

**“Three Chords and the Truth?”:
A Corpus Analysis of
Harmony in Country Music**

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“Three Chords and the Truth?”: A Corpus Analysis of Harmony in Country Music

I. Background

II. Methods

III. Results

IV. Discussion

CHAPTER ONE

THE BACKGROUND

Music Theory/Analysis Research on Harmony in “Rock”

- “The So-Called ‘Flattened-Seventh’ in **Rock**” (Moore 1995)
- *Understanding **Rock*** (Covach and Boone 1997)
- ***Rock**: The Primary Text* (Moore 2001)
- *What to Listen for in **Rock*** (Stephenson 2002)
- “Making Sense of **Rock**’s Tonal Systems” (Everett 2004)
- “The Melodic-Harmonic Divorce in **Rock**” (Temperley 2007)
- “Analytical Methodologies for **Rock** Music” (Burns 2008)
- *The Foundations of **Rock*** (Everett 2009)
- “Transformation in **Rock** Harmony” (Doll 2009)
- “Sectional Tonality and Sectional Centricity in **Rock** Music” (Capuzzo 2009)
- “Triadic Modal and Pentatonic Patterns in **Rock** Music” (Biamonte 2010)
- “The Cadential IV in **Rock**” (Temperley 2012)
- “Modal Tonicization in **Rock**” (Clement 2013)
- “Counterpoint in **Rock** Music” (Nobile 2015)
- “Harmonic Functions in **Rock** Music” (Nobile 2016)
- *Hearing Harmony: Toward a Tonal Theory for the **Rock** Era* (Doll 2017)
- “**Rock** Harmony Reconsidered” (Osborn 2017)
- *The Musical Language of **Rock*** (Temperley 2018)

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- “The So-Called ‘Flattened-Seventh’ in **Rock**” (Moore 1995)
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- “**Rock** Harmony Reconsidered” (Osborn 2017)
- *The Musical Language of **Rock*** (Temperley 2018)
- “British **Pop-Rock** Music in the Post-Beatles Era” (Spicer 2001)
- “Neo-Riemannian Theory and the Analysis of **Pop-Rock** Music” (Capuzzo 2004)
- “Retrogressive Harmonic Motion... [in] **Pop-Rock** Music” (Carter 2005)
- *Expression in **Pop-Rock** Music* (Everett 2008)
- “Guitar Voicing in **Pop-Rock** Music” (Koozin 2011)
- “Anti-Circles as... Model for Harmonic Motion in **Pop-Rock** Music” (Traut 2015)
- “Fragile, Emergent, and Absent Tonics in **Pop and Rock** Songs” (Spicer 2017)

BACKGROUND

Genre Share of Listenership in the U.S., 2016 Year-End Report (Nielsen 2017)

Rock	29%
R&B/Hip-Hop	22%
Pop	13%
Country	10%
Dance/Electronic	4%
Christian/Gospel	3%
Latin	3%
Holiday/Seasonal	2%
Jazz	1%
Classical	1%
Children's	1%

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Harmony in Country Music

Harlan Howard: Country music is “three chords and the truth” (in Dansby 2002).

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Jocelyn Neal: “Musically, there is a pervading misconception that (country music) relies on three-chord harmonic progressions” (1998, 322).

Jocelyn Neal: “One of the enduring clichés about country music is its primitive harmonic language..., (yet) nothing could be further from the truth” (2008, 291-292).

Some of My Computational Work with Popular Music (based on the RS 200)

