

## Appendix C - Chords and Scales

Notes	Complexity	Standard Notation	Pitch Classes	Intervals	Description
1	0	C	0	12	Unison, Octave
2	1	C F	0 5	5 7	Perfect 5th, Perfect 4th
2	2	C D	0 2	2 10	Major 2nd, Minor 7th
2	3	C Eb	0 3	3 9	Minor 3rd, Major 6th
2	4	C E	0 4	4 8	Major 3rd, Minor 6th
2	5	C Db	0 1	1 11	Minor 2nd, Major 7th
2	6	C F#	0 6	6 6	Tritone, b5, #4
3	2	C F G	0 5 7	5 2 5	Sus 4
3	3	C D F	0 2 5	2 3 7	(Minor 7 omit 5)
3	3	C Eb F	0 3 5	3 2 7	(Minor 7 or Dominant 7 omit 3)
3	4	C D E	0 2 4	2 2 8	(Major three note cluster)
3	4	C Eb G	0 3 7	3 4 5	Minor Triad
3	4	C E G	0 4 7	4 3 5	Major Triad
3	5	C Db Eb	0 1 3	1 2 9	(Phrygian 3 note cluster)
3	5	C D Eb	0 2 3	2 1 9	(Minor 3 note cluster)
3	5	C Db F	0 1 5	1 4 7	(Major 7 omit 5)
3	5	C E F	0 4 5	4 1 7	(Major 7 omit 3)
3	6	C D F#	0 2 6	2 4 6	(Dominant 7 omit 5)
3	6	C E F#	0 4 6	4 2 6	(Minor 7b5 omit 3)
3	6	C Eb Gb	0 3 6	3 3 6	Diminished Triad
3	6	C Db Gb	0 1 6	1 5 6	
3	6	C F Gb	0 5 6	5 1 6	
3	7	C Db E	0 1 4	1 3 8	(Minor #7 no 5)
3	7	C D# E	0 3 4	3 1 8	(Major 7#5 no 3)
3	8	C E G#	0 4 8	4 4 4	Augmented Triad
4	3	C F G Bb	0 5 7 10	5 2 5 2	Dominant 7sus4
4	4	C D E G	0 2 4 7	2 2 3 5	Major add 9
4	4	C Eb F G	0 3 5 7	3 2 2 5	Minor add 11
4	4	C Eb G Bb	0 3 7 10	3 4 3 2	Minor 7
4	5	C Db Eb F	0 1 3 5	1 2 2 7	(Phrygian 4 note cluster)
4	5	C D E F	0 2 4 5	2 2 1 7	(Major 4 note cluster)
4	5	C D Eb F	0 2 3 5	2 1 2 7	(Minor 4 note cluster)
4	5	C D Eb G	0 2 3 7	2 1 4 5	Minor add 9
4	5	C E F G	0 4 5 7	4 1 2 5	Major add 11
4	5	C E G B	0 4 7 11	4 3 4 1	Major 7
4	6	C Db Eb Gb	0 1 3 6	1 2 3 6	Diminished add b9
4	6	C Eb F Gb	0 3 5 6	3 2 1 6	Diminished add 11
4	6	C D E F#	0 2 4 6	2 2 2 6	(Lydian 4 note cluster)
4	6	C Db F Gb	0 1 5 6	1 4 1 6	(Diatonic half step pair)
4	6	C Db Eb G	0 1 3 7	1 2 4 5	Minor add b9
4	6	C E F# G	0 4 6 7	4 2 1 5	Major add #11
4	6	C Db F G	0 1 5 7	1 4 2 5	(Major 7b5)
4	6	C D F# G	0 2 6 7	2 4 1 5	(Major 7sus4)
4	6	C Eb Gb Bb	0 3 6 10	3 3 4 2	Half Diminished, Minor 7b5
4	6	C E G Bb	0 4 7 10	4 3 3 2	Dominant 7
