

Exercise number two uses the same principal tones (C and F#) and adds notes 1 ½ steps above each tone (Eb and A). *This pattern was not included in Slonimsky's original work; I include it as it creates a diminished arpeggio which is used frequently and to good advantage by the jazz player. All chords following will be a suitable

I should note at this point, the diminished chord I reference is properly called a diminished 7th. A diminished chord is a triad made up of root, flat 3rd, and flat 5th. The diminished chord in this example is 1,b3,b5,andbb7 (6). For a jazz study the diminished chord will be more frequently used.

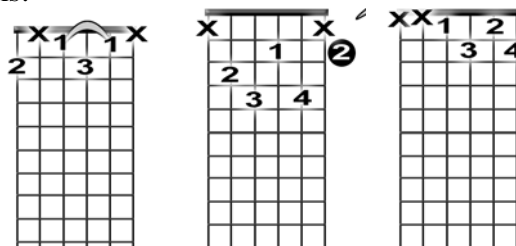
The diminished arpeggio presents a unique situation. Each note of the pattern can be considered the root so playing any diminished implies four diminished chords. This is due to the fact that all notes are equally spaced from one another. Also when considering roots outside of the roots suggested by the cluster tones (see chart below) two other chord types are generated; the 7th flatted 9th (7-9), and the maj.7 flatted 13th (maj7-13). In other words, playing one diminished chord can imply 12 different chords when your bass player is playing the alternate bass note. This characteristic makes for easy playing as well.

Analysis

Cluster Tones-->		C	Eb	F#/Gb	A	chord implied	Character
The chromatic scale as possible roots	C	Octave	-3	b5/#11	6th/13th	C dim	Build
	C#/Db	7	9	11	#5/b13	C#maj7-13	Release
	D	b7	-9	3	5	D7-9	Tension
	D#/Eb	6th/13th	Octave	b3/#9	#5/b13	Ebdim7	Build
	E	#5/b13	7	9	5	E maj7-13	Release
	F	5	b7	b9	b5/#11	F7-9	Tension
	F#/Gb	b5/#11	6th/13th	Octave	4th/11th	Gbdim	Build
	G	4th/11th	#5/b13	7	3	Gmaj7-13	Release
	G#/Ab	3	5	b7	b3/#9	G#7-9	Tension
	A	b3/#9	b5/#11	6th/13th	Octave	A dim 7	Build
	A#/Bb	2	4th/11th	#5/b13	7	Bbmaj7-13	Release
	B	b2/b9	3	5	b7	B7-9	Tension

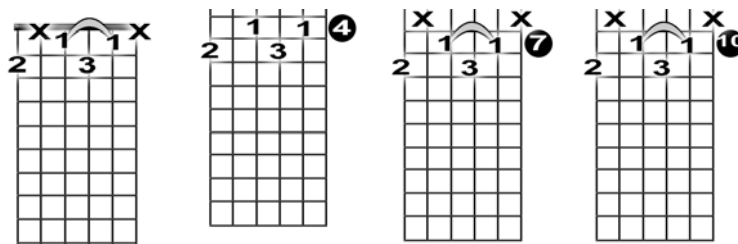
Cluster tones create these intervals when a root is chosen from chromatic scale

I use only 3 diminished chord forms:



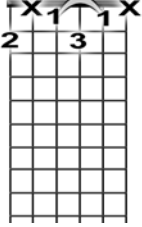
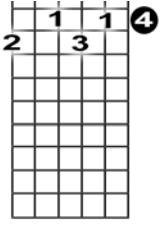
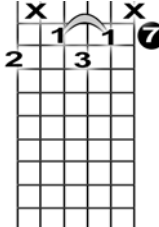
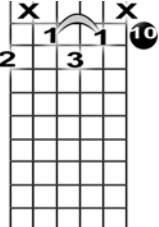
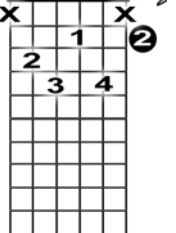
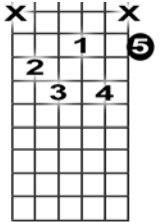
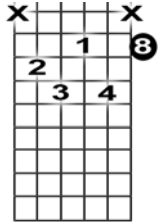
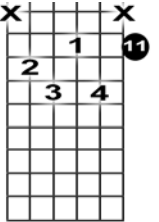
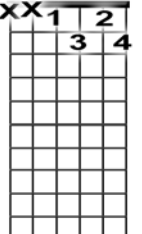
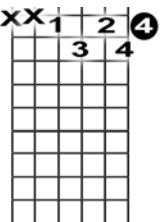
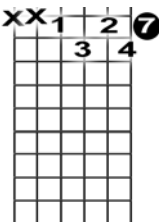
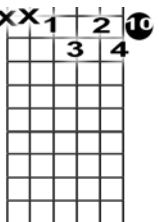
Each chord shown has the same roots; **C, Eb, Gb, or A**