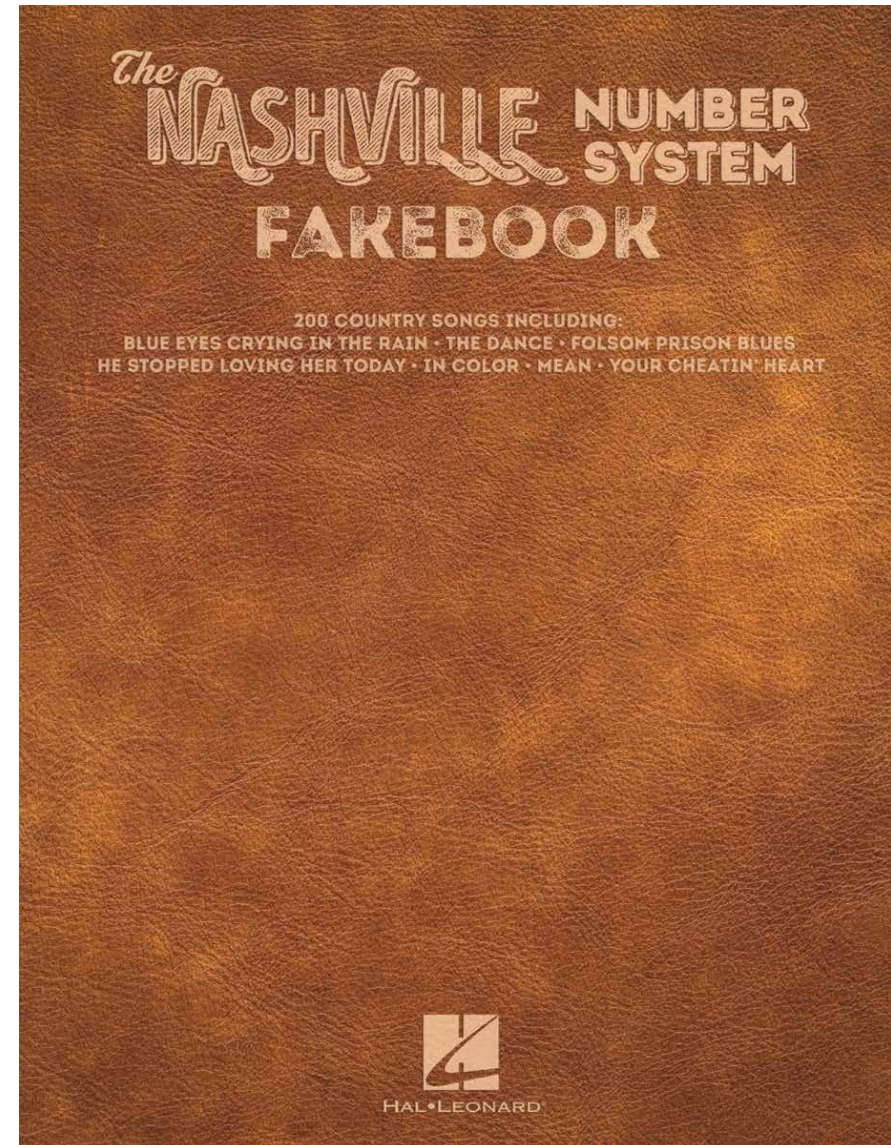
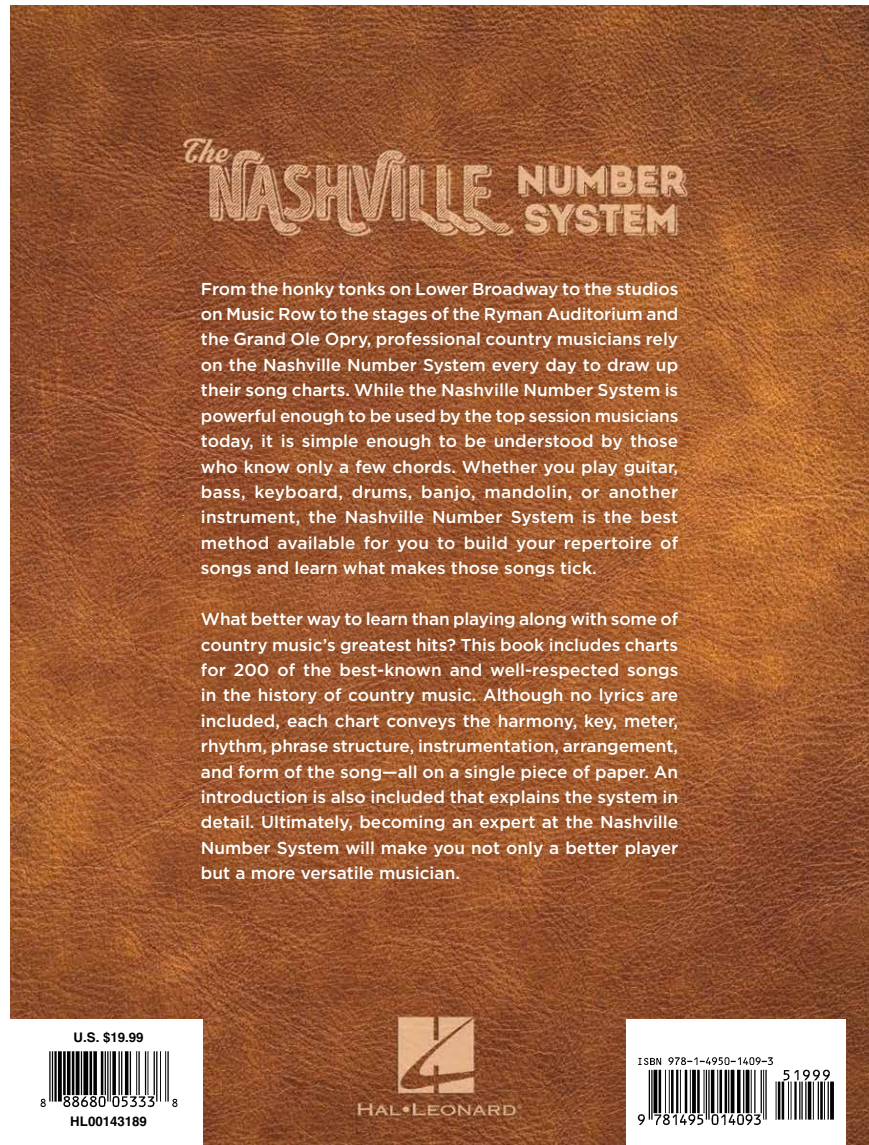
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- Temperley, David & Trevor de Clercq. (2017). "Musical Structure: Melody and Harmony in Popular Music." In *The Routledge Companion to Music Cognition*, 165-177. Edited by Richard Ashley and Renee Timmers. New York, NY: Routledge.
- de Clercq, Trevor. (2017). "Interactions Between Harmony and Form in a Corpus of Rock Music." *Journal of Music Theory* 61/2: 143–170.

