## a journal of the Society for Music Theory

## MTO 23.1 Examples: McClimon, Transformations in Tonal Jazz

(Note: audio, video, and other interactive examples are only available online) <a href="http://www.mtosmt.org/issues/mto.17.23.1/mto.17.23.1.mcclimon.php">http://www.mtosmt.org/issues/mto.17.23.1/mto.17.23.1.mcclimon.php</a>

Figure 1a. The bridge of "All the Things You Are" (Jerome Kern/Oscar Hammerstein)

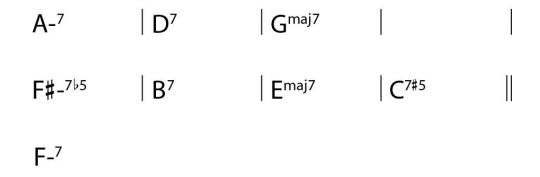


Figure 1b. A four-voice realization of the chord symbols

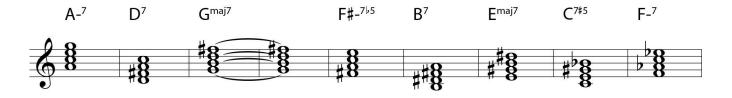


Figure 1c. Guide-tone lines highlighting efficient voice-leading. (Common tones are indicated by ties)

<b>A</b> - <sup>7</sup>	$D^7$	$G^{maj7}$	<b>F</b> #- <sup>7♭5</sup>	$B^7$	$E^{maj7}$	<b>C</b> <sup>7#5</sup>	F- <sup>7</sup>
100	10	o o	0	⊥ ‡o	#0	0	<b>,</b>
		0 0	0_	TÖ	#"o	Jo_	0
():	0	0 0	#O	0	0	0	0

**Figure 1d.** Broken into smaller units, highlighting ii–V–I progressions

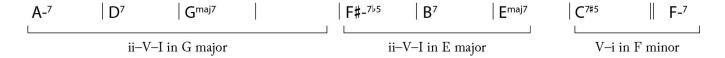
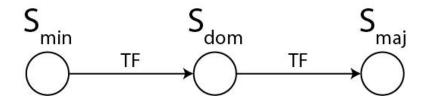


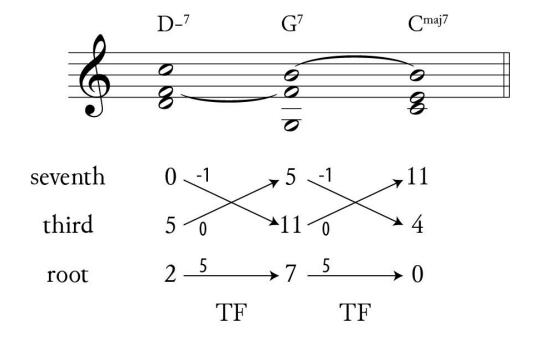
Figure 2. A transformation network for a ii–V–I in C major: Dm7–G7–CM7

$$ii^7 \xrightarrow{TF} V^7 \xrightarrow{TF} C^{\triangle}$$

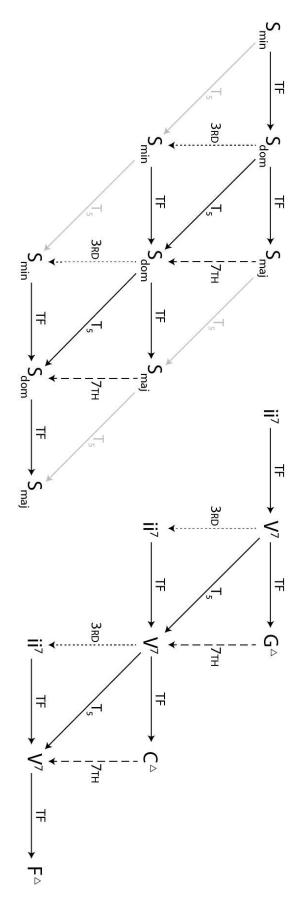
Figure 3. The underlying transformation graph for a single ii–V–I progression