4	7	C Db E F#	0 1 4 6	1 3 2 6	
4	7	C D F Gb	0 2 5 6	2 3 1 6	(Dominant 7#9 no 5)
4	7	C Db E G	0 1 4 7	1 3 3 5	Major add b9
4	7	C Eb F# G	0 3 6 7	3 3 1 5	Minor add #11
4	7	C D# E G	0 3 4 7	3 1 3 5	Major add #9
4	7	C Db F# G	0 1 6 7	1 5 1 5	(Octatonic Half Step Pair)

Notes	Complexity	Standard Notation	Pitch Classes	Intervals	Description
4	8	C Db Eb E	0 1 3 4	1 2 1 8	
4	8	C Db E F	0 1 4 5	1 3 1 7	(Harmonic minor half step pair)
4	8	C D Eb Gb	0 2 3 6	2 1 3 6	Diminished add 9
4	8	C D# E F#	0 3 4 6	3 1 2 6	
4	8	C Eb G B	0 3 7 11	3 4 4 1	Minor #7
4	8	C E G# B	0 4 8 11	4 4 3 1	Major 7#5
4	8	C E G# Bb	0 4 8 10	4 4 2 2	Dominant 7#5
4	8	C E Gb Bb	0 4 2 4	4 2 4 2	Dominant 7b5
4	9	C Eb Gb A	0 3 6 9	3 3 3 3	Fully Diminished 7th
5	4	C D E G A	0 2 4 7 9	2 2 3 2 3	Pentatonic, C6 add9
5	5	C D Eb F G	0 2 3 5 7	2 1 2 2 5	(Minor 5 note cluster)
5	5	C D E F G	0 2 4 5 7	2 2 1 2 5	(Major 5 note cluster)
5	5	(C D E G B)	(0 2 4 7 11)	(2 2 3 4 1)	Major 9
5	5	(C D Eb G Bb)	(0 2 3 7 10)	(2 1 4 3 2)	Minor 9
5	6	C Db Eb F Gb	0 1 3 5 6	1 2 2 1 6	(Locrian 5 note cluster)
5	6	C Db Eb F G	0 1 3 5 7	1 2 2 2 5	(Phrygian 5 note cluster)
5	6	C D E F# G	0 2 4 6 7	2 2 2 1 5	(Lydian 5 note cluster)
5	6	C D Eb F Ab	0 2 3 5 8	1 2 3 4 2	(Minor 7b5b9)
5	6	C Eb F Gb Ab	0 3 5 6 8	3 2 1 2 4	
5	6	C Db Eb Gb Ab	0 1 3 6 8	1 2 3 2 4	
5	6	C D F G Ab	0 2 5 7 8	2 3 2 1 4	
5	6	C Db F Gb Ab	0 1 5 6 8	1 4 1 2 4	
5	6	C D Eb G Ab	0 2 3 7 8	2 1 4 1 4	
5	6	C D E F# A	0 2 4 6 9	2 2 2 3 3	
5	7	C Db Eb F# G	0 1 3 6 7	1 2 3 1 5	
5	7	C Db E F# G	0 1 4 6 7	1 3 2 1 5	
5	7	C Db E F# A	0 1 4 6 9	1 3 2 3 3	
5	7	C D F Gb A	0 2 5 6 9	2 3 1 3 3	
5	8	C Db Eb E F#	0 1 3 4 6	1 2 1 2 6	
5	8	C D Eb F Gb	0 2 3 5 6	2 1 2 1 6	
5	8	C Db E F G	0 1 4 5 7	1 3 1 2 5	
5	8	C D Eb F# G	0 2 3 6 7	2 1 3 1 5	
5	8	C Db Eb E G#	0 1 3 4 8	1 2 1 4 4	
5	8	C Db E F Ab	0 1 4 5 8	1 3 1 3 4	
5	8	C D# E G Ab	0 3 4 7 8	3 1 3 1 4	
5	8	C D E F Ab	0 2 4 5 8	2 2 1 3 4	
5	8	C D# E F# G#	0 3 4 6 8	3 1 2 2 4	
5	8	C D Eb Gb Ab	0 2 3 6 8	2 1 3 2 4	
5	8	C D F Gb Ab	0 2 5 6 8	2 3 1 2 4	
