

EPS scales and tuning tables generated from scale tables
compiled by Terje Finstad t.g.finstad@fys.uio.no

NOTE: these may be not *entirely* correct!
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how to practically do it on the EPS:
Pick a one-layer instrument (for easy aural feedback) and select
[Command][Pitch]<EDIT PITCH TABLE>[Enter*yes]
then press the key C4 and the display shows
KEY C4 = C4 0 CENTS
Then press C4+ ,the display shows
KEY C4+ = C4+ 0 CENTS ,scroll the cursor right to display
KEY C4+ = C4+ 5 according to the table above
scroll left again and do similar for all steps until
B4+ = A+ 88 ,
C5 = C5 0 ,

You need only to enter one octave, now press [Enter*Yes] then scroll
to the command [Command][Pitch]<EXTRAPOLATE PITCH TABLE>[Enter*Yes]
This fills all the octaves.

Save the instrument, copy the pitch table etc. as needed.
Select the pitchtable by [Edit][Layer]<PITCHTABLE=PITCHTABLE X>

12THarmon

Notes in scale: 12

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0
17/16		104.96	4C+	4
9/8		203.91	4D	3
19/16		297.51	4D	97
5/4		386.31	4D+	86
21/16		470.78	4E	70
11/8		551.32	4F	51
23/16		628.27	4F+	28
3/2		701.96	4G	1
13/8		840.53	4G+	40
7/4		968.83	4A	68
15/8		1088.27	4A+	88

WHITE Pelog USA designed by Dan Schmidt and used by Berkeley Gamelan

Notes in scale: 7

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0
11/10		165.00	4C+	65
6/5		315.64	4D+	15
7/5		582.51	4F	82
3/2		701.96	4G	1
8/5		813.69	4G+	13
9/5		1017.60	4A+	17

WHITE Lou's middle A 'middle' mode from Lou Harrison

Notes in scale: 7

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0
9/8		203.91	4D	3
6/5		315.64	4D+	15
4/3		498.04	4E	98
3/2		701.96	4G	1
5/3		884.36	4G+	84
7/4		968.83	4A	68

WHITE Lou mid 2

Notes in scale: 7

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0
9/8		203.91	4D	3
6/5		315.64	4D+	15
4/3		498.04	4E	98
3/2		701.96	4G	1
12/7		933.13	4A	33
9/5		1017.60	4A+	17

WHITE Soft diaton From lou harrison a soft diatonic

Notes in scale: 7

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0
21/20		84.47	4C	84
6/5		315.64	4D+	15
4/3		498.04	4E	98
3/2		701.96	4G	1
63/40		786.42	4G	86
9/5		1017.60	4A+	17

Some Other San Francisco; WHITE: Ptolemy's intense diatonic; BLACK 7's

Notes in scale: 12

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0
15/14		119.44	4C+	19
9/8		203.91	4D	3
7/6		266.87	4D	66
5/4		386.31	4D+	86
4/3		498.04	4E	98
7/5		582.51	4F	82
3/2		701.96	4G	1
14/9		764.92	4G	64
5/3		884.36	4G+	84
7/4		968.83	4A	68
15/8		1088.27	4A+	88

Wendy Carlos alpha 15385 equal temperament gives thirds and fifths

Notes in scale: 18

Terje Data	Given As	Calculated Cents	EPS	Tuning
0	Cents	0.00	4C	0
78		78.00	4C	77
156		156.00	4C+	56
234		234.00	4D	34
312		312.00	4D+	11
390		390.00	4D+	89
467		467.00	4E	67
546		546.00	4F	46
624		624.00	4F+	23
702		702.00	4G	1
780		780.00	4G	80
858		858.00	4G+	57
936		936.00	4A	36
1014		1014.00	4A+	14
1092		1092.00	4A+	92
1170		1170.00	4B	69
1248		1248.00	5C	47
1326		1326.00	5C+	25