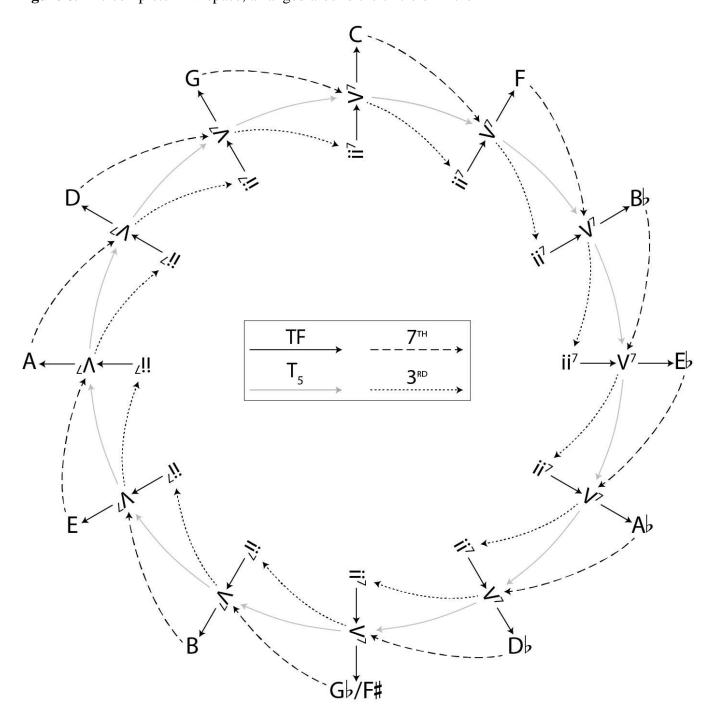
**Figure 4.** Voice leading in the ii–V–I progression



 $\textbf{Figure 5.} \ A \ transformation \ graph \ (left) \ and \ transformation \ network \ (right) \ for \ a \ small \ portion \ of \ ii-V \ space$ 



**Figure 6.** The complete ii–V space, arranged around the circle of fifths



**Figure 7.** Changes for the A section of "Ceora" (Lee Morgan)

$$A \flat^{maj7}$$
 $B \flat^{-7} E \flat^{7}$ 
 $A \flat^{maj7}$ 
 $E \flat^{-7} A \flat^{7}$ 
 $D \flat^{maj7}$ 
 $D - 7 G^{7} C - 7$ 
 $F^{7 \# 9}$ 
 $F^{7} E \flat^{7} C - 7$ 
 $B \flat^{-7}$ 
 $E \flat^{7}$ 
 $C - 7 F^{7}$ 
 $E \flat^{-7} E \flat^{-7}$ 
 $D - 7$ 
 $C - 7 F^{7}$ 
 $C - 7 E \flat^{-7}$ 
 $E \flat^{-7} E \flat^{-7}$ 

Figure 8. Changes for the B section of "Ceora" (Lee Morgan)

<b>A</b> ♭ <sup>maj7</sup>	$B_{\flat}-^{7}E_{\flat}^{7}$	<b>A</b> ♭ <sup>maj7</sup>	$ E\rangle^{-7} A\rangle^{7}$	
D♭ <sup>maj7</sup>	D-7 G7	C-7	F <sup>7#9</sup>	
$B \triangleright -7$	E\ <sup>7</sup>	C− <sup>7♭5</sup>	F <sup>7#9</sup>	
$B \triangleright -7$	F <sup>7</sup>	A⊳ <sup>maj7</sup>	$B_{\flat}-^{7}$ $E_{\flat}^{7}$	

