

# Design and creation of a large-scale database of structural annotations

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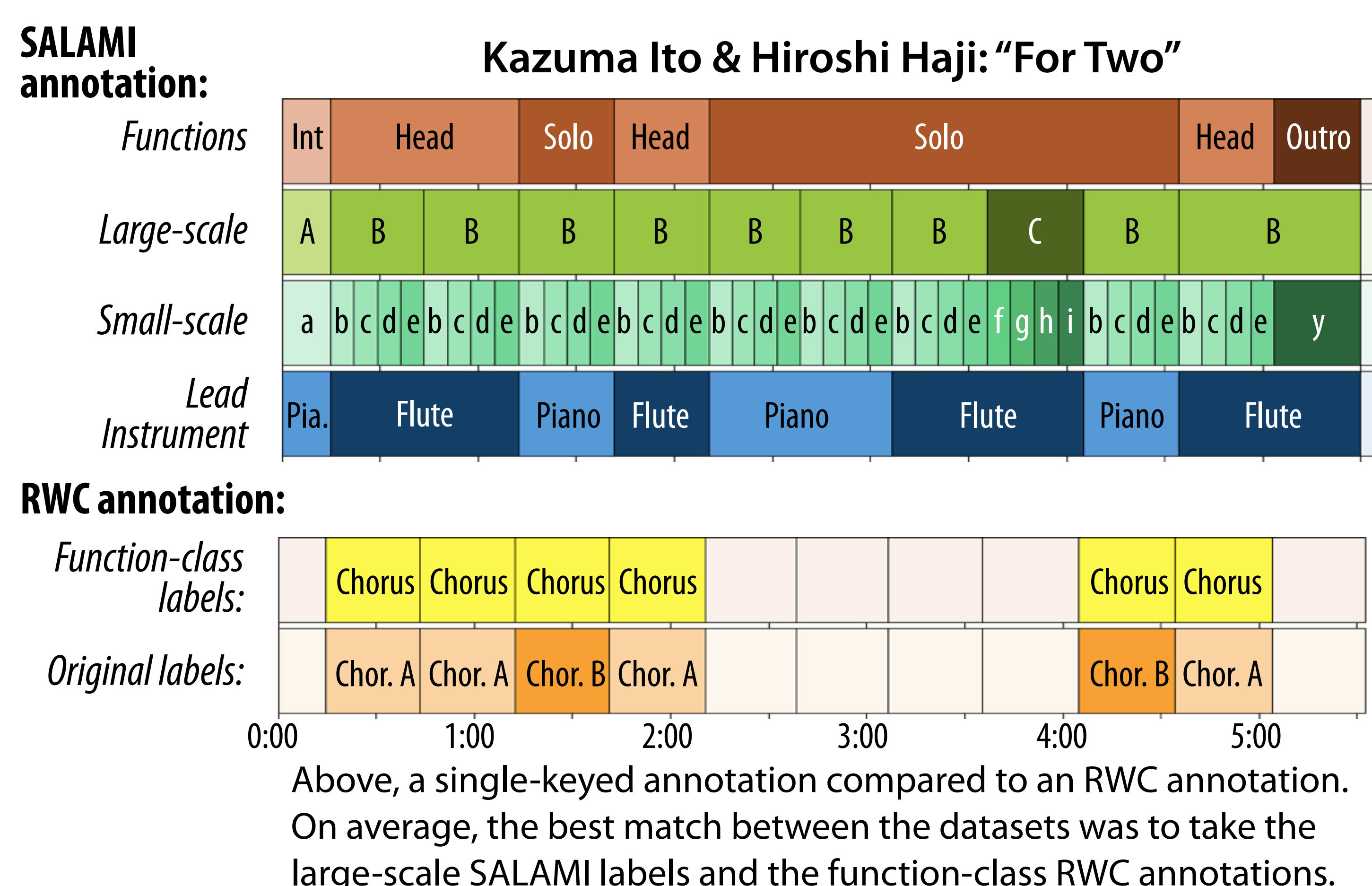
