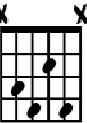


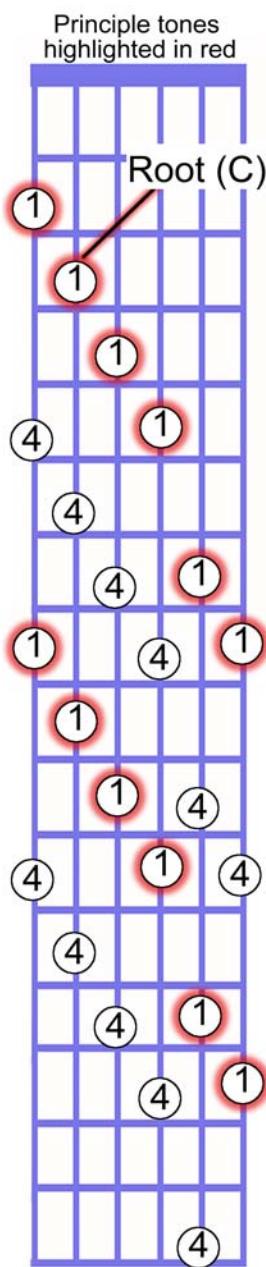
## Exercise #3\*

Exercise number two uses the same principal tones (C and F#) and adds notes 1 1/2 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

ADDITIONAL NOTE MINOR THIRD ABOVE PRINCIPAL NOTE (NOTE: THIS DOES NOT APPEAR IN THE ORIGINAL WORK)



#3\*



I should note at this point, the diminished chord I reference is properly called a diminished 7<sup>th</sup>. A diminished chord is a triad made up of root, flat 3<sup>rd</sup>, and flat 5<sup>th</sup>. The diminished chord in this example is 1,b3,b5, and b7 (6). For a jazz study the diminished chord will be more frequently used.

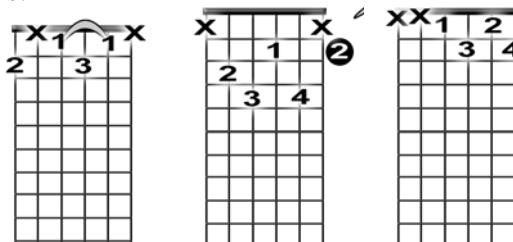
The diminished arpeggio presents a unique situation. Each note of the pattern can be considered the root so playing any diminished implies four diminished chords. This is due to the fact that all notes are equally spaced from one another. Also when considering roots outside of the roots suggested by the cluster tones (see chart below) two other chord types are generated; the 7<sup>th</sup> flatted 9<sup>th</sup> (7-9), and the maj.7 flatted 13<sup>th</sup> (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
	C#/Db	7	9	11	#5/b13	C#maj7-13
	D	b7	-9	3	5	D7-9
	D#/Eb	6th/13th	Octave	b3/#9	#5/b13	Ebdim7
	E	#5/b13	7	9	5	Emaj7-13
	F	5	b7	b9	b5/#11	F7-9
	F#/Gb	b5/#11	6th/13th	Octave	4th/11th	Gbdim
	G	4th/11th	#5/b13	7	3	Gmaj7-13
	G#/Ab	3	5	b7	b3/#9	G#7-9
	A	b3/#9	b5/#11	6th/13th	Octave	A dim 7
	A#/Bb	2	4th/11th	#5/b13	7	Bbmaj7-13
	B	b2/b9	3	5	b7	B7-9

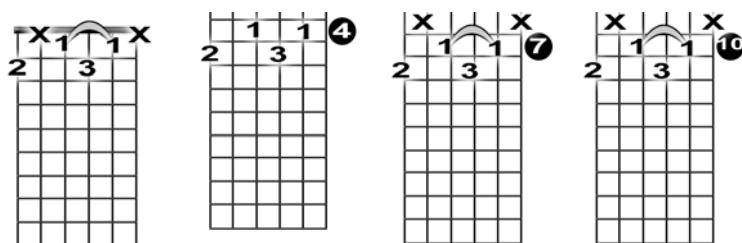
Cluster tones create these intervals when a root is chosen from chromatic scale

