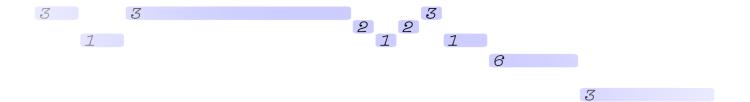
The Integer Book

by

Jesse van Oostrum



Contents

ını	troduction	5
Α	A Night in Tunisia About a Quarter to Nine Full After you've Gone Ain't Misbehavin' All Of Me All the Things You Are Alone Together Angel Eyes April in Paris Autumn Leaves	7 9 12 13 15 17 19 21 23 25
В	Back Home Again in Indiana Back Home in Indiana Bag's Groove Ballin' The Jack Black Coffee Body and Soul	27 28 29 30 32 34
С		36 36 38 41
D	Darn That Dream Do You Know What It Means To Miss New Orleans Don't Blame Me Don't Get Around Much Anymore Don't be that way Dream A Little Dream Of Me Drop Me Off in Harlem	43 44 46 48 50 52 54
E	East Of The Sun	56 56
F	Fly me to the moon	58 58 60
G	Georgia on my Mind	62 62 64
Н	How Deep is the Ocean?	65 65 67

I		69
	I Can't Believe That You're in Love with Me	. 69
	I Cover the Waterfront	. 71
	I Don't Stand a Ghost of a Chance (with You)	. 73
	I Got it Bad and That Ain't Good	. 75
	I Let a Song (Go) Out of my Heart	. 77
	I Should Care	. 79
	I'll See You In My Dreams	. 81
	I'm Old Fashioned	. 84
	If I Had You	. 86
	Indian Summer	. 88
	Isn't it Romantic?	. 90
	It Could Happen to You	
	It Might As Well Be Spring	
J		100
	Just Friends	. 100
	Just the Way You Look Tonight	. 102
L		105
	Laura	
	Lester Leaps In	
	Louisiana Fairytale	
	Lover Man	
	Lullaby of Birdland	
	Lush Life	. 117
M		118
	Maple Leaf Rag	
	Mean To Me	
	Misty	
	Mr PC	
	My Funny Valentine	
	My Romance	. 127
_		100
O	O L CN L L	129
	Out of Nowhere	. 129
D		130
Г	Perdido	
	Poinciana	
	Prelude to a Kiss	
	ruttiii Oii Tile Kitz	. 130
R		138
• •	Round Midnight	
	Royal Garden Blues	
	1\Uvai \ai\ucii \Diuc\u003	. <u>1</u> 40

S		142
	Satin Doll	142
	Sentimental Journey	143
	September Song	144
	Shiny Stockings	
	Skylark	
	Sonnymoon for Two	155
	Sophisticated Lady	156
	St James Infirmary	
	St. Louis Blues	
	Star Dust	168
	Stars Fell On Alabama	
	Stompin' at the Savoy	176
	Sunny Side of the Street	
	Sweet Lorraine	181
Т		187
	Take the A Train	187
	Taking a Chance on Love	188
	Tea for Two	190
	The Christmas Song	192
	The Joint is Jumpin'	194
	The Nearness of You	197
	The Windup	199
	There Will Never Be Another You	201
	There is no Greater Love	203
	This Can't Be Love	205
	Topsy	207
	Turn Out the Stars	208
	Two Sleepy People	210
W		212
	What's New?	
	Where or When	
	Willow Weep for Me	
	Wrap Your Troubles in Dreams verse	218
v		220
Υ	Water Land	220
	Yesterdays	
	You Go to my Head	221

Introduction

The latest version of the integer book can be downloaded from: https://jessevoostrum.github.io/music-visualisation/integer-book.pdf

the philosophy

"Understand the music you hear, play the music you imagine"

The above slogan¹ summarises succinctly my personal goal in my musical journey. In order to accomplish this goal, we need an easy way to translate the feeling that music generates when we hear or imagine it, to theoretical symbols we can use to understand and play the music.

The problem with conventional symbols like F# or C is that they don't correspond to one particular feeling, since an F# will generate a very different feeling in a melody in D major (happy / uplifting) compared to a melody in G major (tension). However, an F# in G major does generate a very similar feeling to a B in C major. This is because they are both the 7th of their respective scales. This holds true for any relative position in the scale: e.g. E in G major and G# in G major (both the 5th) or G in G major (both the b3th).

Therefore, if we think about and write down melodies in terms of their relative position in the scale, it gets very easy to translate the feeling the music generates to their corresponding theoretical symbol (a number). And together with the key of the song, this also gives us all the information we need to find the right note on our instrument.

the method

The songs in this book are represented using numbers. Each number refers to a location within the major scale. For example, if the song is in D major, the 3 would refer to the F#. The numbers in the melody refer to single tones. The numbers of the chords refer to the chord corresponding to the tone. Again, in D major, the 6- chord would be B-D-F#.

the name

A Real Book is a compilation of lead sheets for jazz standards. The name is derived from "fake books", so called because they contained only rough outlines of music pieces rather than fully notated scores.² In mathematics the real numbers are a collection containing all numbers with a possibly infinite decimal expansion. A subset of these are the integer numbers, which can be written without the use of decimals. Since these are the only numbers we use to represent the music in this book, it is called The Integer Book.

the code

The code to produce these visualisations can be viewed on: https://github.com/jessevoostrum/music-visualisation. If you would like to contribute to the code or have questions, you can send me an email: jessevoostrum@gmail.com.

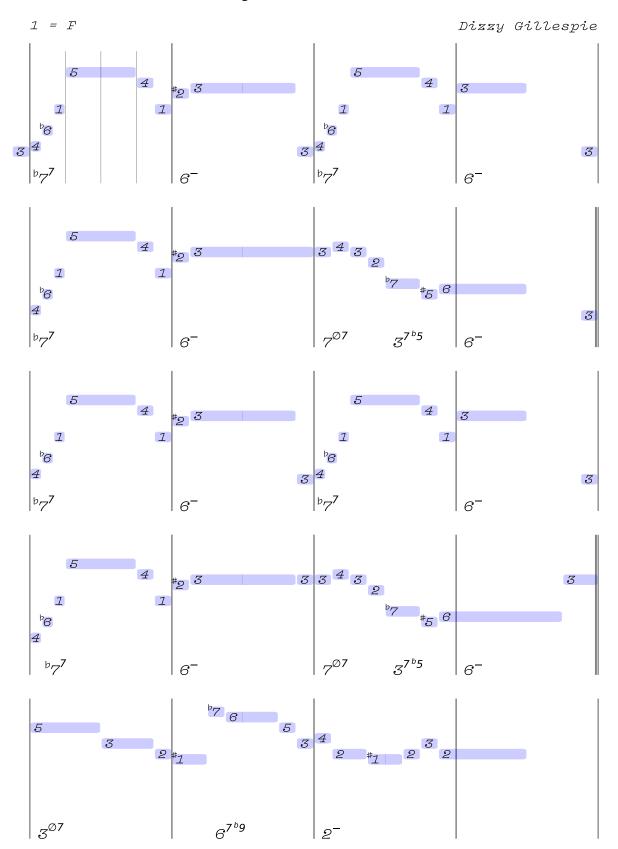
¹This is the slogan from the musical education platform "Improvise for Real". I can highly recommend checking out their resources at https://improviseforreal.com/

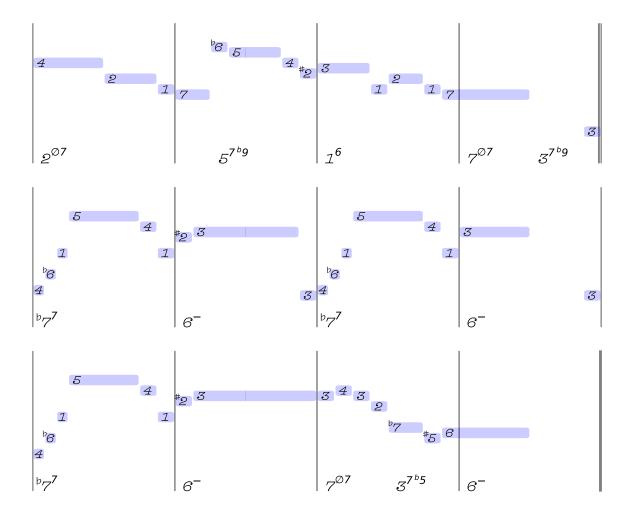
²source: https://en.wikipedia.org/wiki/Real_Book

donate

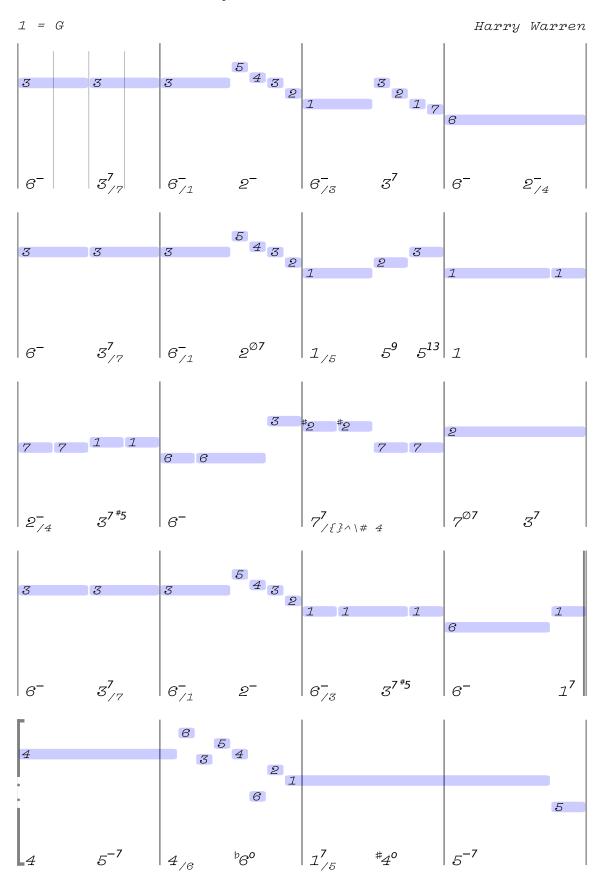
If you feel that you are benefitting from these visualisations and would like to show your appreciation through a financial donation, this can be done via $\underline{\text{this link}}$.

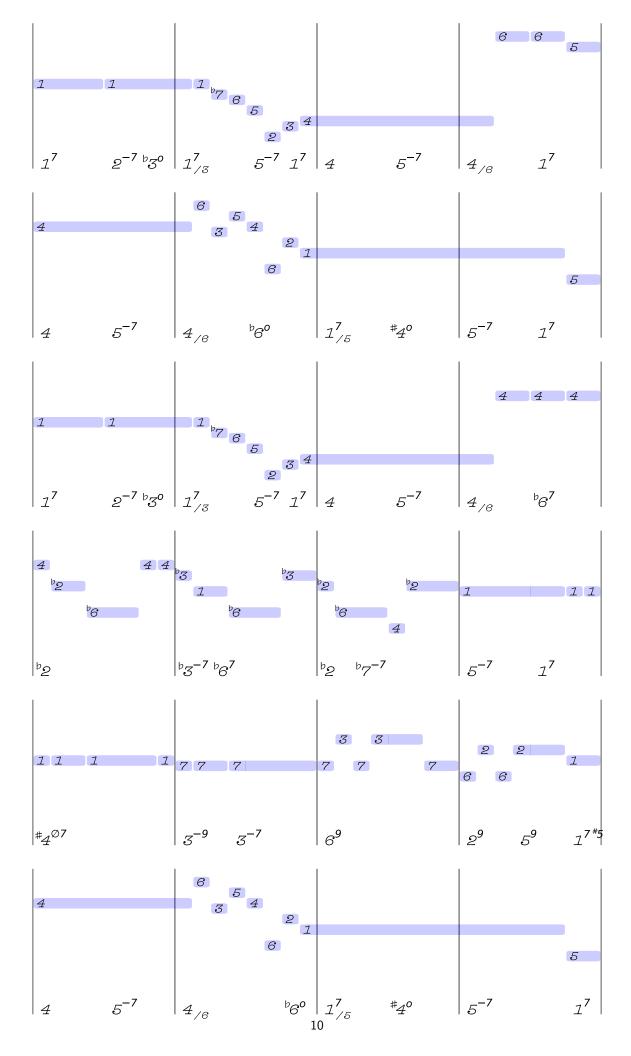
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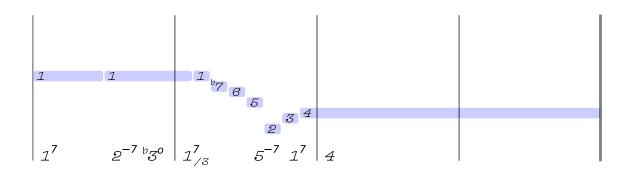




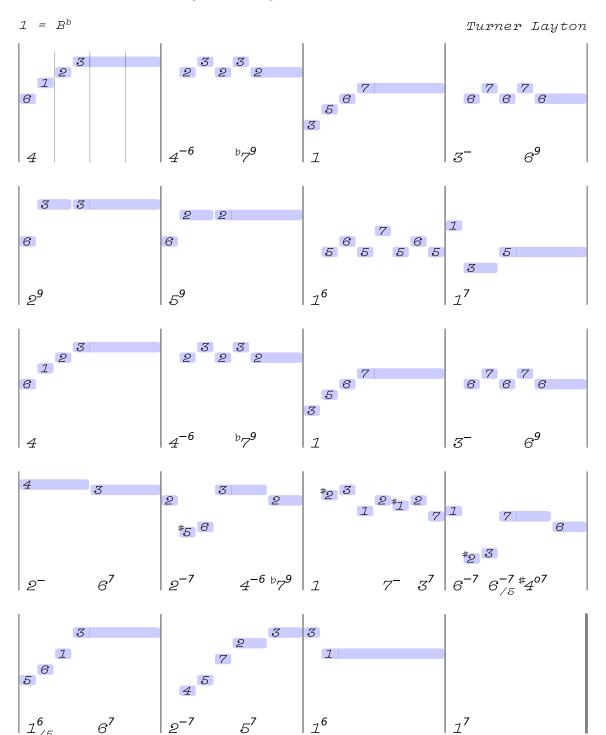
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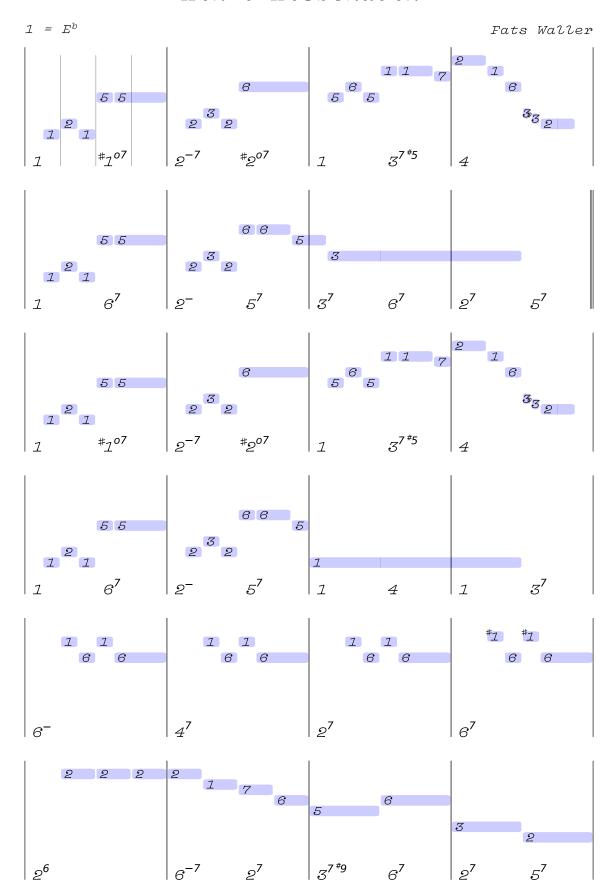


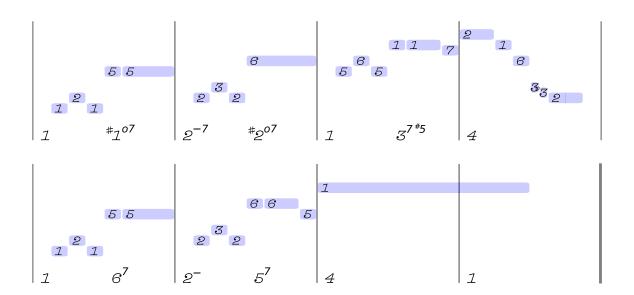


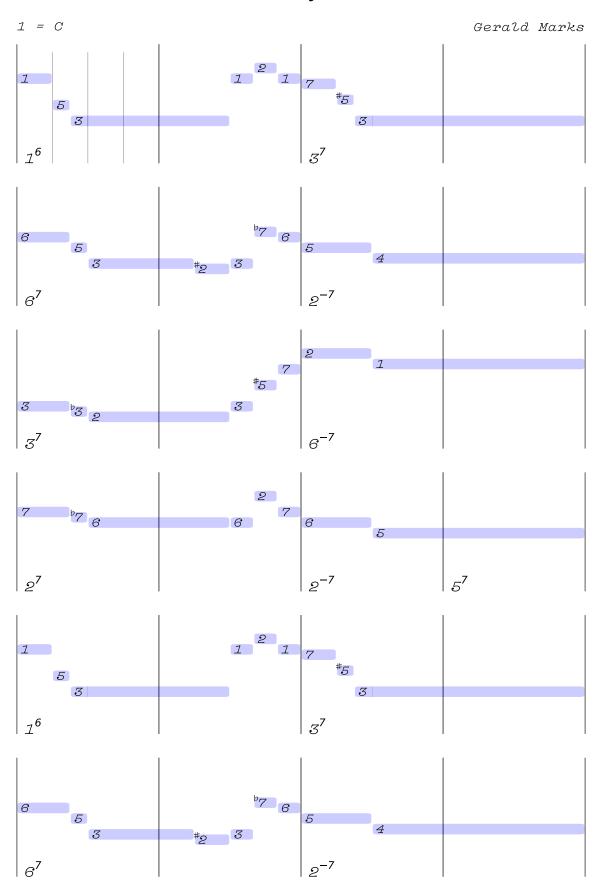
After you've Gone

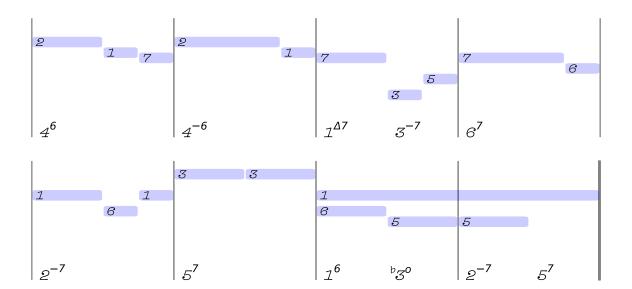


Ain't Misbehavin'

