

Video Data Characteristics



Spatial (Image)

+



Temporal (Sequence)

=



Video



High Dimensionality

Multiple frames per second



Motion Patterns

Object & camera motion



Temporal Redundancy

Similar consecutive frames



Frame Rate

24-60 fps typical for video



Resource Requirements

Massive storage & processing power

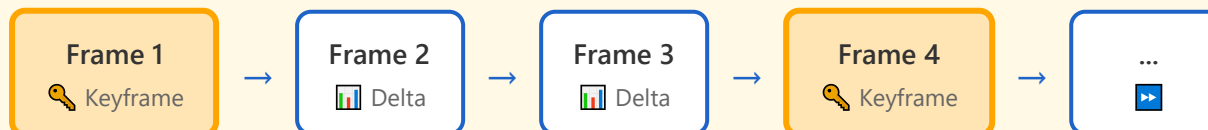


Optimization Strategy

Can be decomposed into keyframes for efficient processing



How Video is Composed



💡 **Key Concept:** Video = Sequence of frames where keyframes store complete information, and intermediate frames only store changes (deltas) from previous frames