Figure 9. The complete ii–V space, showing tritone substitutions

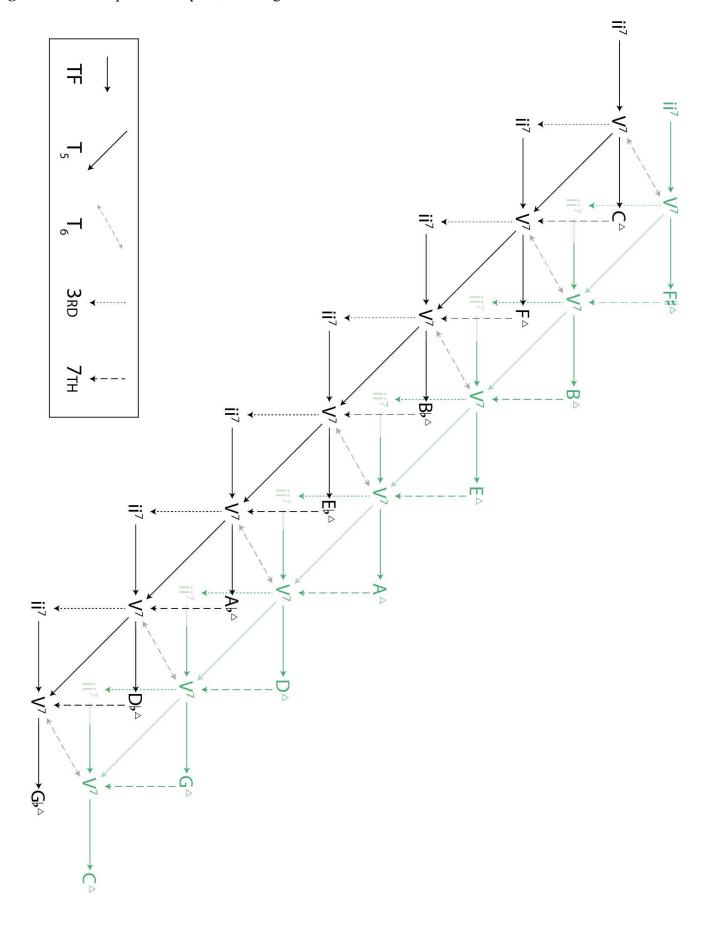
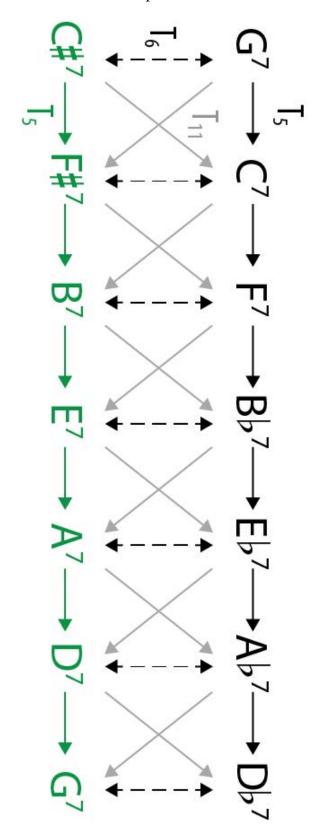
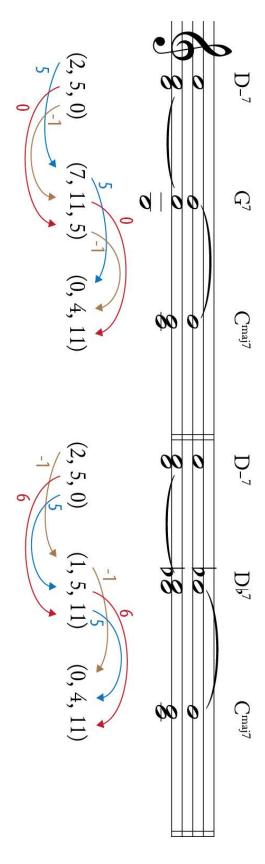