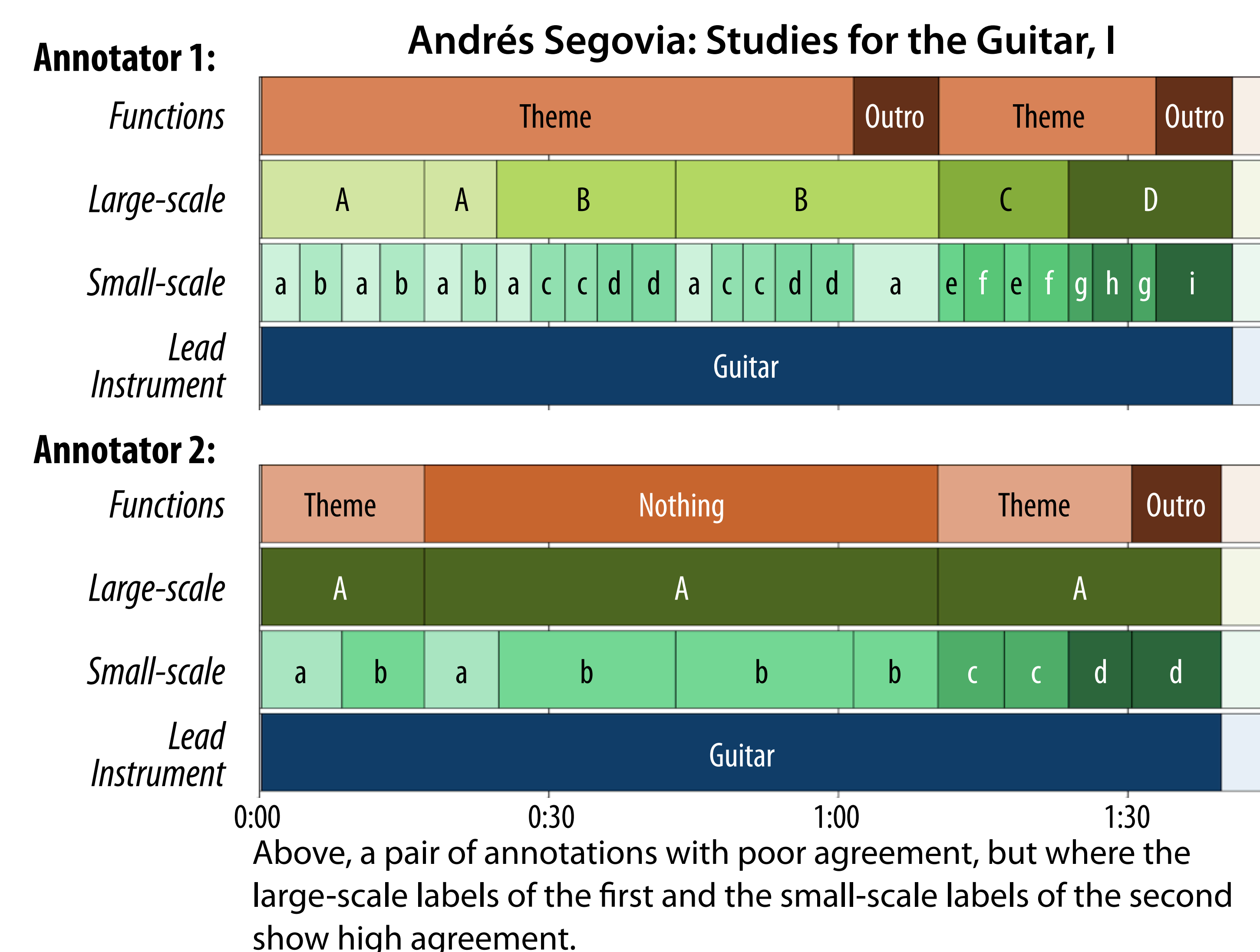
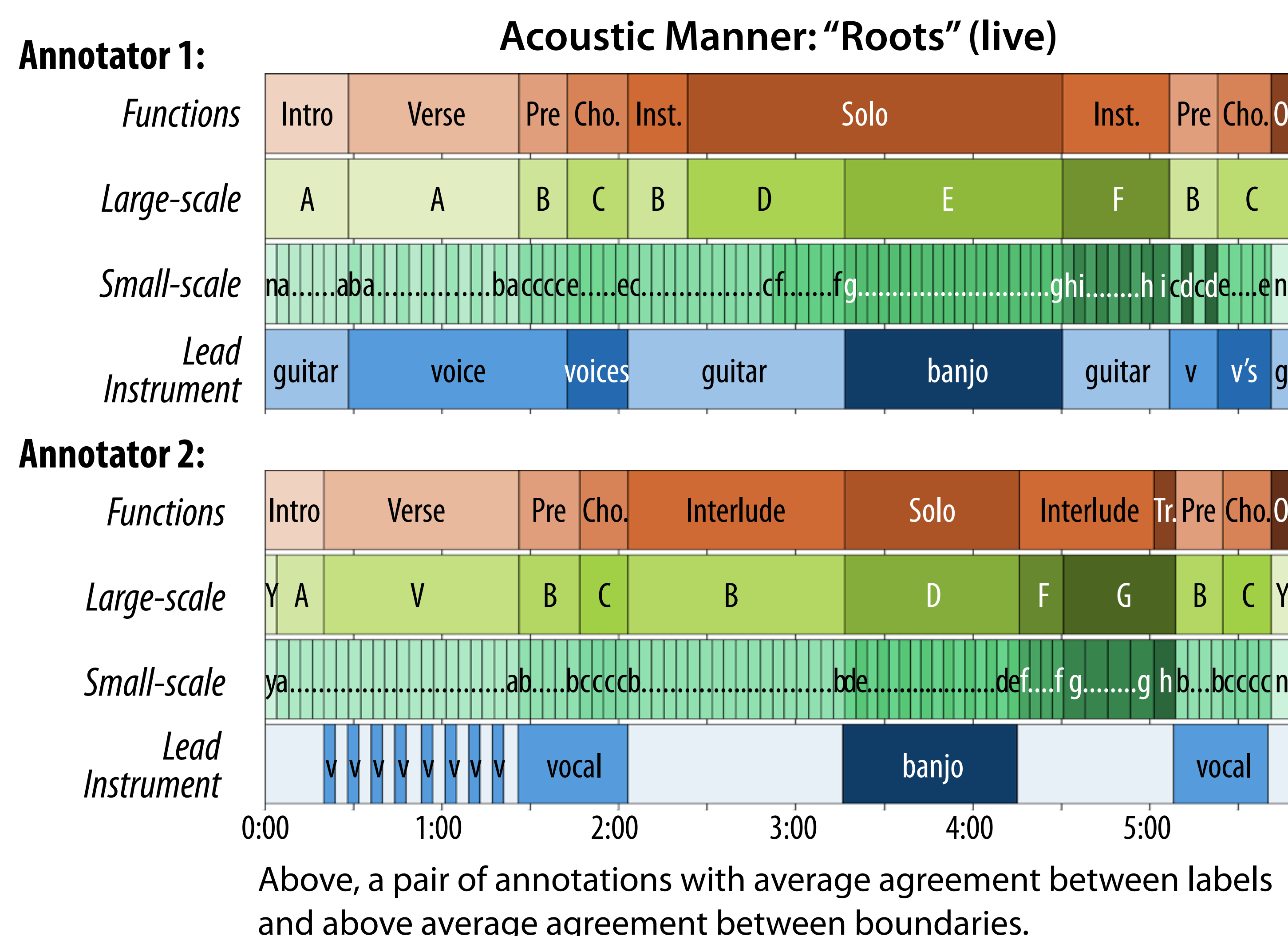