BACKGROUND

CHAPTER TWO

THE METHODS

The Nashville Number System Fakebook (de Clercq 2015)



Sources for the Songs (de Clercq 2015)

- *Academy of Country Music*. 1967-2014. "Single of the Year."
- *Academy of Country Music*. 1967-2014. "Song of the Year."
- *Allmusic*. 2015. "Country Song Highlights."
- *American Music Award*. 1974-1995. "Favorite Country Single."
- *Billboard*. 1946-2014. "Year-End #1 Country Singles."
- *Billboard*. 2014. "Top 70 Country Songs 1989-2014."
- *Billboard*. 2008. "Billboard 50th Anniversary Charts: All-Time Top Country Songs."
- *Country Music Television*. 2003. "CMT 100 Greatest Songs of Country Music."
- *Country Music Association*. 1967-2014. "Single of the Year."
- *Country Music Association*. 1967-2014. "Song of the Year."
- *Nashville Songwriters Association International*. 1967-2014. "NSAI Song of the Year."
- *The Recording Academy*. 1965-2014. "Grammy Award for Best Country Song."
- *Rolling Stone*. 2014. "100 Greatest Country Songs of All Time."
- *Taste of Country*. 2012. "Top 100 Country Songs."

METHODS

Sample of Songs in the “NN 200”

- “Wabash Cannonball” (Roy Acuff, 1933)
- “Foggy Mountain Breakdown” (Flatt & Scruggs, 1950)
- “Your Cheatin’ Heart” (Hank Williams, 1952)
- “Ring of Fire” (Johnny Cash, 1962)
- “King of the Road” (Roger Miller, 1964)
- “D-I-V-O-R-C-E” (Tammy Wynette, 1968)
- “Always On My Mind” (Willie Nelson, 1971)
- “Rhinestone Cowboy” (Glen Campbell, 1974)
- “He Stopped Loving Her Today” (George Jones, 1978)
- “Forever and Ever, Amen” (Randy Travis, 1987)
- “Friends in Low Places” (Garth Brooks, 1990)
- “Strawberry Wine” (Deana Carter, 1996)
- “Alcohol” (Brad Paisley, 2005)
- “Need You Now” (Lady Antebellum, 2009)
- “Mean” (Taylor Swift, 2010)
- “Cruise” (Florida Georgia Line, 2012)
- “Automatic” (Miranda Lambert, 2014)

Chart of "80's Ladies" (K. T. Oslin, 1987)

KEY OF C

$\frac{4}{4}$ ♩ = 100

80's LADIES


(K. T. OSLIN)