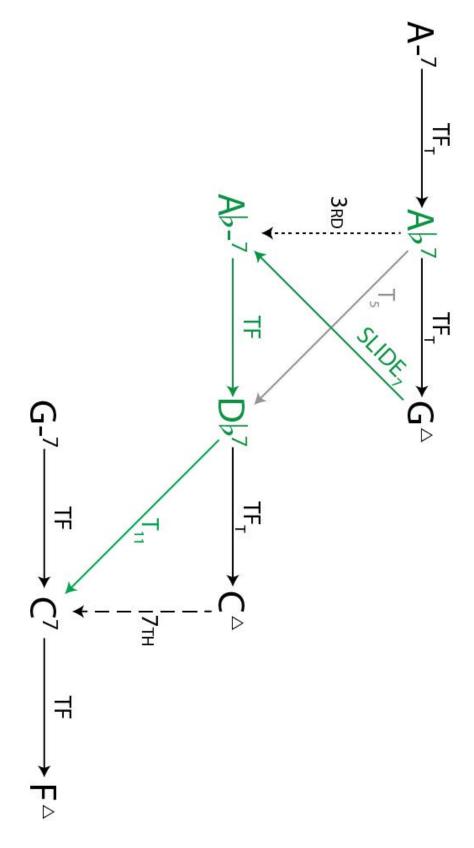
Figure 10. The Möbius strip at the center of ii–V space



**Figure 11.** Voice leading in the TF (left) and TF<sub>T</sub> (right) transformations, compared. The colored arrows indicate how the transformations are defined: although there is a common-tone F between Dm7 and D $^{\dagger}$ 7 (and likewise with the C $^{\dagger}$ /B between D $^{\dagger}$ 7 and CM7), the definition of TF<sub>T</sub> does not use these relationships



**Figure 12.** A transformation network for a small portion of ii–V space, with tritone substitutions shown in green



**Figure 13.** The SLIDE<sub>7</sub> transformation from D M7 to Dm7 in mm. 5–6 of "Ceora."

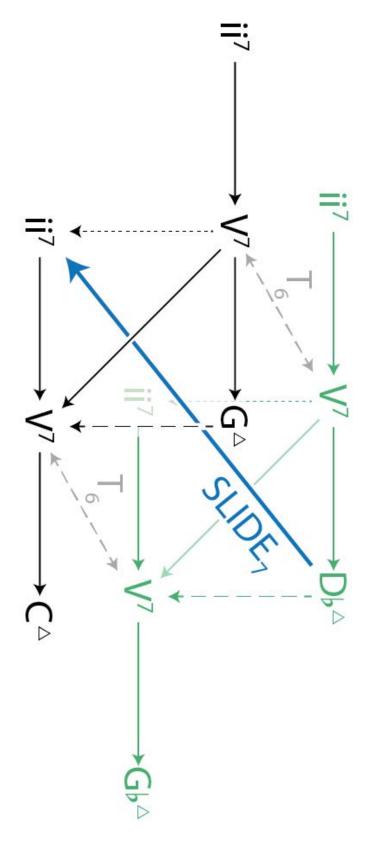


Figure 14. Changes for "Blues for Alice" (Charlie Parker)

