Tuning Presets in the Sequential Prophet X Compiled by Robert Rich, September 2018 Comments for tunings 17-65 derived from the Scala library. Many thanks to Max Magic Microtuner for conversion assistance.

R. Rich Notes: All of the presets except for #1 (12 Tone Equal Temperament) can be over-written by sending a tuning in the MTS format (Midi Tuning Standard.) The presets #2-17 match the Prophet 12, P6 and OB6, and began as a selection I made for the Synthesis Technology MOTM 650 Midi-CV module. Actual program numbers within the MTS messages start at #0 for the built-in 12ET, #1-64 for the user tunings. The display shows these as #2-65, with 12ET as #1.

I intend these tunings only as an introduction, and I did not research their historical accuracy. For convenience, I used the software's default 1/1 of C4 (Midi note 60), although this is not the original 1/1 for some of the tunings shown. Some of these tunings come very close to standard 12ET, and some of them are downright wacky, sometimes specific to a particular composer or piece of music. The tunings from 18 to 65 are organized only by alphabet, culled from the Scala library, not in any logical order.

1. 12 Tone Equal Temperament (non-erasable)

The default Western tuning, based on the twelfth root of two. Good fourths and fifths, horrible thirds and sixths.

2. Harmonic Series

MIDI notes 36-95 reflect harmonics 2 through 60 based on the fundamental of A = 27.5 Hz. The low C on a standard 5 octave keyboard acts as the root note (55Hz), and the harmonics play upwards from there. The remaining keys above and below the 5 octave range are filled with the same intervals as Carlos' Harmonic 12 Tone that follows.

3. Carlos Harmonic Twelve Tone

Wendy Carlos' twelve note scale based on octave-repeating harmonics. A = 1/1 (440 Hz).

1/1 17/16 9/8 19/16 5/4 21/16 11/8 3/2 13/8 27/16 7/4 15/8

4. Meantone Temperament

An early tempered tuning, with better thirds than 12ET. Sounds best in the key of C. Use this to add an authentic touch to performances of early Baroque music. C=1/1 (260 Hz)

5. 1/4 Tone Equal Temperament

24 notes per octave, equally spaced 24root2 intervals. Mexican composer Julian Carillo used this for custom-built pianos in the early 20th century.

6. 19 Tone Equal Temperament

19 notes per octave (19root2) offering better thirds than 12 ET, a better overall compromise if you can figure out the keyboard patterns.

7. 31 Tone Equal Temperament

Many people consider 31root2 to offer the best compromise towards just intonation in an equal temperament, but it can get very tricky to keep track of the intervals.

8. Pythagorean C

One of the earliest tuning systems known from history, the Pythagorean scale is constructed from an upward series of pure fifths (3/2) transposed down into a single octave. The tuning works well for monophonic melodies against fifth drones, but has a very narrow palate of good chords to choose from. C=1/1 (261.625 Hz) $1/1 \ 256/243 \ 9/8 \ 32/27 \ 81/64 \ 4/3 \ 729/512 \ 3/2 \ 128/81 \ 27/16 \ 16/9 \ 243/128$

9. Just Intonation in A with 7-limit Tritone at D#

A rather vanilla 5-limit small interval JI, except for a single 7/5 tritone at D#, which offers some nice possibilities for rotating around bluesy sevenths. A=1/1 (440 Hz) 1/1 16/15 9/8 6/5 5/4 7/5 3/2 8/5 5/3 9/5 15/8

10. 3-5 Lattice in A (from Carter Scholz)

A pure 3 and 5-limit tuning which resolves to very symmetrical derived relationships between notes. A=1/1 (440 Hz) 1/1 16/15 10/9 6/5 5/4 4/3 64/45 3/2 8/5 5/3 16/9 15/8

11. 3-7 Lattice in A (from Carter Scholz)

A pure 3 and 7-limit tuning which resolves to very symmetrical derived relationships between notes. Some of the intervals are very close together, offering several choices for the same nominal chords. A=1/1 (440 Hz) 1/1 9/8 8/7 7/6 9/7 21/16 4/3 3/2 32/21 12/7 7/4 63/32

12. Other Music 7-Limit Black Keys in C

Created by the group Other Music for their homemade gamelan, this offers a wide range of interesting chords and modes. C=1/1 (261.625 Hz) 1/1 15/14 9/8 7/6 5/4 4/3 7/5 3/2 14/9 5/3 7/4 15/8

13. Dan Schmidt Pelog/Slendro

Created for the Berkeley Gamelan group, this tuning fits an Indonesian-style heptatonic Pelog on the white keys and pentatonic Slendro on the black keys, with B and Bb acting as 1/1 for their respective modes. Note that some of the notes will have the same frequency. By tuning the 1/1 to 60 Hz, Dan found a creative way to incorporate the inevitable line hum into his scale. Bb, B = 1/1 (60 Hz) 1/1 1/1 9/8 7/6 5/4 4/3 11/8 3/2 3/2 7/4 7/4 15/8

14. Yamaha Just Major C

When Yamaha decided to put preset microtunings into their FM synth product line, they selected this and the following tuning as representative just intonations. As such, they became the de-facto introduction to JI for many people. Just Major gives preferential treatment to major thirds on the sharps, and a good fourth relative to the second. C= 1/1 (261.625)

1/1 16/15 9/8 6/5 5/4 4/3 45/32 3/2 8/5 5/3 16/9 15/8

15. Yamaha Just Minor C

Similar to Yamaha's preset Just Major, the Just Minor gives preferential treatment to minor thirds on the sharps, and has a good fifth relative to the second. C= 1/1 (261.625)

1/1 25/24 10/9 6/5 5/4 4/3 45/32 3/2 8/5 5/3 16/9 15/8

16. Harry Partch 11-limit 43 Note Just Intonation

One of the pioneers of modern microtonal composition, Partch built a unique orchestra with this tuning during the first half of the 20th century, to perform his own compositions. The large number of intervals in this very dense scale offers a full vocabulary of expressive chords and complex key changes. The narrow spacing also allows fixed-pitched instruments like marimbas and organs to perform glissando-like passages. G = 1/1 (392 Hz, MIDI note 67) 1/1 81/80 33/32 21/20 16/15 12/11 11/10 10/9 9/8 8/7 7/6 32/27 6/5 11/9 5/4 14/11 9/7 21/16 4/3 27/20 11/8 7/5 10/7 16/11 40/27 3/2 32/21 14/9 11/7 8/5 18/11 5/3 27/16 12/7 7/4 16/9 9/5 20/11 11/6 15/8 40/21 64/33 160/81

17. Arabic 12-Tone

A 12-tone approximation of an Arabic scale, which appears in some electronic keyboards designed for use with Arabic music. Not a JI scale, nor equal tempered. These are the intervals in Cents relative to C:

 $\begin{array}{l} 60 = \text{Cents } 0.\\ 61 = \text{Cents } +151.\\ 62 = \text{Cents } +204.\\ 63 = \text{Cents } +294.\\ 64 = \text{Cents } +355.\\ 65 = \text{Cents } +498.\\ 66 = \text{Cents } +649.\\ 67 = \text{Cents } +702.\\ 68 = \text{Cents } +853.\\ 69 = \text{Cents } +853.\\ 69 = \text{Cents } +906.\\ 70 = \text{Cents } +996.\\ 71 = \text{Cents } +1057.\\ 72 = \text{Cents } +1200. \end{array}$

