

RNA Velocity

Spliced/Unspliced Ratio

Infer transcriptional dynamics from steady-state

Velocity Estimation

Predict future cell states

Dynamic Models

Account for transcription, splicing, degradation

scVelo Improvements

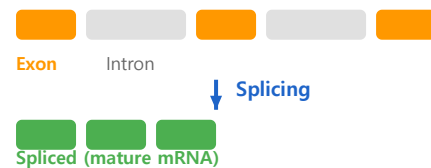
Dynamical model, latent time

Interpretation

Direction and magnitude of cell state changes

💡 RNA velocity adds temporal dimension to snapshots

Gene Transcription & Splicing



Unspliced vs Spliced



Velocity Field on UMAP