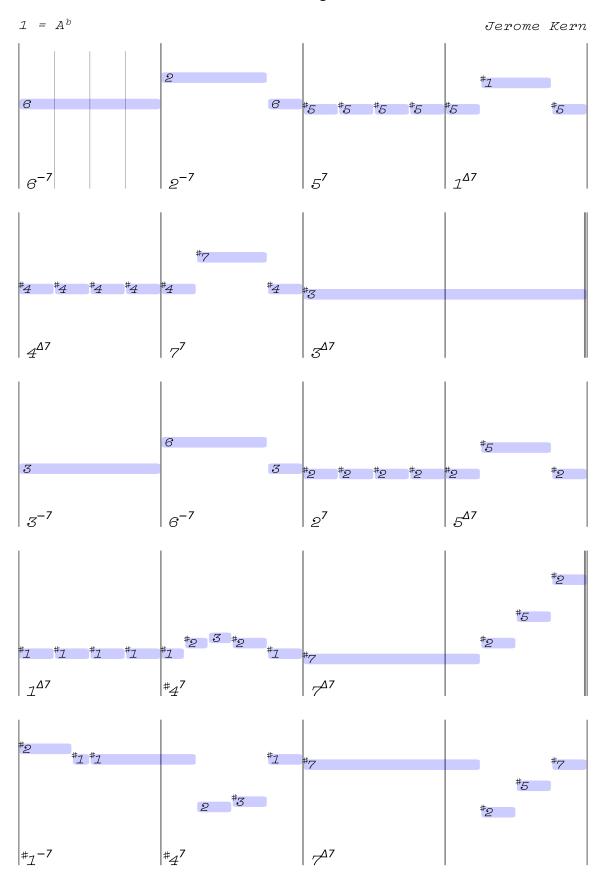


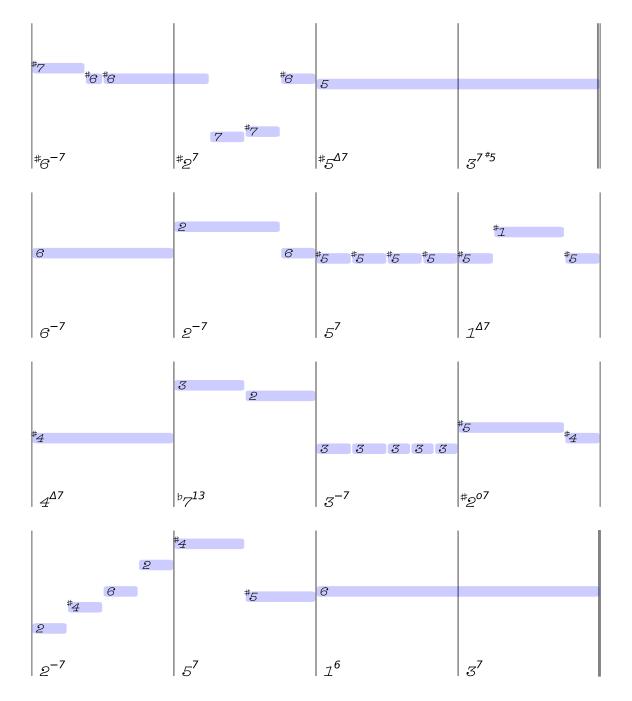




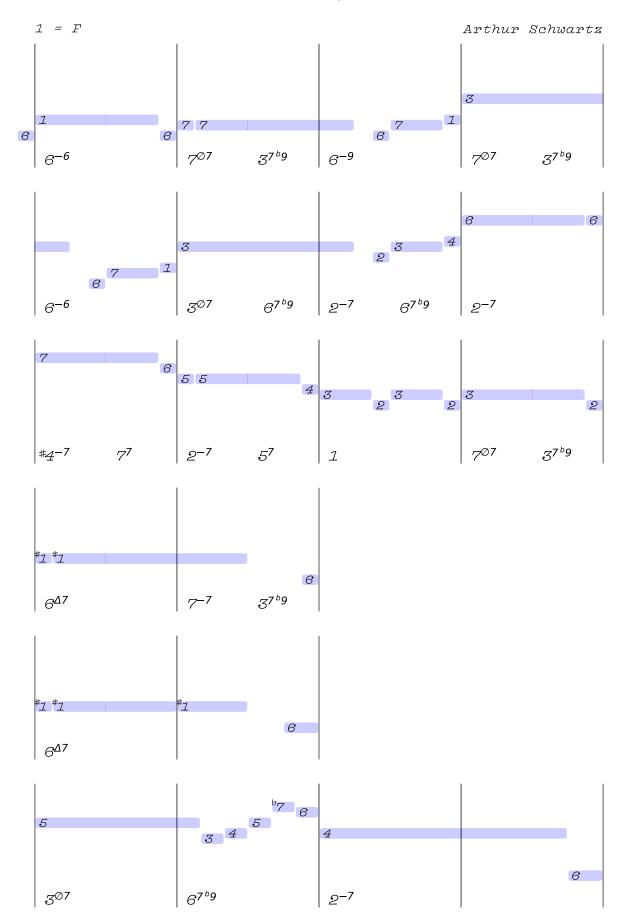


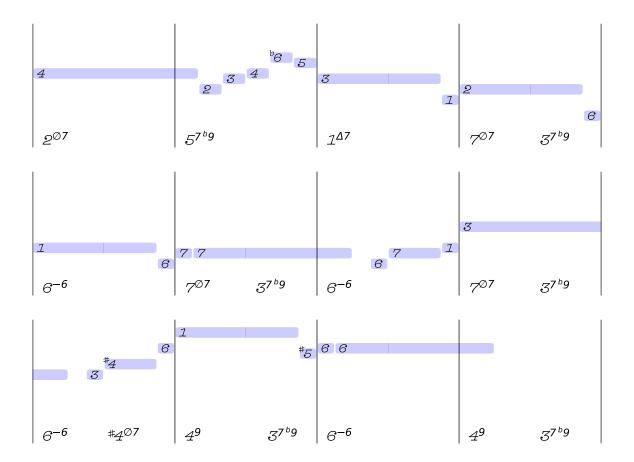
All the Things You Are

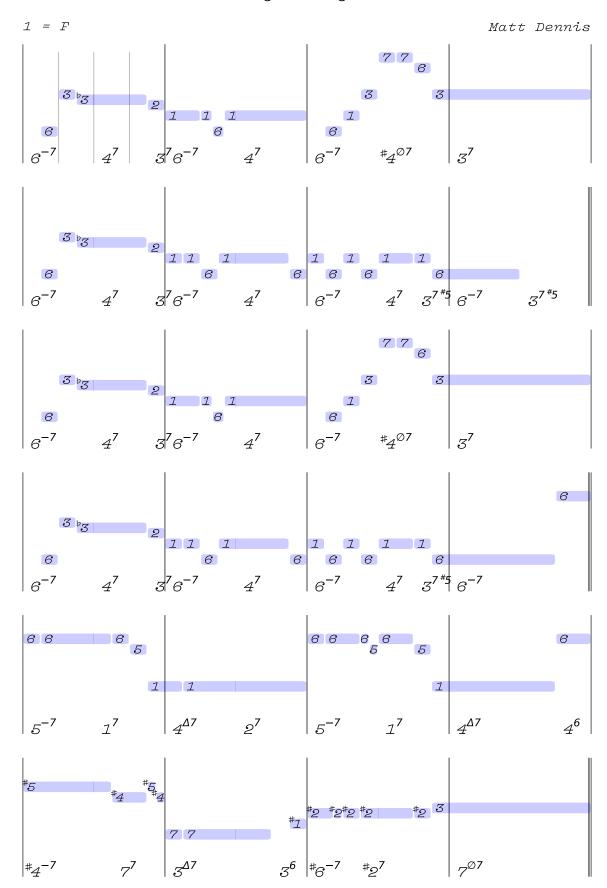


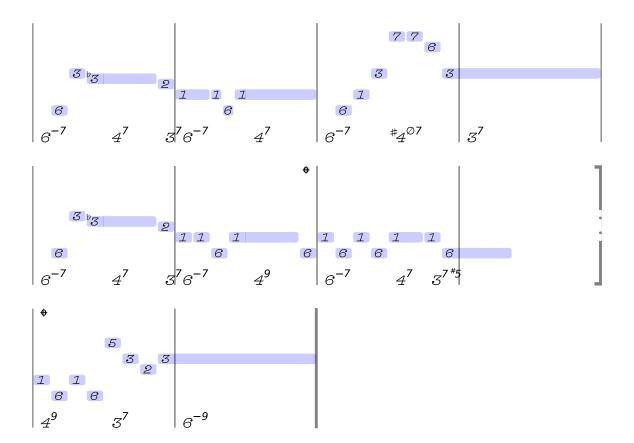


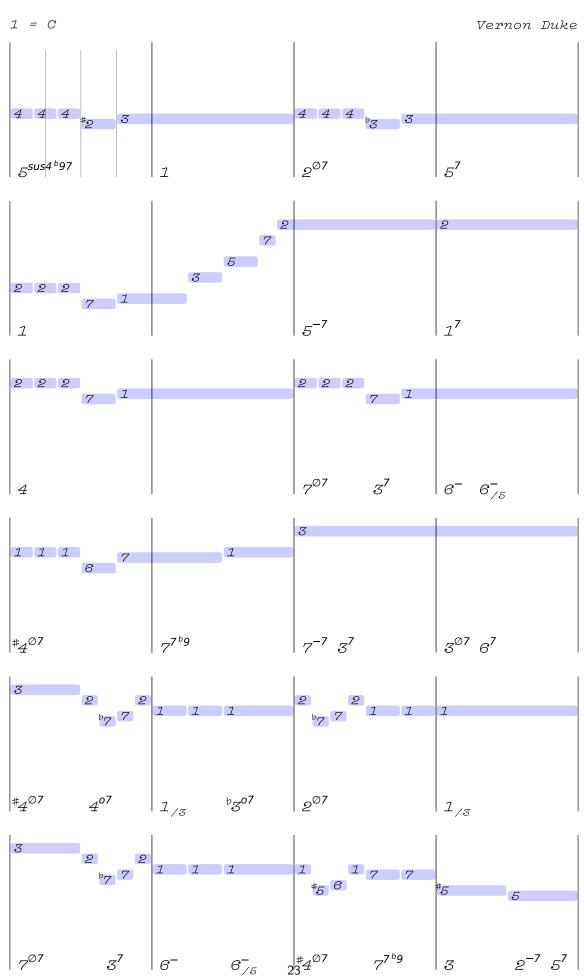
Alone Together





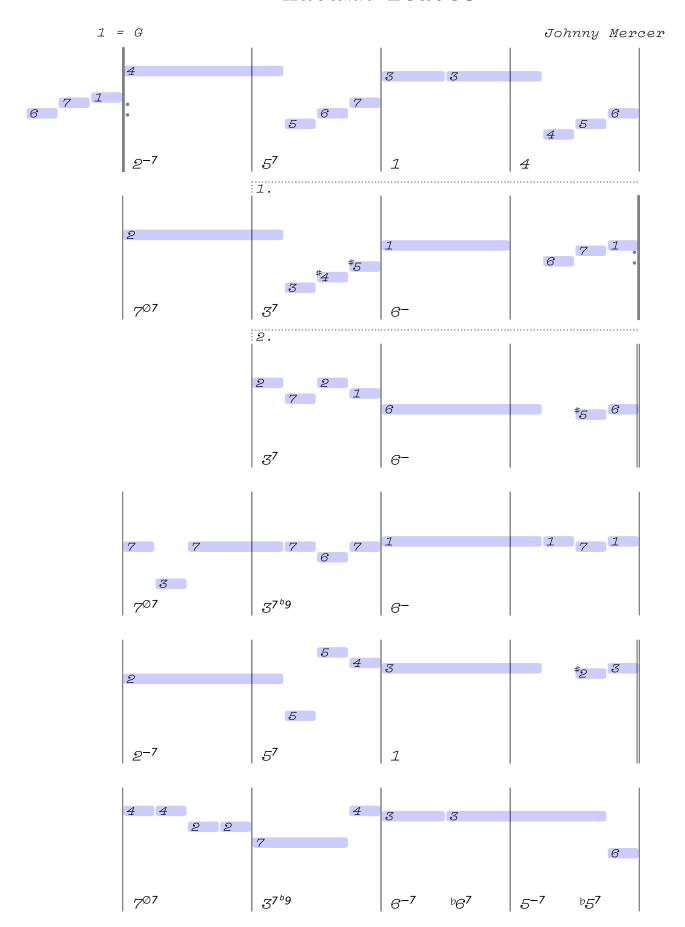


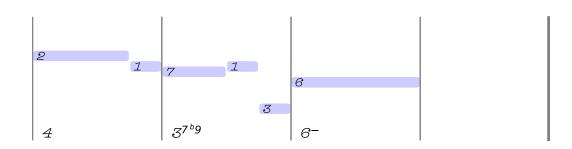




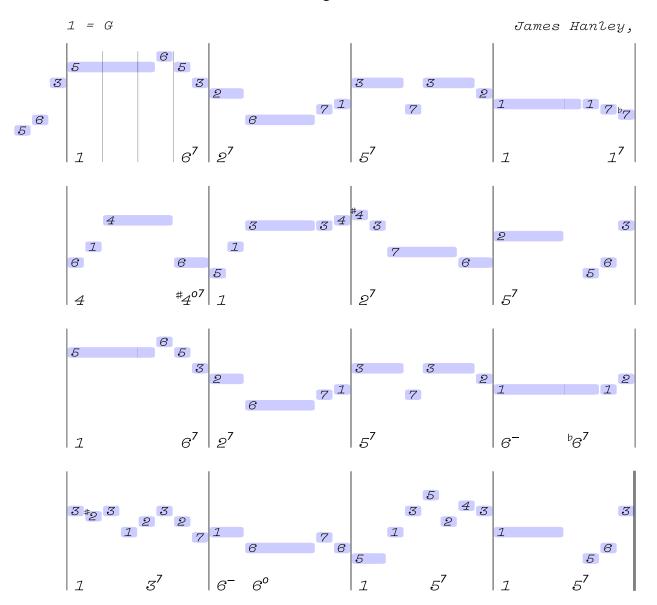
4 4 4 _{#2} 3 5 ^{sus4 b} 97	3	^b 7 ^b 7 ^b 7 [#] 5 6	6 ^{7 b 5 # 5 b 9 # 9}
2 2 2 7 1	2 2 ^{©7} 5 ⁷	1	

Autumn Leaves

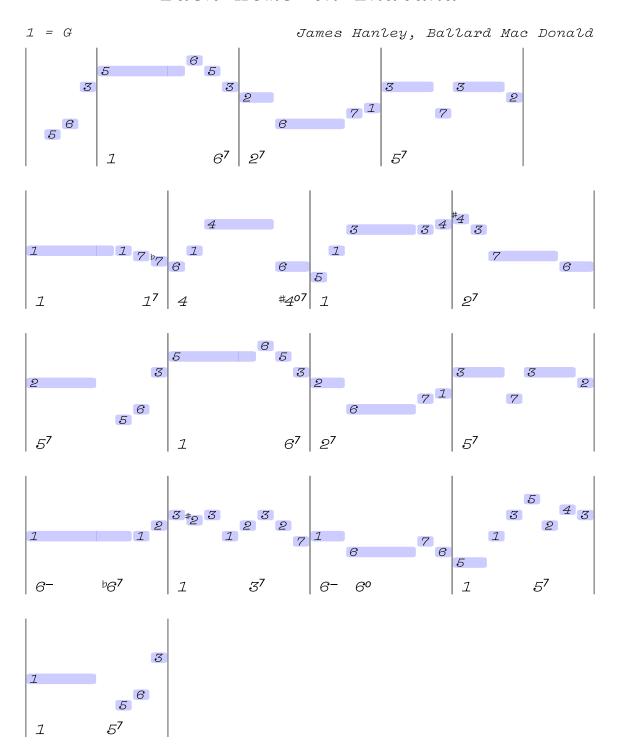


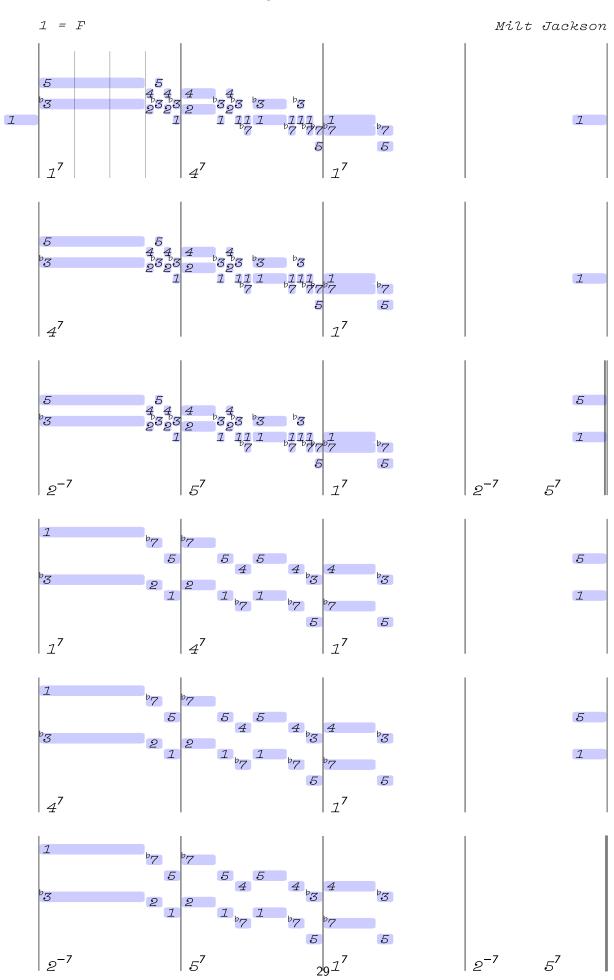


Back Home Again in Indiana

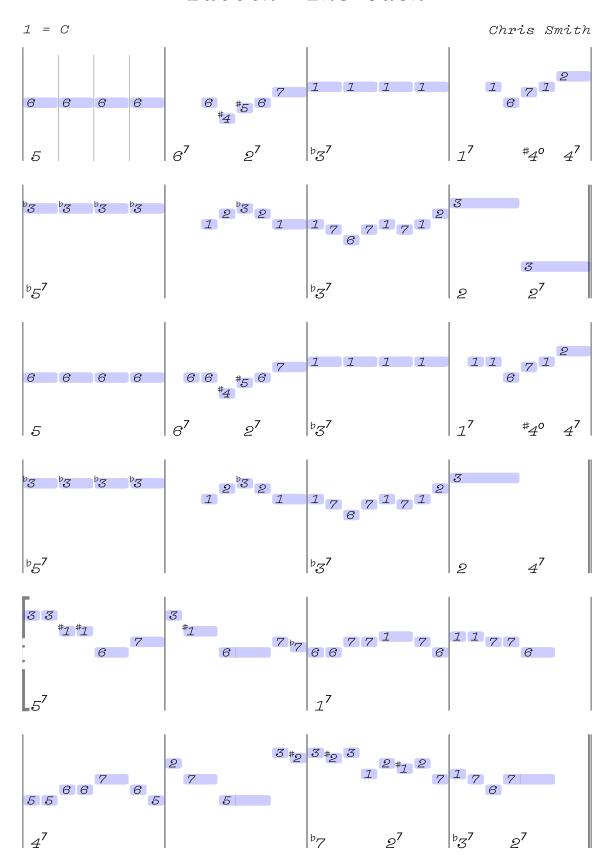


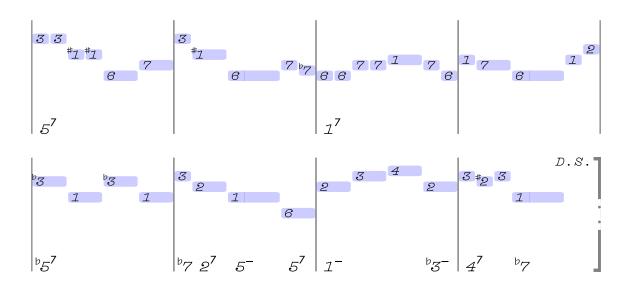
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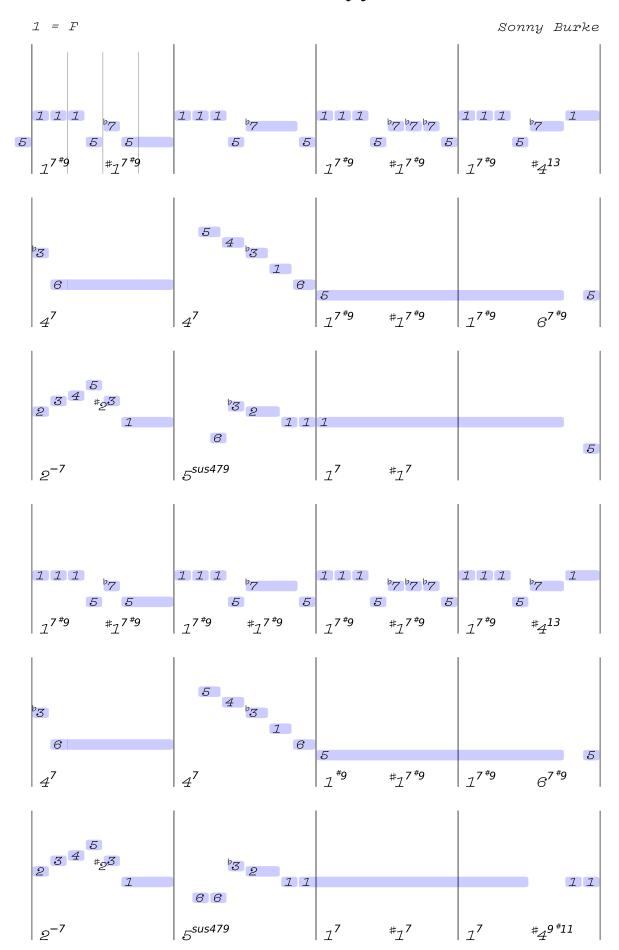