WHITE Ptol homalon " Equable" from equal string division

Notes in scale: 6

Terje Data	Given As	Calculated Cents	EPS	Tuning
12/11	Relative	150.64	4C+	50

11/10	315.64	4D+	15
10/9	498.04	4E	98
9/8	701.96	4G	1
12/11	852.59	4G+	52
11/10	1017.60	4A+	17

WHITE Old Ionic Ancient greek Ionic
Notes in scale: 7

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0
9/8		203.91	4D	3
5/4		386.31	4D+	86
4/3		498.04	4E	98
3/2		701.96	4G	1
5/3		884.36	4G+	84
9/5		1017.60	4A+	17

WHITE Old Aeolic Ancient Greek aeolic
Notes in scale: 7

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0
9/8		203.91	4D	3
32/27		294.13	4D	94
4/3		498.04	4E	98
3/2		701.96	4G	1
128/81		792.18	4G	92
16/9		996.09	4A	96

WHITE Farabi X Al Farabi's Chromatic c700 AD
Notes in scale: 7

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0
9/8		203.91	4D	3
27/20		519.55	4F	19
729/512		611.73	4F+	11
3/2		701.96	4G	1
9/5		1017.60	4A+	17
19/10		1111.20	4B	11

WHITE Blue Farabi Another tuning from Al Farabi c700 AD
Notes in scale: 7

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0
9/8		203.91	4D	3
45/32		590.22	4F	90
131/90		649.88	4F+	49
3/2		701.96	4G	1
15/8		1088.27	4A+	88
31/16		1145.04	4B	45

WHITE Zalzal Modern Arabic scale
Notes in scale: 7

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0
9/8		203.91	4D	3
27/22		354.55	4D+	54
4/3		498.04	4E	98
3/2		701.96	4G	1
18/11		852.59	4G+	52
16/9		996.09	4A	96

WHITE Rast Medieval arabic scale
Notes in scale: 7

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0

9/8	203.91	4D	3
8192/6561	384.36	4D+	84
4/3	498.04	4E	98
3/2	701.96	4G	1
32768/19683	882.40	4G+	82
16/9	996.09	4A	96

WHITE Zenkouleh Medieval arabic scale

Notes in scale: 6

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0
9/8		203.91	4D	3
8192/6561		384.36	4D+	84
4/3		498.04	4E	98
262144/177147		678.49	4F+	78
32768/19683		882.40	4G+	82

WHITE Rahawi Medieval arabic scale

Notes in scale: 7

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0
65536/59049		180.45	4C+	80
8192/6561		384.36	4D+	84
4/3		498.04	4E	98
262144/177147		678.49	4F+	78
128/81		792.18	4G	92
16/9		996.09	4A	96

WHITE Hhosaini Medieval arabic scale

Notes in scale: 7

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0
65536/59049		180.45	4C+	80
32/27		294.13	4D	94
4/3		498.04	4E	98
262144/177147		678.49	4F+	78
27/16		905.87	4A	5
16/9		996.09	4A	96

WHITE Hhidjazi Medieval arabic scale

Notes in scale: 7

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0
65536/59049		180.45	4C+	80
32/27		294.13	4D	94
4/3		498.04	4E	98
262144/177147		678.49	4F+	78
32768/19683		882.40	4G+	82
16/9		996.09	4A	96

WHITE Port Bag 1 Portuguese bagpipe tuning

Notes in scale: 7

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0
14/13		128.30	4C+	28
81/68		302.86	4D+	2
32/25		427.37	4E	27
36/25		631.28	4F+	31
128/81		792.18	4G	92
7/4		968.83	4A	68

Port Bag 2 An observed bagpipe tuning from Mirada do Dorro Portugal

Notes in scale: 12

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0

21/20	84.47	4C	84
14/13	128.30	4C+	28
32/27	294.13	4D	94
17/14	336.13	4D+	36
21/16	470.78	4E	70
64/45	609.78	4F+	9
3/2	701.96	4G	1
25/16	772.63	4G	72
59/32	1059.17	4A+	59
21/10	1284.47	5C	84
25/11	1421.31	5D	21

WHITE Scot Bag 1 Like most bagpipe tunings includes intervals involving 11
Notes in scale: 7

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0
10/9		182.40	4C+	82
5/4		386.31	4D+	86
15/11		536.95	4F	36
40/27		680.45	4F+	80
10/6		884.36	4G+	84
11/6		1049.36	4A+	49