18. 12 out of 19-tET scale from Mandelbaum's dissertation An interesting non-just 12 tone scale that has some unusual relationships. note 0=0note 1=63note 2=189note 3=253note 4=379note 5=505note 6=568note 7=695note 8=758note 9=884note 10=947note 11=1074note 12=1200

19. 12 out of 31-tET, meantone Eb-G# note 0=0note 1=77note 2=194note 3=310note 4=387note 5=503note 6=581note 7=697note 8=774note 9=890note 10=1006note 11=1084note 12=1200

20. Terry Riley's Harp of New Albion scale, inverse Malcolm's Monochord, Original 1/1 on C#, here it is set to C. 60 = Cents 0.Ratio: 1/1 (JUST) Ratio: 16/15 (JUST) 61 = Cents + 111.73128562 = Cents + 203.910002Ratio: 9/8 (JUST) 63 = Cents + 315.641287Ratio: 6/5 (JUST) 64 = Cents + 386.313714Ratio: 5/4 (JUST) Ratio: 4/3 (JUST) 65 = Cents + 498.044999Ratio: 64/45 (JUST) 66 = Cents + 609.77628467 = Cents + 701.955001Ratio: 3/2 (JUST) Ratio: 8/5 (JUST) 68 = Cents + 813.686286

Ratio: 5/3 (JUST)
Ratio: 16/9 (JUST)
Ratio: 15/8 (JUST)
Ratio: 2/1 (JUST)

21. Lute tuning of Giovanni Maria Artusi (1603). 1/4-comma w. acc. 1/2-way naturals

60 = Cents 0.	Ratio: 1/1 (JUST)
61 = Cents + 96.578	Ratio: 8607/8140
62 = Cents + 193.157	Ratio: 2889/2584
63 = Cents + 289.735	Ratio: 11687/9886
64 = Cents +386.31371	4 Ratio: 5/4 (JUST)
65 = Cents + 503.422	Ratio: 5267/3938
66 = Cents + 600.	Ratio: 11482/8119
67 = Cents + 696.578	Ratio: 7876/5267
68 = Cents + 793.157	Ratio: 14771/9342
69 = Cents + 889.735	Ratio: 11718/7009
70 = Cents + 986.314	Ratio: 17561/9934
71 = Cents + 1082.892	Ratio: 18204/9739
72 = Cents + 1200.	Ratio: 2/1 (JUST)

22. J.S. Bach "well temperament", acc. to Jacob Breetvelt's Tuner

60 = Cents 0.	Ratio: 1/1 (JUST)
61 = Cents + 92.18	Ratio: 10472/9929
62 = Cents + 200.	Ratio: 5252/4679
63 = Cents + 296.09	Ratio: 11781/9929
64 = Cents + 390.225	Ratio: 9638/7693
65 = Cents + 500.	Ratio: 6793/5089
66 = Cents + 590.225	Ratio: 45/32 (just)
67 = Cents + 700.	Ratio: 10178/6793
68 = Cents + 794.135	Ratio: 15708/9929
69 = Cents +895.1125	Ratio: 14857/8859
70 = Cents + 998.045	Ratio: 12503/7025
71 = Cents + 1090.225	Ratio: 18484/9847
72 = Cents + 1200.	Ratio: 2/1 (JUST)

23. Bulgarian bagpipe tuning, empirically measured.

0 = Cents 0.	Ratio: 1/1 (JUST)
1 = Cents + 66.	Ratio: 5427/5224
2 = Cents + 202.	Ratio: 1925/1713
3 = Cents + 316.	Ratio: 11586/9653
4 = Cents + 399.	Ratio: 4965/3943
5 = Cents + 509.	Ratio: 7451/5553
6 = Cents + 640.	Ratio: 13435/9283
7 = Cents + 706.	Ratio: 857/570

8 = Cents + 803.	Ratio: 2681/1686
9 = Cents + 910.	Ratio: 12130/7171
10 = Cents + 1011.	Ratio: 1205/672
11 = Cents + 1092.	Ratio: 12599/6705
12 = Cents + 1200.	Ratio: 2/1 (JUST)

24. Wendy Carlos' Alpha scale with perfect fifth divided in nine. 19 Tone cycle. Octaves are stretched, and the tuning is quite microtonal (First repeat shown.)

0 = Cents 0.	Ratio: 1/1 (JUST)
1 = Cents + 78.	Ratio: 7241/6922
2 = Cents + 156.	Ratio: 8994/8219
3 = Cents + 234.	Ratio: 10686/9335
4 = Cents + 312.	Ratio: 11873/9915
5 = Cents + 390.	Ratio: 11636/9289
6 = Cents + 468.	Ratio: 13024/9939
7 = Cents + 546.	Ratio: 12433/9070
8 = Cents + 624.	Ratio: 11605/8093
9 = Cents + 702.	Ratio: 14999/9999
10 = Cents + 780.	Ratio: 3471/2212
11 = Cents + 858.	Ratio: 15361/9358
12 = Cents + 936.	Ratio: 11467/6678
13 = Cents + 1014.	Ratio: 17889/9959
14 = Cents + 1092.	Ratio: 12599/6705
15 = Cents + 1170.	Ratio: 18593/9459
16 = Cents + 1248.	Ratio: 14957/7274
17 = Cents + 1326.	Ratio: 8049/3742
18 = Cents + 1404.	Ratio: 9617/4274
19 = Cents + 1482.	Ratio: 1111/472

25. Wendy Carlos' Beta scale with perfect fifth divided by eleven. 23 tone cycle. Octaves are stretched, and the tuning is quite microtonal (First repeat shown.)

0 = Cents 0.	Ratio: 1/1 (JUST)
1 = Cents + 63.8	Ratio: 6191/5967
2 = Cents + 127.6	Ratio: 9725/9034
3 = Cents + 191.4	Ratio: 7739/6929
4 = Cents + 255.2	Ratio: 8821/7612
5 = Cents + 319.	Ratio: 7636/6351
6 = Cents + 382.8	Ratio: 11690/9371
7 = Cents + 446.6	Ratio: 9007/6959
8 = Cents + 510.4	Ratio: 1500/1117
9 = Cents + 574.2	Ratio: 13547/9723
10 = Cents + 638.	Ratio: 12529/8667
11 = Cents + 701.8	Ratio: 5584/3723
12 = Cents + 765.6	Ratio: 9281/5964
13 = Cents + 829.4	Ratio: 15760/9761

14 = Cents + 893.2	Ratio: 1047/625
15 = Cents + 957.	Ratio: 9629/5540
16 = Cents + 1020.8	Ratio: 16551/9178
17 = Cents + 1084.6	Ratio: 16263/8692
18 = Cents + 1148.4	Ratio: 13585/6998
19 = Cents + 1212.2	Ratio: 17231/8555
20 = Cents + 1276.	Ratio: 12503/5983
21 = Cents + 1339.8	Ratio: 10583/4881
22 = Cents + 1403.6	Ratio: 12564/5585
23 = Cents + 1467.4	Ratio: 8727/3739

26. Wendy Carlos' Gamma scale with third divided by eleven or fifth by twenty. 36 tone. Octaves are stretched, and the tuning is quite microtonal (First repeat shown.)

