

Hypenet: Visualizing Dynamic Hypergraphs

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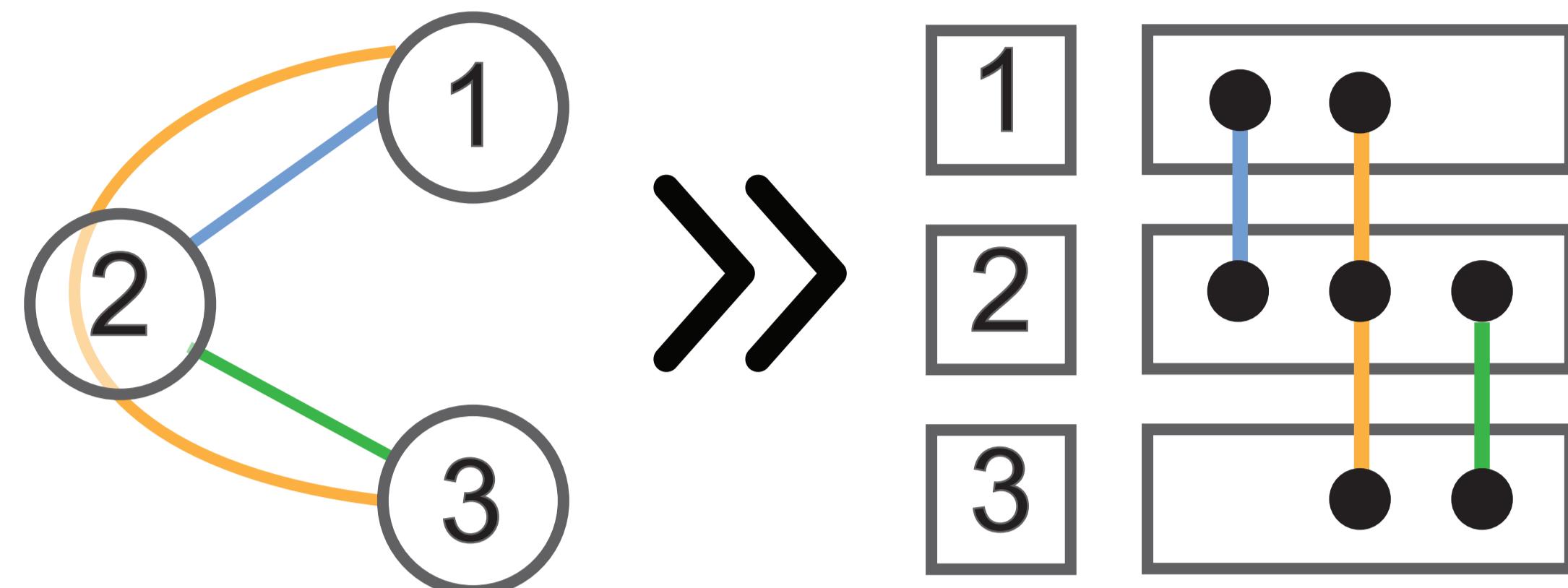
University of Bari Aldo Moro, Italy