SPARSE TEXTURE				
IN)	1^2	$\frac{1^2}{3}$	4^2	$5^{\frac{9}{4}}$
	1^2	$\frac{1^2}{3}$	4^2	$5^{\frac{9}{4}}$
<hr/>				
VR)	1	2^{-7}	$\frac{1}{3}$	4^2
	1	<u>$1^{\frac{6}{4}} < 1$</u>	1	5
	1	2^{-7}	$\frac{1}{3}$	4^2
	1	<u>$1^{\frac{6}{4}} < 1$</u>	5	5
	1	<u>5^7</u>		
<hr/>				
FULL TEXTURE				
CH)	1	<u>$\overset{\dots}{1}$ 5</u>	4	4
	1	$1^{\Delta 9}$	6-	6- 6-
	5	5	5	5
<hr/>				
SPARSE				
LN)	1^2	$\frac{1^2}{3}$	4^2	$5^{\frac{9}{4}}$

VR)	1	2^{-7}	$\frac{1}{3}$	4^2
	1	<u>$1^{\frac{6}{4}} < 1$</u>	1	5
	1	2^{-7}	$\frac{1}{3}$	4^2
	1	<u>$1^{\frac{6}{4}} < 1$</u>	5	1
<hr/>				
FULL TEXTURE				
BR)	6-	5	4	<u>$\overset{\dots}{4}$ 5</u>
	6-	5	4	$5^{\frac{9}{4}}$ 5
<hr/>				
CH)	1	<u>$\overset{\dots}{1}$ 5</u>	4	4
	1	$1^{\Delta 9}$	6-	6- 6-
	5	5	5	5
<hr/>				
SPARSE				
OUT)	1^2	$\frac{1^2}{3}$	4^2	$5^{\frac{9}{4}}$
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(REPEAT OUTRO & FADE)

Chart of "80's Ladies" (K. T. Oslin, 1987)

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	1	2^{-7}	$\frac{1}{3}$	4^2
	1	<u>$1\frac{6}{4} < 1$</u>	5	5
	1	<u>5^7</u>		

FULL TEXTURE

$CH)$	1	<u>1</u> 5	4	4
	1	$1^{\Delta 9}$	6-	6- 6-
	5	5	5	5

Encoded Excerpt of "80's Ladies"

% Title: 80's Ladies
% Artist: K. T. Oslin
% Copyright: 1987
[Key: C]
[Meter: 4/4]
[Tempo: QN = 100]
[Feel: Normal]

In:	12	12/3	42	594
	12	12/3	42	594

Vr:	1	2-7	1/3	42
	1	(164 <1)	1	5
	1	2-7	1/3	42
	1	(164 <1)	5	5
	1	57		

Ch:	1	(1.. 5)	4	4	
	1	1M9	6-	6-	6-
	5	5	5	5	

CHAPTER THREE

THE RESULTS

Number of Songs with X or Fewer Chords

	NN 200	
1 chord	0	0.0%
≤ 2 chords	3	1.5%

RESULTS

Number of Songs with X or Fewer Chords

	NN 200	
1 chord	0	0.0%
≤ 2 chords	3	1.5%
≤ 3 chords	53	26.5%

RESULTS

Number of Songs with X or Fewer Chords

	NN 200	RS 200
1 chord	0	0.0%
≤ 2 chords	3	1.5%
≤ 3 chords	53	26.5%

RESULTS

Number of Songs with X or Fewer Chords

	NN 200		RS 200
1 chord	0	0.0%	2.5%
≤ 2 chords	3	1.5%	5.0%
≤ 3 chords	53	26.5%	

RESULTS

Number of Songs with X or Fewer Chords

	NN 200		RS 200
1 chord	0	0.0%	2.5%
≤ 2 chords	3	1.5%	5.0%
≤ 3 chords	53	26.5%	28.5%

RESULTS

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1 chord	0	0.0%	2.5%
≤ 2 chords	3	1.5%	5.0%
≤ 3 chords	53	26.5%	28.5%
≤ 4 chords	100	50.0%	48.0%

RESULTS

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	NN 200		RS 200
1 chord	0	0.0%	2.5%
≤ 2 chords	3	1.5%	5.0%
≤ 3 chords	53	26.5%	28.5%
≤ 4 chords	100	50.0%	48.0%
≤ 5 chords	146	73.0%	65.5%
≤ 7 chords	188	94.0%	86.0%
≤ 9 chords	196	98.0%	95.0%
≤ 10 chords	199	99.5%	96.5%
≤ 14 chords	200	100.0%	99.0%

RESULTS

Triad Types in the NN 200, Ranked by Frequency

Triad	Instances	
I	4,602	32.7%
V	3,586	25.5%
IV	3,360	23.8%

Triad Types in the NN 200, Ranked by Frequency

Triad	Instances		Bars	
I	4,602	32.7%	7,800	43.6%
V	3,586	25.5%	3,945	22.0%
IV	3,360	23.8%	3,621	20.2%