WHITE Scot Bag 2
Notes in scale: 7

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0
10/9		182.40	4C+	82
11/9		347.41	4D+	47
4/3		498.04	4E	98
3/2		701.96	4G	1
18/11		852.59	4G+	52
9/5		1017.60	4A+	17

WHITE Scot bag 3
Notes in scale: 6

Terje Data	Given As	Calculated Cents	EPS	Tuning
9/8	Ratio	203.91	4D	3
5/4		386.31	4D+	86
11/8		551.32	4F	51
3/2		701.96	4G	1
27/16		905.87	4A	5
11/6		1049.36	4A+	49

De Caus 12-tone just tuning by 17th c inventor/philosopher Salomon de Caus
Notes in scale: 12

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0
126/121		70.10	4C	70
10/9		182.40	4C+	82
75/64		274.58	4D	74
5/4		386.31	4D+	86
4/3		498.04	4E	98
25/18		568.72	4F	68
3/2		701.96	4G	1
25/16		772.63	4G	72
5/3		884.36	4G+	84
16/9		996.09	4A	96
15/8		1088.27	4A+	88

WHITE Indian A One observed indian mode
Notes in scale: 7

Terje Data	Given As	Calculated Cents	EPS	Tuning
0	Cents	0.00	4C	0
183		183.00	4C+	82

342	342.00	4D+	41
533	533.00	4F	33
685	685.00	4F+	85
871	871.00	4G+	70
1074	1074.00	4A+	74

WHITE Indian D Observed indian mode
Notes in scale: 7

Terje Data	Given As	Calculated Cents	EPS	Tuning
0	Cents	0.00	4C	0
183		183.00	4C+	82
342		342.00	4D+	41
533		533.00	4F	33
685		685.00	4F+	85
871		871.00	4G+	70
1074		1074.00	4A+	74

WHITE Indian B Observed Indian mode
Notes in scale: 7

Terje Data	Given As	Calculated Cents	EPS	Tuning
0	Cents	0.00	4C	0
183		183.00	4C+	82
271		271.00	4D	70
534		534.00	4F	34
686		686.00	4F+	86
872		872.00	4G+	72
983		983.00	4A	82

WHITE Indian C Observed Indian mode
Notes in scale: 7

Terje Data	Given As	Calculated Cents	EPS	Tuning
0	Cents	0.00	4C	0
111		111.00	4C+	10
314		314.00	4D+	14
534		534.00	4F	34
686		686.00	4F+	86
828		828.00	4G+	28
1017		1017.00	4A+	17

WHITE Indian E Observed Indian Mode
Notes in scale: 7

Terje Data	Given As	Calculated Cents	EPS	Tuning
0	Cents	0.00	4C	0
90		90.00	4C	89
366		366.00	4D+	66
493		493.00	4E	93
707		707.00	4G	7
781		781.00	4G	81
1080		1080.00	4A+	80

WHITE Ch Sheng Observed tuning from chinese sheng or mouth organ
Notes in scale: 7

Terje Data	Given As	Calculated Cents	EPS	Tuning
0	Cents	0.00	4C	0
210		210.00	4D	10
338		338.00	4D+	37
498		498.00	4E	98
715		715.00	4G	15
908		908.00	4A	7
1040		1040.00	4A+	40

WHITE Chin bronze scale from ancient Chinese bronze instrument from the 3rd c

Notes in scale: 7

Terje Data	Given As	Calculated Cents	EPS	Tuning
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1/1	Ratio	0.00	4C	0
8/7		231.17	4D	31
6/5		315.64	4D+	15
5/4		386.31	4D+	86
4/3		498.04	4E	98
3/2		701.96	4G	1
5/3		884.36	4G+	84

BLACK S Pacific Observed south pacific xylophone tuning

Notes in scale: 5

Terje Data	Given As	Calculated Cents	EPS	Tuning
0	Cents	0.00	4C	0
202		202.00	4D	1
370		370.00	4D+	69
685		685.00	4F+	85
903		903.00	4A	2

WHITE Singapore An observed xylophone tuning from Singapore

Notes in scale: 7

Terje Data	Given As	Calculated Cents	EPS	Tuning
0	Cents	0.00	4C	0
187		187.00	4C+	87
356		356.00	4D+	56
526		526.00	4F	25
672		672.00	4F+	72
856		856.00	4G+	56
985		985.00	4A	85