Figure 15. Transformations involving minor tonic chords

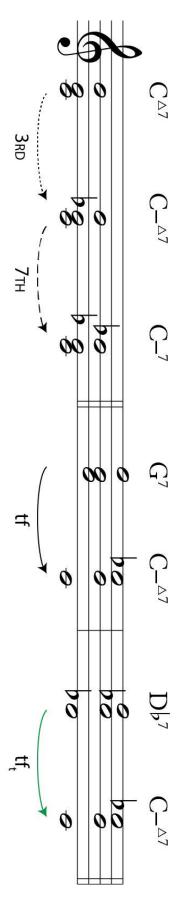


Figure 16. A small portion of ii–V space, including minor tonic chords

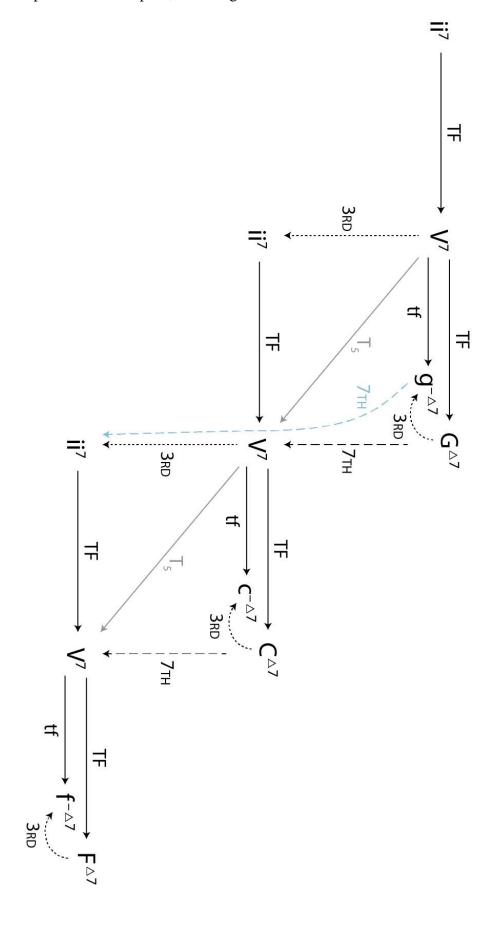


Figure 17. Changes for "Solar" (Miles Davis)

 C-  $G-^7$   $C^7$ 
 $F^{maj7}$   $F-^7$   $B_{\flat}^7$ 
 $E_{\flat}^{maj7}$   $E_{\flat}^{-7}$   $A_{\flat}^7$   $D_{\flat}^{maj7}$   $D_{-7\flat}^{7\flat}$   $G^{7\flat}$   $G^{7\flat}$ 

Figure 18. A generic version of ii–V space, with unspecified tonic chords

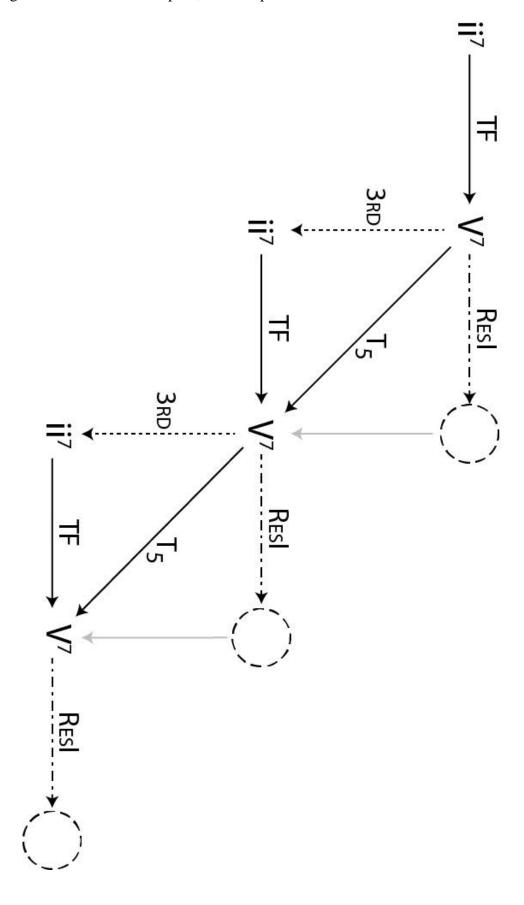
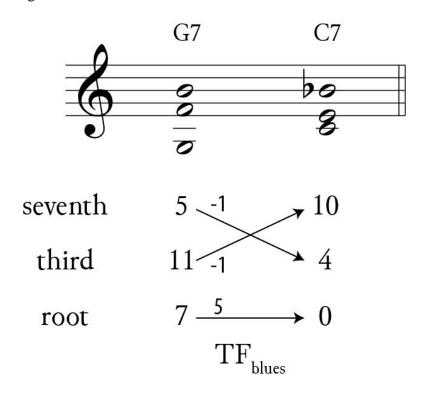


Figure 19. Voice leading in the TF<sub>blues</sub> transformation



**Figure 20.** B 7 as both dominant (left) and tonic (right)

$$\begin{cases}
(\hat{4}, A\flat) \\
(\hat{7}, D) \\
(\hat{5}, B\flat)
\end{cases}$$

$$\begin{cases}
(\flat \hat{7}, A\flat) \\
(\hat{3}, D) \\
(\hat{1}, B\flat)
\end{cases}$$

Figure 21. A small portion of "blues ii–V space."