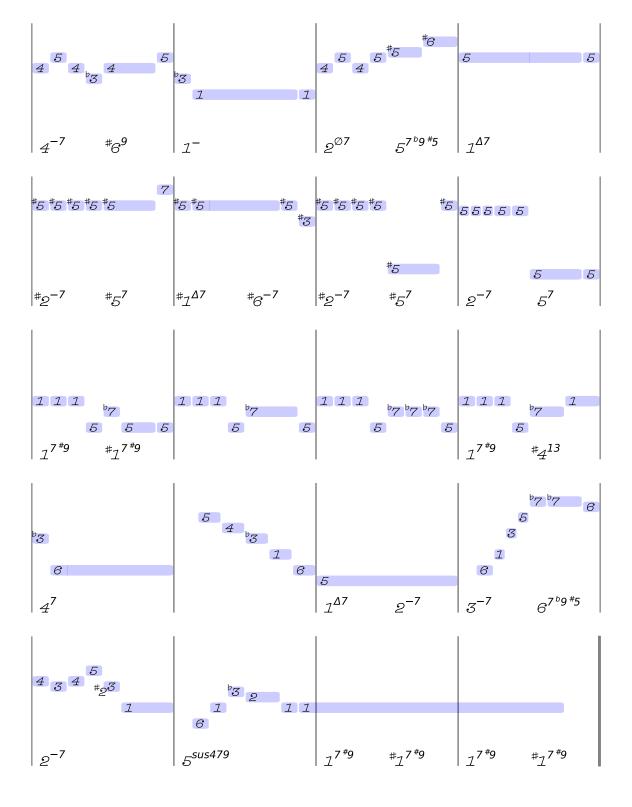
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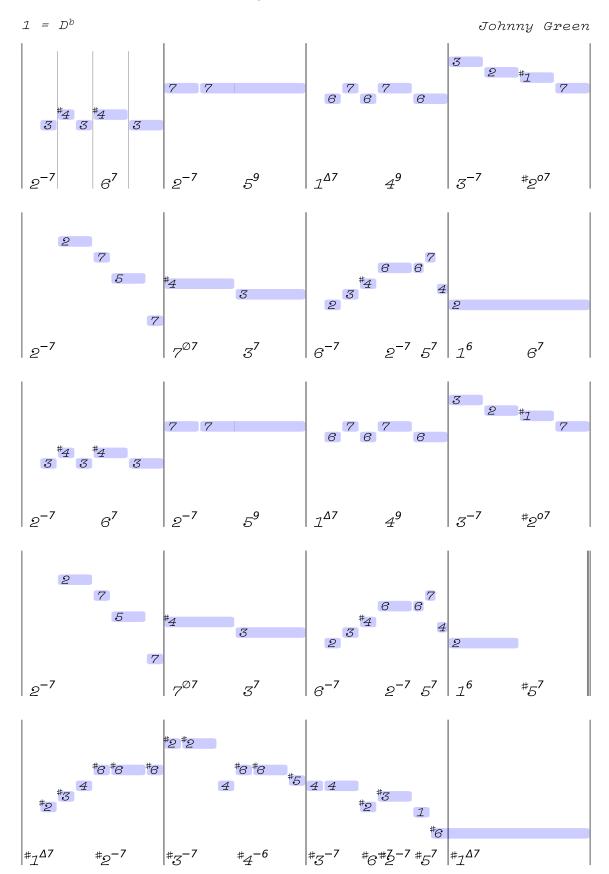


