LearnMusic Theory. net 6.12 Interval Vectors

Basic Definitions

An *interval class* refers to the number of half steps in an interval.

If the interval is larger than an octave (i.e., a compound interval), reduce it to a simple interval (<octave). If the interval is larger than 6 half steps (tritone), invert it at the octave.

Enharmonic spellings are not a consideration here, only the number of half steps. An *interval vector* is a catalog of the interval classes present in a given sonority.

Interval class 0 (Not included in vector) 0 or 12 half steps
Interval class 1 Interval class 2 1 or 11 half steps
Interval class 2 2 or 10 half steps
Interval class 3 3 or 9 half steps
Interval class 4 4 or 8 half steps
Interval class 5 5 or 7 half steps
Interval class 6 6 half steps
Interval class 6

Sample interval vector example





Adding up, we have $\underline{1}$ interval class 1, $\underline{2}$ interval class 2 intervals, $\underline{2}$ interval class 3 intervals, $\underline{1}$ interval class 4 interval, $\underline{3}$ interval class 5 intervals, and $\underline{1}$ interval class 6 interval.

So the interval vector for the given sonority is [122131].

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