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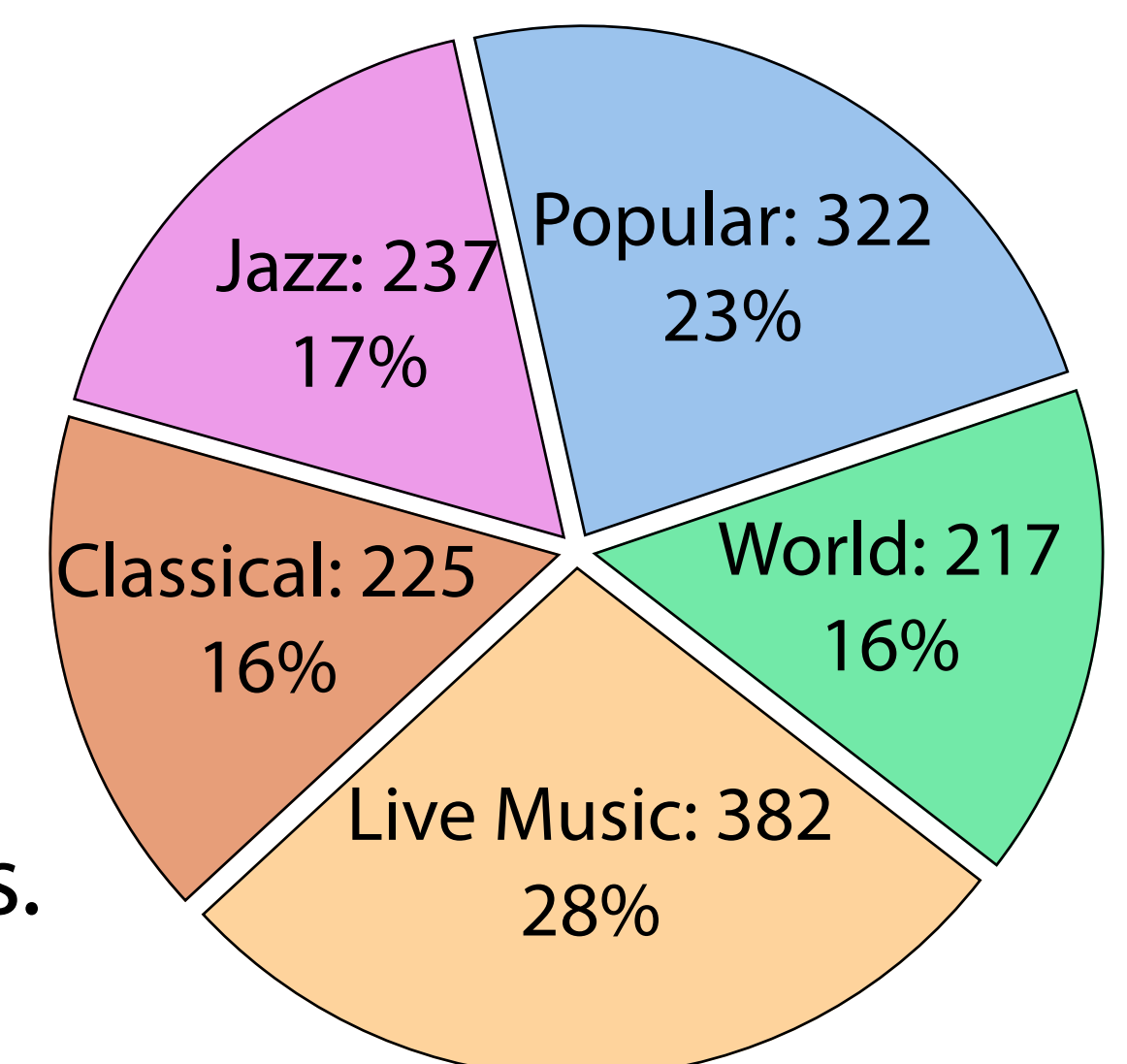


