

SYMPATHETIC RESONANCE MAP 6, 8,10 STRING GUITARS

shown for 1 octave (12 semitones) on 1st string

Resonances considered for ~2x - ~9x fundamental. Others do exist but are generally weaker.

😊 = good resonance on this string

✗ = no or limited resonance for this note

◆ = weak resonance

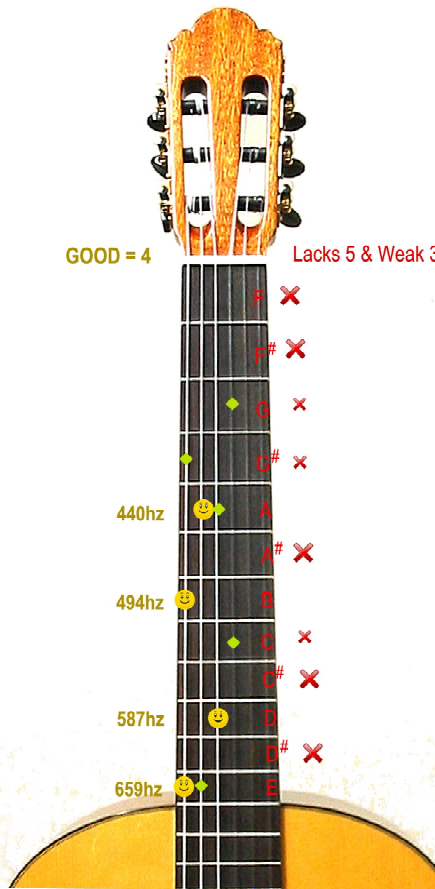
! = strong multiple resonances

GOOD IDEA?? if one tunes 8 to A# then you get 2 extra symp resonances at F and A#. Easy transition to 10 string?

6 STR
std tuning

GOOD = 4

Lacks 5 & Weak 3



6 5 4 3 2 1 String no.

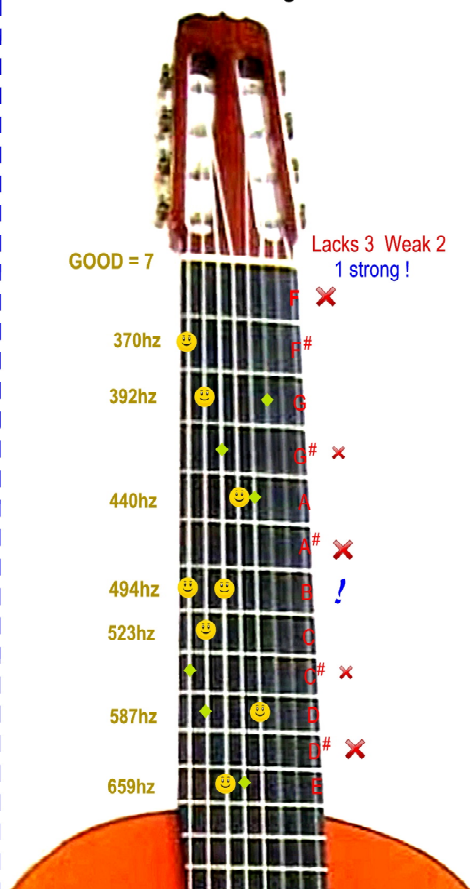
E A D G B E Open Note

82 110 147 196 247 330 Freq ~hz

8 STR
B C tuning

GOOD = 7

Lacks 3 Weak 2
1 strong !



8 7 6 5 4 3 2 1 String no.

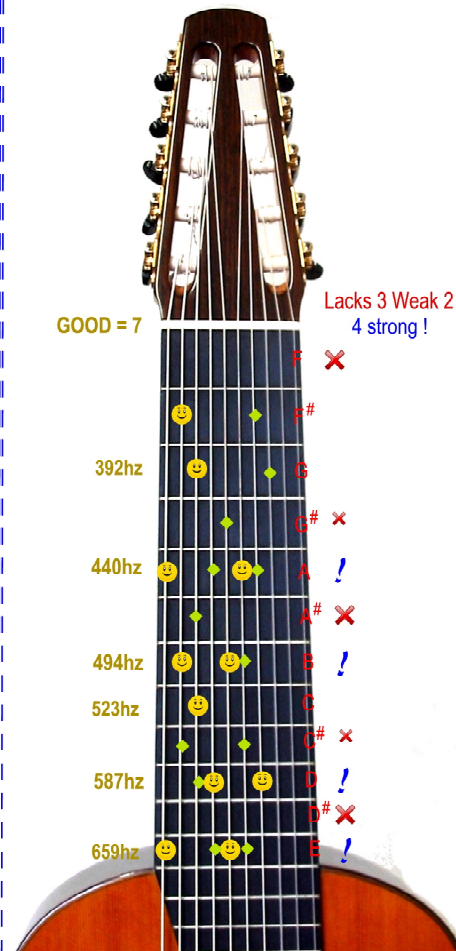
B C E A D G B E Open Note

62 65 82 110 147 196 247 330 Freq ~hz

10 STR
baroque tuning

GOOD = 7

Lacks 3 Weak 2
4 strong !



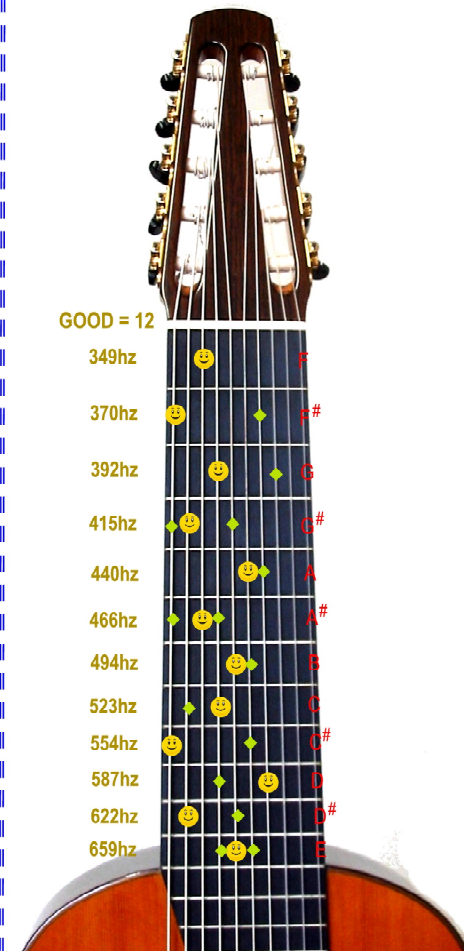
10 9 8 7 6 5 4 3 2 1 String no.

A B C D E A D G B E Open Note

55 62 65 73 82 110 147 196 247 330 Freq ~hz

10 STR
modern tuning

GOOD = 12



10 9 8 7 6 5 4 3 2 1 String no.

F# G# A# C E A D G B E Open Note

92 104 117 65 82 110 147 196 247 330 Freq ~hz

← Re-entrant tuning notes go back "up"