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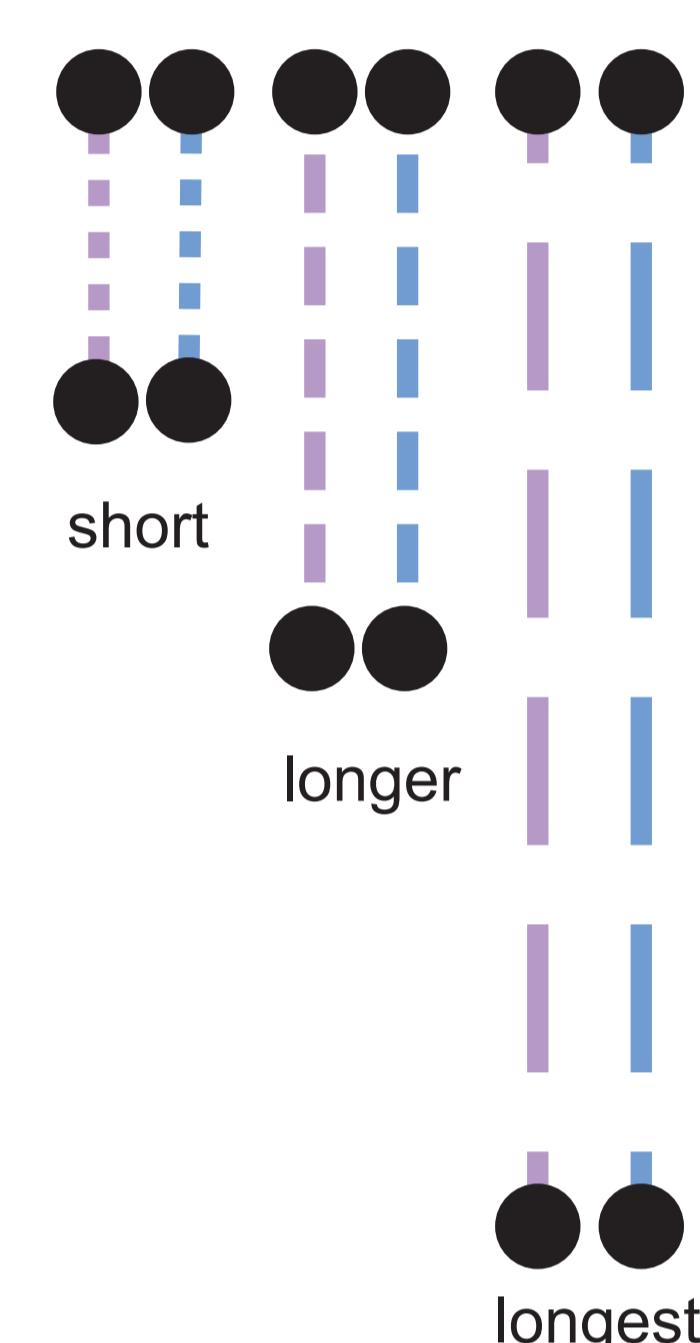
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Hypenet is a novel technique to visualize dynamic hypergraphs. Such structures can model multiple types of data, such as computer networks with multiple destination addresses (multicast) or co-authorship networks with multiple authors per article. Hypenet visualizes the evolving topology of the hypergraph in a compact way, allowing users to detect patterns and inconsistencies. We describe our technique and show how it applies to the case of the history of publications of the Eurovis conference, revealing interesting patterns that can contribute to tell a story about data and create hypotheses.