## Introducing the largest collection of music structure annotations ever.



### 1. The structural analysis dataset. Reinvented.

- Over 1000 double-keyed and 330 single-keyed annotations.
- Jazz, classical, popular, world music. We've got it all.
- Double-keyed annotations. Because no two people hear music the same way.
- It lets you do everything. Evaluate or train algorithms. Perform a large-scale musicological study.



### 2. An annotation format that is precise and rich in detail. Finally.

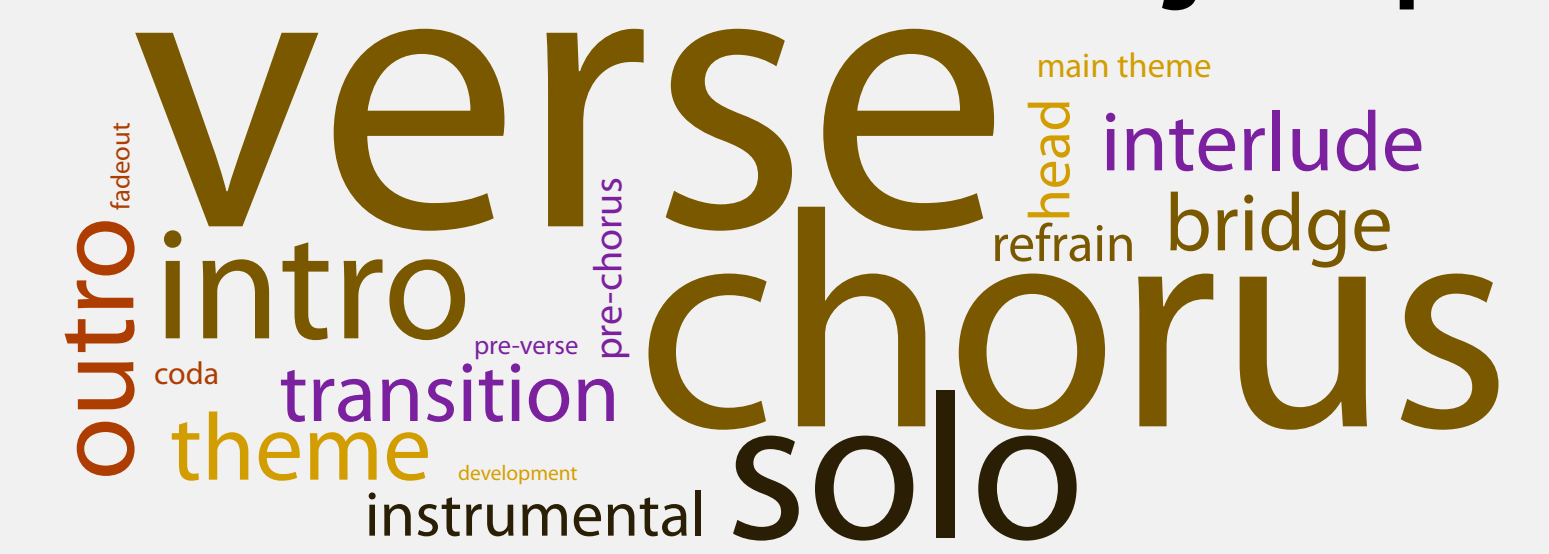
Musical similarity. Function. Instrumentation. All in separate layers. Inspired by Peeters and Deruty, "Is Music Structure Annotation Multi-Dimensional?" LSAS, 2009.

- Music similarity labels that are letters. Just like in music theory.
- Two levels of hierarchy. Because structure isn't one-dimensional.
- A limited list of function labels. Everything you need. Nothing you don't.
- Natural language instrument labels. Naturally.