Each form repeats in a linear fashion along the neck every 4th fret (add 3 to fret you are on)

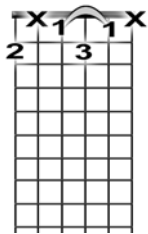
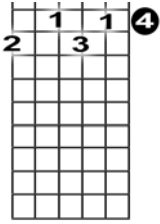
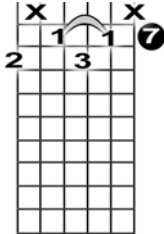
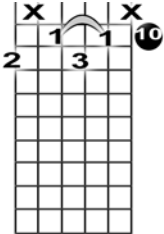
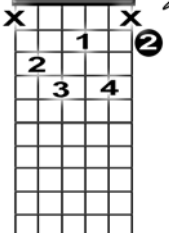
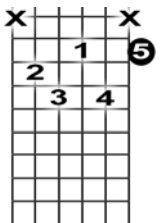
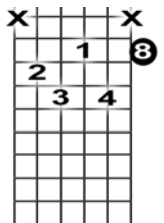
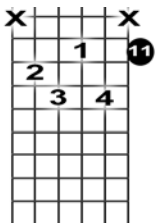
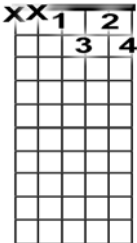
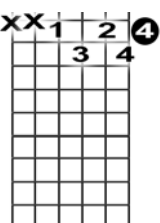
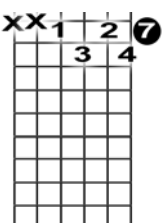
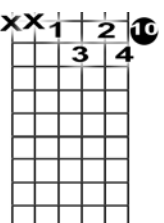


These are all the same root chord **C, Eb, Gb, or A**

▪ Cluster Tones as the Root

Chord Name And Diagram	C dim 7	Eb dim 7	Gb dim 7	A dim 7
				
				
				
comment				
13 th	Not necessary	Not necessary	Not necessary	Not necessary
11 th	Not necessary	Not necessary	C= +11 th	Not necessary
9 th	Not necessary	Not necessary	G#=9 th	Gb
7 th	A=double b7 th (6 th)	C= double b7 th (6 th)	Eb= double b7 th (6 th)	F# = double b7 th (6 th)
5 th	Gb=b 5 th	A=b 5 th	C=b 5 th	Eb=b 5 th
3 rd	Eb = b3 rd	Gb= b3 rd	A= b3 rd	C= b3 rd
Root	C	D#/Eb	F#/Gb	A

▪ Cluster Tones as the Flatted Third

Chord Name And Diagram	A dim 7	C dim 7	D#/Eb dim 7	F#/Gb dim 7
				
				
				
comment				
13 th	Not necessary	Not necessary	Not necessary	Not necessary
11 th	Not necessary	Not necessary	C= +11 th	Not necessary
9 th	Not necessary	Not necessary	G#=9 th	Gb
7 th	F# = double b7 th (6 th)	A= double b7 th (6 th)	C= double b7 th (6 th)	Eb = double b7 th (6 th)
5 th	Eb=b 5 th	F#/Gb=b 5 th	A=b 5 th	C=b 5 th
b 3rd	C	D#/Eb	F#/Gb	A
Root	A	C	Eb	Gb

Cluster Tones as the Maj Third

Chord Name And Diagram	Ab 7-9	B 7-9	D7-9	F7-9
comment	The usual practice is to play a diminished chord a half step above the root, omitting the root, assuming your bass player will cover the root. Some easily played forms are possible though.			
13 th	Not necessary	Not necessary	Not necessary	Not necessary
11 th	Not necessary	Not necessary	Not necessary	Not necessary
9 th	A=b9 th	C=b9 th	Eb=b9 th	Gb
7 th	Gb/F# = b7 th	A= b7 th	C= b7 th	D#/Eb = b7 th
5 th	Eb=5 th	F#/Gb= 5 th	A= 5 th	C= 5 th
3rd	C	D#/Eb	F#/Gb	A
Root	Ab*	B/Cb*	D*	F*