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Instances of I, IV, V in NN 200: 82%

Bars of I, IV, V in NN 200: 86%

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vi	851	6.0%	813	4.5%

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Instances of I, IV, V in RS 200: 79%

Bars of I, IV, V in RS 200: 85%

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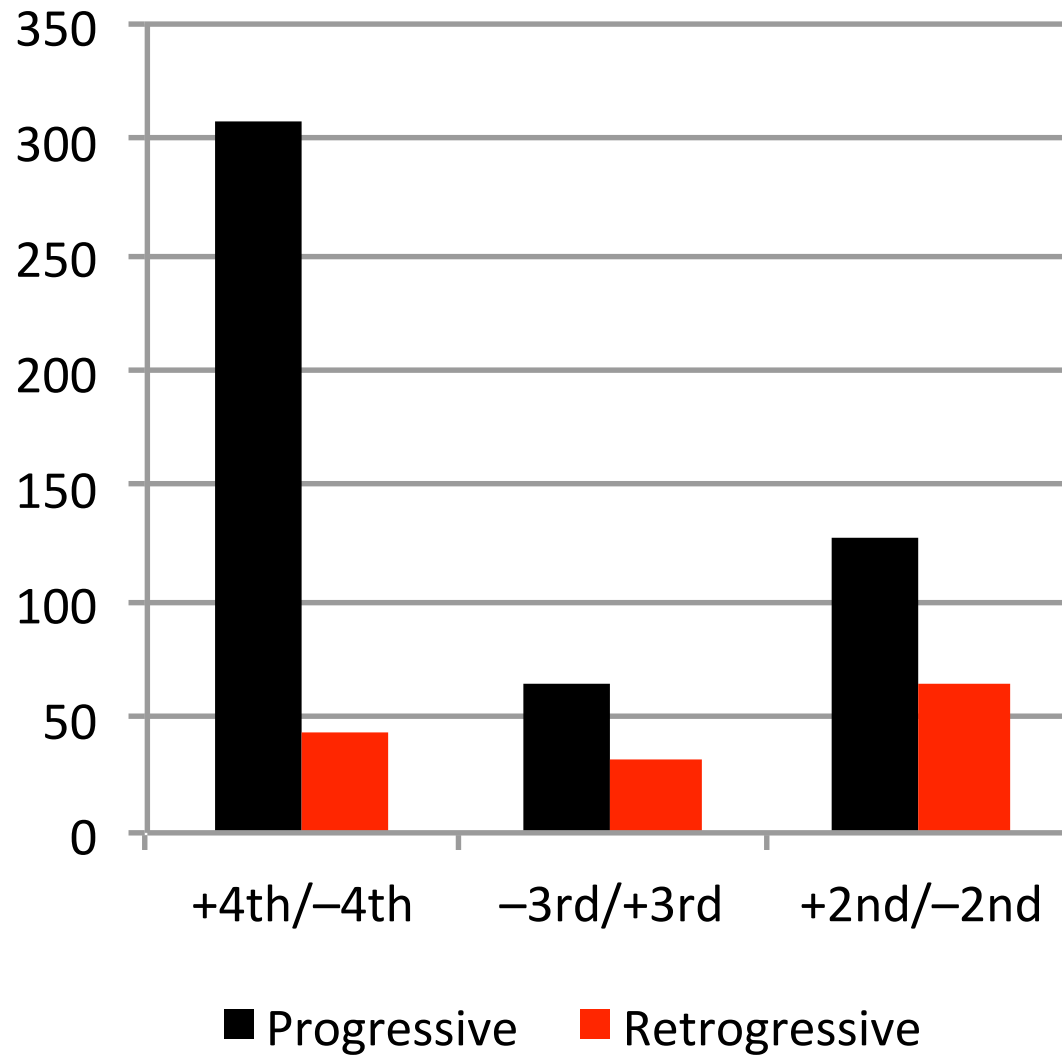
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vi	851	6.0%	813	4.5%
ii	704	5.0%	677	3.8%
bVII	225	1.6%	208	1.2%
II	182	1.3%	193	1.1%
iii	120	0.9%	133	0.7%
i	97	0.7%	194	1.1%
bVI	76	0.5%	71	0.4%
III	73	0.5%	69	0.4%
v	51	0.4%	44	0.2%
VI	34	0.2%	40	0.2%
iv	23	0.2%	26	0.1%