0 = Cents 0.	Ratio: 1/1 (JUST)
1 = Cents + 35.099	Ratio: 1146/1123
2 = Cents + 70.198	Ratio: 7449/7153
3 = Cents + 105.297	Ratio: 4118/3875
4 = Cents + 140.396	Ratio: 475/438
5 = Cents + 175.495	Ratio: 5363/4846
6 = Cents + 210.594	Ratio: 3990/3533
7 = Cents + 245.693	Ratio: 11307/9811
8 = Cents + 280.792	Ratio: 4495/3822
9 = Cents + 315.891	Ratio: 9707/8088
10 = Cents + 350.99	Ratio: 1989/1624
11 = Cents + 386.089	Ratio: 1926/1541
12 = Cents + 421.188	Ratio: 7321/5740
13 = Cents + 456.287	Ratio: 2089/1605
14 = Cents + 491.386	Ratio: 8563/6447
15 = Cents + 526.485	Ratio: 6117/4513
16 = Cents + 561.584	Ratio: 148/107
17 = Cents + 596.683	Ratio: 2895/2051
18 = Cents + 631.782	Ratio: 7627/5295
19 = Cents + 666.881	Ratio: 13901/9457
20 = Cents + 701.98	Ratio: 3/2 (just)
21 = Cents + 737.079	Ratio: 5477/3578
22 = Cents + 772.178	Ratio: 6981/4469
23 = Cents + 807.277	Ratio: 14613/9167
24 = Cents + 842.376	Ratio: 10660/6553
25 = Cents + 877.475	Ratio: 1255/756
26 = Cents + 912.574	Ratio: 3959/2337
27 = Cents + 947.673	Ratio: 16513/9552
28 = Cents + 982.772	Ratio: 15424/8743
29 = Cents + 1017.871	Ratio: 7563/4201
30 = Cents + 1052.97	Ratio: 7367/4010
31 = Cents + 1088.069	Ratio: 11918/6357
32 = Cents + 1123.168	Ratio: 13310/6957

33 = Cents + 1158.267	Ratio: 17050/8733
34 = Cents + 1193.366	Ratio: 14586/7321
35 = Cents + 1228.465	Ratio: 13368/6575
36 = Cents + 1263.564	Ratio: 1276/615

27. Carlos Super Just

60 = Cents	0. Ra	tio: 1/1 (JUST)
61 = Cents	+104.95541	Ratio: 17/16 (JUST)
62 = Cents	+203.910002	Ratio: 9/8 (JUST)
63 = Cents	+315.641287	Ratio: 6/5 (JUST)
64 = Cents	+386.313714	Ratio: 5/4 (JUST)
65 = Cents	+498.044999	Ratio: 4/3 (JUST)
66 = Cents	+551.317942	Ratio: 11/8 (JUST)
67 = Cents	+701.955001	Ratio: 3/2 (JUST)
68 = Cents	+840.527662	Ratio: 13/8 (JUST)
69 = Cents	+884.358713	Ratio: 5/3 (JUST)
70 = Cents	+968.825906	Ratio: 7/4 (JUST)
71 = Cents	+1088.268715	Ratio: 15/8 (JUST)
72 = Cents	+1200.	Ratio: 2/1 (JUST)

28. Jon Catler 24-tone JI from	"Over and Under the 13 Limit"
60 = Cents 0. Ratio	: 1/1 (JUST)
61 = Cents + 53.272943	Ratio: 33/32 (JUST)
62 = Cents + 111.731285	Ratio: 16/15 (JUST)
63 = Cents + 203.910002	Ratio: 9/8 (JUST)
64 = Cents + 231.174094	Ratio: 8/7 (JUST)
65 = Cents + 266.870906	Ratio: 7/6 (JUST)
66 = Cents + 315.641287	Ratio: 6/5 (JUST)
67 = Cents + 342.905379	Ratio: 128/105
68 = Cents + 359.472338	Ratio: 16/13 (JUST)
69 = Cents + 386.313714	Ratio: 5/4 (JUST)
70 = Cents + 470.780907	Ratio: 21/16 (JUST)
71 = Cents + 498.044999	Ratio: 4/3 (JUST)
72 = Cents + 551.317942	Ratio: 11/8 (JUST)
73 = Cents + 590.223716	Ratio: 45/32 (JUST)
74 = Cents + 648.682058	Ratio: 16/11 (JUST)
75 = Cents + 701.955001	Ratio: 3/2 (JUST)
76 = Cents + 813.686286	Ratio: 8/5 (JUST)
77 = Cents + 840.527662	Ratio: 13/8 (JUST)
78 = Cents + 884.358713	Ratio: 5/3 (JUST)
79 = Cents + 905.865003	Ratio: 27/16 (JUST)
80 = Cents + 968.825906	Ratio: 7/4 (JUST)
81 = Cents +996.089998	Ratio: 16/9 (JUST)

 82 = Cents +1061.427339
 Ratio: 24/13 (JUST)

 83 = Cents +1088.268715
 Ratio: 15/8 (JUST)

 84 = Cents +1200.
 Ratio: 2/1 (JUST)

29. John Chalmers JI-1, Based loosely on Wronski's and similar JI scales, May 2, 1997. (Chalmer's book "Divisions of the Tetrachord" is a late 20th century masterwork, exploring the mathematical underpinnings of just tunings.) 60 = Cents 0. Ratio: 1/1 (JUST) 61 = Cents + 104.95541Ratio: 17/16 (JUST) 62 = Cents + 203.910002Ratio: 9/8 (JUST) 63 = Cents + 297.513016Ratio: 19/16 (JUST) 64 = Cents + 386.313714Ratio: 5/4 (JUST) 65 = Cents + 498.044999Ratio: 4/3 (JUST) 66 = Cents + 603.000409Ratio: 17/12 (JUST) 67 = Cents + 701.955001Ratio: 3/2 (JUST) 68 = Cents + 795.558015Ratio: 19/12 (JUST) 69 = Cents + 884.358713Ratio: 5/3 (JUST) 70 = Cents + 999.468017Ratio: 57/32 (JUST) 71 = Cents + 1088.268715Ratio: 15/8 (JUST) 72 = Cents + 1200.Ratio: 2/1 (JUST)

30. John Chalmers JI-3, 15 16 17 18 19 20 21 on 1/1, 15-20 on 3/2, May 2, 1997. 60 = Cents 0.Ratio: 1/1 (JUST) 61 = Cents + 111.731285Ratio: 16/15 (JUST) 62 = Cents + 216.686695Ratio: 17/15 (JUST) 63 = Cents + 315.641287Ratio: 6/5 (JUST) 64 = Cents + 409.244301Ratio: 19/15 (JUST) 65 = Cents + 498.044999Ratio: 4/3 (JUST) Ratio: 7/5 (JUST) 66 = Cents + 582.512193Ratio: 3/2 (JUST) 67 = Cents + 701.95500168 = Cents + 813.686286Ratio: 8/5 (JUST) 69 = Cents + 918.641696Ratio: 17/10 (JUST) 70 = Cents + 1017.596288Ratio: 9/5 (JUST) Ratio: 19/10 (JUST) 71 = Cents + 1111.19930272 = Cents + 1200.Ratio: 2/1 (JUST)