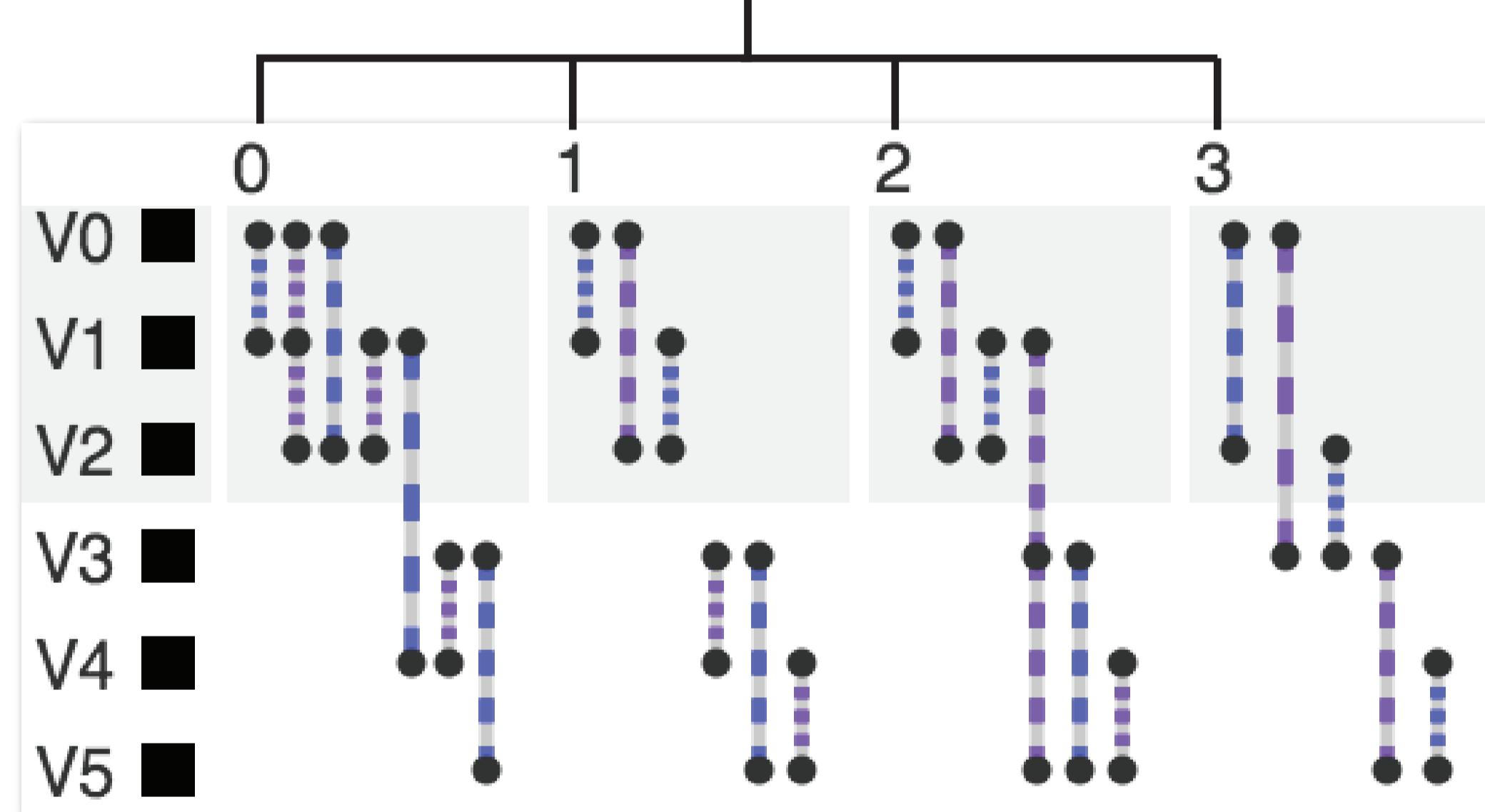


Tracking long lines

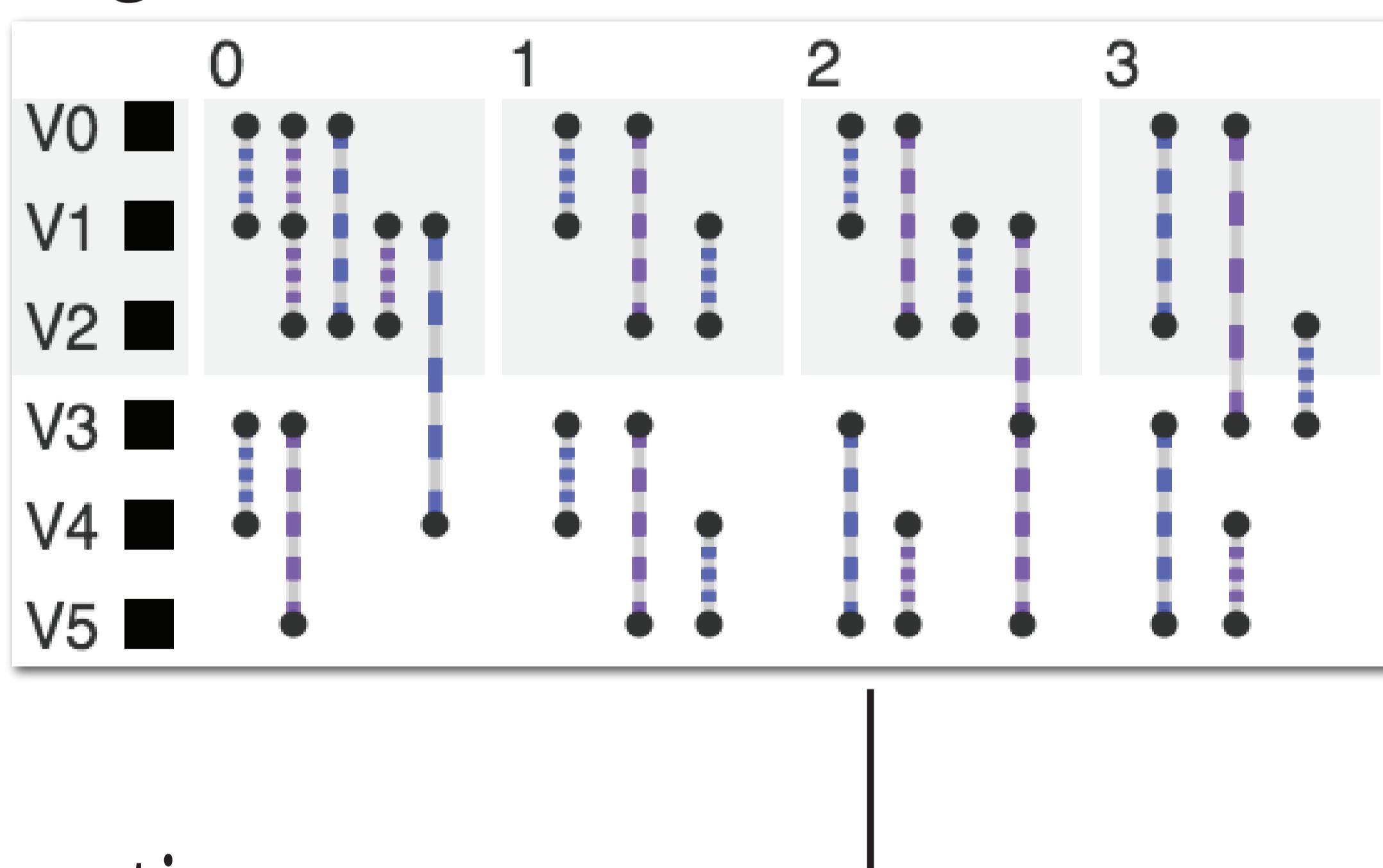


- dashed lines to help estimating hyperedges length, the longer the dash the longer is the edge
- alternating colors (i.e. purple and blue) prevent the sight from jumping to the neighbour edge in long scans