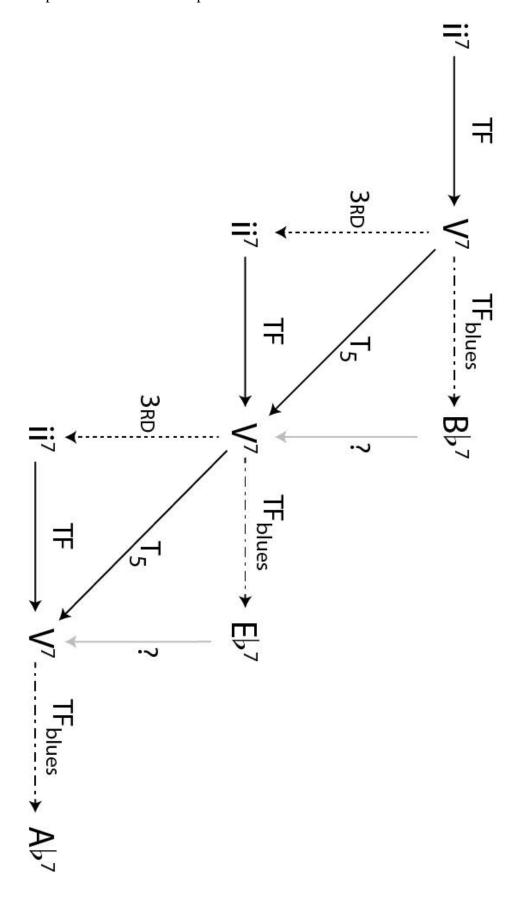


Figure 22. A pivot fifth between B 7 as dominant and B 7 as tonic

$$\begin{cases} (\flat \hat{7}, A \flat) \\ (\hat{3}, D) \\ (\hat{1}, B \flat) \end{cases} \xrightarrow{\text{(5th,0)}} \begin{cases} (\hat{4}, A \flat) \\ (\hat{7}, D) \\ (\hat{5}, B \flat) \end{cases}$$

Figure 23. A portion of ii–V space, conformed to the white-key diatonic circle of fifths