I use only 3 diminished chord forms:



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

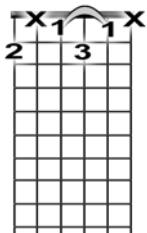
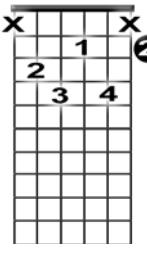
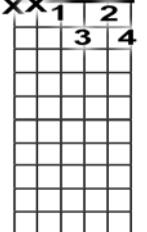
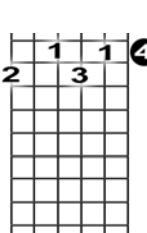
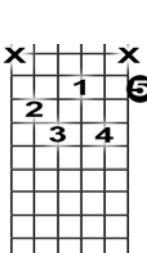
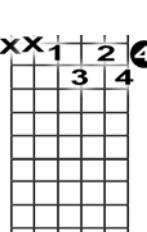
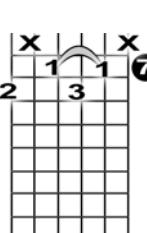
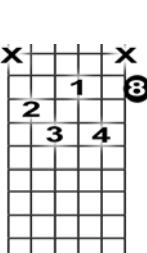
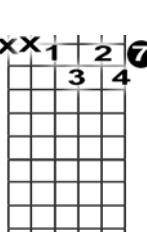
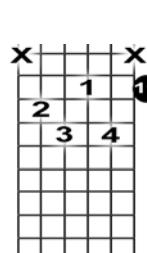
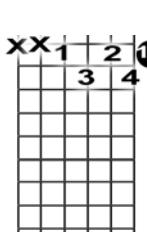
Each form repeats in a linear fashion along the neck every 4<sup>th</sup> fret (add 3 to fret you are on)



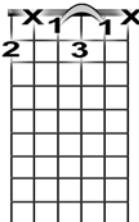
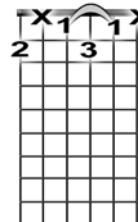
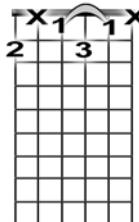
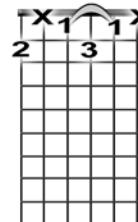
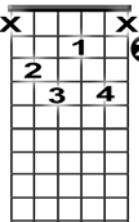
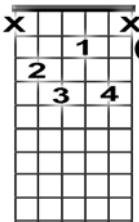
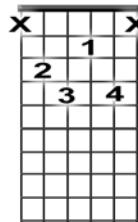
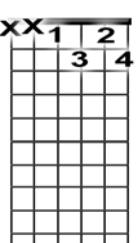
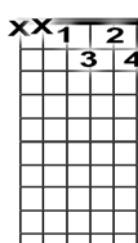
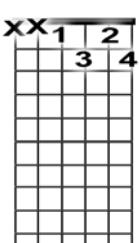
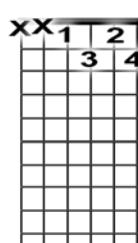
These are all the same root chord **C, Eb, Gb, or A**

- **Cluster Tones as the Root**

▪ **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 <sup>th</sup>	Not necessary	Not necessary	Not necessary	Not necessary
11 <sup>th</sup>	Not necessary	Not necessary	C= +11 <sup>th</sup>	Not necessary
9 <sup>th</sup>	Not necessary	Not necessary	G#=9 <sup>th</sup>	Gb
7 <sup>th</sup>	F#= double b7 <sup>th</sup> (6 <sup>th</sup> )	A= double b7 <sup>th</sup> (6 <sup>th</sup> )	C= double b7 <sup>th</sup> (6 <sup>th</sup> )	Eb = double b7 <sup>th</sup> (6 <sup>th</sup> )
5 <sup>th</sup>	Eb=b 5 <sup>th</sup>	F#/Gb=b 5 <sup>th</sup>	A=b 5 <sup>th</sup>	C=b 5 <sup>th</sup>
<b>b 3rd</b>	<b>C</b>	<b>D#/Eb</b>	<b>F#/Gb</b>	<b>A</b>
<b>Root</b>	<b>A</b>	<b>C</b>	<b>Eb</b>	<b>Gb</b>