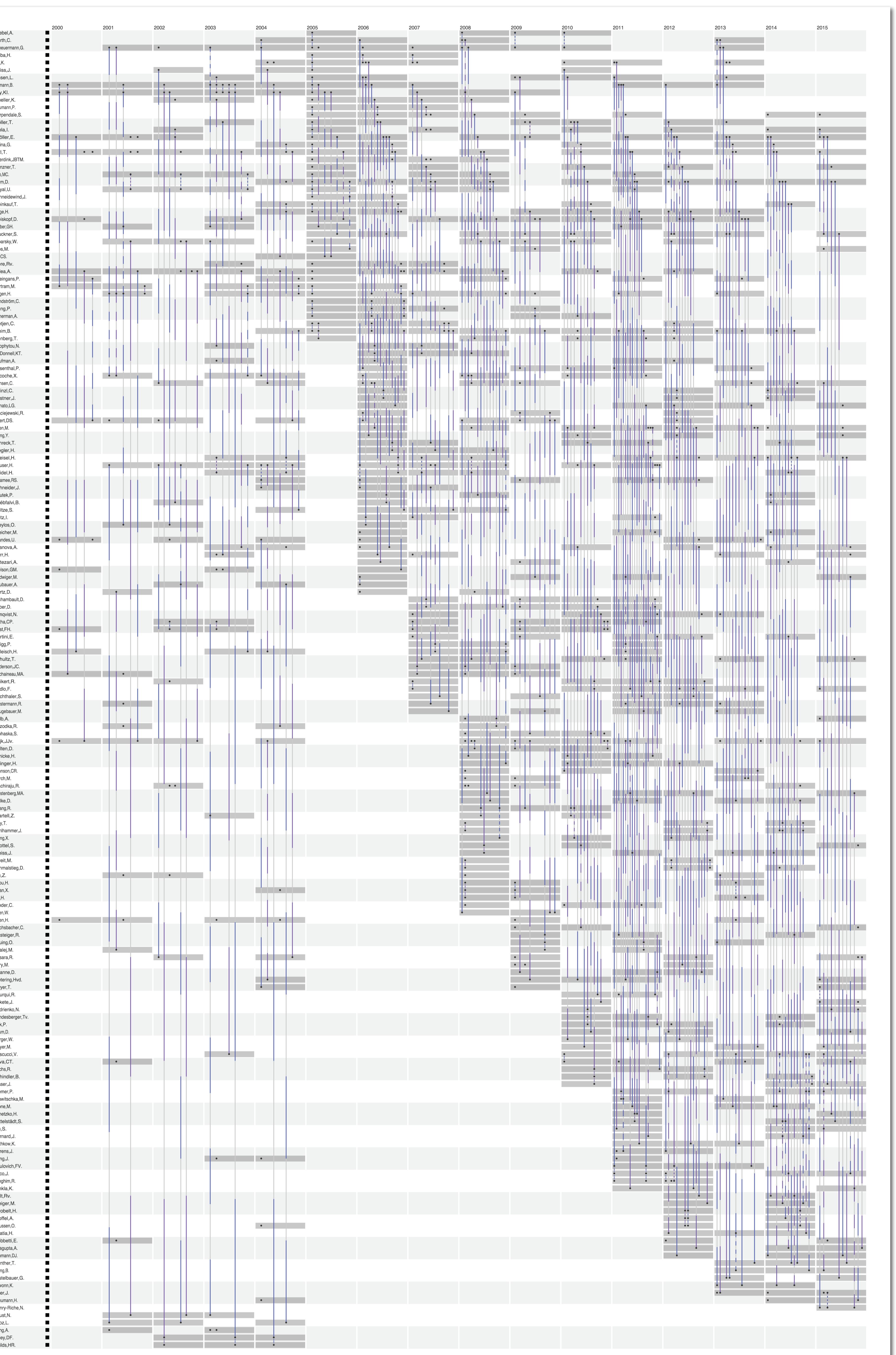
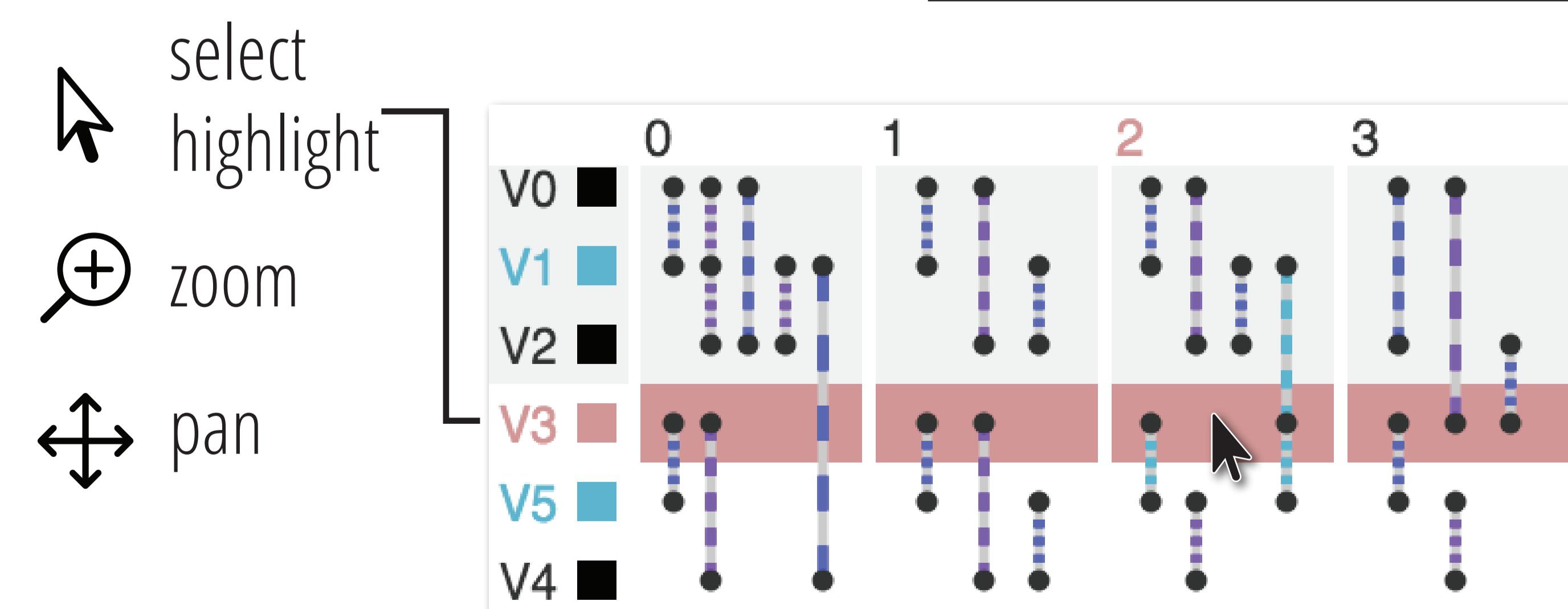
Time slots