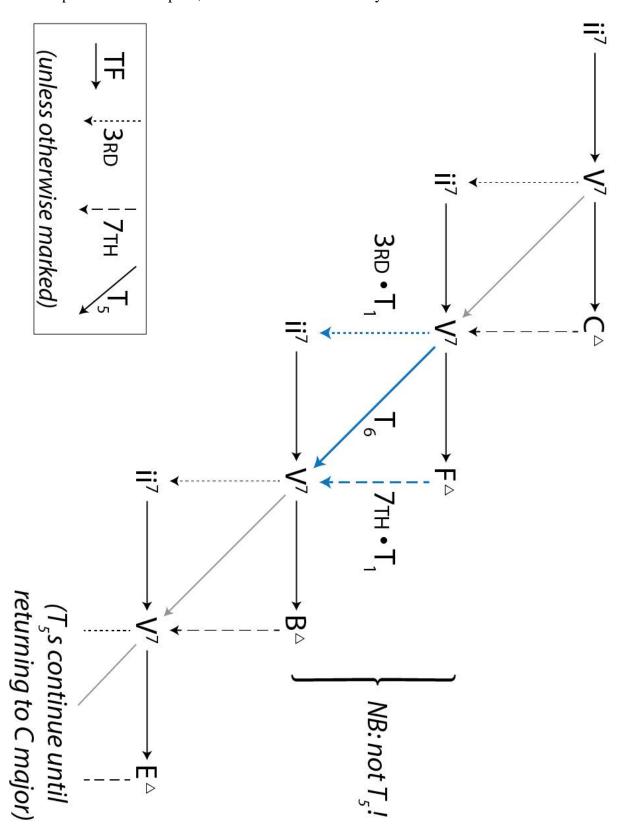


Figure 24. An Ab-major diatonic ii–V space, arranged in descending steps

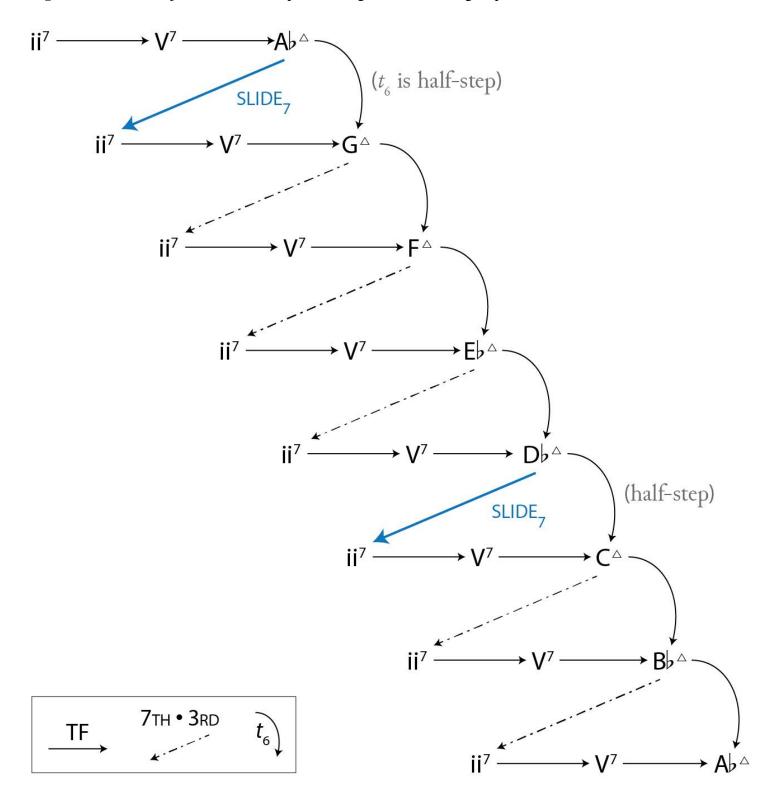


Figure 25. An analysis of "Ceora" in diatonic ii–V space

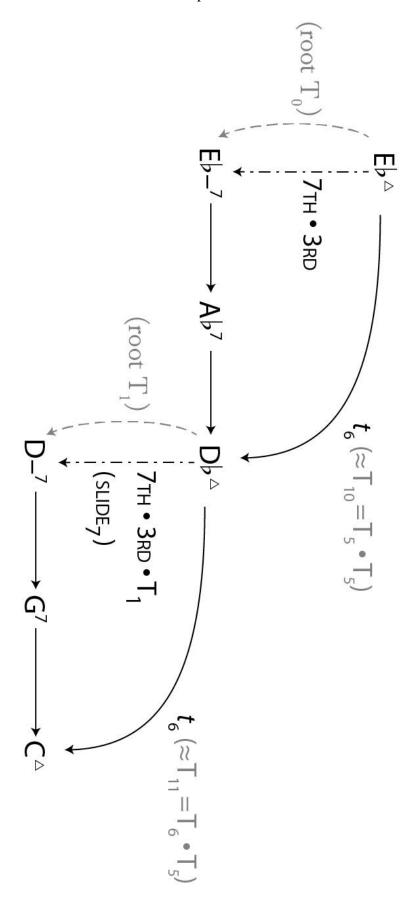


Figure 26. The diatonic seventh chords in F major, arranged around the diatonic circle of fifths

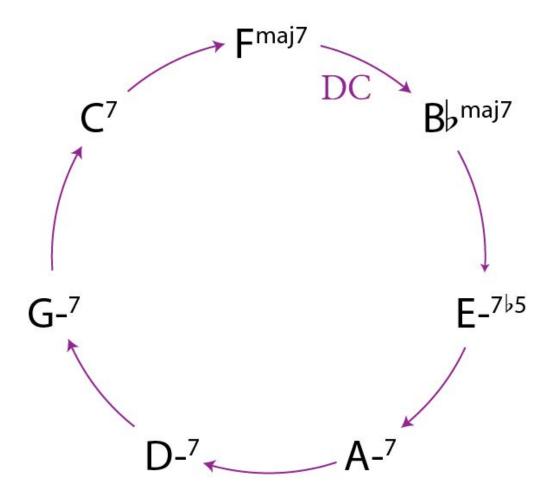


Figure 27. A possible derivation of "Blues for Alice," mm. 1–5, from a diatonic model

