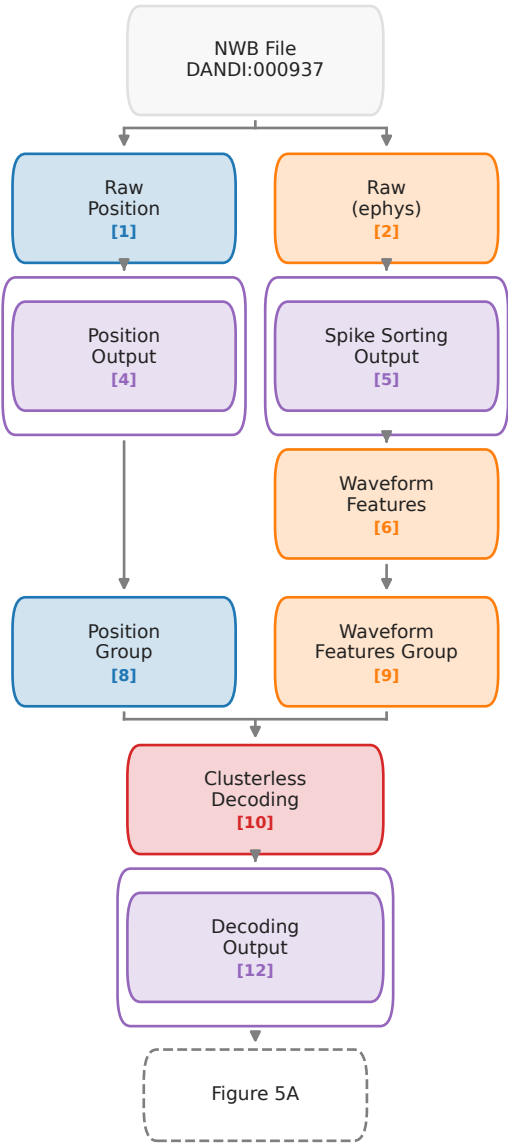


A

UCSF Dataset

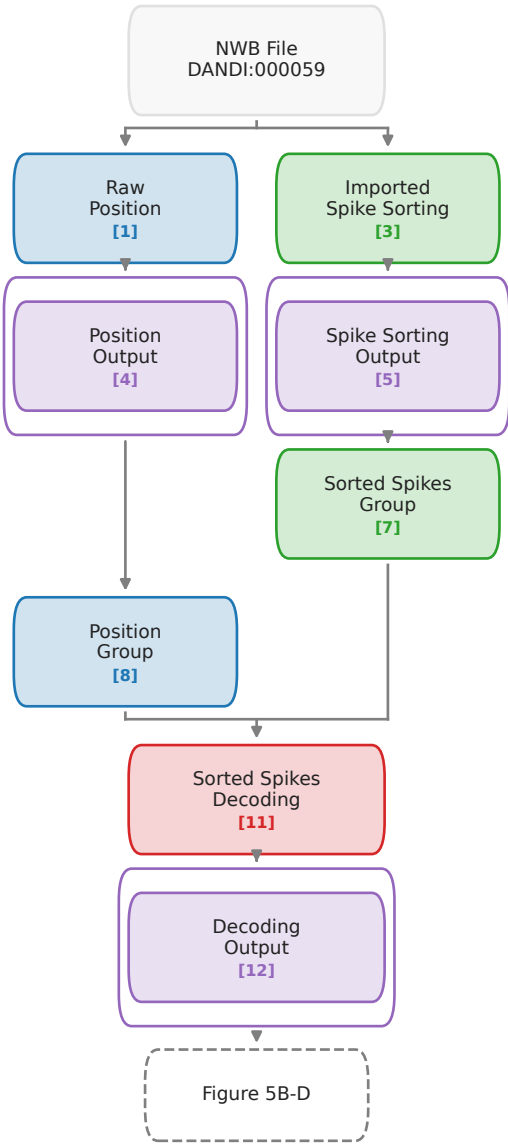
(Clusterless Decoding)



B

NYU Dataset

(Sorted Spikes Decoding)



Position processing Neural (clusterless) Neural (sorted) Decoding Merge table

Table Reference

Sources

- [1] TrodesPosV1 - Position processing
- [2] SpikeSortingRecording - Spike detection & sorting
- [3] ImportedSpikeSorting - Pre-sorted units from NWB

Aggregation (Merge Tables)

- [4] PositionOutput - Aggregates position sources
- [5] SpikeSortingOutput - Aggregates spike sorting sources
- [12] DecodingOutput - Aggregates decoding results

Feature Extraction & Grouping

- [6] UnitWaveformFeatures - Waveform amplitudes
- [7] SortedSpikesGroup - Group sorted units
- [8] PositionGroup - Group position data
- [9] UnitWaveformFeaturesGroup - Group waveform features

Analysis

- [10] ClusterlessDecodingV1 - Decode from waveform features
- [11] SortedSpikesDecodingV1 - Decode from sorted spikes