31. John Chalmers JI-4, 15 16 17 18 19 20 on 1/1, same on 4/3, + 16/15 on 16/960 = Cents 0.Ratio: 1/1 (JUST)61 = Cents +111.731285Ratio: 16/15 (JUST)62 = Cents +216.686695Ratio: 17/15 (JUST)63 = Cents +315.641287Ratio: 6/5 (JUST)64 = Cents +409.244301Ratio: 19/15 (JUST)65 = Cents +498.044999Ratio: 4/3 (JUST)

66 = Cents + 609.776284 Ratio: $64/45$ (JUS	5T)
67 = Cents +714.731694 Ratio: 68/45 (JUS	T)
68 = Cents +813.686286 Ratio: 8/5 (JUST)	1
69 = Cents +907.289301 Ratio: 76/45 (JUS	(T
70 = Cents +996.089998 Ratio: 16/9 (JUS)	.)
71 = Cents +1107.821284 Ratio: 256/135	
72 = Cents + 1200. Ratio: $2/1$ (JUST)	

32. Chinese scale, 4th cent	tury
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0 = Cents 0.	Ratio: 1/1 (JUST)
1 = Cents + 99.2	Ratio: 3735/3527
2 = Cents + 199.5	Ratio: 11126/9915
3 = Cents + 296.7	Ratio: 9181/7735
4 = Cents + 398.	Ratio: 10405/8268
5 = Cents + 492.9	Ratio: 448/337
6 = Cents + 595.2	Ratio: 11312/8021
7 = Cents + 699.	Ratio: 6439/4300
8 = Cents + 790.9	Ratio: 7578/4799
9 = Cents + 896.1	Ratio: 15436/9199
10 = Cents + 984.9	Ratio: 6357/3599
11 = Cents + 1091.4	Ratio: 1591/847
12 = Cents + 1200.	Ratio: 2/1 (JUST)

33. Chinese Lu scale by Huai Nan Zi, Han era. (P. Amiot 1780, Kurt Reinhard)

60 = Cents	0. Ra	tio: 1/1 (JUST)
61 = Cents	+98.954592	Ratio: 18/17 (JUST)
62 = Cents	+203.910002	Ratio: 9/8 (JUST)
63 = Cents	+315.641287	Ratio: 6/5 (JUST)
64 = Cents	+394.347297	Ratio: 54/43 (JUST)
65 = Cents	+498.044999	Ratio: 4/3 (JUST)
66 = Cents	+608.351986	Ratio: 27/19 (JUST)
67 = Cents	+701.955001	Ratio: 3/2 (JUST)
68 = Cents	+800.909593	Ratio: 27/17 (JUST)
69 = Cents	+905.865003	Ratio: 27/16 (JUST)
70 = Cents	+1017.596288	Ratio: 9/5 (JUST)
71 = Cents	+1106.396986	Ratio: 36/19 (JUST)
72 = Cents	+1200.	Ratio: 2/1 (JUST)

34. Colonna 1

Fabio Colonna lived in Naples, and published a treatise in 1618 called "La Sambuca Lincea", which included a description of the instrument by that name which he built on commission from Scipione Stella, who had had the opportunity in 1594 to examine

Vincentino's 'Archicembalo', a 31-tone-per-octave (not equal-tempered) keyboard instrument.

60 = Cents	0. R	atio: 1/1 (JUST)
61 = Cents	+70.672427	Ratio: 25/24 (JUST)
62 = Cents	+182.403712	Ratio: 10/9 (JUST)
63 = Cents	+287.359122	Ratio: 85/72 (JUST)
64 = Cents	+386.313714	Ratio: 5/4 (JUST)
65 = Cents	+498.044999	Ratio: 4/3 (JUST)
66 = Cents	+568.717426	Ratio: 25/18 (JUST)
67 = Cents	+701.955001	Ratio: 3/2 (JUST)
68 = Cents	+733.721654	Ratio: 55/36 (JUST)
69 = Cents	+884.358713	Ratio: 5/3 (JUST)
70 = Cents	+989.314122	Ratio: 85/48 (JUST)
71 = Cents	+1088.268715	Ratio: 15/8 (JUST)
72 = Cents	+1200.	Ratio: 2/1 (JUST)

35. Colonna 2 - Second 12 note subset of the Colonna scale $60 = Cents \ 0$ Ratio: 1/1 (UIST)

$60 = Cents \ 0.$ Ra	tio: 1/1 (JUST)
61 = Cents + 70.672427	Ratio: 25/24 (JUST)
62 = Cents + 203.910002	Ratio: 9/8 (JUST)
63 = Cents + 315.641287	Ratio: 6/5 (JUST)
64 = Cents + 386.313714	Ratio: 5/4 (JUST)
65 = Cents + 498.044999	Ratio: 4/3 (JUST)
66 = Cents + 582.512193	Ratio: 7/5 (JUST)
67 = Cents + 701.955001	Ratio: 3/2 (JUST)
68 = Cents + 813.686286	Ratio: 8/5 (JUST)
69 = Cents +884.358713	Ratio: 5/3 (JUST)
70 = Cents + 1017.596288	Ratio: 9/5 (JUST)
71 = Cents + 1049.362941	Ratio: 11/6 (JUST)
72 = Cents + 1200.	Ratio: 2/1 (JUST)

36. Ivor Darreg was one of the great modern theorists of just intonation. This set of 19 ratios in 5-limit JI is for his megalyra family.

60 = Cents	0.	Ratio: 1/1 (JUST)
61 = Cents	+70.672427	Ratio: 25/24 (JUST)
62 = Cents	+111.73128	5 Ratio: 16/15 (JUST)
63 = Cents	+182.40371	2 Ratio: 10/9 (JUST)
64 = Cents	+203.91000	2 Ratio: 9/8 (JUST)
65 = Cents	+274.58242	9 Ratio: 75/64 (JUST)
66 = Cents	+315.64128	7 Ratio: 6/5 (JUST)
67 = Cents	+386.31371	4 Ratio: 5/4 (JUST)
68 = Cents	+498.04499	9 Ratio: 4/3 (JUST)
69 = Cents	+590.22371	6 Ratio: 45/32 (JUST)
70 = Cents	+609.77628	4 Ratio: 64/45 (JUST)

Ratio: 3/2 (JUST)
Ratio: 25/16 (JUST)
Ratio: 8/5 (JUST)
Ratio: 5/3 (JUST)
Ratio: 27/16 (JUST)
Ratio: 225/128
Ratio: 9/5 (JUST)
Ratio: 15/8 (JUST)
Ratio: 2/1 (JUST)

37. Dorian Diatonic Tonos

60 = Cents 0.	Ratio: 1/1 (JUST)
61 = Cents + 111.731285	5 Ratio: 16/15 (JUST)
62 = Cents + 231.174094	Ratio: 8/7 (JUST)
63 = Cents +359.472338	8 Ratio: 16/13 (JUST)
64 = Cents + 427.372572	2 Ratio: 32/25 (JUST)
65 = Cents + 498.044999	Ratio: 4/3 (JUST)
66 = Cents + 571.725653	Ratio: 32/23 (JUST)
67 = Cents +648.682058	8 Ratio: 16/11 (JUST)
68 = Cents +813.686286	6 Ratio: 8/5 (JUST)
69 = Cents +902.486984	Ratio: 32/19 (JUST)
70 = Cents +996.089998	Ratio: 16/9 (JUST)
71 = Cents + 1095.04459	P Ratio: 32/17 (JUST)
72 = Cents + 1200.	Ratio: 2/1 (JUST)