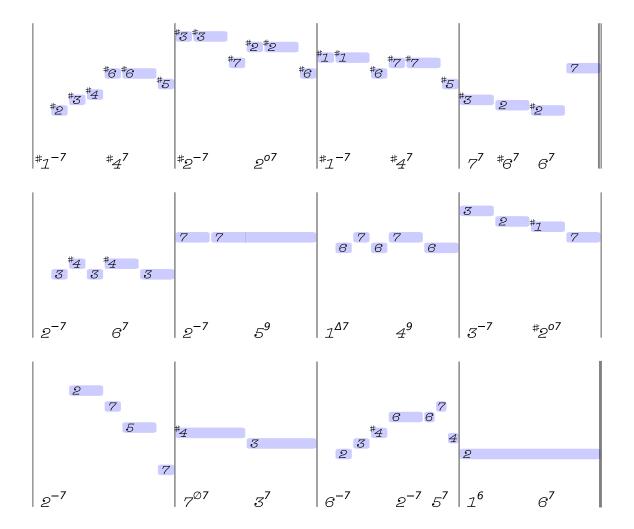
Black Coffee

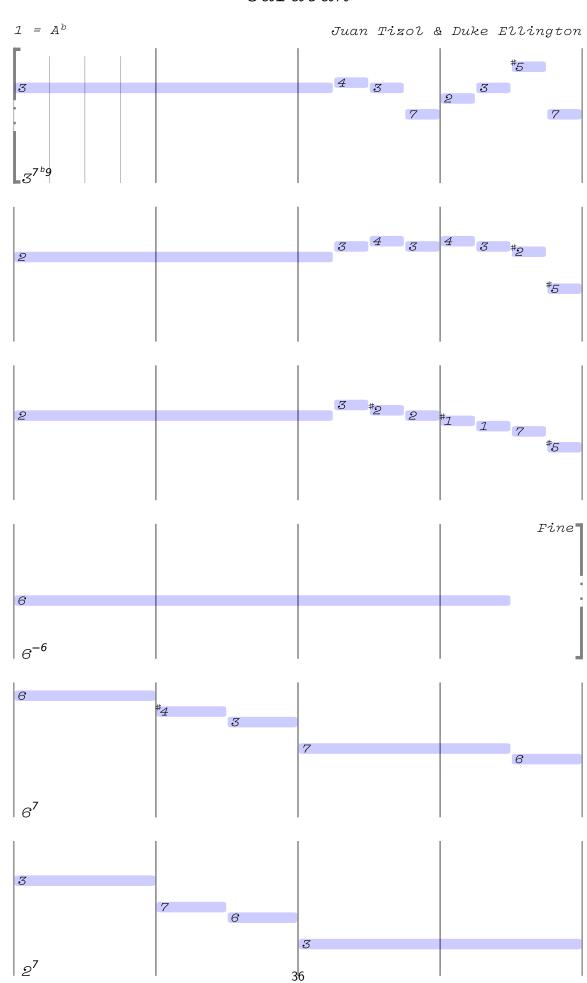


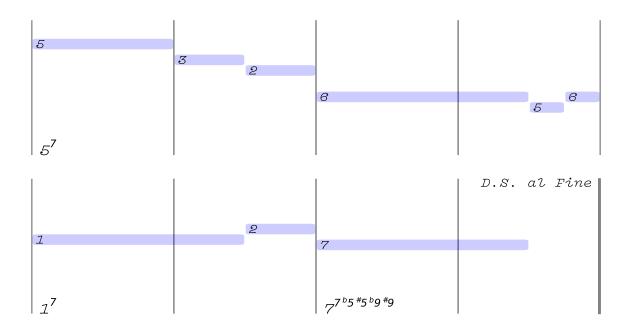


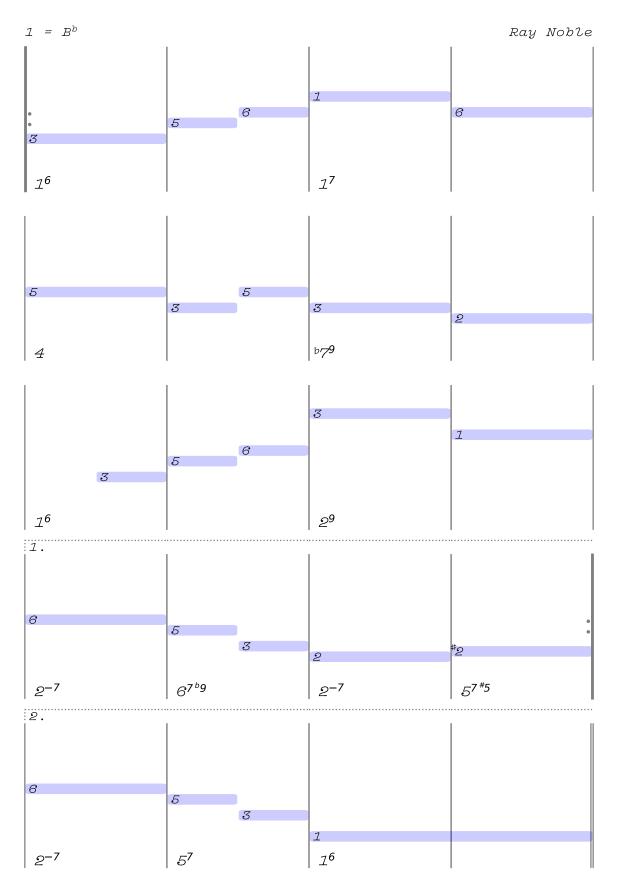
Body and Soul

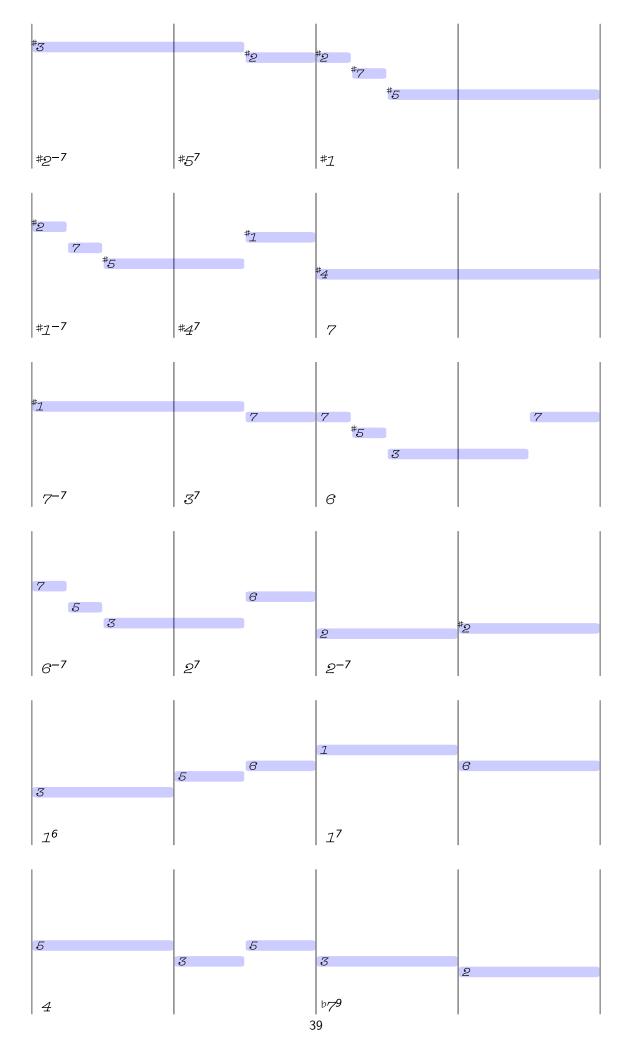


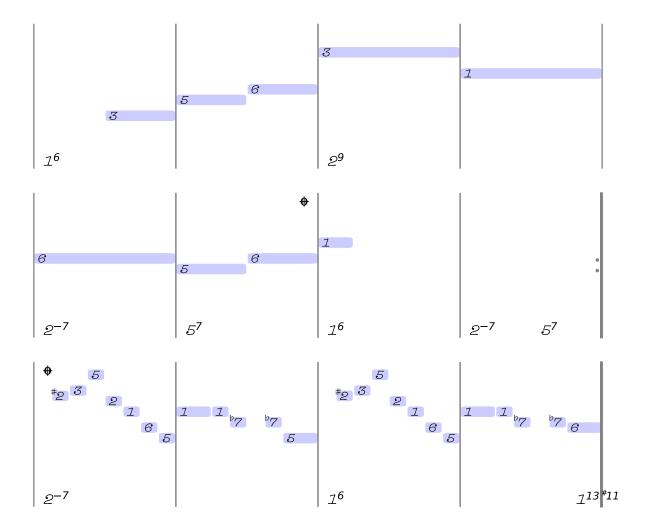




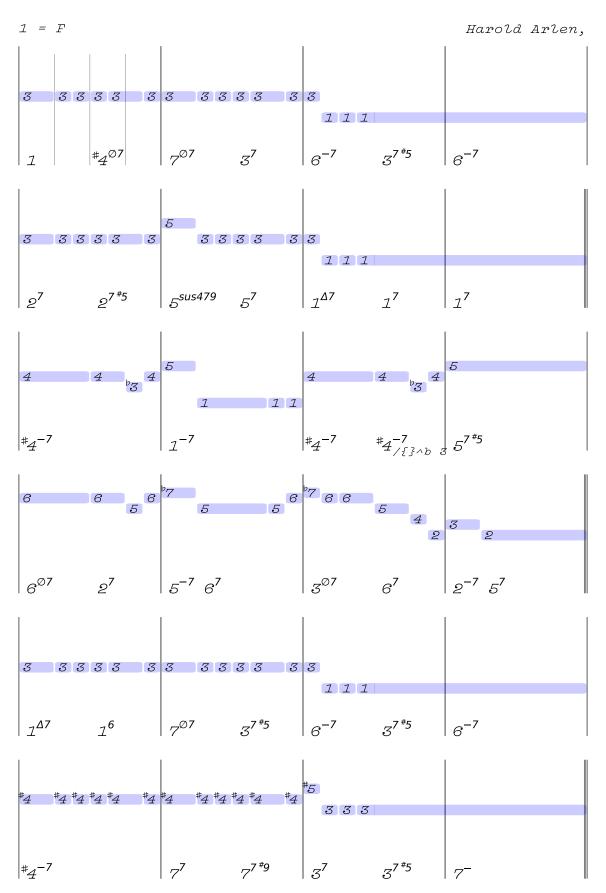


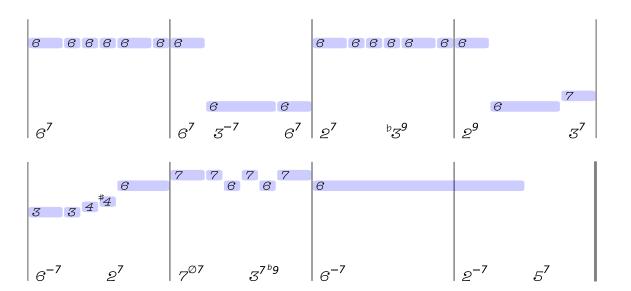




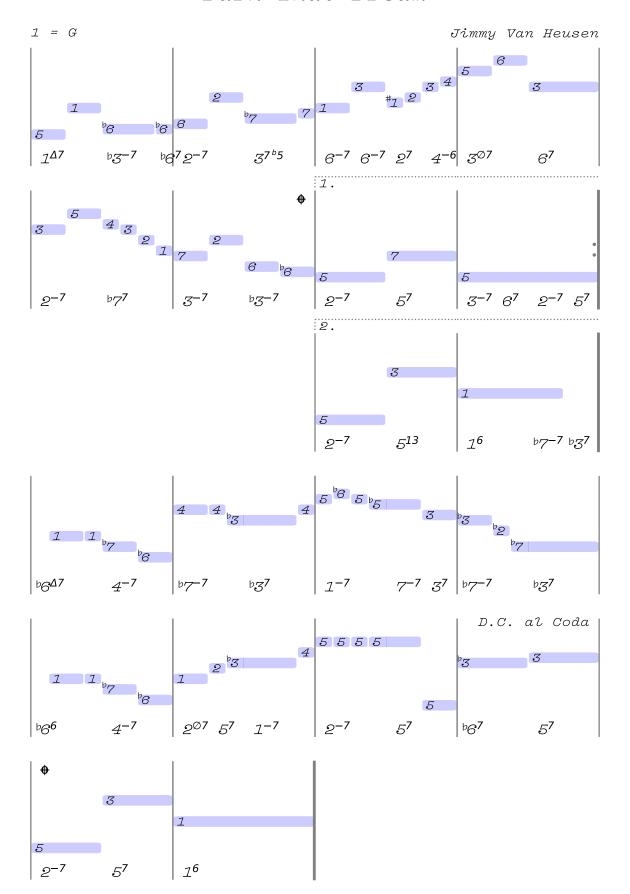


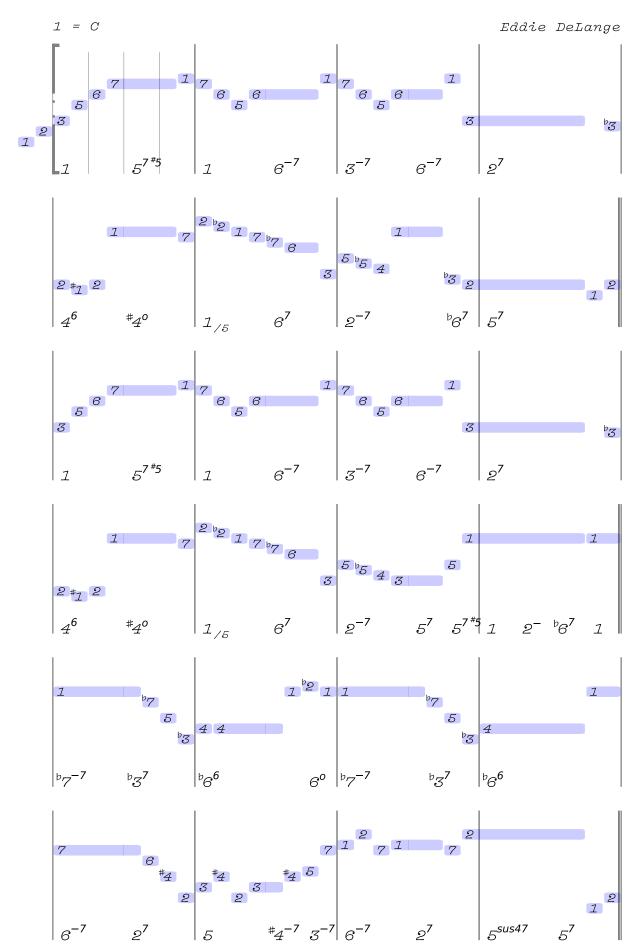
Come Rain or Come Shine

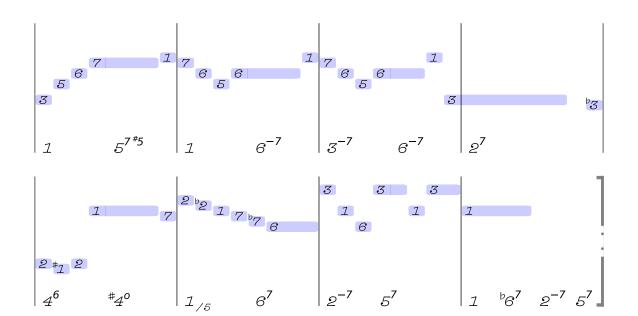




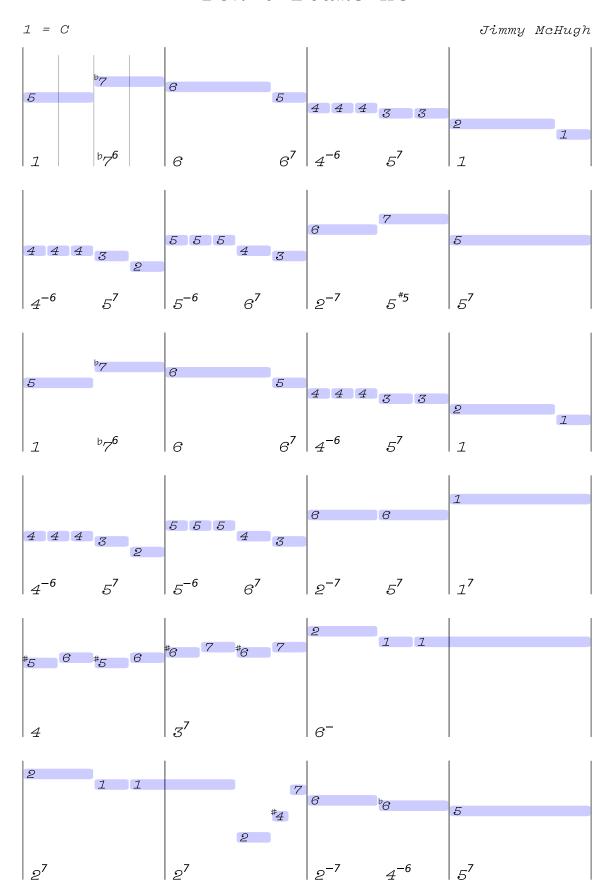
Darn That Dream

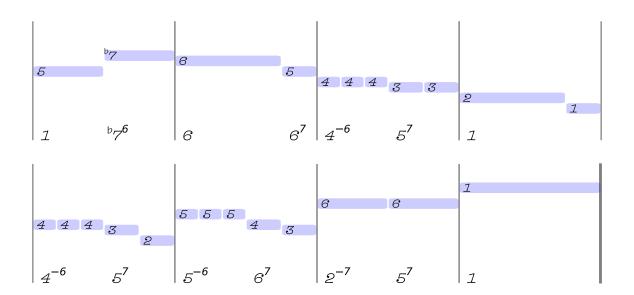


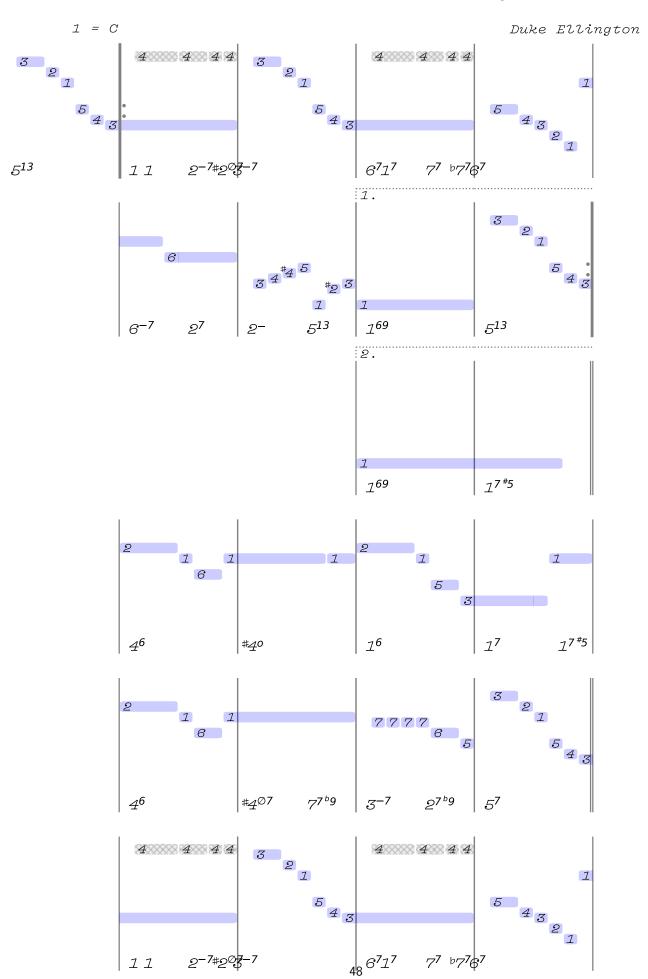


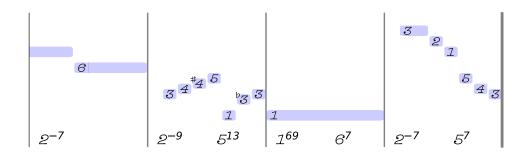


Don't Blame Me

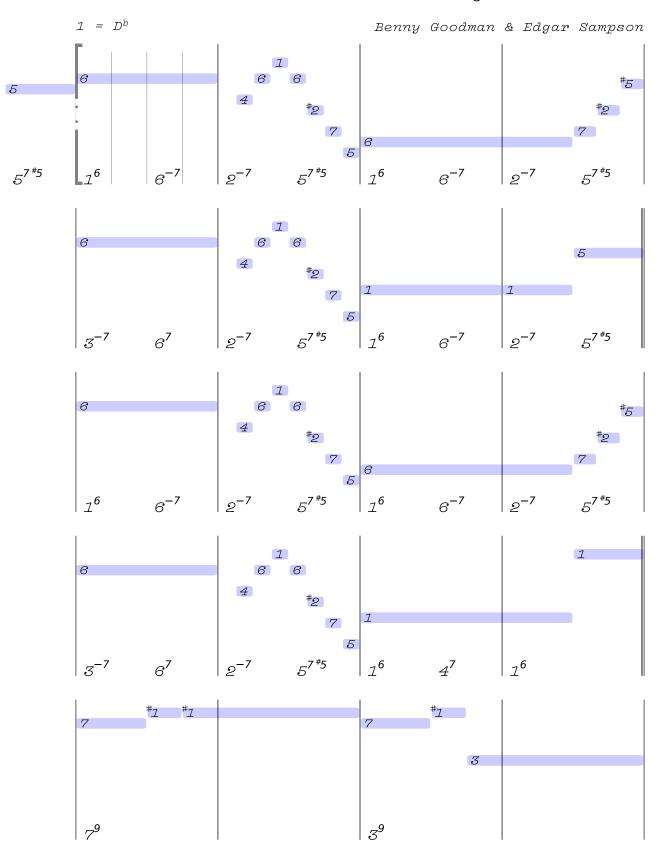


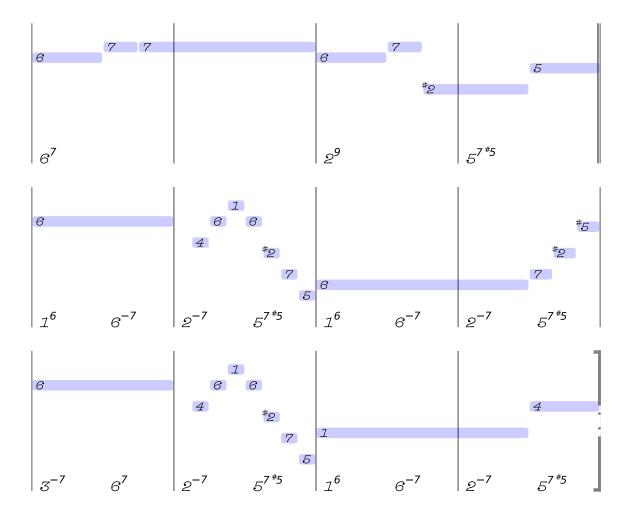


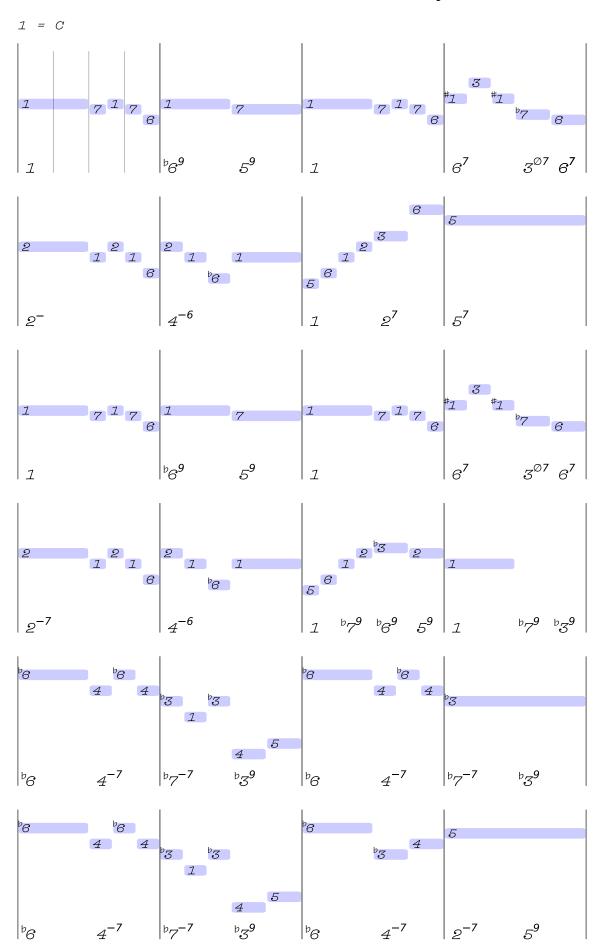


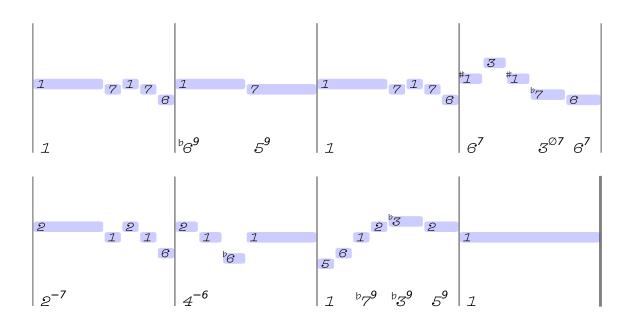


Don't be that way

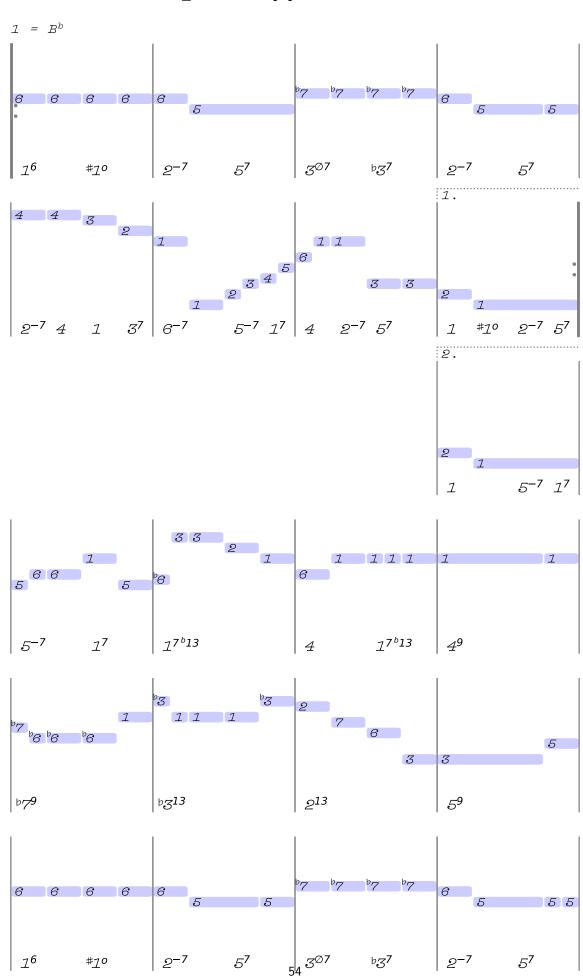


