Melodic score analysis is awkward and time consuming task. Design a computer aided solution for showing a map of melodies, submelodies and figures with information on their frequency, length and melodical/rhythmical diversity.

**Goal**

LINEARISE the music score in Midi or MusicXml format to obtain individual voices; TRANSFORM subsequent note pairs to characters from the alphabet describing pitch difference and rhythmical ratio; GENERATE all string suffixes and put them into a suffix tree; EVALUATE all samples based on their length, frequency in the score and melodical/rhythmical diversity based on normalized entropy between the notes in the melody. ⇒ IDENTIFY AND REPORT the most significant samples.

**Approach**

- Quality of the main theme detection tested on J. S. Bach’s WTK Fugues.
- 19 out of 48 fugues had the main theme in the top ten most significant melodies (this greatly helps the user as there was an average of 483 melodies per fugue).
- Approach integrated into Harmonia music suite (harmoniamusic.sf.net) and Canorus score editor (canorus.org).

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