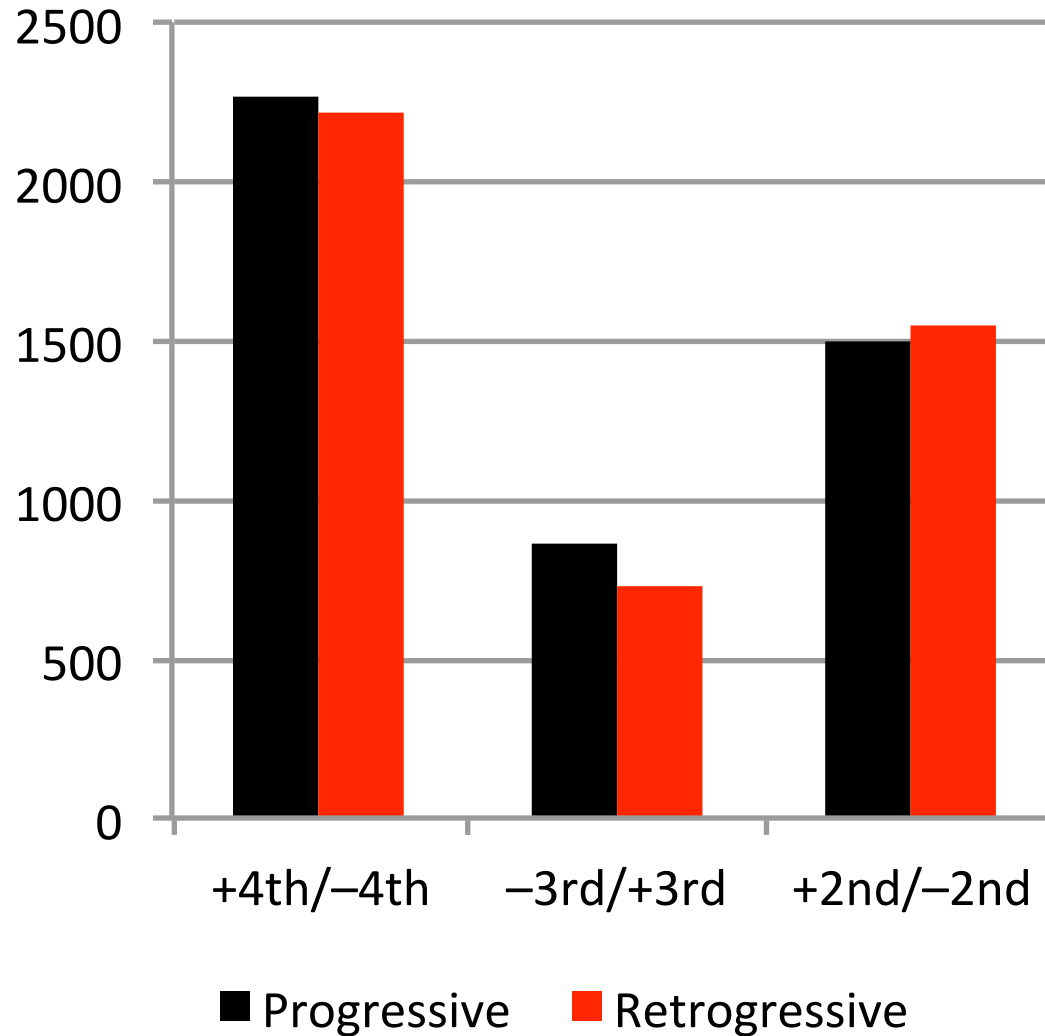
RESULTS

Root Motion in Common-Practice Music (Temperley 2009)

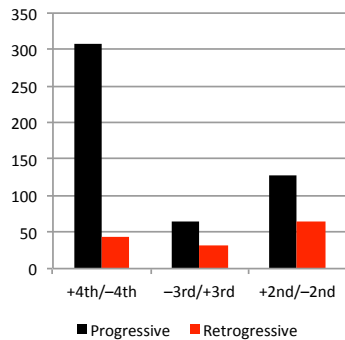


RESULTS

Root Motion in Rock Music (de Clercq & Temperley 2011)



