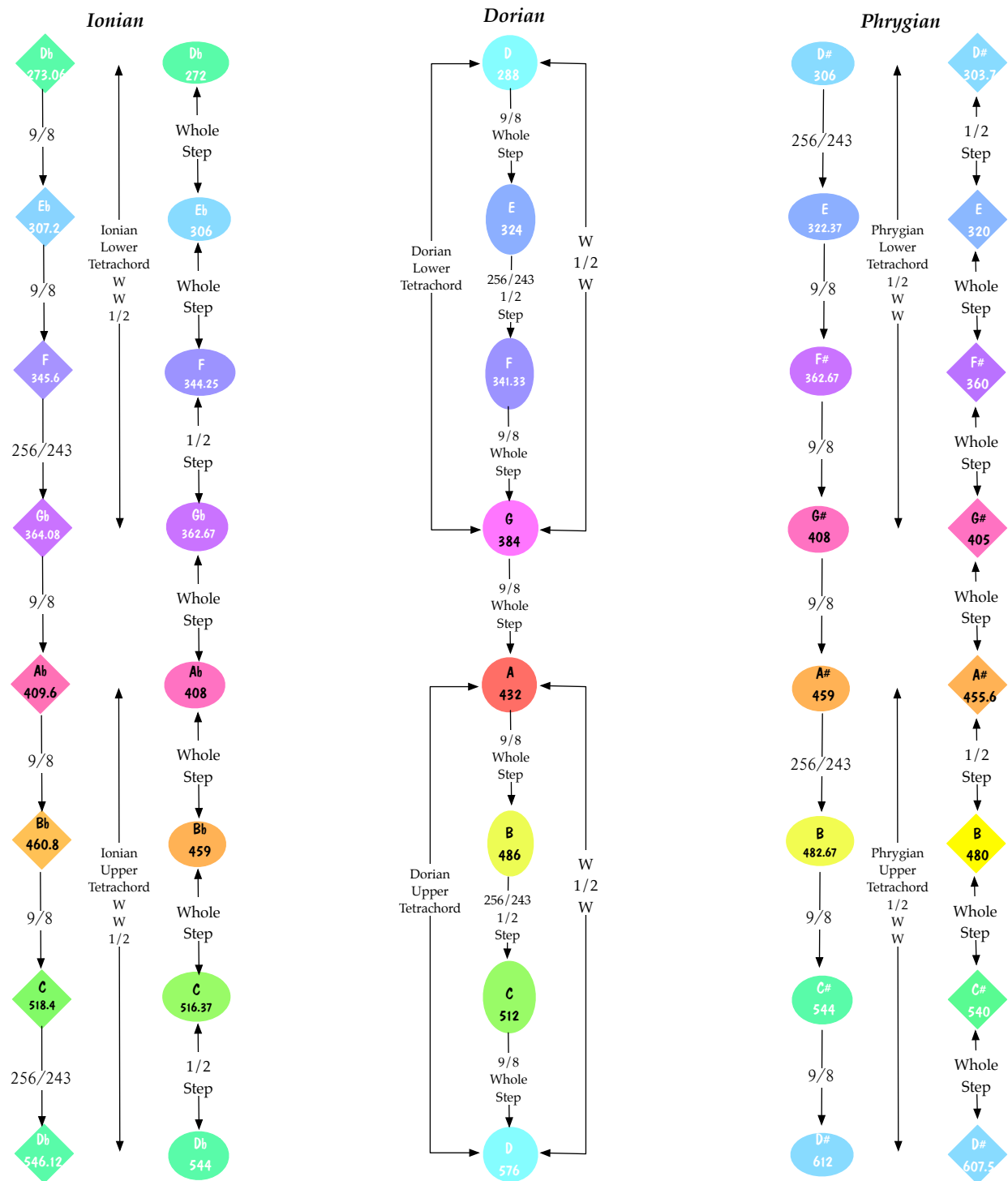


*The Pattern of Whole and Half Steps in the Three Modes Where the Pattern is the Same in both the Lower and Upper Tetrachord*



Each vertical spine is a stepwise arrangement of perfect fifths. Each has a different pattern of half steps and whole steps.

(The center spine grows from Arithmetic and Harmonic Means of D.)

The pattern of the center spine is totally balanced with W - H - W (W) W - H - W. In current modal theory, this pattern is called the Dorian mode.

The pattern of the left spines has a sequence of W - W - H (W) W - W - H. In current modal theory, this pattern is called the Ionian mode.

The pattern of the right spines has a sequence of H - W - W (W) H - W - W. In current modal theory, this pattern is called the Phrygian mode.

Looking horizontally, the only time that whole steps occur in all five spines is between Gb and Ab, between G and A, and between G# and A#.

Mathematically, in terms of pattern, these are the only three possibilities where the pattern of whole and half steps is the same in both the lower and upper tetrachords.