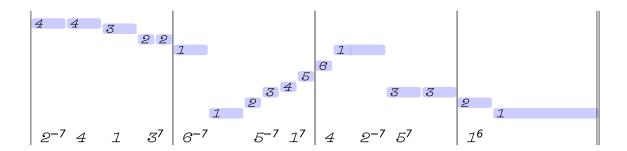




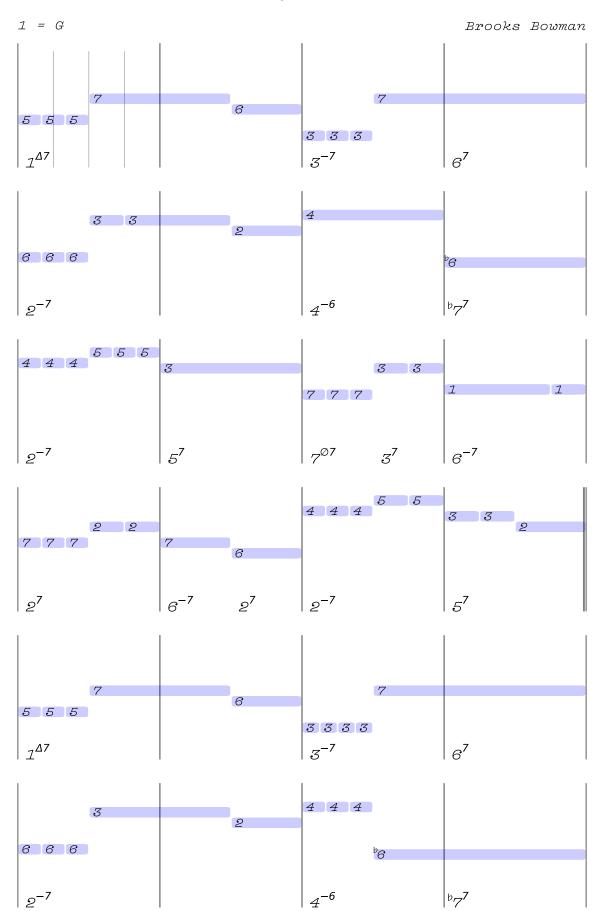


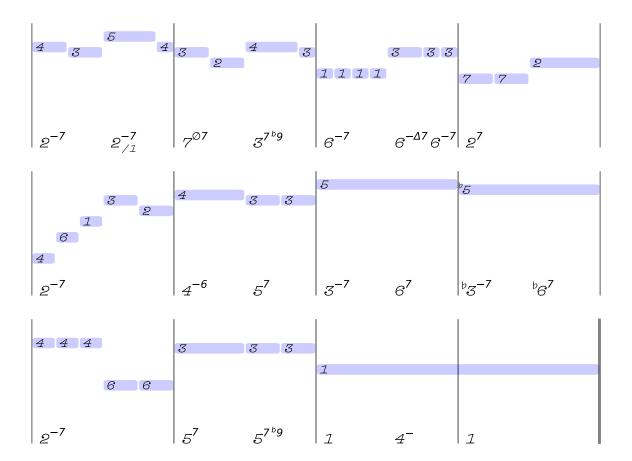
Drop Me Off in Harlem

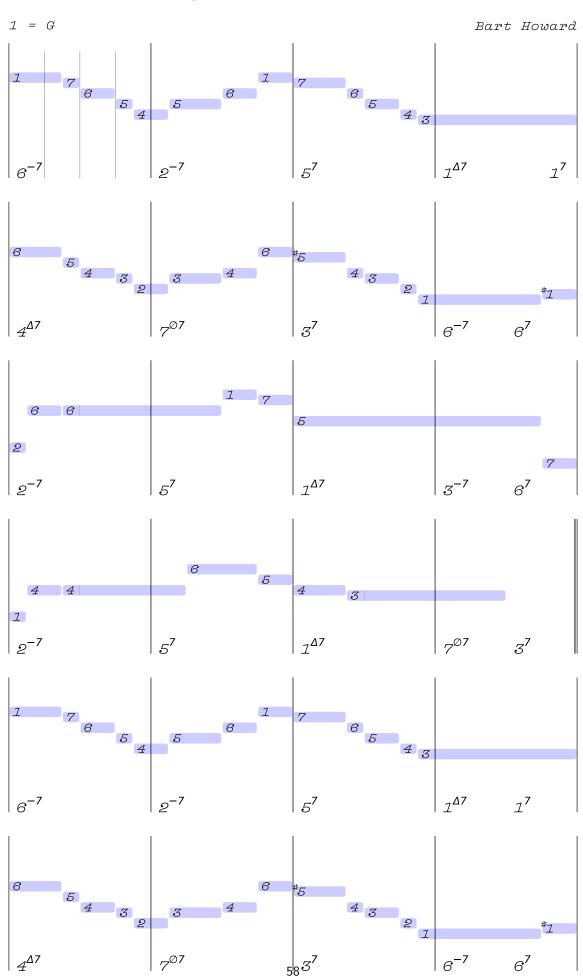


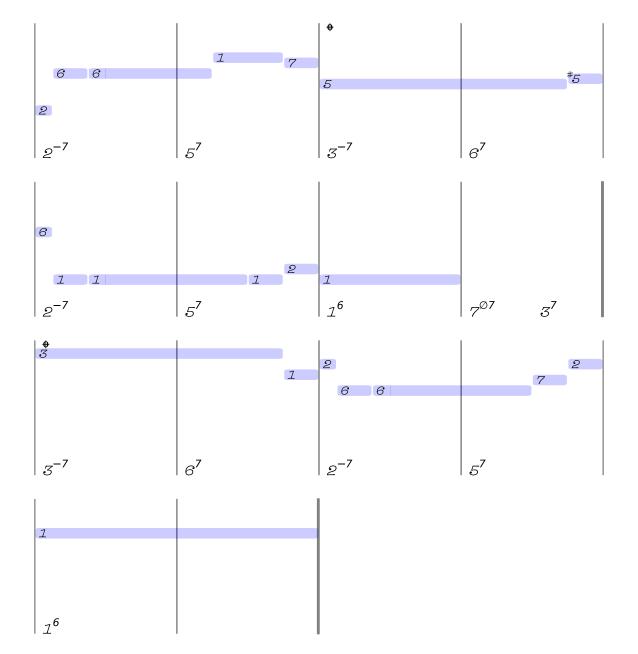


East Of The Sun

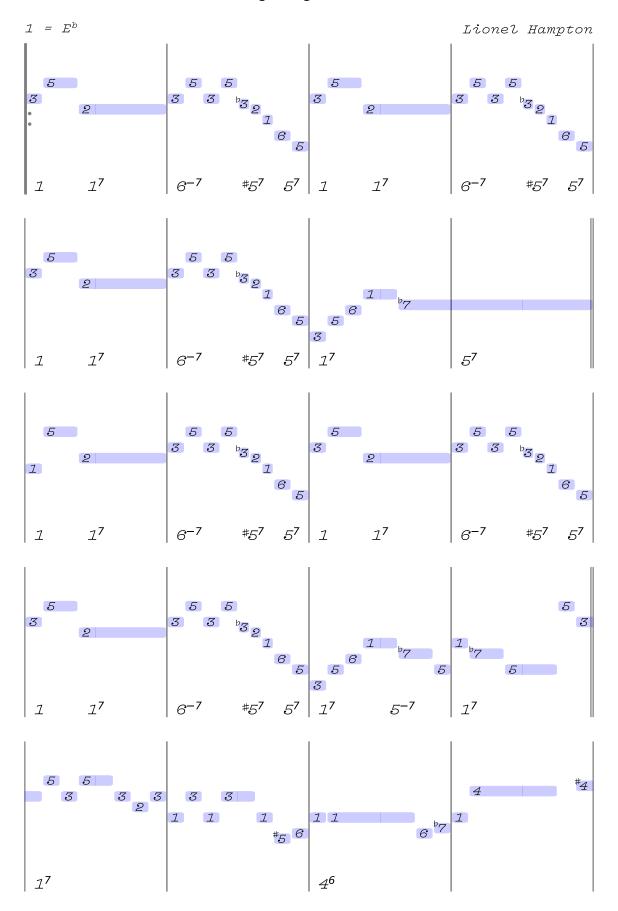


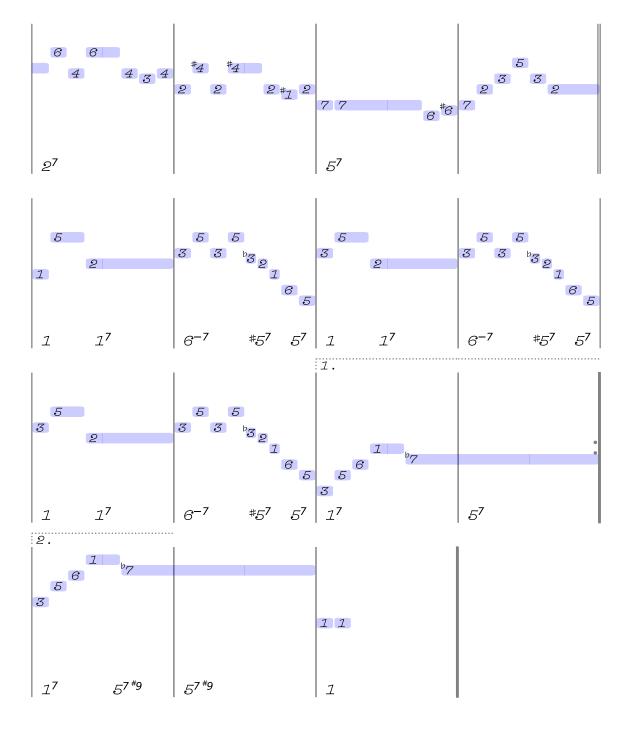




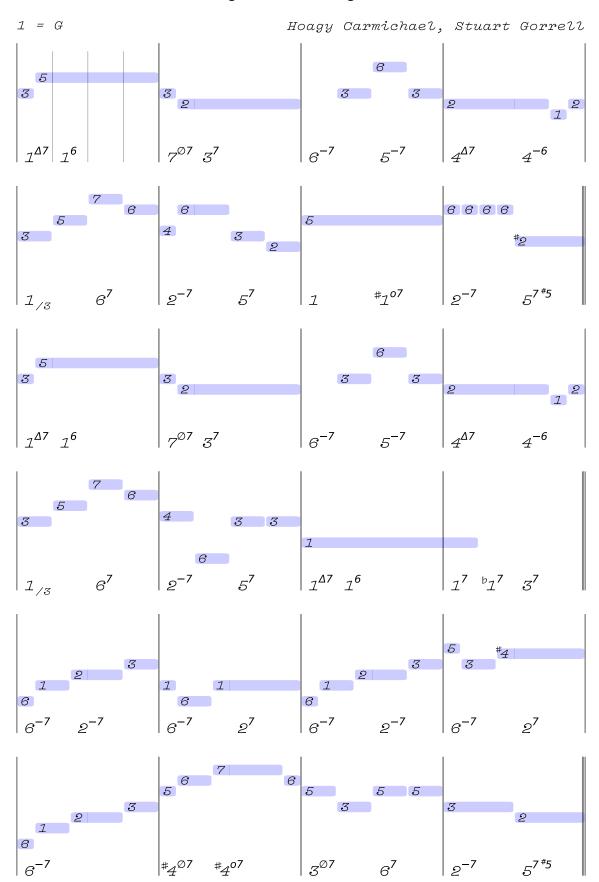


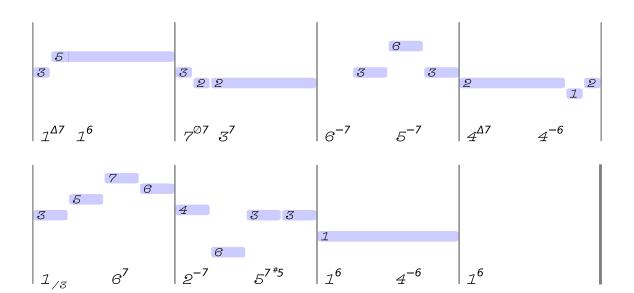
Flying Home



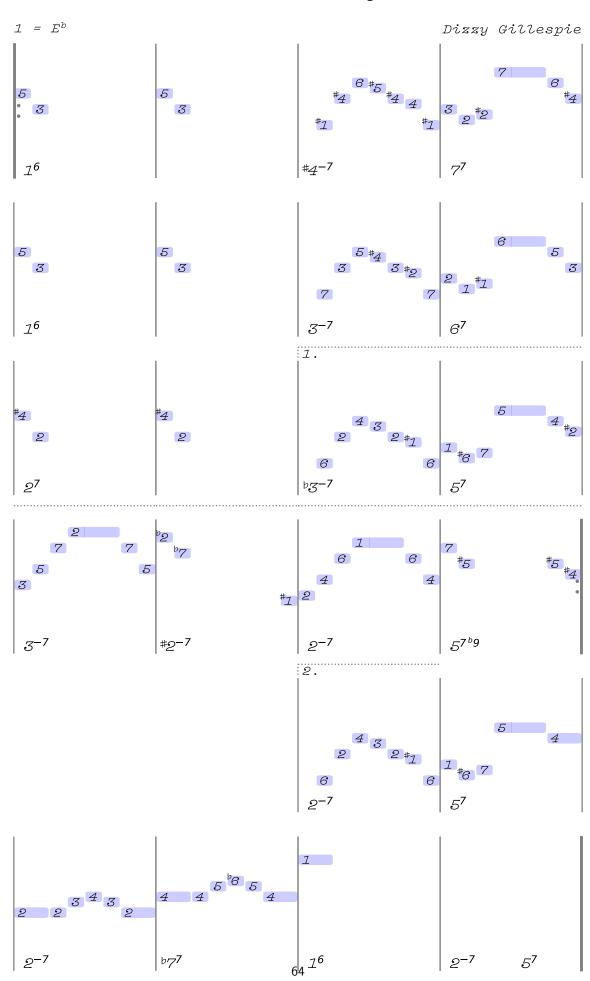


Georgia on my Mind

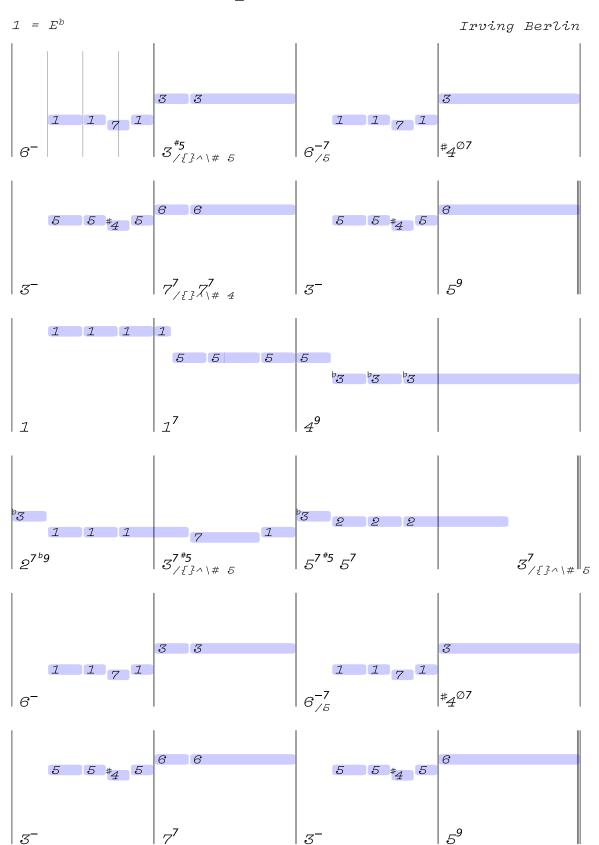


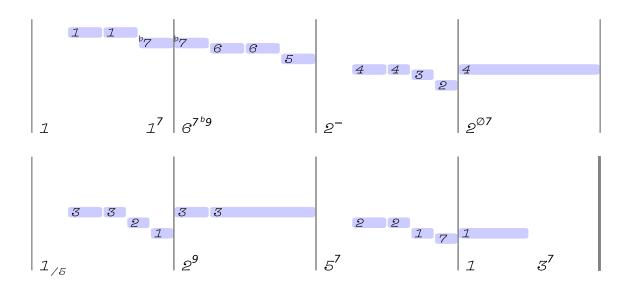


Groovin' High

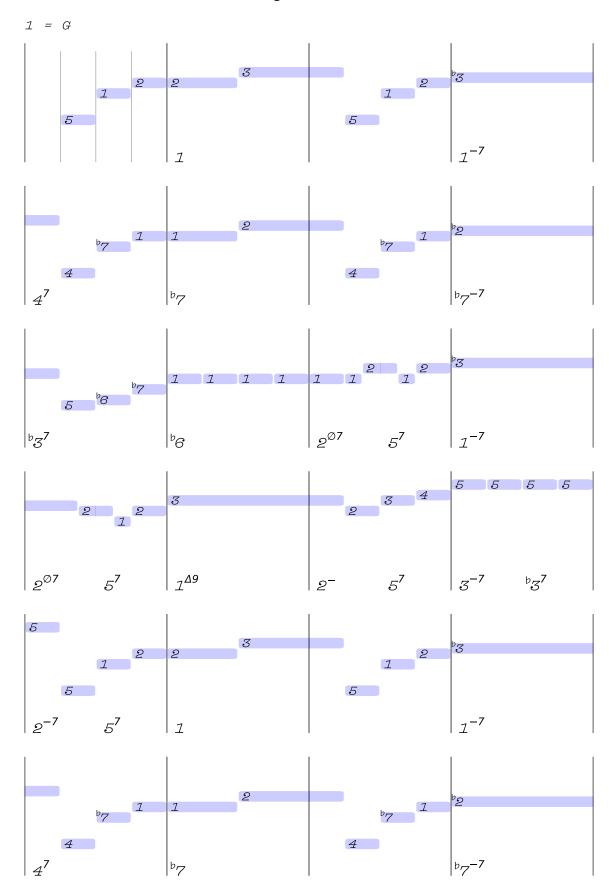


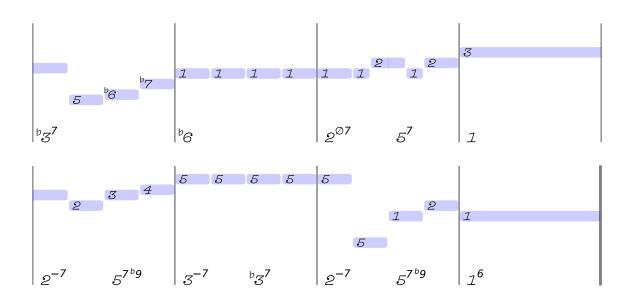
How Deep is the Ocean?



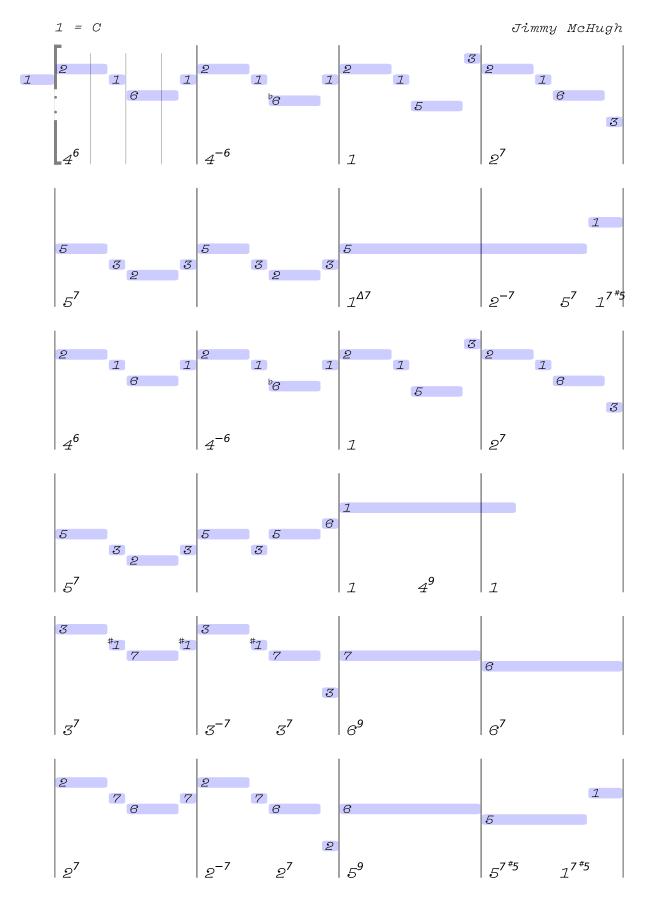


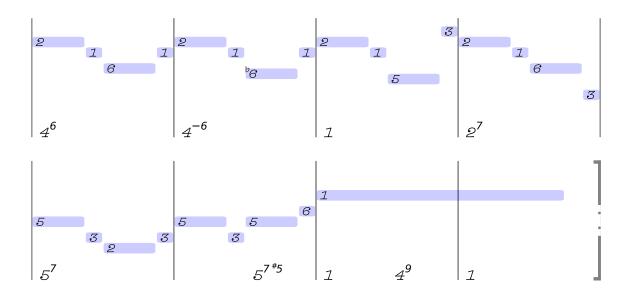
How High the Moon



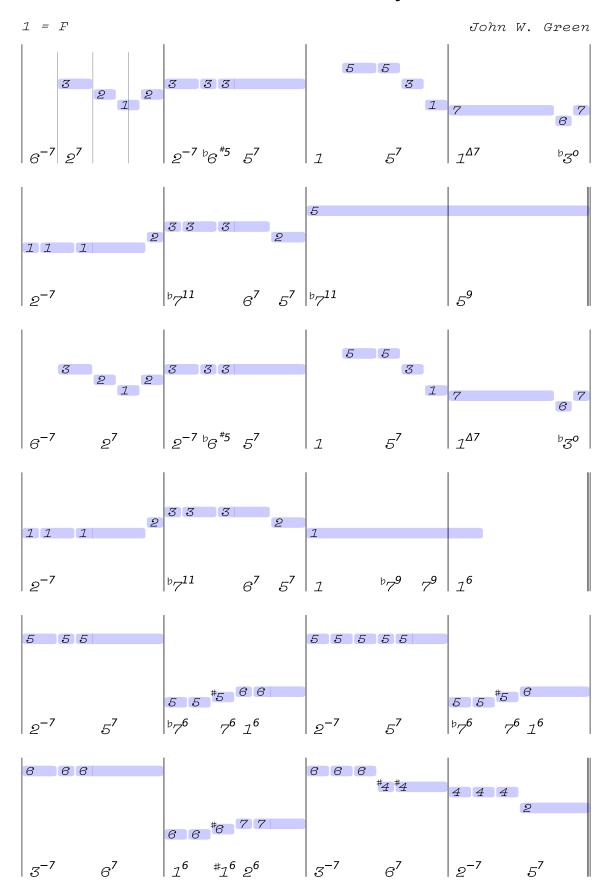


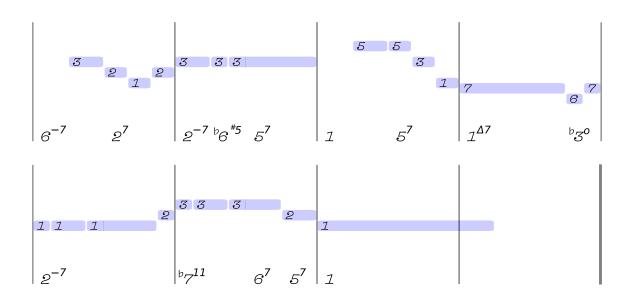
I Can't Believe That You're in Love with Me