Packing

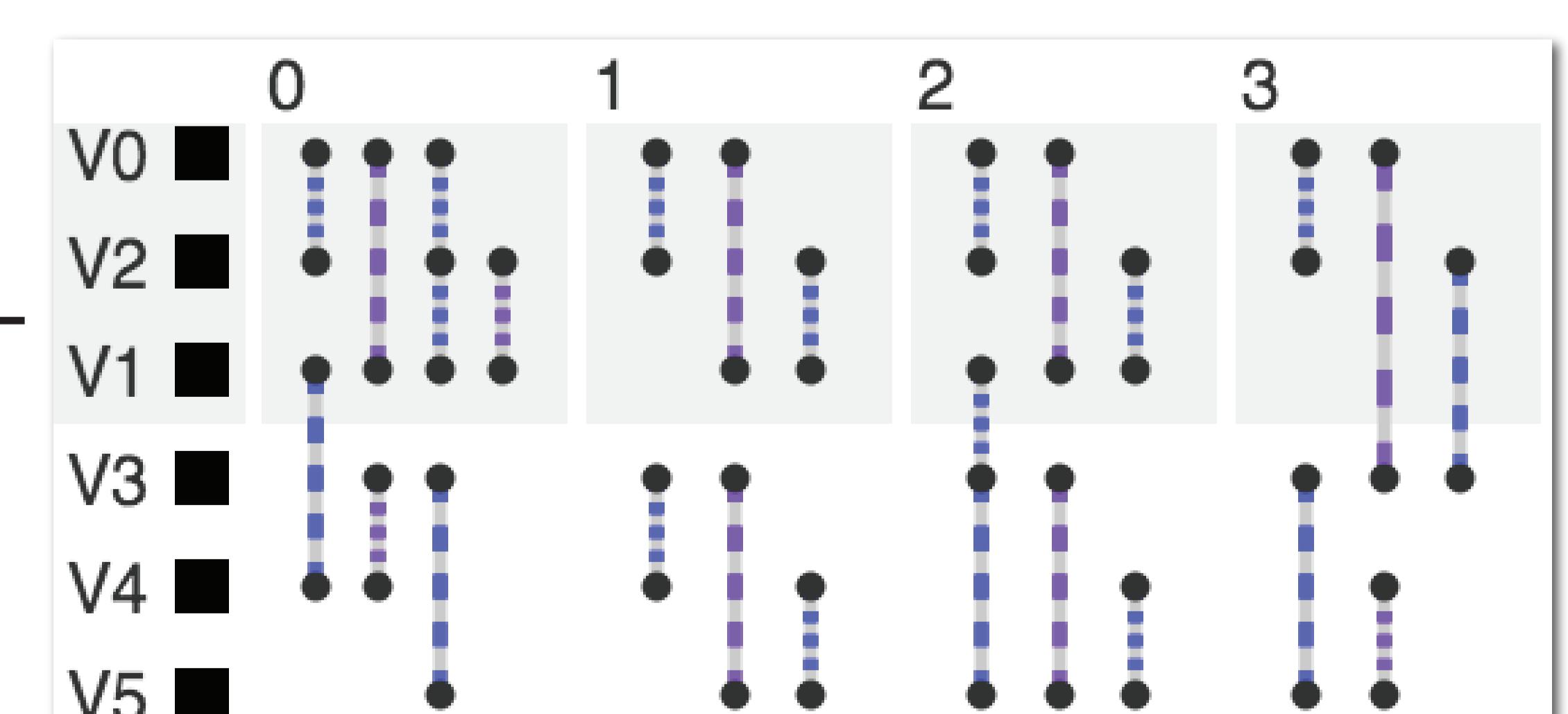


Interaction



Ordering

- original
- alphabetical
- degree
- optimal leaf
- barycentric



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