

# **University of Stuttgart**

Visualization Research Center (VISUS)

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Problem: Many tablature (tab) versions of a piece available

- Guitarist's choice depends on personal priorities:
- Correctness compared to original
- Difficulty, required techniques, learning goals

Idea: Comparative visualization

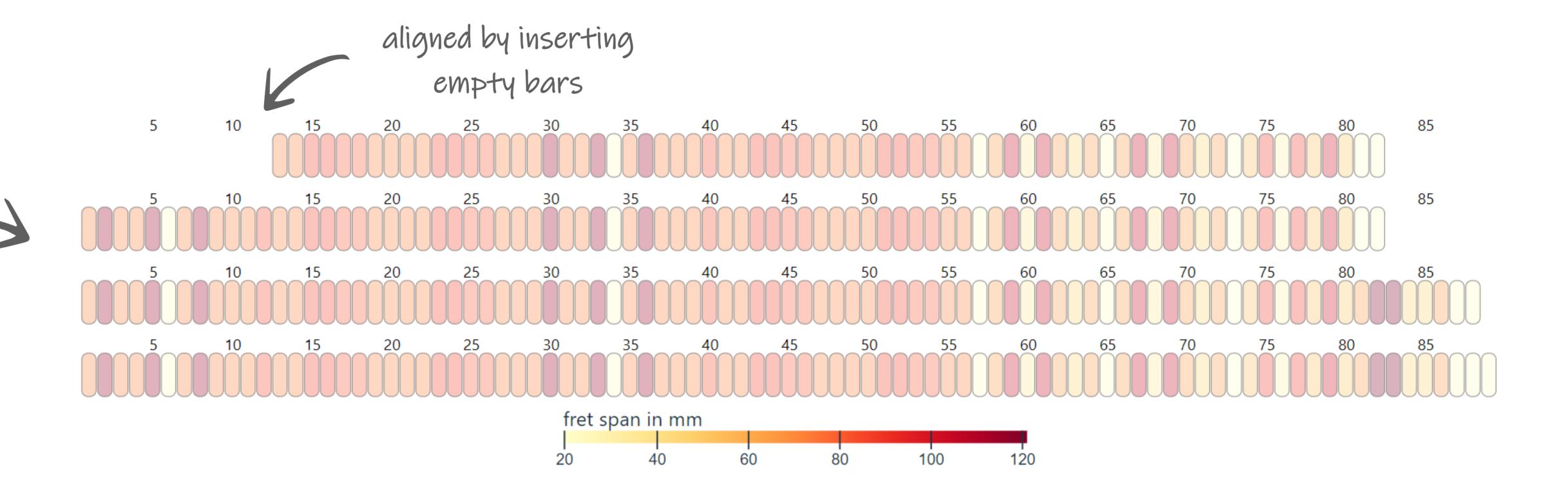
- Show all versions at once, one instrument each, single row, aligned
- Visualize characteristics/metrics per bar through color

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Mendoza,
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Visual
Guitar Tab
Comparison

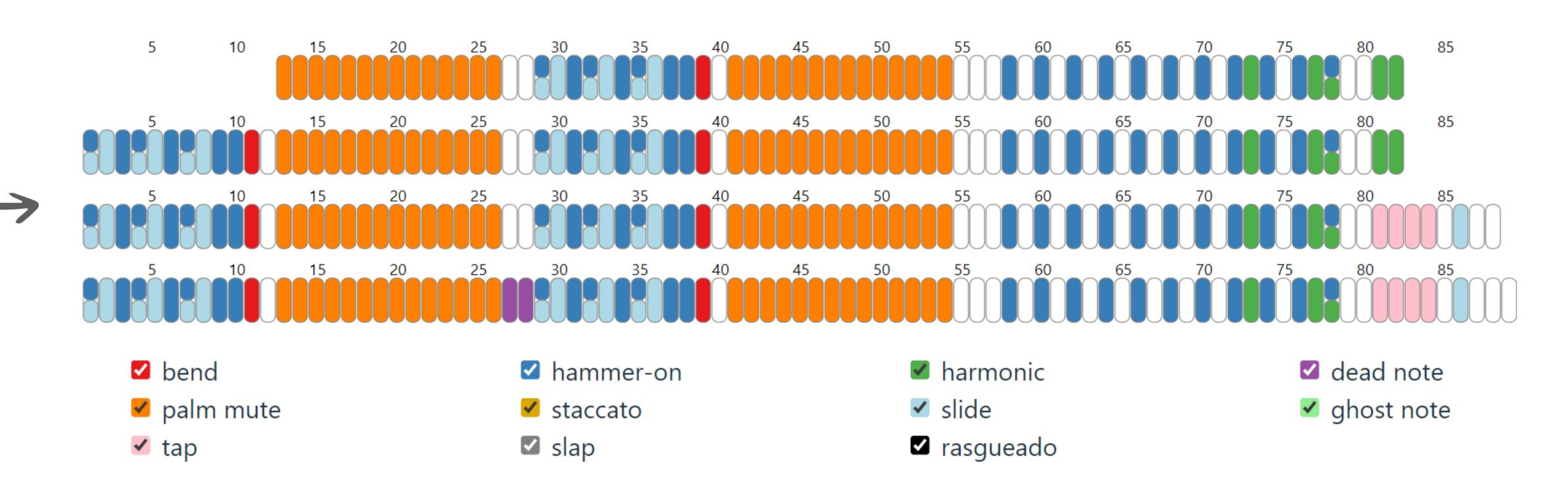
## Fret span

How much does the fretting hand move?
Smaller spans are easier for beginners.



### Playing techniques

Which techniques are used in each bar?
Choose a version depending on which techniques you want to learn or avoid.



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## **Bar similarity**

How similar are versions in different segments?
Allows seeing and comparing the structure.



## **Explicit differences**

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What has been edited between the current and older versions? Where are fine differences between alternative versions?