WHITE Observed scale from Thailand

Notes in scale: 7

Terje Data	Given As	Calculated Cents	EPS	Tuning
0	Cents	0.00	4C	0
129		129.00	4C+	28
277		277.00	4D	76
508		508.00	4F	7
726		726.00	4G	25
771		771.00	4G	70
1029		1029.00	4A+	28

WHITE African Xylophone from W Africa

Notes in scale: 7

Terje Data	Given As	Calculated Cents	EPS	Tuning
0	Cents	0.00	4C	0
152		152.00	4C+	51
287		287.00	4D	87
533		533.00	4F	33
724		724.00	4G	23
890		890.00	4G+	89
1039		1039.00	4A+	38

WHITE Pelog japanese

Notes in scale: 7

Terje Data	Given As	Calculated Cents	EPS	Tuning
0	Cents	0.00	4C	0
137		137.00	4C+	37
446		446.00	4E	46
575		575.00	4F	75
687		687.00	4F+	87
820		820.00	4G+	20
1098		1098.00	4A+	98

BLACK Slendro japanese

Notes in scale: 5

Terje Data	Given As	Calculated Cents	EPS	Tuning
0	Cents	0.00	4C	0

228	228.00	4D	28
484	484.00	4E	83
728	728.00	4G	28
960	960.00	4A	60

6 tones on keys C D E F# G# A#

Notes in scale: 6

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0
9/8		203.91	4D	3
5/4		386.31	4D+	86
3/2		701.96	4G	1
5/3		884.36	4G+	84
15/8		1088.27	4A+	88

6 tones on keys C D E F# G# A#

Notes in scale: 6

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0
6/5		315.64	4D+	15
4/3		498.04	4E	98
3/2		701.96	4G	1
8/5		813.69	4G+	13
9/5		1017.60	4A+	17

Raja 6 A folk scale from Rajasthan India; 6 tones on keys C D E F# G# A#

Notes in scale: 6

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0
9/8		203.91	4D	3
5/4		386.31	4D+	86
4/3		498.04	4E	98
3/2		701.96	4G	1
15/8		1088.27	4A+	88

Terpander 6 on keys C D E F# G# A#

Notes in scale: 6

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0
11/10		165.00	4C+	65
11/9		347.41	4D+	47
11/8		551.32	4F	51
11/7		782.49	4G	82
11/6		1049.36	4A+	49

BLACK Prime 5 What Lou Harrison calls " the Prime Pentatonic"

Notes in scale: 5

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0
9/8		203.91	4D	3
5/4		386.31	4D+	86
3/2		701.96	4G	1
5/3		884.36	4G+	84

BLACK Korea 5 According to Lou Harrison called " the Delightful" in Korea

Notes in scale: 5

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0
9/8		203.91	4D	3
4/3		498.04	4E	98
3/2		701.96	4G	1
9/5		1017.60	4A+	17

BLACK Hiradoshi 5 Observed Japanese pentatonic koto scale

Notes in scale: 5

Terje Data	Given As	Calculated Cents	EPS	Tuning
0	Cents	0.00	4C	0
185		185.00	4C+	85
337		337.00	4D+	37
683		683.00	4F+	82
790		790.00	4G	89

BLACK Hira II-5 Another Japanese pentatonic koto scale

Notes in scale: 5

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0
9/8		203.91	4D	3
6/5		315.64	4D+	15
3/2		701.96	4G	1
8/5		813.69	4G+	13

BLACK Olympos 5 Scale of ancient greek flutist Olympos 6th c BC

Notes in scale: 5

Terje Data	Given As	Calculated Cents	EPS	Tuning
1/1	Ratio	0.00	4C	0
16/15		111.73	4C+	11
4/3		498.04	4E	98
64/45		609.78	4F+	9
16/9		996.09	4A	96

BLACK Golden 5 Based on the golden section; fibonacci

Notes in scale: 4

Terje Data	Given As	Calculated Cents	EPS	Tuning
5/4	Ralative	386.31	4D+	86
21/20		470.78	4E	70
8/7		701.96	4G	1
13/12		840.53	4G+	40

