

Catalog of 7 note scales used in *Homage to Wyschnegradsky*. Warren Burt  
2005

The 7 note scales are made by stacking, Pythagorean fashion, a 550c generator interval (11/8 ratio, almost). The 7 note scale made in that way is then rotated 6 more times to produce modes. The 13 note scale at the end is the sum of all the 7 note scales, and is the same scale used by Ivan Wyschnegradsky in his 24 Preludes, Op. 22 for 2 quarter tone pianos. All these scales exhibit MOS (Moment of Symmetry) characteristics - they all have only 2 kinds of intervals in them, and the intervals are clumped into repeating blocks. In this respect, they mirror the structure of the conventional diatonic scale.

Name      Description

**Mode 1** - 7 note quarter-tone scale 7 2 2 7 2 2 2 quarter-tones in scale

0:	0.000 cents
1:	350.000 cents
2:	450.000 cents
3:	550.000 cents
4:	900.000 cents
5:	1000.000 cents
6:	1100.000 cents
7:	1200.000 cents

**Mode 2** - 7 note quarter-tone scale 2 7 2 2 7 2 2 quarter-tones in scale

0:	0.000 cents
1:	100.000 cents
2:	450.000 cents
3:	550.000 cents
4:	650.000 cents
5:	1000.000 cents
6:	1100.000 cents
7:	1200.000 cents

**Mode 3** - 7 note quarter-tone scale 2 2 7 2 2 7 2 quarter-tones in scale

0:	0.000 cents
1:	100.000 cents
2:	200.000 cents
3:	550.000 cents
4:	650.000 cents
5:	750.000 cents
6:	1100.000 cents
7:	1200.000 cents

**Mode 4** - 7 note quarter-tone scale 2 2 2 7 2 2 7 quarter-tones in scale

0:	0.000 cents
1:	100.000 cents
2:	200.000 cents
3:	300.000 cents
4:	650.000 cents
5:	750.000 cents
6:	850.000 cents
7:	1200.000 cents

**Mode 5** - 7 note quarter-tone scale 2 2 7 2 2 2 7 quarter-tones in scale

0:	0.000 cents
1:	100.000 cents
2:	200.000 cents
3:	550.000 cents
4:	650.000 cents
5:	750.000 cents
6:	850.000 cents
7:	1200.000 cents

**Mode 6** - 7 note quarter-tone scale 2 7 2 2 2 7 2 quarter-tones in scale

0:	0.000 cents
1:	100.000 cents
2:	450.000 cents
3:	550.000 cents
4:	650.000 cents
5:	750.000 cents
6:	1100.000 cents
7:	1200.000 cents

**Mode 7** - 7 note quarter-tone scale 7 2 2 2 7 2 2 quarter-tones in scale

0:	0.000 cents
1:	350.000 cents
2:	450.000 cents
3:	550.000 cents
4:	650.000 cents
5:	1000.000 cents
6:	1100.000 cents
7:	1200.000 cents

**Sum of 7 note modes.** 13 note scale 2 2 2 1 2 2 2 2 2 1 2 2 2 quarter-  
tone intervals.

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0: 0.000 cents  
1: 100.000 cents  
2: 200.000 cents  
3: 300.000 cents  
4: 350.000 cents  
5: 450.000 cents  
6: 550.000 cents  
7: 650.000 cents  
8: 750.000 cents  
9: 850.000 cents  
10: 900.000 cents  
11: 1000.000 cents  
12: 1100.000 cents  
13: 1200.000 cents