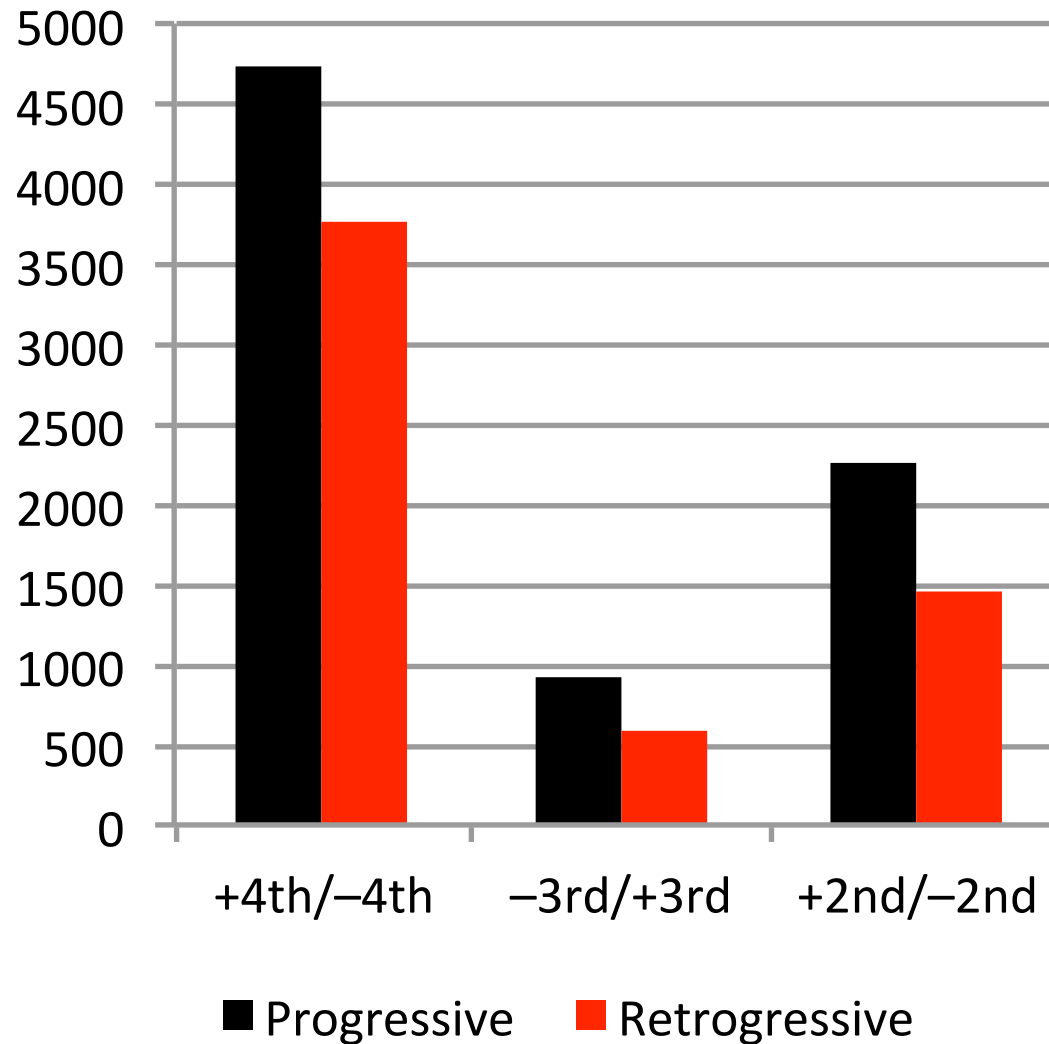
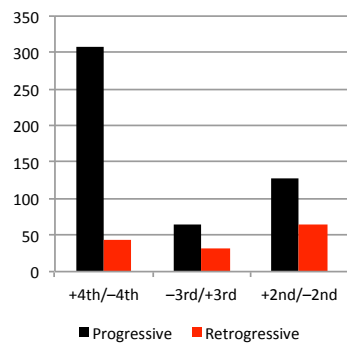
C-P Music



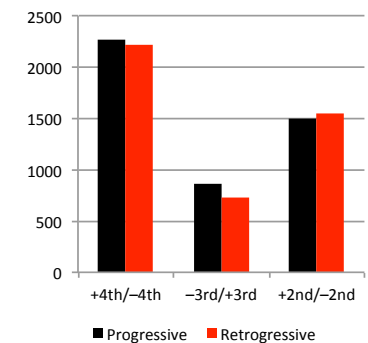
RESULTS

Root Motion in Country Music (the NN 200)