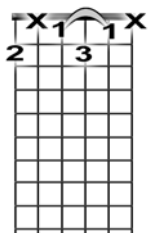
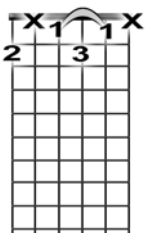
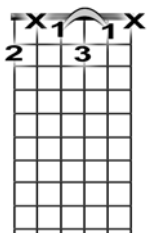
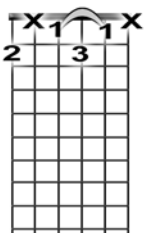
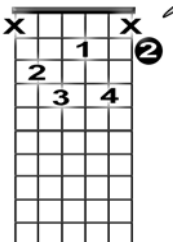
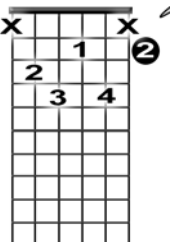
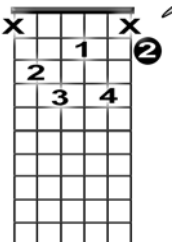
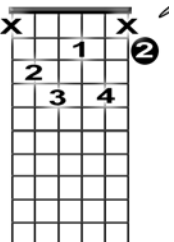
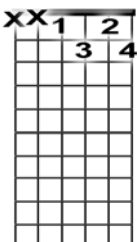
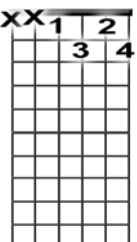
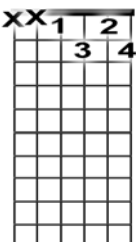
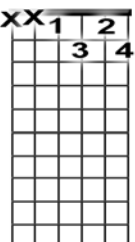
Cluster Tones as the Fourth/Eleventh

Chord Name And Diagram	Gma11+5(b13)	Bbma11+5(b13)	Db ma11+5(b13)	E ma11+5(b13)
comment	Not all components appear in the form...essentially a diminished form is used with the appropriate bass.	Not all components appear in the form...essentially a diminished form is used with the appropriate bass.	Not all components appear in the form...essentially a diminished form is used with the appropriate bass.	Not all components appear in the form...essentially a diminished form is used with the appropriate bass.
13 th	D#=b13 th	F#/Gb= b13 th	A= b13 th	C= b13 th
11 th	C	D#/Eb	F#/Gb	A
9 th	A=9 th	C= 9 th	D#/Eb= 9 th	Not necessary
7 th	Gb/F# = maj7 th	A= maj7 th (9 not used)	C= maj7 th	D#/Eb = maj7 th
5 th	D#=#5 th	F#/Gb= #5 th	A= #5 th	C= #5 th
4 th	C	D#/Eb	F#/Gb	A
3rd	B= 3 rd	D=3 rd	F=3 rd	G#=3 rd
Root	G	Bb	Db	E

Cluster Tones as the Fifth

Chord Name And Diagram	F7-9	Ab 7-9	B7-9	D7-9
comment				
13 th	Not necessary	Not necessary	Not necessary	Not necessary
11 th	Not necessary	Not necessary	Not necessary	Not necessary
9 th	F#/Gb=b 9 th	A=b9 th	C =b9 th	D#/Eb=b 9 th
7 th	Eb= dom 7 th	F#/Gb= dom 7 th	A=dom 7 th	C= b7 th
5 th	C	D#/Eb	F#/Gb	A
3rd	A	C	D#/Eb=3rd	F#/Gb=3rd
Root	F*	Ab*	B*	D*

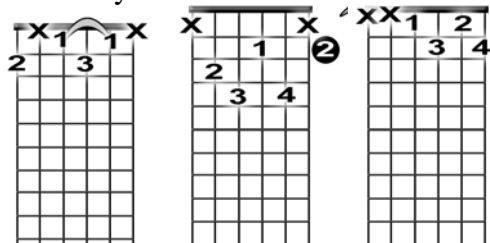
Cluster Tones as the Seventh

Chord Name And Diagram	D 7-9	F7-9	Ab7-9	B7-9
				
				
				
comment				
13 th	Not necessary	Not necessary	Not necessary	Not necessary
11 th	Not necessary	Not necessary	F#/Gb	A
9 th	D#/Eb=b 9 th	F#/Gb=b 9 th	Eb=b 9 th	Gb
7 th	C	D#/Eb	F#/Gb	A
5 th	A=5 th	C=5 th	A= #5 th	C= #5 th
3 rd	F#/Gb= 3rd	A=3rd	F=3rd	G#=3rd
Root	D	F	Ab	B

In summary:

Chords generated by this pattern tend to be dissonant, dominant qualities despite the [analysis](#) that would reveal a tonic quality (maj9-13). When viewing this chord as triads super imposed upon one another, they contain the one chord as well as the five chord as well. This leads to a non-committed quality so I don't try to qualify it as a one chord...it just doesn't work for my ear except in very *out* harmonic situations. So we are left with the diminished chord and the dominant 7th with a flatted fifth and the one chord that sounds more like a five chord.

Any one of these three forms



will satisfy the names in the graph below

C dim 7	B7-9
E^b dim 7th	D7-9
G^b dim 7th	F7-9
A dim 7th	A^b7-9

Each one of these chords will repeat by moving up the neck 3 frets (minor third movement)

A dim 7	C dim 7	D [#] /E ^b dim 7	F [#] /G ^b dim 7