38. Almost equal 12-tone subset of Duodenarium

60 = Cents (0. Ra	tio: 1/1 (JUST)
61 = Cents	+92.178716	Ratio: 135/128
62 = Cents -	+203.910002	Ratio: 9/8 (JUST)
63 = Cents	+296.088718	Ratio: 1215/1024
64 = Cents	+405.866283	Ratio: 512/405
65 = Cents	+498.044999	Ratio: 4/3 (JUST)
66 = Cents -	+609.776284	Ratio: 64/45 (JUST)
67 = Cents	+701.955001	Ratio: 3/2 (JUST)
68 = Cents	+794.133717	Ratio: 405/256
69 = Cents	+903.911282	Ratio: 2048/1215
70 = Cents	+998.043719	Ratio: 3645/2048
71 = Cents	+1107.821284	Ratio: 256/135
72 = Cents -	+1200.	Ratio: 2/1 (JUST)

 39. Ellis's Just Harmonium

 60 = Cents 0.
 Ratio: 1/1 (JUST)

 61 = Cents +111.731285
 Ratio: 16/15 (JUST)

 62 = Cents +203.910002
 Ratio: 9/8 (JUST)

63 = Cents + 315.641287	Ratio: 6/5 (JUST)
64 = Cents + 386.313714	Ratio: 5/4 (JUST)
65 = Cents + 498.044999	Ratio: 4/3 (JUST)
66 = Cents + 519.551289	Ratio: 27/20 (JUST)
67 = Cents + 701.955001	Ratio: 3/2 (JUST)
68 = Cents + 813.686286	Ratio: 8/5 (JUST)
69 = Cents +884.358713	Ratio: 5/3 (JUST)
70 = Cents + 1017.596288	Ratio: 9/5 (JUST)
71 = Cents + 1088.268715	Ratio: 15/8 (JUST)
72 = Cents + 1200.	Ratio: 2/1 (JUST)

 40. Bali/Java Slendro, Siam 7, empirical

 0 = Cents 0.
 Ratio: 1/1 (JUST)

 61 = Cents +111.731285
 Ratio: 16/15 (JUST)

 62 = Cents +203.910002
 Ratio: 9/8 (JUST)

 63 = Cents +315.641287
 Ratio: 6/5 (JUST)

64 = Cents + 386.313714Ratio: 5/4 (JUST) 65 = Cents + 498.044999Ratio: 4/3 (JUST) 66 = Cents + 519.551289Ratio: 27/20 (JUST) 67 = Cents +701.955001 Ratio: 3/2 (JUST) 68 = Cents +813.686286 Ratio: 8/5 (JUST) 69 = Cents + 884.358713Ratio: 5/3 (JUST) 70 = Cents + 1017.596288Ratio: 9/5 (JUST) 71 = Cents + 1088.268715Ratio: 15/8 (JUST) 72 = Cents + 1200.Ratio: 2/1 (JUST)

		~	
41.	Tibetian	Ceremonial,	empirical

0 = Cents 0.	Ratio: 1/1 (JUST)
1 = Cents + 58.	Ratio: 2762/2671
2 = Cents + 232.	Ratio: 6889/6025
3 = Cents + 310.	Ratio: 10601/8863
4 = Cents + 378.	Ratio: 11945/9602
5 = Cents + 522.	Ratio: 849/628
6 = Cents + 618.	Ratio: 483/338
7 = Cents + 725.	Ratio: 605/398
8 = Cents + 773.	Ratio: 13070/8363
9 = Cents + 896.	Ratio: 14076/8389
10 = Cents + 1019.	Ratio: 12585/6986
11 = Cents + 1086.	Ratio: 16205/8654

42. Erlangen, revised	
60 = Cents 0.	Ratio: 1/1 (JUST)
61 = Cents + 92.178716	Ratio: 135/128

62 = Cents + 203.910002	Ratio: 9/8 (JUST)
63 = Cents +294.134997	Ratio: 32/27 (JUST)
64 = Cents + 386.313714	Ratio: 5/4 (JUST)
65 = Cents +498.044999	Ratio: 4/3 (JUST)
66 = Cents + 590.223716	Ratio: 45/32 (JUST)
67 = Cents +701.955001	Ratio: 3/2 (JUST)
68 = Cents +794.133717	Ratio: 405/256
69 = Cents + 905.865003	Ratio: 27/16 (JUST)
70 = Cents +996.089998	Ratio: 16/9 (JUST)
71 = Cents + 1088.268715	Ratio: 15/8 (JUST)
72 = Cents + 1200.	Ratio: 2/1 (JUST)

43. Euler - Monochord (1739) 60 = Cents 0.Ratio: 1/1 (JUST) 61 = Cents + 70.672427Ratio: 25/24 (JUST) 62 = Cents + 203.910002Ratio: 9/8 (JUST) 63 = Cents + 274.582429Ratio: 75/64 (JUST) 64 = Cents + 386.313714Ratio: 5/4 (JUST) 65 = Cents + 498.044999Ratio: 4/3 (JUST) 66 = Cents + 590.223716Ratio: 45/32 (JUST) 67 = Cents +701.955001 Ratio: 3/2 (JUST) 68 = Cents + 772.627428Ratio: 25/16 (JUST) 69 = Cents +884.358713 Ratio: 5/3 (JUST) Ratio: 225/128 70 = Cents + 976.53742971 = Cents + 1088.268715Ratio: 15/8 (JUST) Ratio: 2/1 (JUST) 72 = Cents + 1200.

44. Fokker's 7-limit 12-tone just scale	
60 = Cents 0. Ra	tio: 1/1 (JUST)
61 = Cents + 119.442808	Ratio: 15/14 (JUST)
62 = Cents + 203.910002	Ratio: 9/8 (JUST)
63 = Cents + 266.870906	Ratio: 7/6 (JUST)
64 = Cents + 386.313714	Ratio: 5/4 (JUST)
65 = Cents + 498.044999	Ratio: 4/3 (JUST)
66 = Cents + 590.223716	Ratio: 45/32 (JUST)
67 = Cents + 701.955001	Ratio: 3/2 (JUST)
68 = Cents +821.397809	Ratio: 45/28 (JUST)
69 = Cents +884.358713	Ratio: 5/3 (JUST)
70 = Cents + 968.825906	Ratio: 7/4 (JUST)
71 = Cents +1088.268715	Ratio: 15/8 (JUST)
72 = Cents + 1200.	Ratio: 2/1 (JUST)

45. Bagpipe tuning from Fortuna ("try key of G with F natural")

60 = Cents 0.	Ratio: 1/1 (JUST)
61 = Cents + 29.849602	Ratio: 117/115
62 = Cents + 187.681869	P Ratio: 146/131
63 = Cents + 256.596489	P Ratio: 196/169
64 = Cents + 343.090647	7 Ratio: 89/73 (JUST)
65 = Cents + 493.957077	7 Ratio: 141/106
66 = Cents + 548.648344	Ratio: 81/59 (JUST)
67 = Cents + 684.728649	P Ratio: 150/101
68 = Cents +729.878736	6 Ratio: 125/82 (JUST)
69 = Cents + 871.94838	Ratio: 139/84 (JUST)
70 = Cents + 985.798925	5 Ratio: 205/116
71 = Cents + 1049.36294	1 Ratio: 11/6 (JUST)
72 = Cents + 1200.	Ratio: 2/1 (JUST)