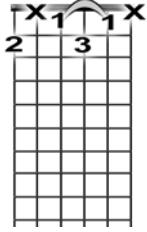
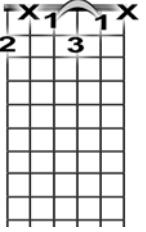
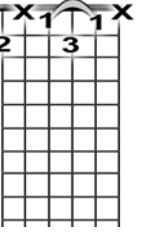
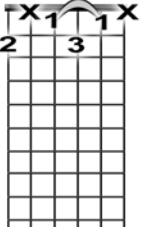
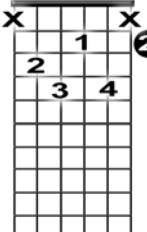
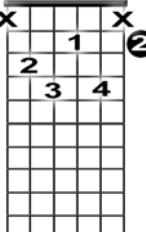
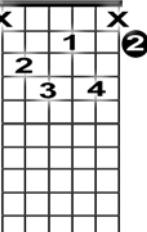
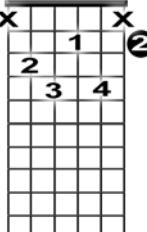
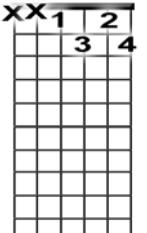
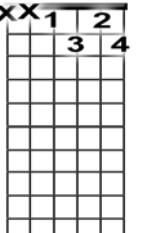
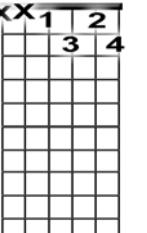
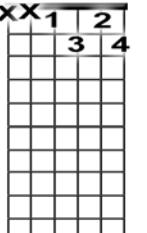
## Cluster Tones as the Maj Third

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 <sup>th</sup>	Not necessary	Not necessary	Not necessary	Not necessary
11 <sup>th</sup>	Not necessary	Not necessary	Not necessary	Not necessary
9 <sup>th</sup>	A=b9 <sup>th</sup>	C=b9 <sup>th</sup>	Eb=b9 <sup>th</sup>	Gb
7 <sup>th</sup>	Gb/F#=b7 <sup>th</sup>	A= b7 <sup>th</sup>	C= b7 <sup>th</sup>	D#/Eb = b7 <sup>th</sup>
5 <sup>th</sup>	Eb=5 <sup>th</sup>	F#/Gb= 5 <sup>th</sup>	A= 5 <sup>th</sup>	C= 5 <sup>th</sup>
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 <sup>th</sup>	D#=b13 <sup>th</sup>	F#/Gb= b13 <sup>th</sup>	A= b13 <sup>th</sup>	C= b13 <sup>th</sup>
11 <sup>th</sup>	<b>C</b>	<b>D#/Eb</b>	<b>F#/Gb</b>	<b>A</b>
9 <sup>th</sup>	A=9 <sup>th</sup>	C= 9 <sup>th</sup>	<b>D#/Eb= 9<sup>th</sup></b>	Not necessary
7 <sup>th</sup>	Gb/F#= maj7 <sup>th</sup>	A= maj7 <sup>th</sup> <small>not used</small>	C= maj7 <sup>th</sup>	D#/Eb= maj7 <sup>th</sup>
5 <sup>th</sup>	D#=#5 <sup>th</sup>	F#/Gb= #5 <sup>th</sup>	A= #5 <sup>th</sup>	C= #5 <sup>th</sup>
4 <sup>th</sup>	<b>C</b>	<b>D#/Eb</b>	<b>F#/Gb</b>	<b>A</b>
3rd	<b>B= 3<sup>rd</sup></b>	<b>D=3<sup>rd</sup></b>	<b>F=3<sup>rd</sup></b>	<b>G#=3<sup>rd</sup></b>
Root	<b>G</b>	<b>Bb</b>	<b>Db</b>	<b>E</b>