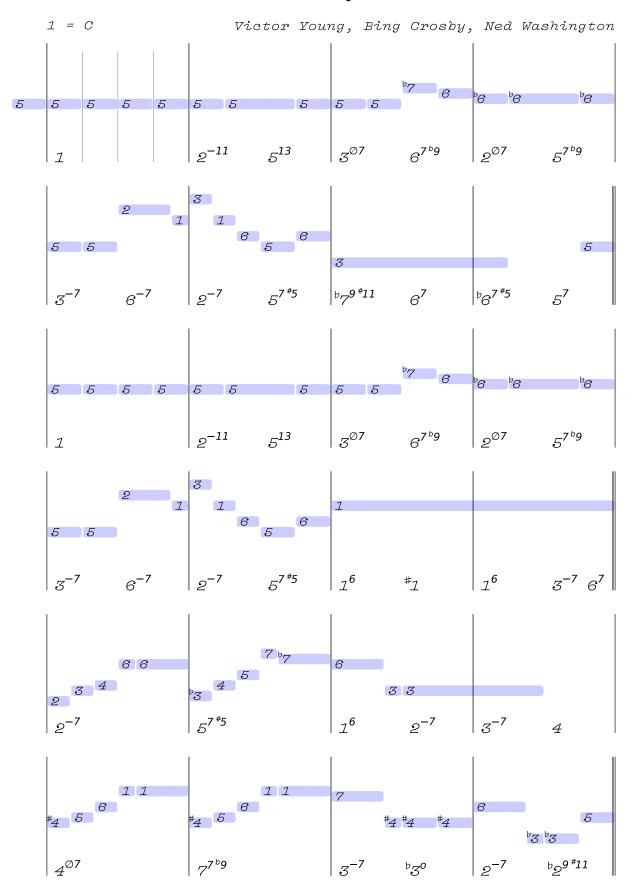


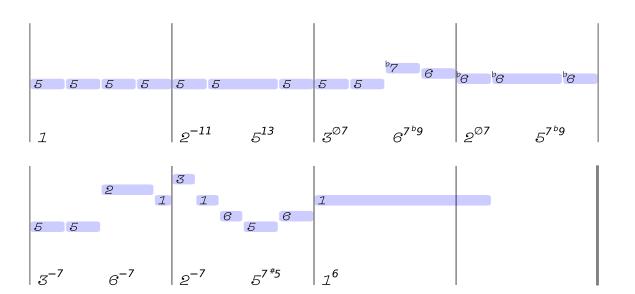
I Cover the Waterfront



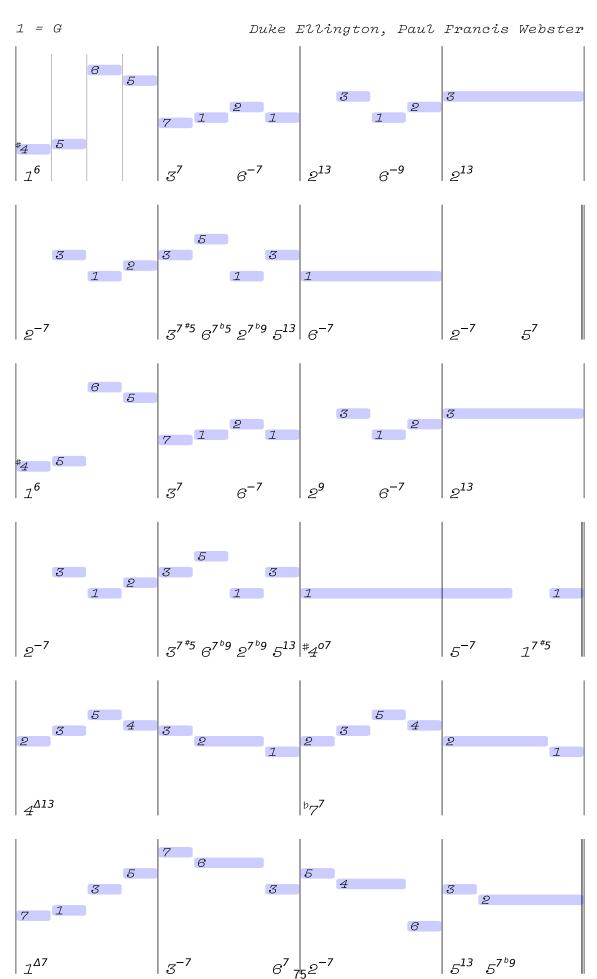


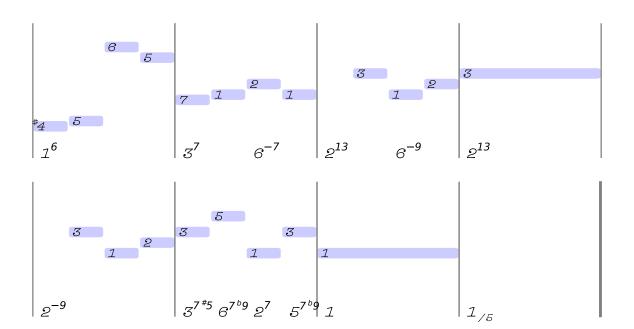
I Don't Stand a Ghost of a Chance (with You)