**Average # of segments per annotation:**  
11.2 large, 38.4 small.

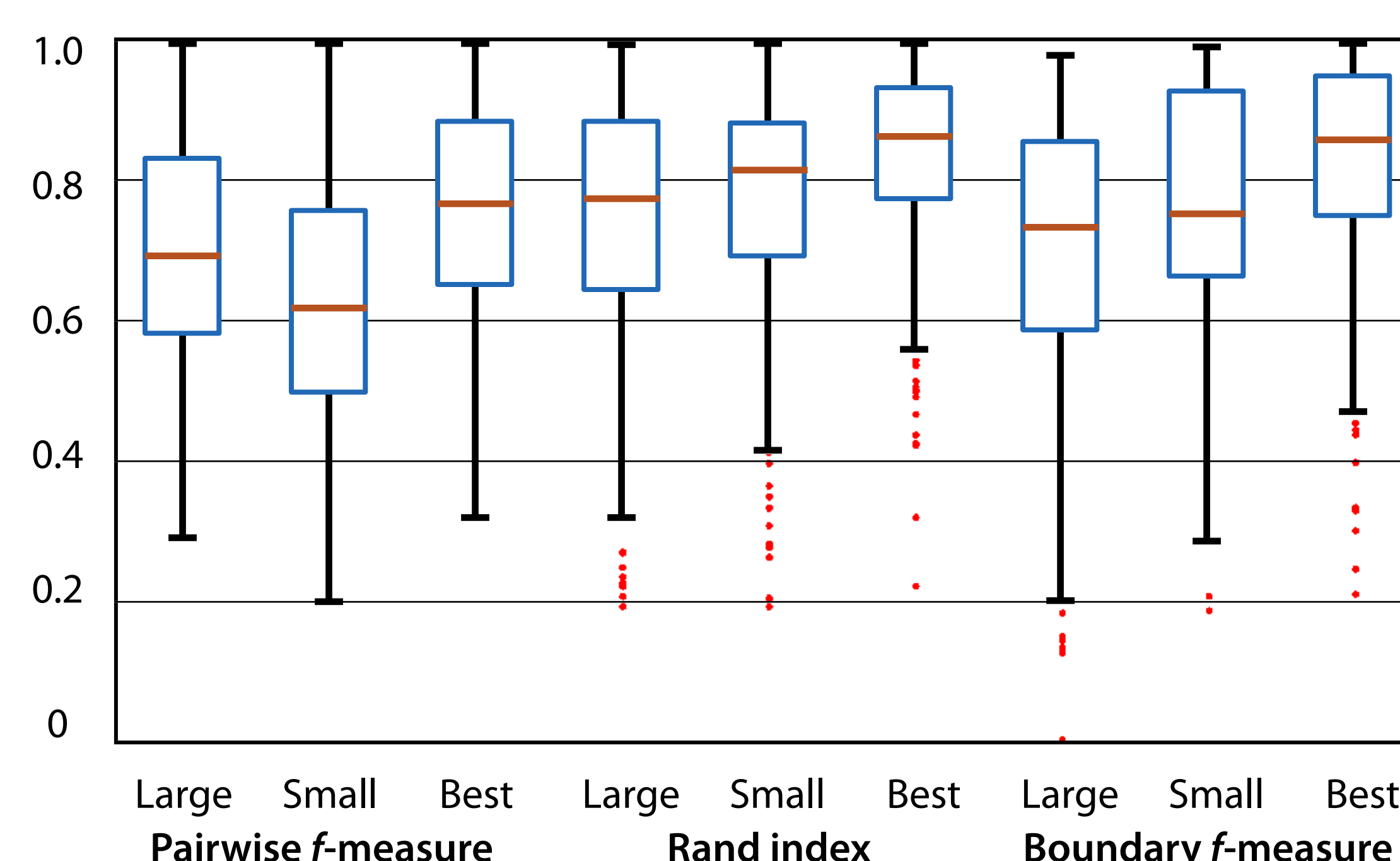
**Average # of unique segments per annotation:**  
4.0 large, 7.2 small, 4.8 functions.

**Word cloud of function label usage frequency:**



### 3. A procedure that works like magic.

- With just a little training, annotators completed most annotations in 20 minutes apiece. Boom.
- All annotators were pursuing graduate degrees in Music Theory, Composition, or Performance.
- With two annotations and two levels of hierarchy per piece, there are four ways to compare annotations. Go ahead. You can take the best match.



Box and whisker plot of average inter-annotator agreement between pairs of large-scale analyses, pairs of small-scale analyses, and the best alignment found between any pair (including one annotator's large and the other's small).

Everyone should have access to such a great database. And now everyone can. Make the switch to **SALAMI**. Learn more about the **Structural Analysis of Large Amounts of Musical Information** project at [salami.music.mcgill.ca](http://salami.music.mcgill.ca).



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