

Heptatonic Modes Matrix

	major	harmonic minor, jazz minor	melodic minor	harmonic major	double harmonic major	Neapolitan minor	Neapolitan major	Enigmatic (ascending)
intervals (semitones)->	(2,2,1,2,2,2,1)	(2,1,2,2,1,3,1)	(2,1,2,2,2,2,1)	(2,2,1,2,1,3,1)	(1,3,1,2,1,3,1)	(1,2,2,2,1,3,1)	(1,2,2,2,2,2,1)	(1,3,2,2,2,1,1)
1st mode	Ionian	harmonic minor, jazz minor	melodic minor	harmonic major	double harmonic major, Mayamalavagowla, Bhairav Raga, Byzantine scale, Arabic (Hijaz Kar), and Gypsy major	Neapolitan Minor	Neapolitan Major	
2nd mode	Dorian	Locrian natural 6	Dorian ♭ 9	Dorian ♭ 5	Lydian #2 #6	Lydian #6	Leading Whole Tone (or Lydian Augmented #6)	
3rd mode	Phrygian	Ionian #5	Lydian augmented	Phrygian ♭ 4	ultraphrygian	Mixolydian Augmented	Lydian Augmented Dominant	
4th mode	Lydian	Dorian #11, Dorian #4, Romanian minor, Ukrainian Dorian, Jewish	Lydian dominant, acoustic, Lydian ♭ 7, Mixolydian #11, overtone	Lydian ♭ 3	Hungarian/Gypsy minor	Lydian minor, Romani Minor (or Aeolian/Natural Minor #4)	Lydian Dominant ♭ 6	
5th mode	Mixolydian	Phrygian dominant, Spanish Phrygian, Phrygian major, gypsy, Mixolydian ♭ 9 ♭ 13	Mixolydian ♭ 13	Mixolydian ♭ 2, Sarasongi	Oriental	Locrian Dominant	major Locrian	
6th mode	Aeolian	Lydian #2	Locrian #2, Locrian natural 2	Lydian Augmented #2	Ionian #2 #5	Ionian #2	Half-Diminished ♭ 4 (or Superlocrian/Altered Dominant #2)	
7th mode	Locrian	super Locrian ♭ ♭ 7, Ultralocrian	super Locrian, altered dominant, Locrian ♭ 4, Ravel, Pomeroy, diminished-whole tone	Locrian ♭ ♭ 7	Locrian ♭ ♭ 3 ♭ ♭ 7	Ultralocrian ♭ ♭ 3	Superlocrian/Altered Dominant ♭ ♭ 3	