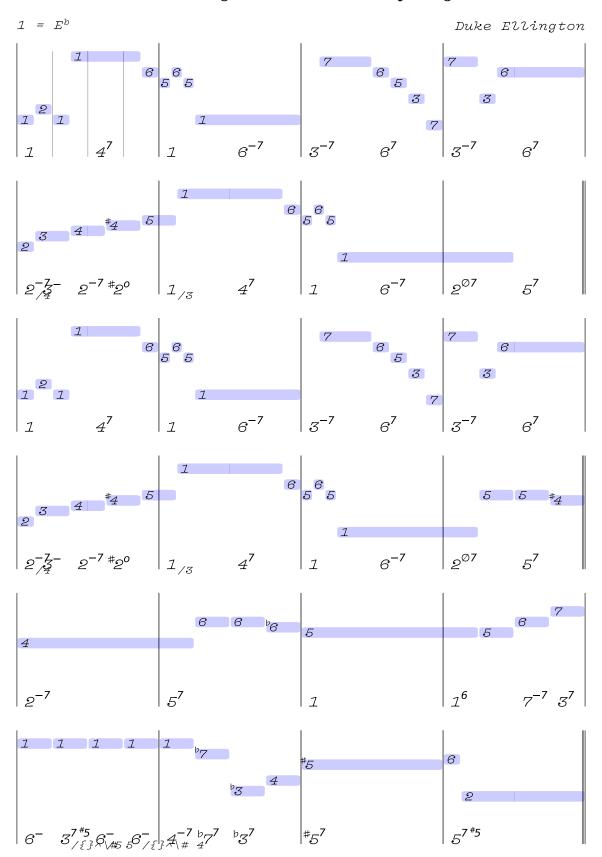


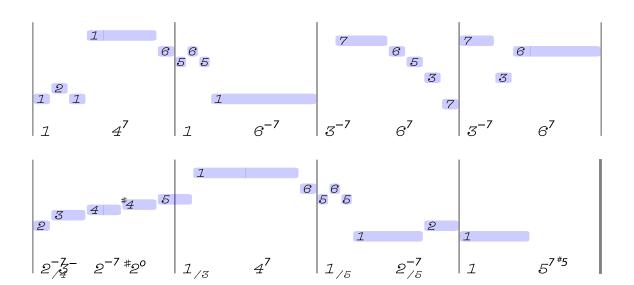
I Got it Bad and That Ain't Good



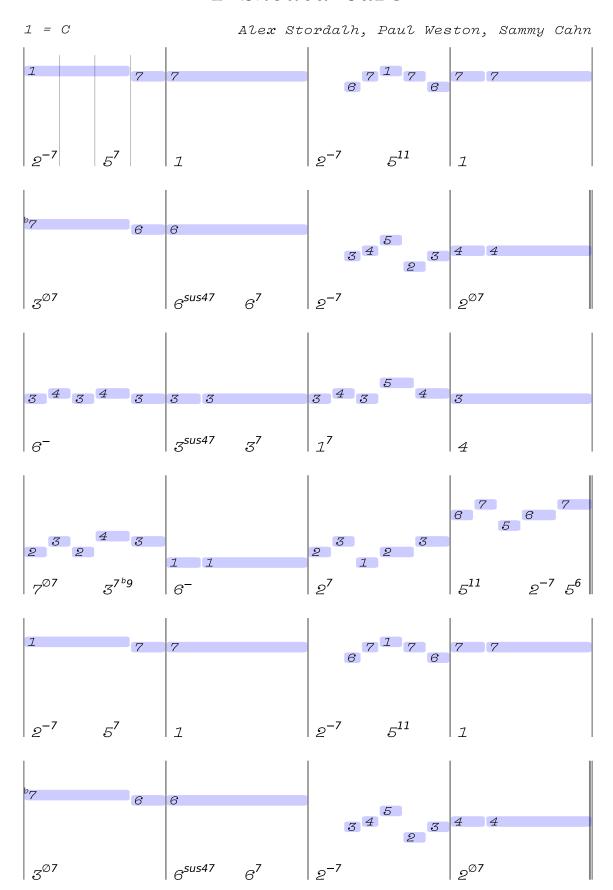


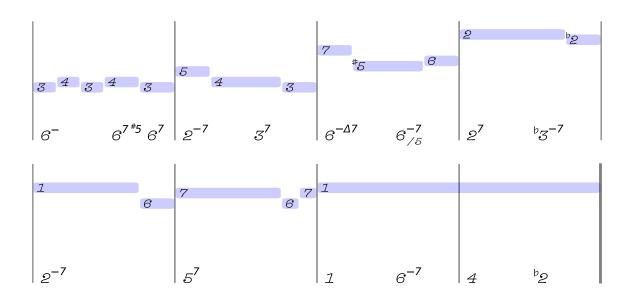
I Let a Song (Go) Out of my Heart



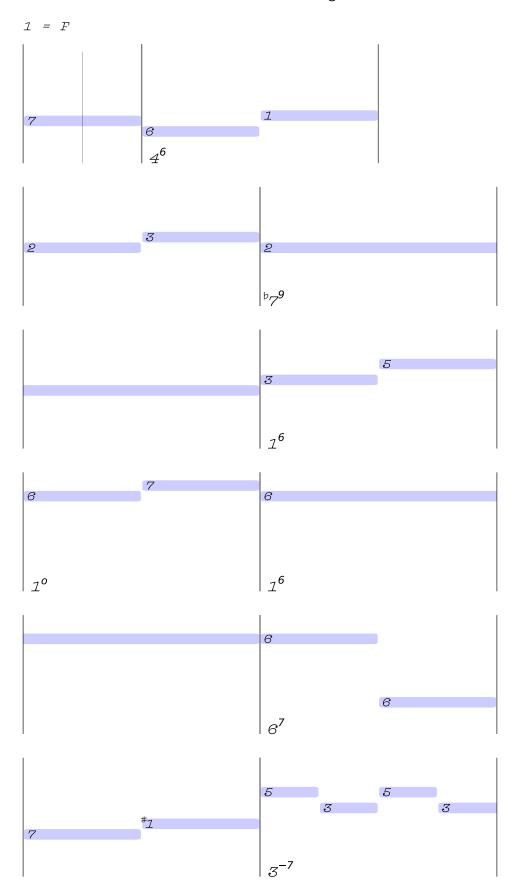


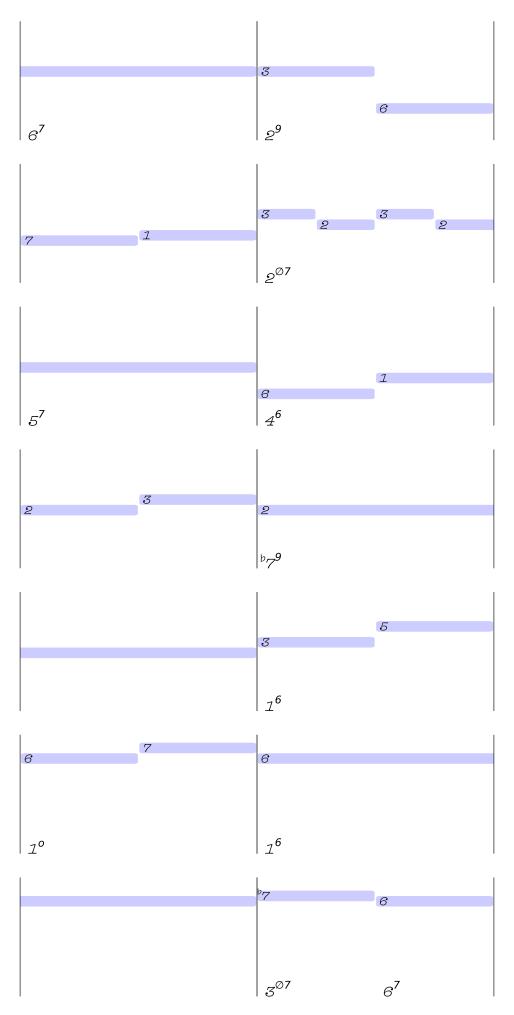
I Should Care

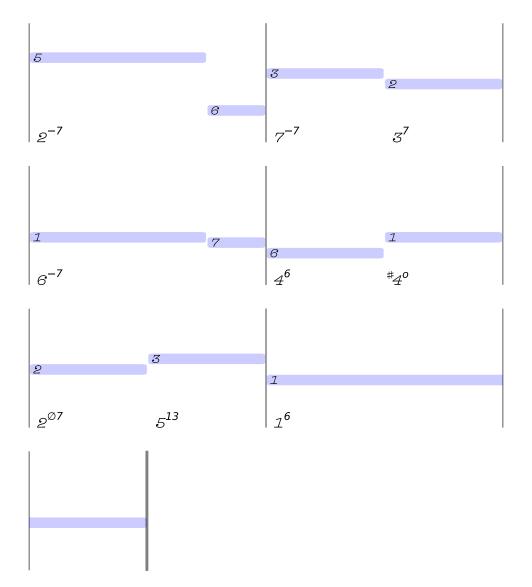




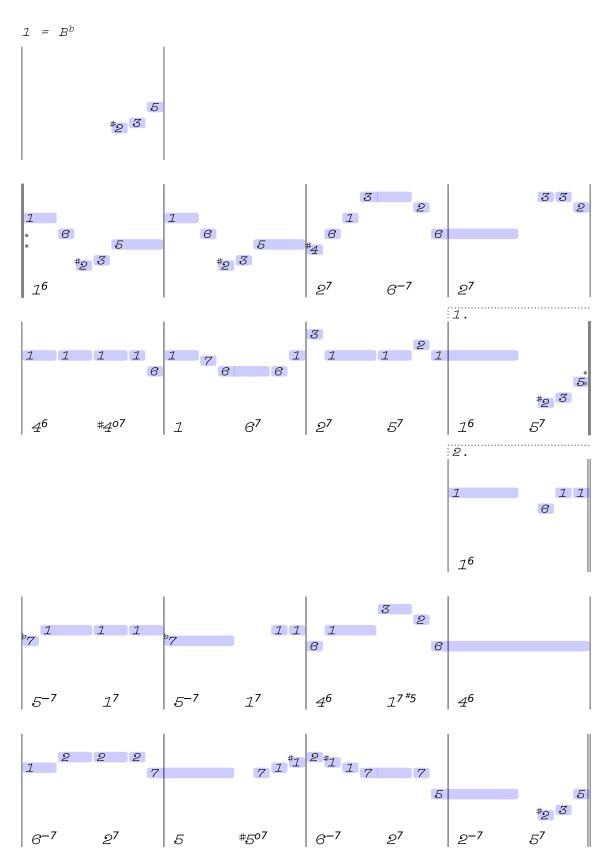
I'll See You In My Dreams

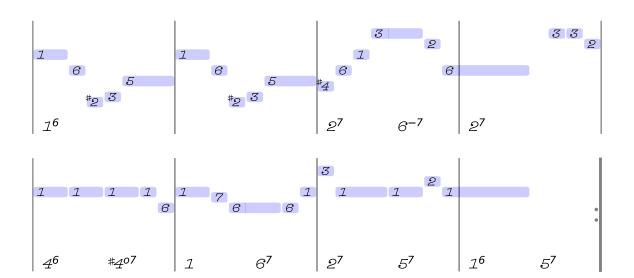






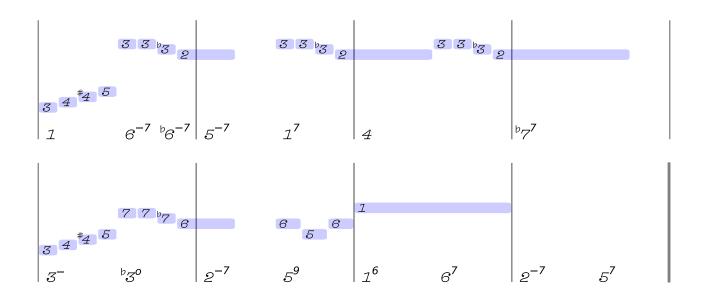
I'm Old Fashioned



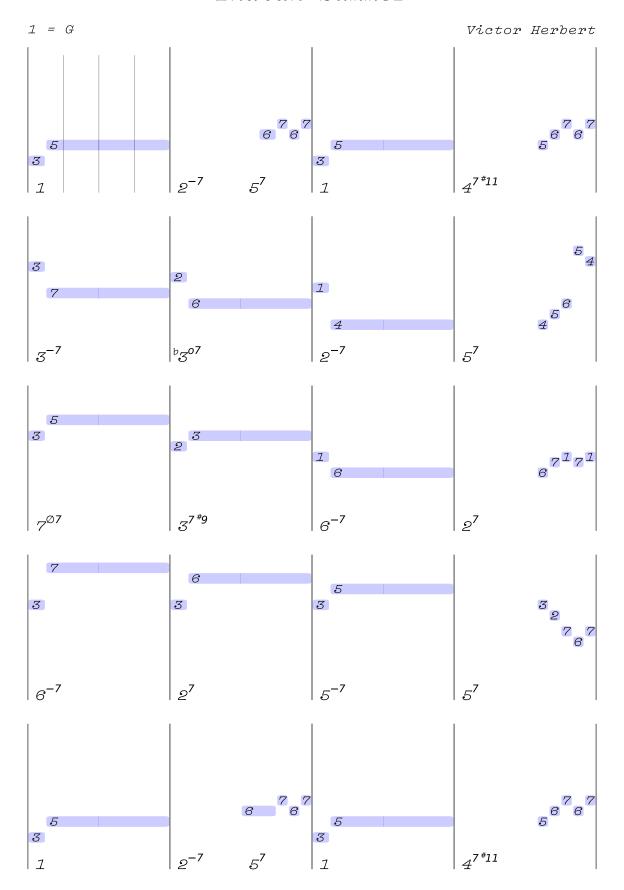


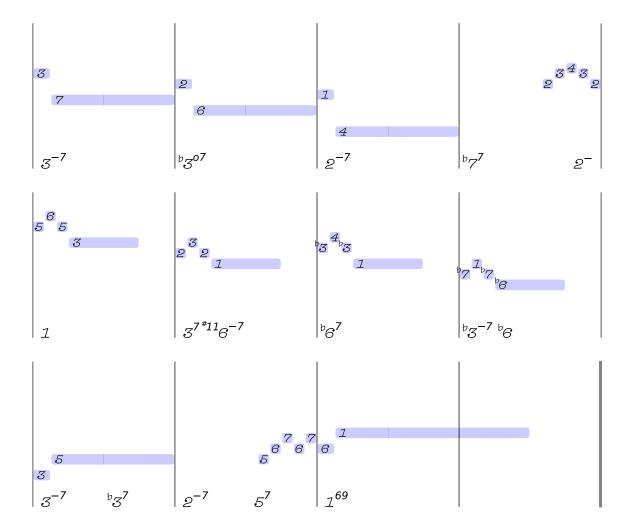
If I Had You

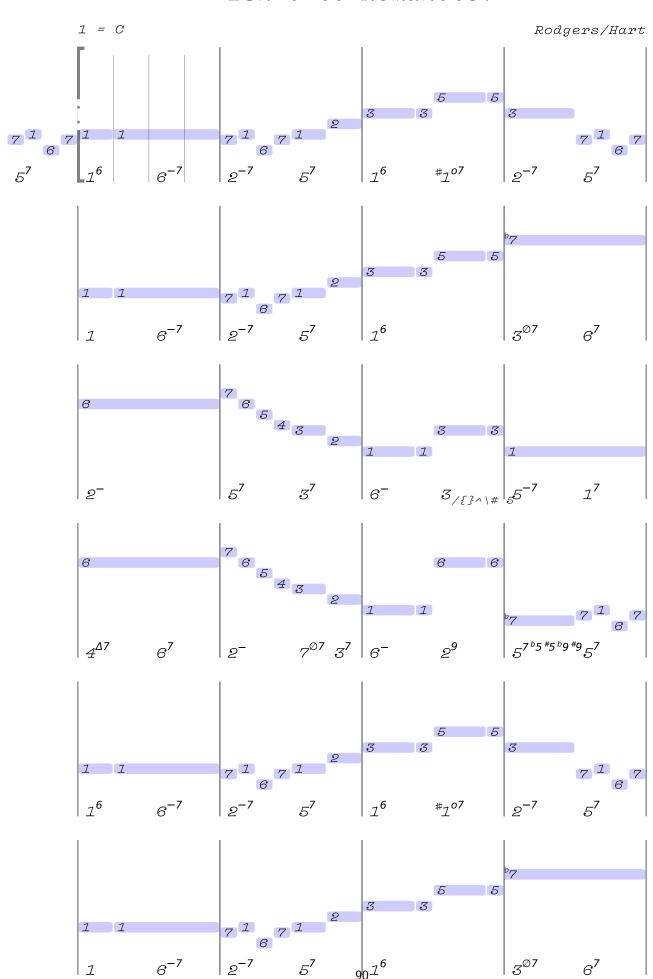
 $1 = B^b$ Jimmy Campbell, Reg Connelly, Ted Shapiro 3 3 b 3 2 3 3 5 2 $6^{-7} |_{b} 6^{-7} |_{5}^{-7}$ 17 b77 3 4 #4 5 67 3-7 16 5⁷ 5⁷ 3 3 3 2 3 3 5 2 3 3 5 2 3 4 #4 5 6^{-7} 6 6^{-7} 5^{-7} 17 1 3 4 #4 5 16 1⁶ 3^{-7} #₄ #₄ 3 7 1 1 7 1 7 1 7 $7^{7^{b9}}$ 3^{-6} #₄Ø7 #₄Ø7 #4 3 7111 7 1 7 1 7 7^{7 b}9 6⁹ #₄Ø7 3 3-