BLACK Septro 1-5 A slendro type pentatonic which is based on intervals of 7

Notes in scale: 4

Terje Data	Given As	Calculated Cents	EPS	Tuning
8/7	Ralative	231.17	4D	31
9/8		435.08	4E	35
7/6		701.96	4G	1
8/7		933.13	4A	33

BLACK Septro 2-5 A slendro type pentatonic which is based on intervals of 7;

Notes in scale: 4

Terje Data	Given As	Calculated Cents	EPS	Tuning
7/6	Ralative	266.87	4D	66
8/7		498.04	4E	98
9/8		701.96	4G	1
7/6		968.83	4A	68

BLACK Mixed 4-5 A " Mixed type" pentatonic from Lou Harrison

Notes in scale: 4

Terje Data	Given As	Calculated Cents	EPS	Tuning
12/11	Ralative	150.64	4C+	50
11/10		315.64	4D+	15
5/4		701.96	4G	1
13/12		840.53	4G+	40

BLACK Septro 4-5 A slendro type pentatonic which is based on intervals of 7;

Notes in scale: 4

Terje Data	Given As	Calculated Cents	EPS	Tuning
9/8	Ralative	203.91	4D	3
32/27		498.04	4E	98
9/8		701.96	4G	1
8/7		933.13	4A	33

BLACK Minor 1-5 From Lou Harrison a symmetrical pentatonic with minor thirds

Notes in scale: 4

Terje Data	Given As	Calculated Cents	EPS	Tuning
6/5	Ralative	315.64	4D+	15
10/9		498.04	4E	98
9/8		701.96	4G	1
10/9		884.36	4G+	84

BLACK Minor 2-5 From Lou Harrison a pentatonic with minor thirds

Notes in scale: 4

Terje Data	Given As	Calculated Cents	EPS	Tuning
8/7	Ralative	231.17	4D	31
7/6		498.04	4E	98
6/5		813.69	4G+	13
10/9		996.09	4A	96

BLACK LPL 1-5 From Lou Harrison a pelog style pentatonic

Notes in scale: 4

Terje Data	Given As	Calculated Cents	EPS	Tuning
16/15	Ralative	111.73	4C+	11
9/8		315.64	4D+	15
5/4		701.96	4G	1
16/15		813.69	4G+	13

BLACK LPL 2-5 From Lou Harrison a pelog style pentatonic

Notes in scale: 4

Terje Data	Given As	Calculated Cents	EPS	Tuning
12/11	Ralative	150.64	4C+	50
11/10		315.64	4D+	15
5/4		701.96	4G	1
16/15		813.69	4G+	13

BLACK LPL 3-5 From Lou Harrison a pelog style pentatonic

Notes in scale: 4

Terje Data	Given As	Calculated Cents	EPS	Tuning
28/27	Ralative	62.96	4C	62
9/7		498.04	4E	98
9/8		701.96	4G	1
28/27		764.92	4G	64

BLACK LPL 4-5 From Lou Harrison a pelog style pentatonic

Notes in scale: 4

Terje Data	Given As	Calculated Cents	EPS	Tuning
16/15	Ralative	111.73	4C+	11
9/8		315.64	4D+	15
5/4		701.96	4G	1
5/4		1088.27	4A+	88

BLACK Mixed 1-5 A " Mixed type" pentatonic from Lou Harrison

Notes in scale: 4

Terje Data	Given As	Calculated Cents	EPS	Tuning
6/5	Ralative	315.64	4D+	15
10/9		498.04	4E	98
9/8		701.96	4G	1
5/4		1088.27	4A+	88

BLACK Mixed 2-5 A " Mixed type" pentatonic from Lou Harrison

Notes in scale: 4

Terje Data	Given As	Calculated Cents	EPS	Tuning
6/5	Ralative	315.64	4D+	15
15/14		435.08	4E	35
7/6		701.96	4G	1
16/15		813.69	4G+	13

BLACK Mixed 3-5 A " Mixed type" pentatonic from Lou Harrison

Notes in scale: 4

--- Terje Data ---	Given As	--- Calculated Cents ---	EPS	Tuning ---
15/14	Relative	119.44	4C+	19
7/6		386.31	4D+	86
6/5		701.96	4G	1
8/7		933.13	4A	33