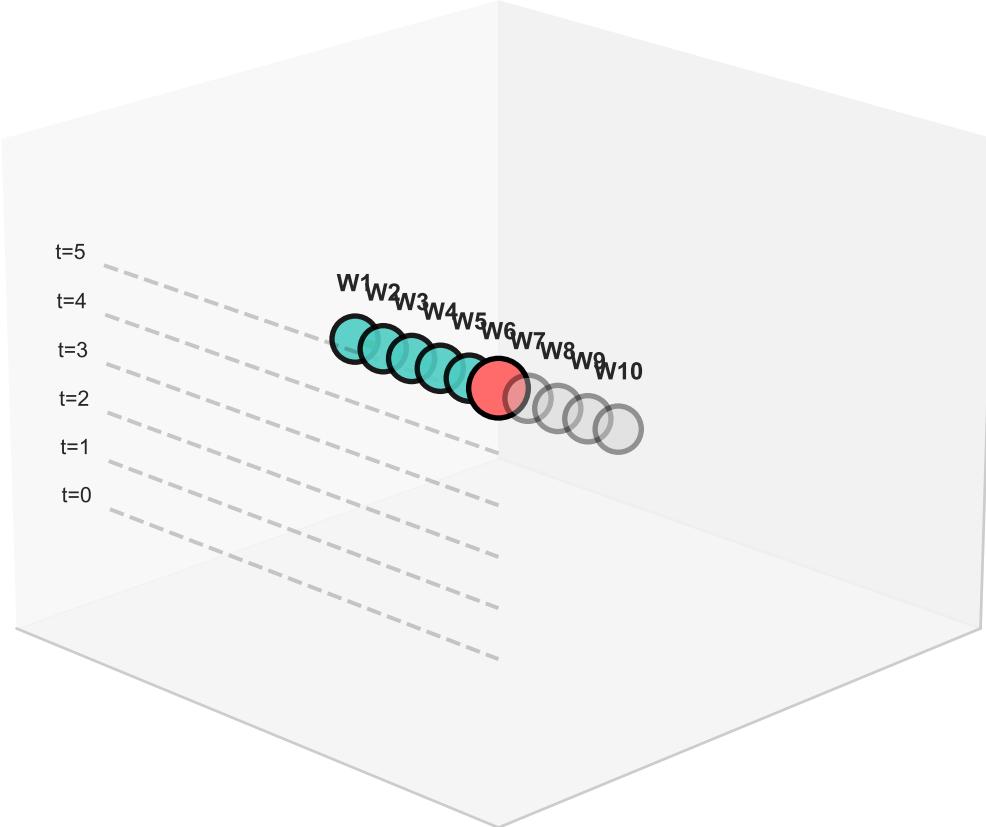
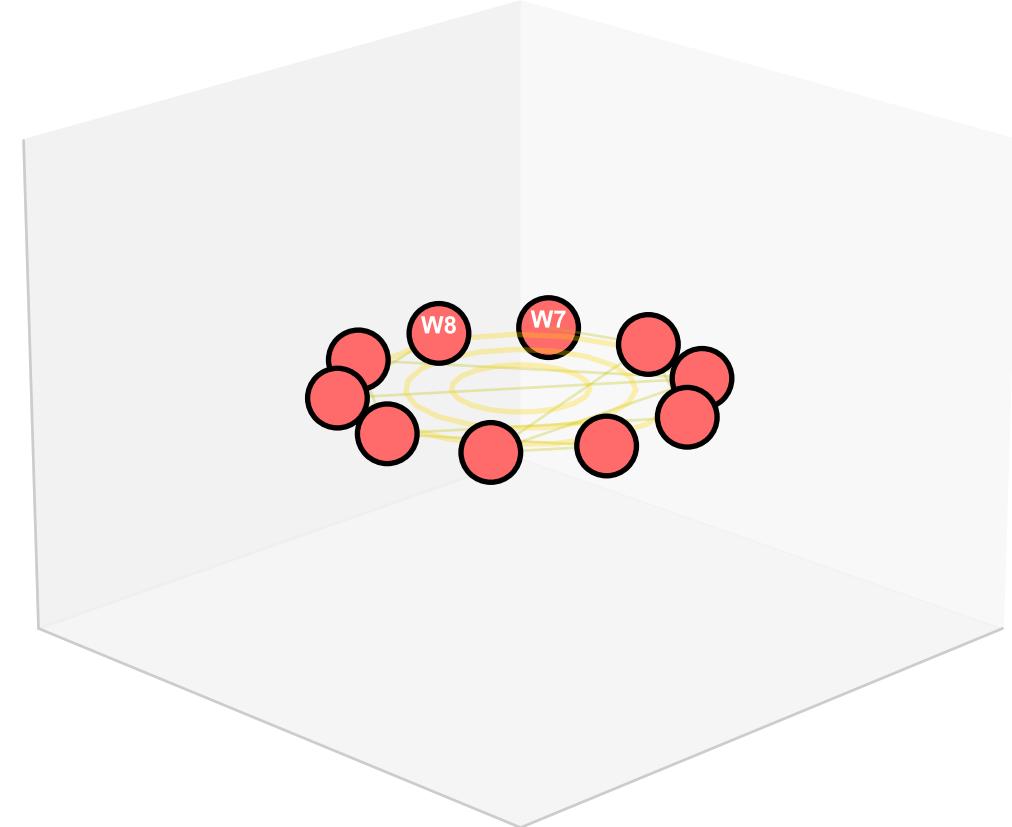


Processing Speed: Sequential vs Parallel

Sequential (RNN): One Word at a Time
Processing word 6 of 10 (Time step 6)



Parallel (Transformer): All Words at Once
Processing all 10 words simultaneously (Time step 1)



- Sequential (RNN):
 - 10 words = 10 time steps
 - 100 words = 100 time steps
 - GPU Utilization: ~5%
 - Training: 90 days

- Parallel (Transformer):
 - 10 words = 1 time step
 - 100 words = 1 time step
 - GPU Utilization: ~95%
 - Training: 1 day