5	8	C Db E F# G#	0 1 4 6 8	1 3 2 2 4	
5	8	C D E G Ab	0 2 4 7 8	2 2 3 1 4	
5	8	C D E F# G#	0 2 4 6 8	2 2 2 2 4	
5	8	C Db E G Ab	0 1 4 7 8	1 3 3 1 4	
5	9	C Db Eb E G	0 1 3 4 7	1 2 1 3 5	
5	9	C D# E F# G	0 3 4 6 7	3 1 2 1 5	
5	9	C Db Eb Gb A	0 1 3 6 9	1 2 3 3 3	
5	9	C D Eb Gb A	0 2 3 6 9	2 1 3 3 3	
6	5	C D E F G A	0 2 4 5 7 9	2 2 1 2 2 3	
6	6	C Db Eb F Gb Ab	0 1 3 5 6 8	1 2 2 1 2 4	
6	6	C D Eb F G Ab	0 2 3 5 7 8	2 1 2 2 1 4	
6	6	C Db Eb F G Ab	0 1 3 5 7 8	1 2 2 2 1 4	
6	6	C D Eb F G A	0 2 3 5 7 9	2 1 2 2 2 3	
6	6	C D E F# G A	0 2 4 6 7 9	2 2 2 1 2 3	
6	7	C Db E F# G A	0 1 4 6 7 9	1 3 2 1 2 3	
6	8	C Db Eb E F# G#	0 1 3 4 6 8	1 2 1 2 2 4	

Notes	Complexity	Standard Notation	Pitch Classes	Intervals	Description
6	8	C D E F G Ab	0 2 4 5 7 8	2 2 1 2 1 4	
6	8	C D Eb F Gb Ab	0 2 3 5 6 8	2 1 2 1 2 4	
6	8	C Db Eb F G A	0 1 3 5 7 9	1 2 2 2 2 3	
6	8	C D E F# G# A	0 2 4 6 8 9	2 2 2 2 1 3	
6	8	C Db E F G A	0 1 4 5 7 9	1 3 1 2 2 3	
6	8	C D E F G# A	0 2 4 5 8 9	2 2 1 3 1 3	
6	9	C Db Eb E F# G	0 1 3 4 6 7	1 2 1 2 1 5	
6	9	C Db Eb E G Ab	0 1 3 4 7 8	1 2 1 3 1 4	
6	9	C Db E F G Ab	0 1 4 5 7 8	1 3 1 2 1 4	
6	9	C Db E F# G A	0 1 3 4 6 9	1 2 1 2 3 3	
6	9	C D Eb F Gb A	0 2 3 5 6 9	2 1 2 1 3 3	
6	9	C Db Eb F Gb A	0 1 3 5 6 9	1 2 2 1 3 3	
6	9	C Db Eb E G A	0 1 3 4 7 9	1 2 1 3 2 3	
6	9	C Db Eb F# G A	0 1 3 6 7 9	1 2 3 1 2 3	
6	9	C D Eb F# G# A	0 2 3 6 8 9	2 1 3 2 1 3	
6	9	C D Eb F# G A	0 2 3 6 7 9	2 1 3 1 2 3	
6	9	C D# E G Ab B	0 1 4 5 8 9	3 1 3 1 3 1	Augmented Scale
6	10	C D E F# G# A#	0 2 4 6 8 10	2 2 2 2 2 2	Whole Tone Scale
7	6	C D E F G A B	0 2 4 5 7 9 11	2 2 1 2 2 2 1	Major Scale
7	8	C D Eb F G A B	0 2 3 5 7 8 11	2 1 2 2 2 2 1	Melodic Minor Scale
7	9	C Db Eb E F# G A	0 1 3 4 6 7 9	1 2 1 2 1 2 3	
7	9	C D Eb F G Ab B	0 2 3 5 7 8 11	2 1 2 2 1 3 1	Harmonic Minor Scale
7	9	C D E F G Ab B	0 2 4 5 7 8 11	2 2 1 2 1 3 1	Harmonic Major Scale (Major b6)
7	9	C D Eb F Gb Ab A	0 2 3 5 6 8 9	2 1 2 1 2 1 3	
8	10	C Db Eb E F# G A Bb	0 1 3 4 6 7 9 10	1 2 1 2 1 2 1 2	Octatonic Scale