C-P Music



Rock



RESULTS

Two-chord Patterns in the NN 200, Ranked by Asymmetry


Pattern XY	Interval	Motion Type	Factor	Pattern YX	Pairs
bVII – IV	–P4	Retrogressive	5.52	IV – bVII	137
I – bVII	–M2	Retrogressive	3.60	bVII – I	161

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iii – IV	+m2	Progressive	3.55	IV – iii	100
vi – IV	–M3	Progressive	3.18	IV – vi	506
I – vi	–m3	Progressive	2.36	vi – I	423
ii – V	+P4	Progressive	1.99	V – ii	542
I – ii	+M2	Progressive	1.76	ii – I	502
IV – V	+M2	Progressive	1.67	V – IV	1,907
V – vi	+M2	Progressive	1.65	vi – V	593
V – I	+P4	Progressive	1.40	I – V	3,751
ii – IV	+m3	Retrogressive	1.09	IV – ii	232
I – IV	+P4	Progressive	1.03	IV – I	3,587

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RESULTS

**Root-position chords in C-P music:
~60%**

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Root-position chords in RS 200:

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Root-position chords in NN 200:

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Non-root-position Chords in the NN 200

Triad and Bass	Instances		Common Chords Before		Common Chords After	
I over 3	373	(41.2%)	IV	(43%)	IV	(61%)
			I	(30%)	ii	(27%)
			ii	(23%)		
V over 7	213	(23.5%)	I	(68%)	vi	(55%)
			vi	(14%)	I	(27%)
I over 5	78	(8.6%)	vi	(83%)	IV	(77%)
IV over 6	67	(7.4%)	I	(30%)	I	(37%)
			bVII	(28%)	V	(21%)
					V over 7	(21%)
V over 4	40	(4.4%)	IV	(68%)	IV	(44%)
			I	(33%)	I	(36%)
IV over 1	28	(3.1%)	I	(61%)	I	(50%)
I over 7	22	(2.4%)	I	(91%)	vi	(82%)

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	1	2^{-7}	$\frac{1}{3}$	4^2
	1	<u>$1\frac{6}{4} < 1$</u>	5	5
	1	<u>5^7</u>		

FULL TEXTURE

CH	1	<u>1</u> 5	4	4
	1	$1^{\Delta 9}$	6-	6- 6-
	5	5	5	5

RESULTS

A "Rule of the Octave" for Classical Music




6 6 6 5 6 6

T D T S D S D T

The image shows a musical staff in bass clef with an ascending eighth-note scale. The notes are G2, A2, B2, C3, D3, E3, F3, and G3. Fingerings are indicated by numbers 6, 6, 6, 5, 6, 6 above the notes. Articulation markings include slurs over the first three notes, the last three notes, and a fermata over the final note. Below the staff, the letters T, D, T, S, D, S, D, T are aligned with the notes, representing a specific articulation or fingering rule.

RESULTS

A "Rule of the Octave" for Classical Music




A musical staff in bass clef showing an ascending eighth-note scale from G2 to G3. The notes are G, A, B, C, D, E, F, G. A slur covers the entire scale. Fingerings are indicated by numbers 6, 6, 6, 5, 6, 6 below the notes. The letters T, D, T, S, D, S, D, T are placed below the notes.

6 6 6 5 6 6

T D T S D S D T

A "Rule of the Octave" for Country Music



A musical staff in bass clef showing an ascending eighth-note scale from G2 to G3. The notes are G, A, B, C, D, E, F, G. A slur covers the entire scale. Fingerings are indicated by numbers 7, 6, 6 below the notes. The letters T, S, T, S, D, T, D, T are placed below the notes.

7 6 6

T S T S D T D T

RESULTS

CHAPTER FOUR

THE DISCUSSION

Like Rock (& unlike Classical), Country:

- Employs bVII much more frequently than vii^o
- Shows a much greater use of root-position chords than inversions
- Shows a good deal of retrogressive harmonic motion (e.g., V-IV, V-ii, ii-I)
- Has subdominant often acting in cadential role

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Like Classical (& unlike Rock), Country:

- Uses more dominant chords overall than subdominant
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- Shows greater use of traditional cadential motion (e.g., ii-V-I, IV-V-I) than plagal motion

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Other Notable Features of Country:

- Is almost always set in a major key
- Does not have significantly more three-chord songs than rock
- Relies only slightly more heavily on I, IV, and V than other styles
- Rarely has a harmonic palette of more than 7 different chords

DISCUSSION

THANK YOU!

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