46. Gamelan Udan Mas (approx) s6,p6,p7,s1,p1,s2,p2,p3,s3,p4,s5,p5 60 = Cents 0.Ratio: 1/1 (JUST) 61 = Cents 0.Ratio: 1/1 (JUST) 62 = Cents + 182.403712Ratio: 10/9 (JUST) 63 = Cents + 266.870906Ratio: 7/6 (JUST) 64 = Cents + 427.372572Ratio: 32/25 (JUST) Ratio: 47/35 (JUST) 65 = Cents + 510.36700266 = Cents + 571.725653Ratio: 32/23 (JUST) 67 = Cents + 701.955001Ratio: 3/2 (JUST) Ratio: 20/13 (JUST) 68 = Cents + 745.78605269 = Cents +996.089998 Ratio: 16/9 (JUST) 70 = Cents + 996.089998Ratio: 16/9 (JUST) 71 = Cents + 1126.319346Ratio: 23/12 (JUST) 72 = Cents + 1200.Ratio: 2/1 (JUST) 73 = Cents + 1200.Ratio: 2/1 (JUST)

47. Kraig Grady's 7-limit "Centaur" scale, 1987. See Xenharmonikon 16

60 = Cents 0. Ratio: 1/1 (JUST)

61 = Cents + 84.467193	Ratio: 21/20 (JUST)
62 = Cents + 203.910002	Ratio: 9/8 (JUST)
63 = Cents + 266.870906	Ratio: 7/6 (JUST)
64 = Cents + 386.313714	Ratio: 5/4 (JUST)
65 = Cents +498.044999	Ratio: 4/3 (JUST)
66 = Cents + 582.512193	Ratio: 7/5 (JUST)
67 = Cents +701.955001	Ratio: 3/2 (JUST)
68 = Cents +764.915905	Ratio: 14/9 (JUST)
69 = Cents +884.358713	Ratio: 5/3 (JUST)
70 = Cents + 968.825906	Ratio: 7/4 (JUST)
71 = Cents +1088.268715	Ratio: 15/8 (JUST)
72 = Cents + 1200.	Ratio: 2/1 (JUST)

48. Harmonics 1 to 12 and subharmonics mixed 60 = Cents 0. Ratio: 1/1 (JUST) 61 = Cents + 203.910002Ratio: 9/8 (JUST) 62 = Cents + 231.174094Ratio: 8/7 (JUST) 63 = Cents + 386.313714Ratio: 5/4 (JUST) 64 = Cents +498.044999 Ratio: 4/3 (JUST) 65 = Cents + 551.317942Ratio: 11/8 (JUST) Ratio: 16/11 (JUST) 66 = Cents + 648.68205867 = Cents + 701.955001Ratio: 3/2 (JUST) 68 = Cents +813.686286 Ratio: 8/5 (JUST) 69 = Cents + 968.825906Ratio: 7/4 (JUST) 70 = Cents +996.089998 Ratio: 16/9 (JUST) 71 = Cents + 1200.Ratio: 2/1 (JUST)

49. Michael Harrison, piano tuning for "Revelation" (2001), original 1/1=F, here it is set to C 60 = Cents 0.Ratio: 1/1 (JUST) 61 = Cents - 27.264092Ratio: 63/64 (JUST) 62 = Cents + 203.910002Ratio: 9/8 (JUST) 63 = Cents + 176.64591Ratio: 567/512 64 = Cents + 407.820003Ratio: 81/64 (JUST) 65 = Cents + 470.780907Ratio: 21/16 (JUST) 66 = Cents + 611.730005Ratio: 729/512 67 = Cents + 701.955001Ratio: 3/2 (JUST) Ratio: 189/128 68 = Cents + 674.69090969 = Cents + 905.865003Ratio: 27/16 (JUST) 70 = Cents + 968.825906Ratio: 7/4 (JUST) 71 = Cents + 1109.775004Ratio: 243/128 72 = Cents + 1200.Ratio: 2/1 (JUST)

50. Helmholtz's two-keyboard harmonium tuning untempered, 24 notes per octave $60 = Cents \ 0$ Ratio: 1/1 (JUST)

00 0 • 11 • 0 • 1	
61 = Cents + 92.17871	6 Ratio: 135/128
62 = Cents + 111.7312	85 Ratio: 16/15 (JUST)
63 = Cents + 182.4037	12 Ratio: 10/9 (JUST)
64 = Cents + 203.9100	02 Ratio: 9/8 (JUST)
65 = Cents + 274.5824	29 Ratio: 75/64 (JUST)
66 = Cents + 294.1349	97 Ratio: 32/27 (JUST)
67 = Cents + 386.3137	14 Ratio: 5/4 (JUST)
68 = Cents + 405.8662	83 Ratio: 512/405
69 = Cents + 478.4924	3 Ratio: 675/512
70 = Cents + 498.0449	99 Ratio: 4/3 (JUST)

71 = Cents + 590.223716	Ratio: 45/32 (JUST)
72 = Cents + 609.776284	Ratio: 64/45 (JUST)
73 = Cents + 680.448711	Ratio: 40/27 (JUST)
74 = Cents + 701.955001	Ratio: 3/2 (JUST)
75 = Cents + 772.627428	Ratio: 25/16 (JUST)
76 = Cents +792.179997	Ratio: 128/81 (JUST)
77 = Cents + 884.358713	Ratio: 5/3 (JUST)
78 = Cents + 905.865003	Ratio: 27/16 (JUST)
79 = Cents + 976.537429	Ratio: 225/128
80 = Cents +996.089998	Ratio: 16/9 (JUST)
81 = Cents +1088.268715	Ratio: 15/8 (JUST)
82 = Cents + 1107.821284	Ratio: 256/135
83 = Cents + 1178.49371	Ratio: 160/81 (JUST)
84 = Cents + 1200.	Ratio: 2/1 (JUST)

51. North Indian Gamut, modern Hindustani 12 selected from 22 or more shrutis 60 = Cents 0. Ratio: 1/1 (JUST)

60 - Cents 0. Ra	(10.1/1(JUS1))
61 = Cents + 111.731285	Ratio: 16/15 (JUST)
62 = Cents + 203.910002	Ratio: 9/8 (JUST)
63 = Cents + 315.641287	Ratio: 6/5 (JUST)
64 = Cents +386.313714	Ratio: 5/4 (JUST)
65 = Cents + 498.044999	Ratio: 4/3 (JUST)
66 = Cents + 590.223716	Ratio: 45/32 (JUST)
67 = Cents + 701.955001	Ratio: 3/2 (JUST)
68 = Cents + 813.686286	Ratio: 8/5 (JUST)
69 = Cents +905.865003	Ratio: 27/16 (JUST)
70 = Cents +1017.596288	Ratio: 9/5 (JUST)
71 = Cents + 1088.268715	Ratio: 15/8 (JUST)
72 = Cents + 1200.	Ratio: 2/1 (JUST)