## Cluster Tones as the Fifth

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

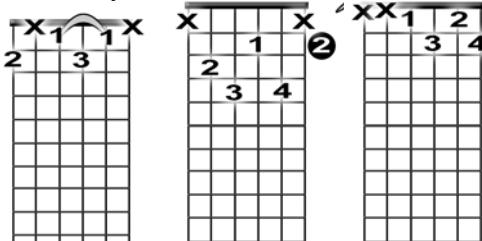
## Cluster Tones as the Seventh

Chord Name And Diagram	D 7-9	F7-9	Ab7-9	B7-9
comment				
13 <sup>th</sup>	Not necessary	Not necessary	Not necessary	Not necessary
11 <sup>th</sup>	Not necessary	Not necessary	<b>F#/Gb</b>	<b>A</b>
9 <sup>th</sup>	D#/Eb=b 9 <sup>th</sup>	F#/Gb=b9 <sup>th</sup>	Eb=b9 <sup>th</sup>	Gb
7 <sup>th</sup>	<b>C</b>	<b>D#/Eb</b>	<b>F#/Gb</b>	<b>A</b>
5 <sup>th</sup>	A=5 <sup>th</sup>	C=5 <sup>th</sup>	A= #5 <sup>th</sup>	C= #5 <sup>th</sup>
3rd	<b>F#/Gb= 3<sup>rd</sup></b>	<b>A=3<sup>rd</sup></b>	<b>F=3<sup>rd</sup></b>	<b>G#=3<sup>rd</sup></b>
Root	<b>D</b>	<b>F</b>	<b>Ab</b>	<b>B</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 7<sup>th</sup> with a flattened fifth and the one chord that sounds more like a five chord.

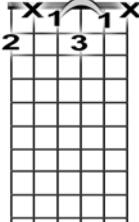
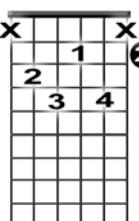
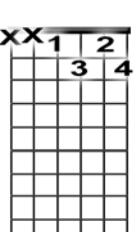
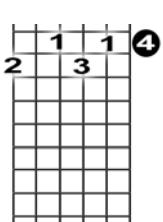
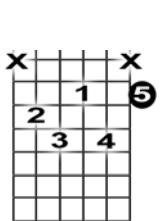
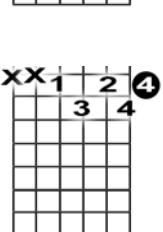
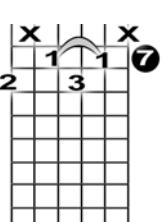
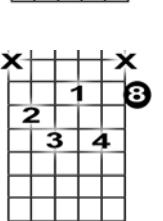
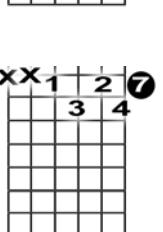
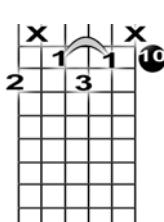
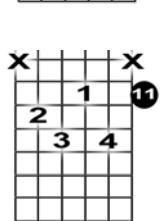
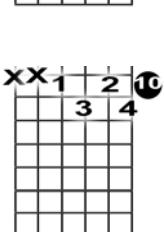
Any one of these three forms



will satisfy the names in the graph below

C dim 7	B7-9
Eb dim 7 <sup>th</sup>	D7-9
Gb dim 7 <sup>th</sup>	F7-9
A dim 7 <sup>th</sup>	Ab7-9

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

<b>A dim 7</b>   	<b>C dim 7</b>   	<b>D#/Eb dim 7</b>   	<b>F#/Gb dim 7</b>   
--	--	---	--