52. Carnatic gamut. Kuppuswami: Carnatic music and the Tamils, p. v 60 = Cents 0. Ratio: 1/1 (JUST)

61 = Cents + 98.954592	Ratio: 18/17 (JUST)
62 = Cents +203.910002	Ratio: 9/8 (JUST)
63 = Cents + 315.641287	Ratio: 6/5 (JUST)
64 = Cents +394.347297	Ratio: 54/43 (JUST)
65 = Cents +498.044999	Ratio: 4/3 (JUST)
66 = Cents +596.999591	Ratio: 24/17 (JUST)
67 = Cents +701.955001	Ratio: 3/2 (JUST)
68 = Cents +800.909593	Ratio: 27/17 (JUST)
69 = Cents +905.865003	Ratio: 27/16 (JUST)
70 = Cents +1017.596288	Ratio: 9/5 (JUST)
71 = Cents +1096.302298	Ratio: 81/43 (JUST)
72 = Cents + 1200.	Ratio: 2/1 (JUST)

53. Observed S	outh Indian tuning of a vina, Ellis
(Note that octav	ves are stretched)
(0, 0, 1, 0)	\mathbf{D} (1/1 (TITOT)

60 = Cents 0.	Ratio: 1/1 (JUST)
61 = Cents + 97.	Ratio: 8644/8173
62 = Cents + 195.	Ratio: 10974/9805
63 = Cents + 312.	Ratio: 11873/9915
64 = Cents + 397.	Ratio: 3372/2681
65 = Cents + 515.	Ratio: 9782/7265
66 = Cents + 596.	Ratio: 12731/9023
67 = Cents + 692.	Ratio: 13439/9011
68 = Cents + 782.	Ratio: 6031/3839
69 = Cents + 883.	Ratio: 6793/4079
70 = Cents + 997.	Ratio: 4863/2734
71 = Cents + 1092.	Ratio: 12599/6705
72 = Cents + 1207.	Ratio: 15117/7528

54. 7-limit 12-tone scale

60 = Cents	0. Ra	tio: 1/1 (JUST)
61 = Cents	+111.731285	Ratio: 16/15 (JUST)
62 = Cents	+203.910002	Ratio: 9/8 (JUST)
63 = Cents	+266.870906	Ratio: 7/6 (JUST)
64 = Cents	+386.313714	Ratio: 5/4 (JUST)
65 = Cents	+498.044999	Ratio: 4/3 (JUST)
66 = Cents	+582.512193	Ratio: 7/5 (JUST)
67 = Cents	+701.955001	Ratio: 3/2 (JUST)
68 = Cents	+813.686286	Ratio: 8/5 (JUST)
69 = Cents	+933.129094	Ratio: 12/7 (JUST)
70 = Cents	+968.825906	Ratio: 7/4 (JUST)
71 = Cents	+1088.268715	Ratio: 15/8 (JUST)
72 = Cents	+1200.	Ratio: 2/1 (JUST)

55. Alternate 7-limit 12-tone scale

60 = Cents 0.	Ratio: 1/1 (JUST)
61 = Cents + 70.672427	Ratio: 25/24 (JUST)
62 = Cents + 182.40371	2 Ratio: 10/9 (JUST)
63 = Cents + 266.87090	6 Ratio: 7/6 (JUST)
64 = Cents +386.31371	4 Ratio: 5/4 (JUST)
65 = Cents +470.78090	7 Ratio: 21/16 (JUST)
66 = Cents + 582.51219	3 Ratio: 7/5 (JUST)
67 = Cents +701.95500	1 Ratio: 3/2 (JUST)
68 = Cents +813.68628	6 Ratio: 8/5 (JUST)
69 = Cents +933.12909	4 Ratio: 12/7 (JUST)

70 = Cents + 968.825906	Ratio: 7/4 (JUST)
71 = Cents + 1088.268715	Ratio: 15/8 (JUST)
72 = Cents + 1200.	Ratio: 2/1 (JUST)

56. Kurzweil "Just with natural b7th", is Sauveur Just with 7/4 60 = Cents 0.Ratio: 1/1 (JUST) 61 = Cents + 70.672427Ratio: 25/24 (JUST) 62 = Cents + 203.910002Ratio: 9/8 (JUST) 63 = Cents + 315.641287Ratio: 6/5 (JUST) 64 = Cents + 386.313714Ratio: 5/4 (JUST) 65 = Cents + 498.044999Ratio: 4/3 (JUST) 66 = Cents + 590.223716Ratio: 45/32 (JUST) Ratio: 3/2 (JUST) 67 = Cents +701.955001 68 = Cents + 813.686286Ratio: 8/5 (JUST) 69 = Cents +884.358713 Ratio: 5/3 (JUST) 70 = Cents + 968.825906Ratio: 7/4 (JUST) 71 = Cents + 1088.268715Ratio: 15/8 (JUST) 72 = Cents + 1200.Ratio: 2/1 (JUST)

57.3	and 7	prime	rational	interp	pretatio	n of 17-tET

60 = Cents 0. Ra	tio: 1/1 (JUST)
61 = Cents + 62.960904	Ratio: 28/27 (JUST)
62 = Cents + 140.949098	Ratio: 243/224
63 = Cents + 203.910002	Ratio: 9/8 (JUST)
64 = Cents +294.134997	Ratio: 32/27 (JUST)
65 = Cents + 357.095901	Ratio: 896/729
66 = Cents + 435.084095	Ratio: 9/7 (JUST)
67 = Cents + 498.044999	Ratio: 4/3 (JUST)
68 = Cents + 561.005903	Ratio: 112/81 (JUST)
69 = Cents +638.994097	Ratio: 81/56 (JUST)
70 = Cents + 701.955001	Ratio: 3/2 (JUST)
71 = Cents + 764.915905	Ratio: 14/9 (JUST)
72 = Cents + 842.904099	Ratio: 729/448
73 = Cents + 905.865003	Ratio: 27/16 (JUST)
74 = Cents + 996.089998	Ratio: 16/9 (JUST)
75 = Cents + 1059.050902	Ratio: 448/243
76 = Cents + 1137.039096	Ratio: 27/14 (JUST)
77 = Cents + 1200.	Ratio: 2/1 (JUST)

58. 11-limit 'prime row' from Ben Johnston's "6th Quartet". Not octave repeating, with some very narrow intervals. These are the first 30 pitches: $0 = Cents \ 0.$ Ratio: 1/1 (JUST) 1 = Cents + 70.672427 Ratio: 25/24 (JUST)

2 = Cents + 182.403712	Ratio: 10/9 (JUST)
3 = Cents + 274.582429	Ratio: 75/64 (JUST)
4 = Cents +386.313714	Ratio: 5/4 (JUST)
5 = Cents + 505.756522	Ratio: 75/56 (JUST)
6 = Cents + 568.717426	Ratio: 25/18 (JUST)
7 = Cents +733.721654	Ratio: 55/36 (JUST)
8 = Cents + 772.627428	Ratio: 25/16 (JUST)
9 = Cents +884.358713	Ratio: 5/3 (JUST)
10 = Cents + 923.264486	Ratio: 75/44 (JUST)
11 = Cents + 1088.268715	Ratio: 15/8 (JUST)
12 = Cents + 1151.229619	Ratio: 35/18 (JUST)
13 = Cents + 1221.902045	Ratio: 875/432
14 = Cents + 1333.633331	Ratio: 175/81 (JUST)
15 = Cents + 1425.812047	Ratio: 875/384
16 = Cents + 1537.543332	Ratio: 175/72 (JUST)
17 = Cents + 1656.986141	Ratio: 125/48 (JUST)
18 = Cents + 1719.947045	Ratio: 875/324
19 = Cents + 1884.951273	Ratio: 1925/648
20 = Cents + 1923.857046	Ratio: 875/288
21 = Cents + 2035.588332	Ratio: 175/54 (JUST)
22 = Cents + 2074.494105	Ratio: 875/264
23 = Cents + 2239.498333	Ratio: 175/48 (JUST)
24 = Cents + 2302.459237	Ratio: 1225/324
25 = Cents + 2373.131664	Ratio: 30625/7776
26 = Cents + 2484.862949	Ratio: 6125/1458
27 = Cents + 2577.041666	Ratio: 30625/6912
28 = Cents + 2688.772951	Ratio: 6125/1296
29 = Cents + 2808.215759	Ratio: 4375/864
30 = Cents + 2871.176663	Ratio: 30625/5832

59. 1/9-Harrison's comma mean-tone scale

60 = Cents 0.	Ratio: 1/1 (JUST)
61 = Cents + 74.23293	Ratio: 8315/7966
62 = Cents + 192.63798	Ratio: 6334/5667
63 = Cents + 266.87090	6 Ratio: 7/6 (JUST)
64 = Cents + 385.27596	Ratio: 6671/5340
65 = Cents + 503.68101	Ratio: 13025/9737
66 = Cents + 577.91394	Ratio: 2632/1885
67 = Cents + 696.31899	Ratio: 14567/9743
68 = Cents + 770.55192	Ratio: 9743/6243
69 = Cents + 888.95697	Ratio: 1885/1128
70 = Cents + 963.1899	Ratio: 13187/7560
71 = Cents + 1081.5949	5 Ratio: 1780/953
72 = Cents + 1200.	Ratio: 2/1 (JUST)

60. Rousseau's Monochord, Dictionnaire de musique (1768) 60 = Cents 0.Ratio: 1/1 (JUST) 61 = Cents + 70.672427Ratio: 25/24 (JUST) 62 = Cents + 203.910002Ratio: 9/8 (JUST) 63 = Cents + 315.641287Ratio: 6/5 (JUST) 64 = Cents + 386.313714Ratio: 5/4 (JUST) 65 = Cents + 498.044999Ratio: 4/3 (JUST) 66 = Cents + 568.717426Ratio: 25/18 (JUST) 67 = Cents + 701.955001Ratio: 3/2 (JUST) Ratio: 8/5 (JUST) 68 = Cents + 813.68628669 = Cents +884.358713 Ratio: 5/3 (JUST) 70 = Cents + 1017.596288Ratio: 9/5 (JUST) 71 = Cents + 1088.268715Ratio: 15/8 (JUST) 72 = Cents + 1200.Ratio: 2/1 (JUST)

61. Persian santur tuning. 1/1=E in original. Here it is set to C. Note that scale is 8 notes per octave, so it will not map normally to a 12 note keyboard.

60 = Cents	0.	Ratio: 1/1 (JUST)
61 = Cents	+129.99971	Ratio: 10727/9951
62 = Cents	+345.	Ratio: 4710/3859
63 = Cents	+490.00034	Ratio: 5797/4368
64 = Cents	+630.00051	Ratio: 8153/5666
65 = Cents	+849.99952	Ratio: 13952/8539
66 = Cents	+1034.9997	5 Ratio: 20/11 (just)
67 = Cents	+1137.0001	1 Ratio: 15866/8227
68 = Cents	+1200.	Ratio: 2/1 (JUST)
69 = Cents	+1329.9997	1 Ratio: 21454/9951
70 = Cents	+1545.	Ratio: 18281/7489
71 = Cents	+1690.0003	4 Ratio: 5797/2184
72 = Cents	+1830.0005	1 Ratio: 28347/9850
73 = Cents	+2049.9995	2 Ratio: 32211/9857
74 = Cents	+2234.9997	5 Ratio: 36331/9991
75 = Cents	+2337.0001	1 Ratio: 38073/9871
76 = Cents	+2400.	Ratio: 4/1 (JUST)

62. Vallotti & Young (Vallotti version)

60 = Cents 0.	Ratio: 1/1 (JUST)
61 = Cents + 94.135	Ratio: 10487/9932
62 = Cents + 196.09	Ratio: 10851/9689
63 = Cents + 298.045	Ratio: 4679/3939
64 = Cents + 392.18	Ratio: 3843/3064
65 = Cents + 501.955	Ratio: 5467/4091
66 = Cents + 592.18	Ratio: 13863/9847

67 = Cents + 698.045	Ratio: 8182/5467
68 = Cents + 796.09	Ratio: 13019/8220
69 = Cents + 894.135	Ratio: 2427/1448
70 = Cents + 1000.	Ratio: 17189/9647
71 = Cents + 1090.225	Ratio: 18484/9847
72 = Cents + 1200.	Ratio: 2/1 (JUST)

63. LaMonte Young, Tuning of For Guitar '58. 1/1 March '92, inv.of Mersenne lute 1 60 = Cents 0.Ratio: 1/1 (JUST) 61 = Cents + 111.731285Ratio: 16/15 (JUST) 62 = Cents + 182.403712Ratio: 10/9 (JUST) 63 = Cents + 315.641287Ratio: 6/5 (JUST) 64 = Cents + 386.313714Ratio: 5/4 (JUST) 65 = Cents + 498.044999Ratio: 4/3 (JUST) 66 = Cents + 590.223716Ratio: 45/32 (JUST) 67 = Cents +701.955001 Ratio: 3/2 (JUST) 68 = Cents +813.686286 Ratio: 8/5 (JUST) 69 = Cents +884.358713 Ratio: 5/3 (JUST) 70 = Cents + 1017.596288Ratio: 9/5 (JUST) 71 = Cents + 1088.268715Ratio: 15/8 (JUST) 72 = Cents + 1200.Ratio: 2/1 (JUST)

64. LaMonte Young's Well-Tuned Piano

60 = Cents 0.	Ratio: 1/1 (JUST)
61 = Cents + 176.64591	Ratio: 567/512
62 = Cents + 203.910002	2 Ratio: 9/8 (JUST)
63 = Cents + 239.606814	Ratio: 147/128
64 = Cents + 470.780907	7 Ratio: 21/16 (JUST)
65 = Cents + 443.516816	6 Ratio: 1323/1024
66 = Cents + 674.690909	P Ratio: 189/128
67 = Cents + 701.955001	Ratio: 3/2 (JUST)
68 = Cents + 737.651813	8 Ratio: 49/32 (JUST)
69 = Cents +968.825906	6 Ratio: 7/4 (JUST)
70 = Cents + 941.561815	5 Ratio: 441/256
71 = Cents + 1172.73590	08 Ratio: 63/32 (JUST)
72 = Cents + 1200.	Ratio: 2/1 (JUST)

65. Thomas Young - well temperament (1807), also Luigi Malerbi nr.2 (1794)60 = Cents 0.Ratio: 1/1 (JUST)61 = Cents +90.224996Ratio: 256/24362 = Cents +196.09Ratio: 10851/968963 = Cents +294.134997Ratio: 32/27 (JUST)64 = Cents +392.18Ratio: 3843/306465 = Cents +498.044999Ratio: 4/3 (JUST)