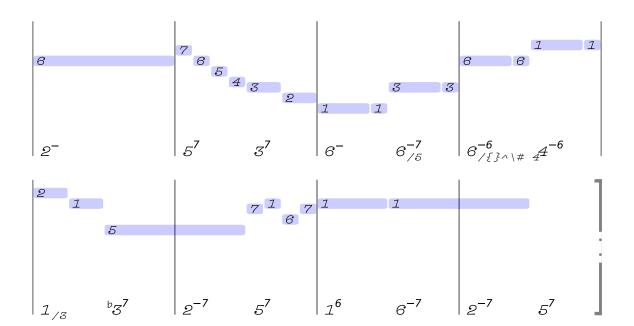


Indian Summer

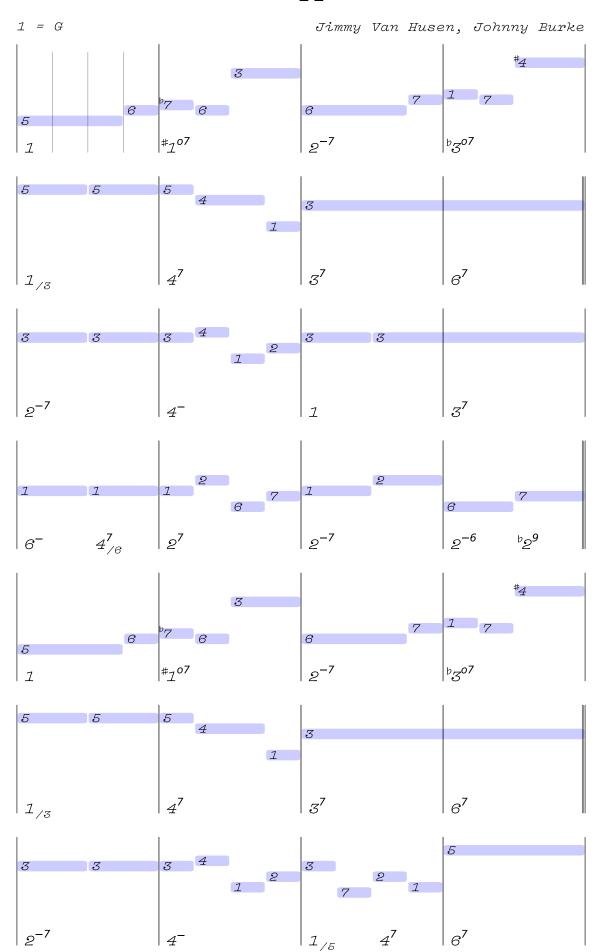


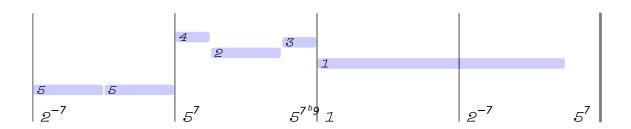




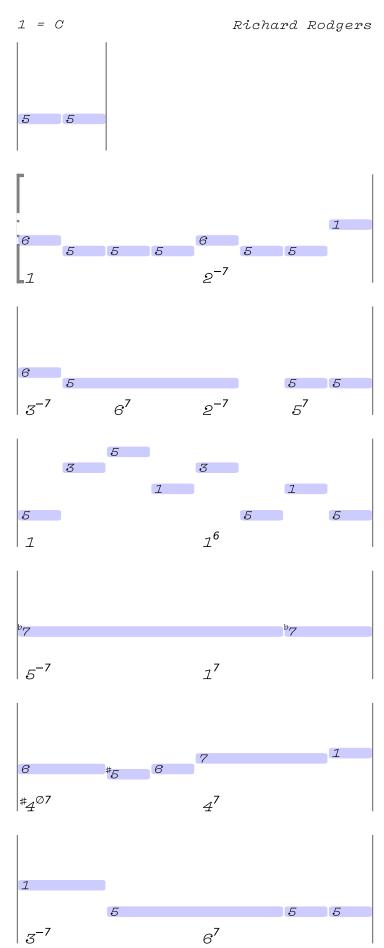


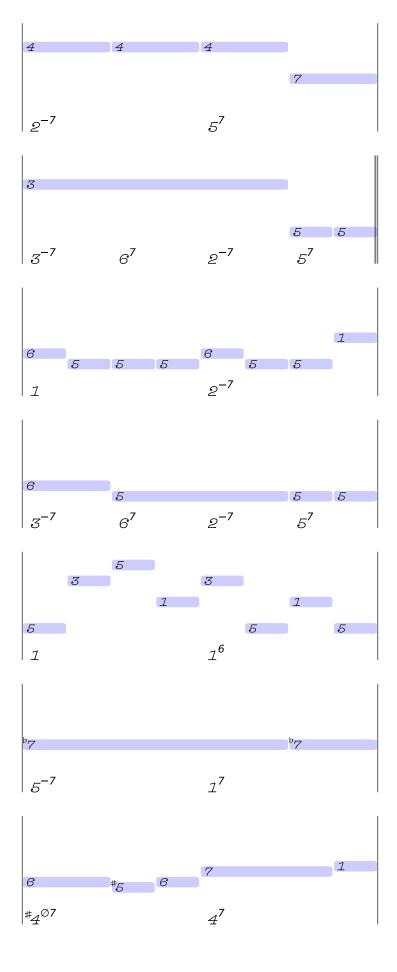
It Could Happen to You

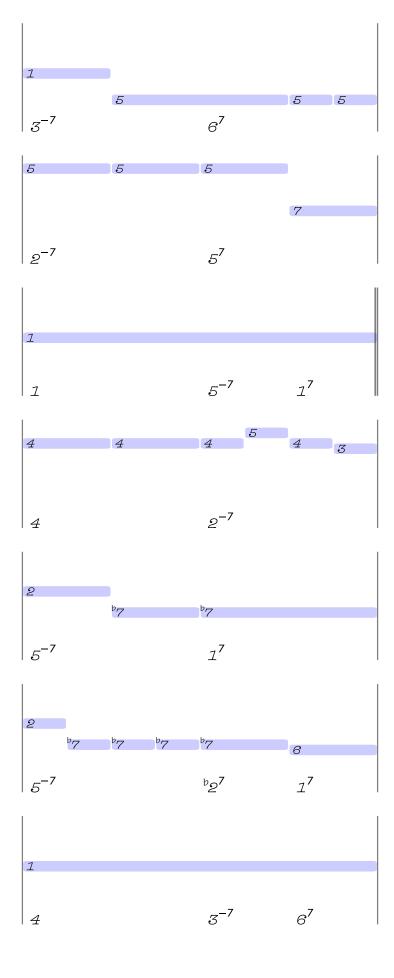


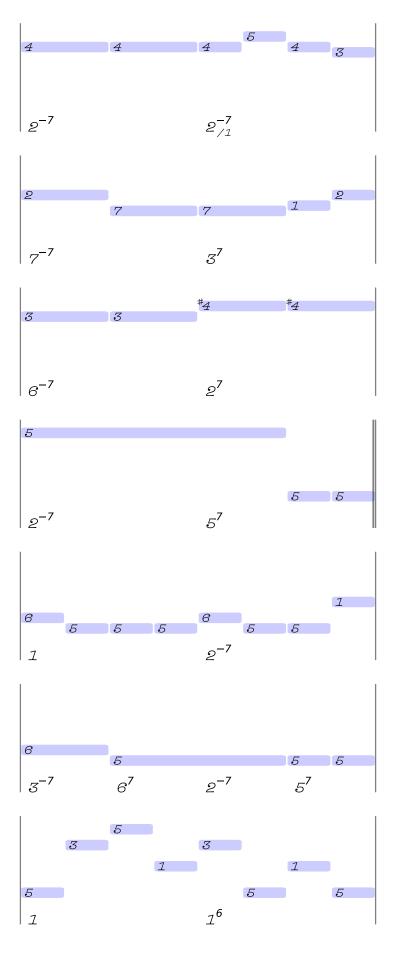


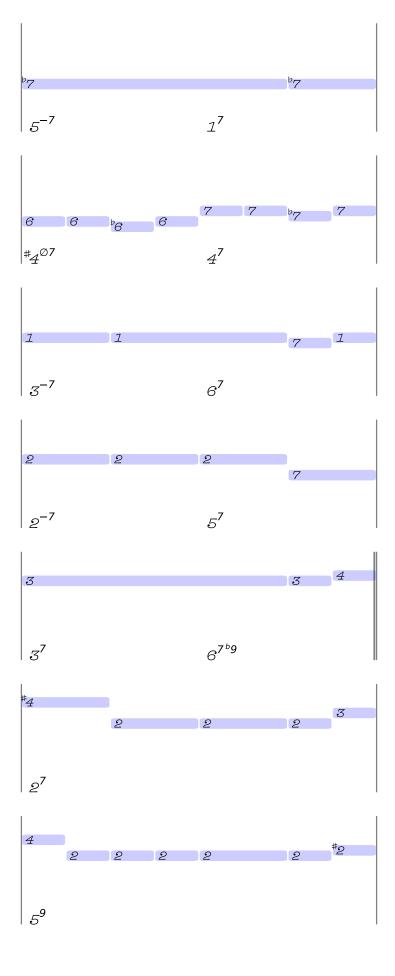
It Might As Well Be Spring

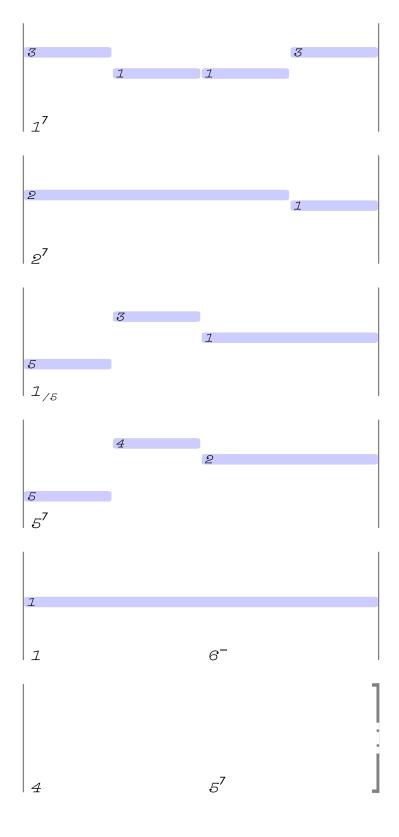


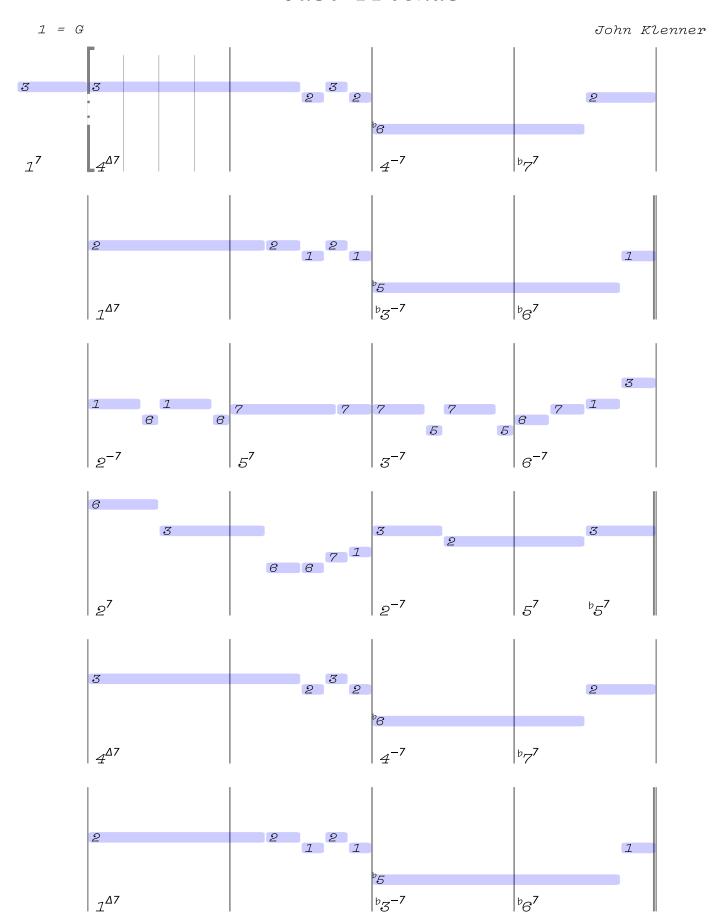


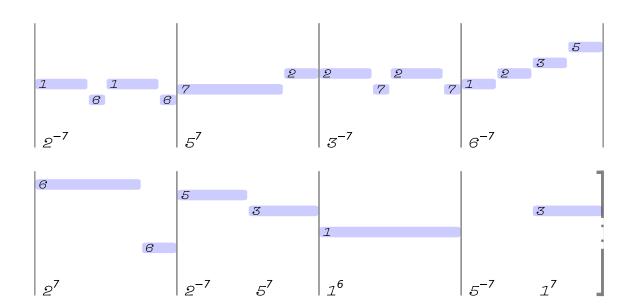




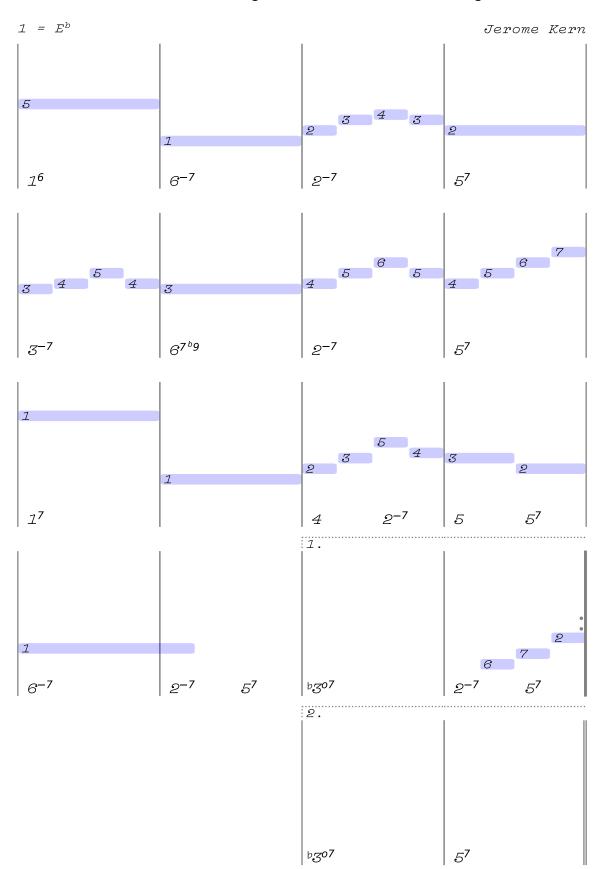


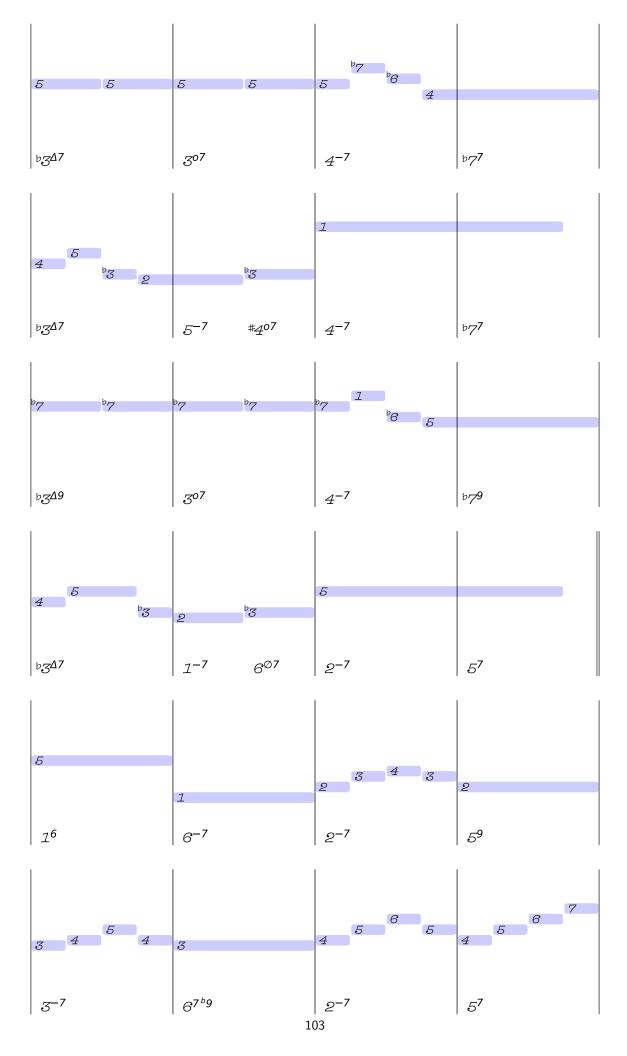


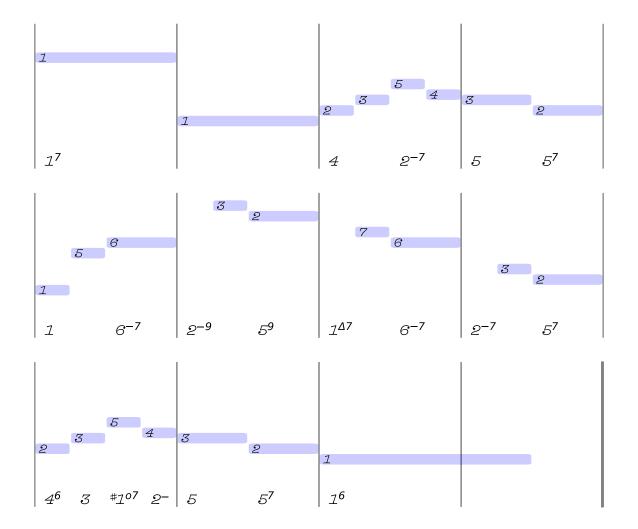


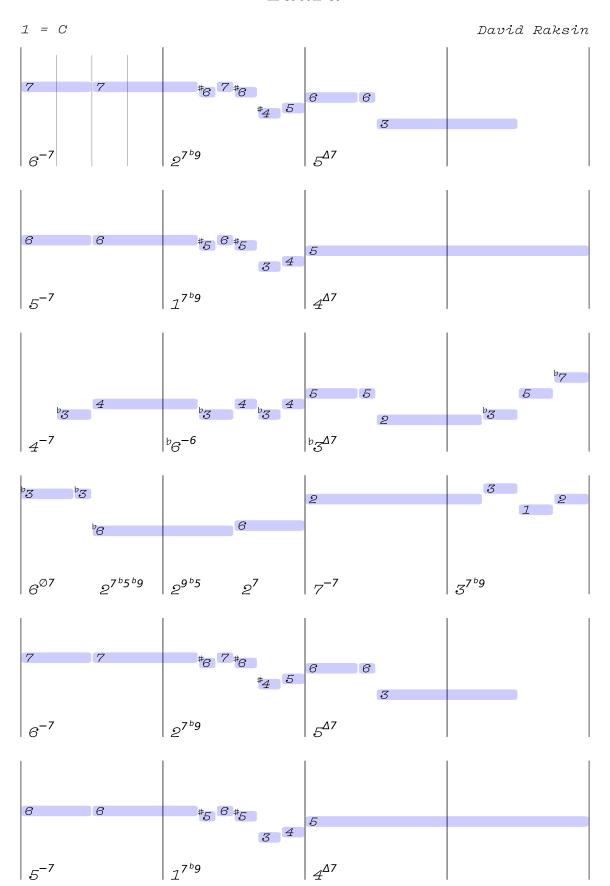


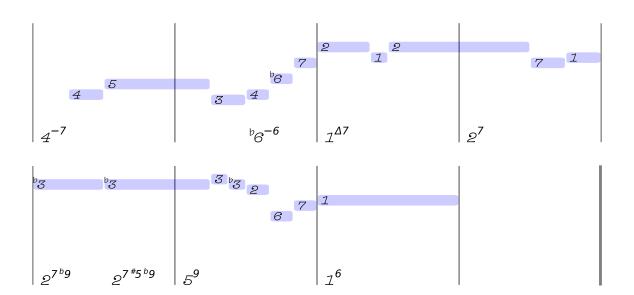
Just the Way You Look Tonight



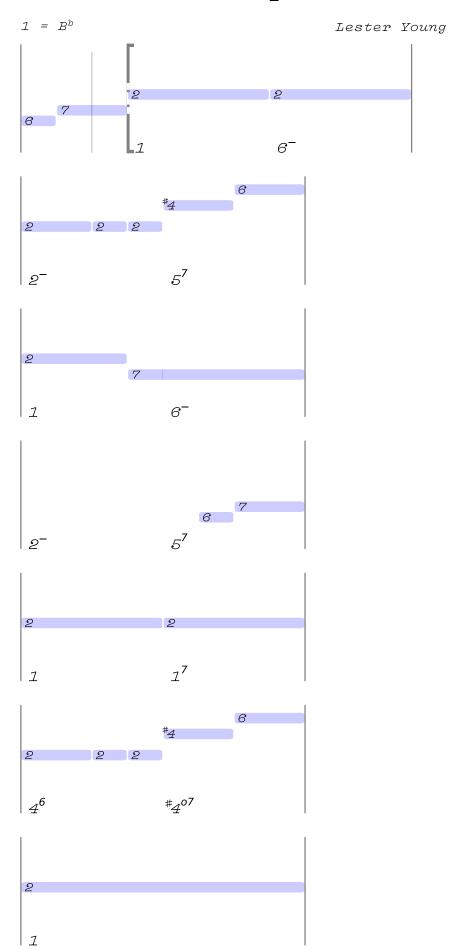


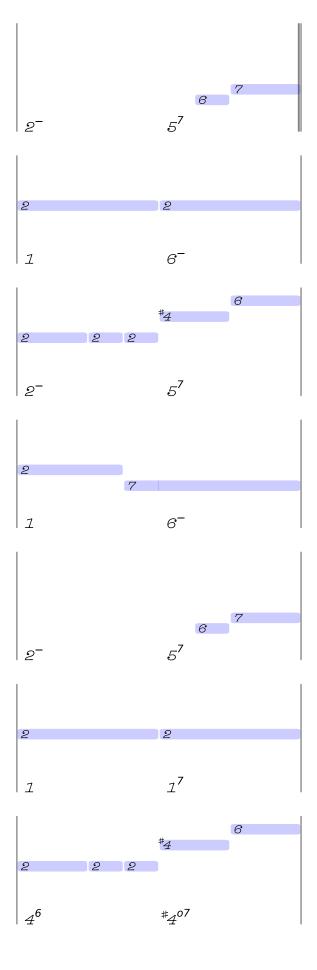


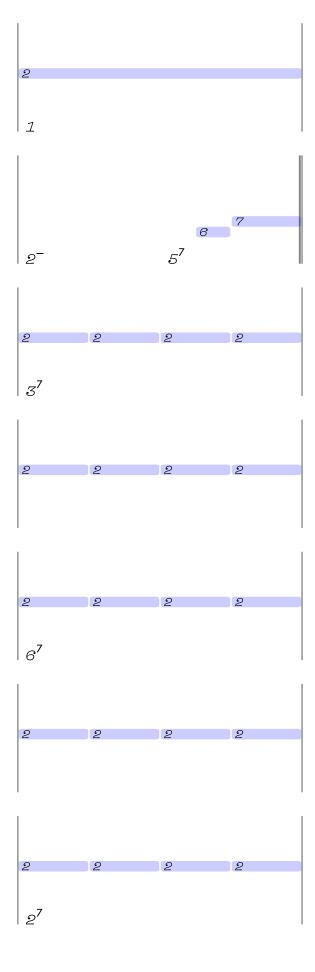


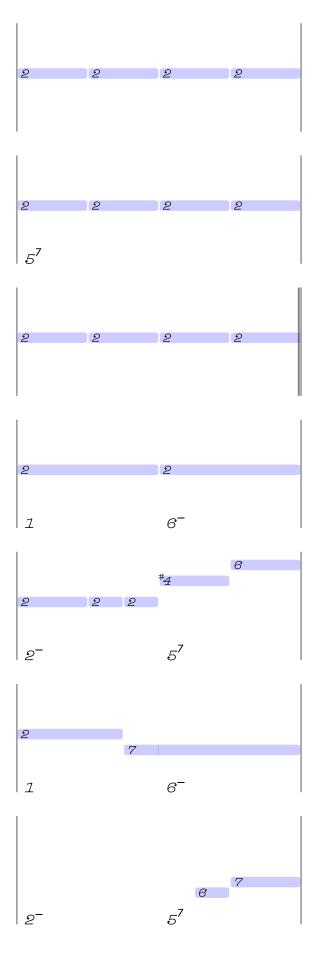


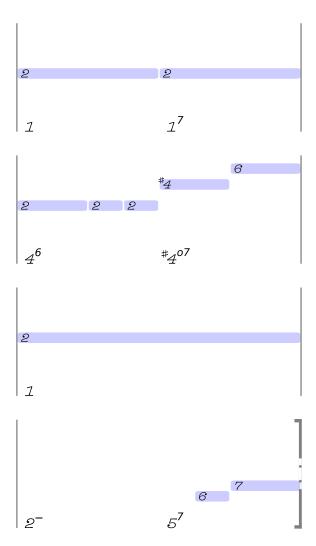
Lester Leaps In





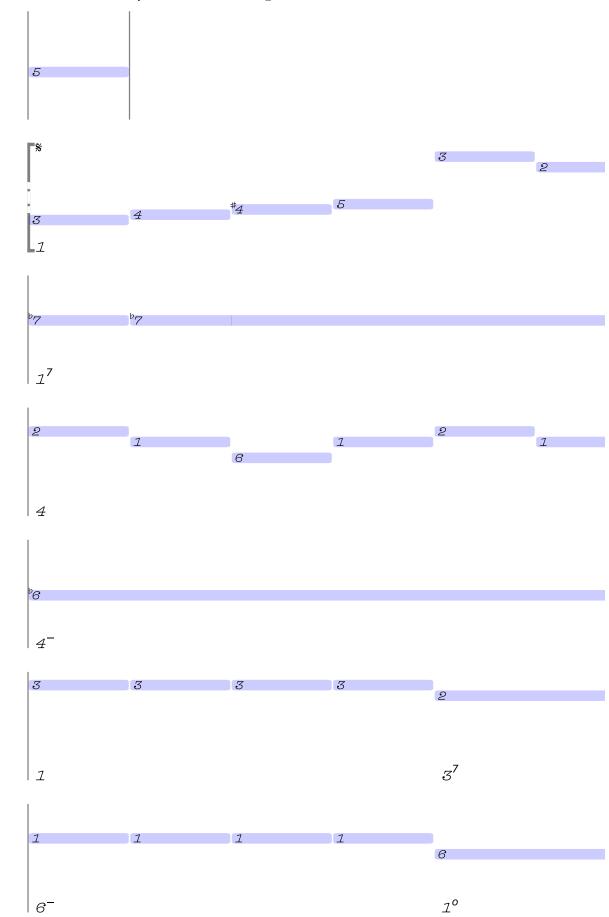




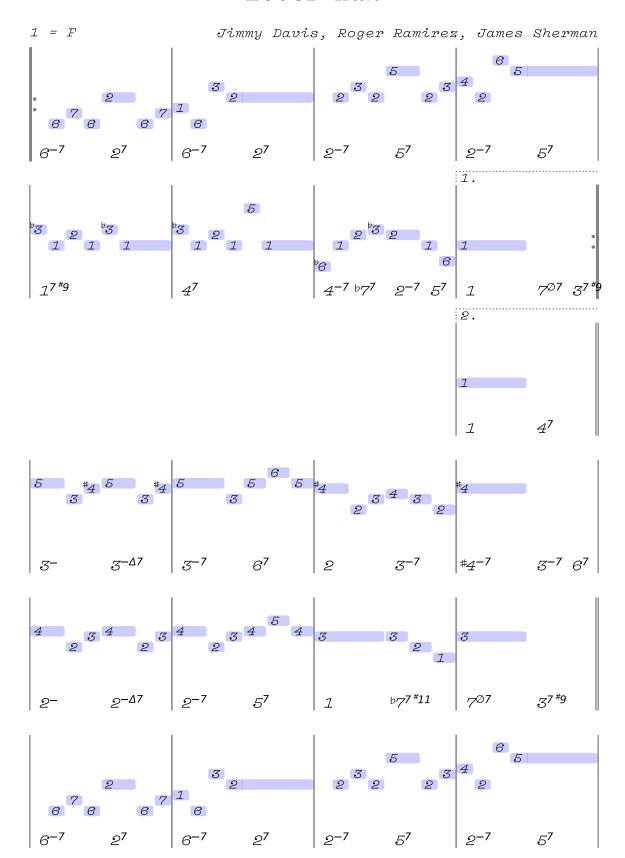


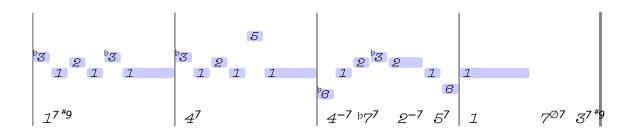
Louisiana Fairytale

Mitchell Parish, Haven Gillespie and Fred Coots



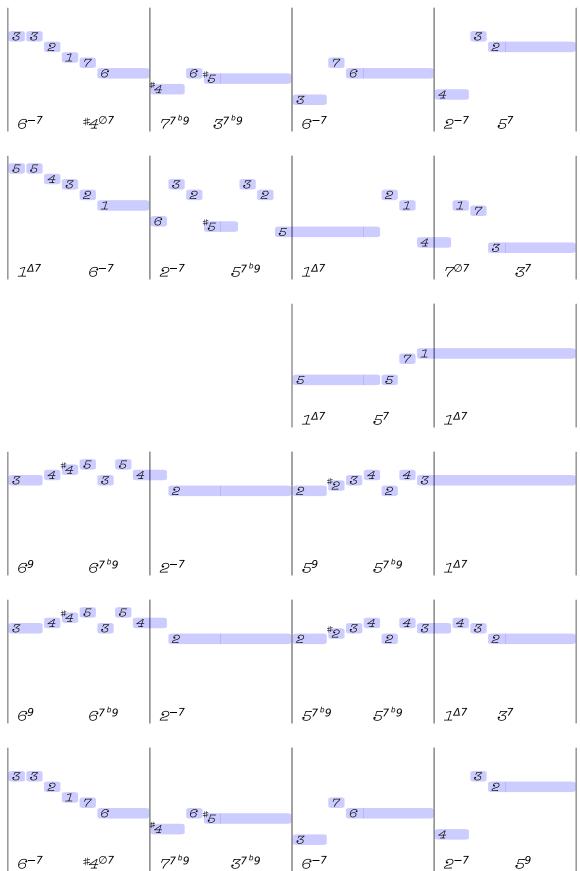
Lover Man

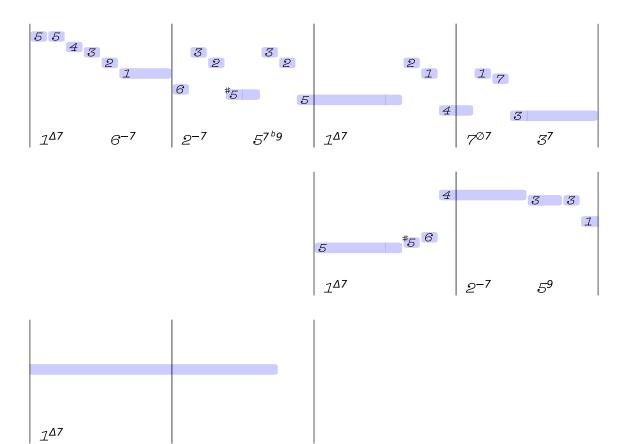


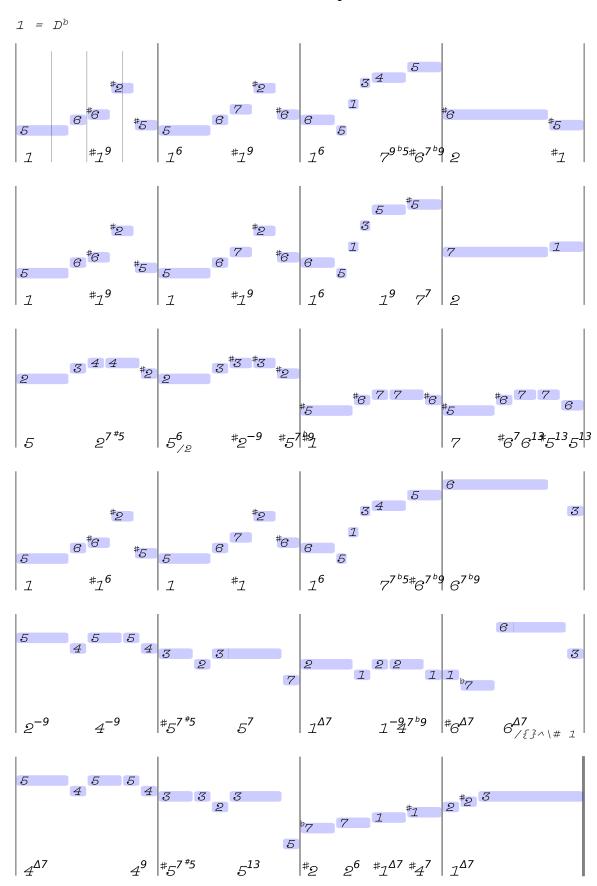


Lullaby of Birdland

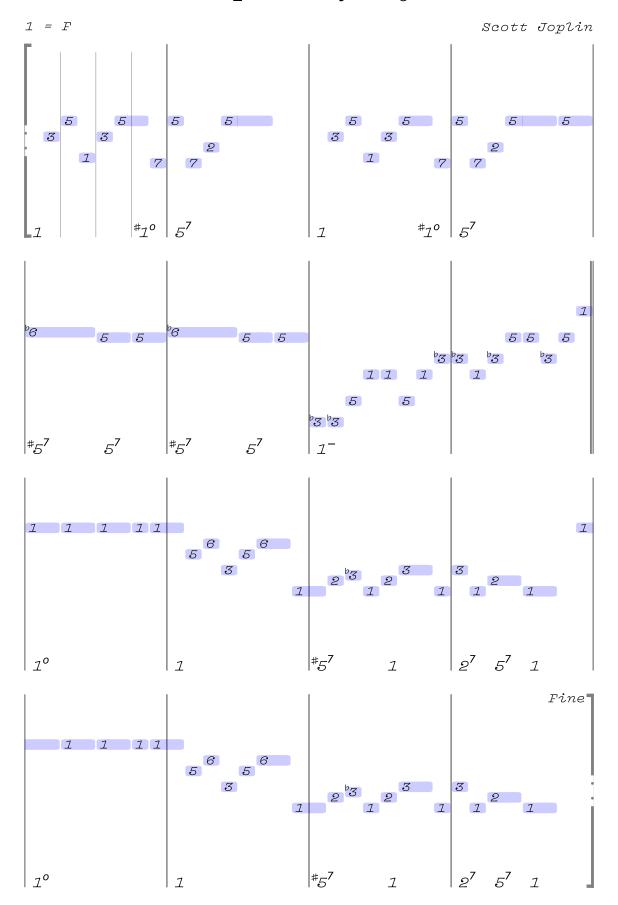
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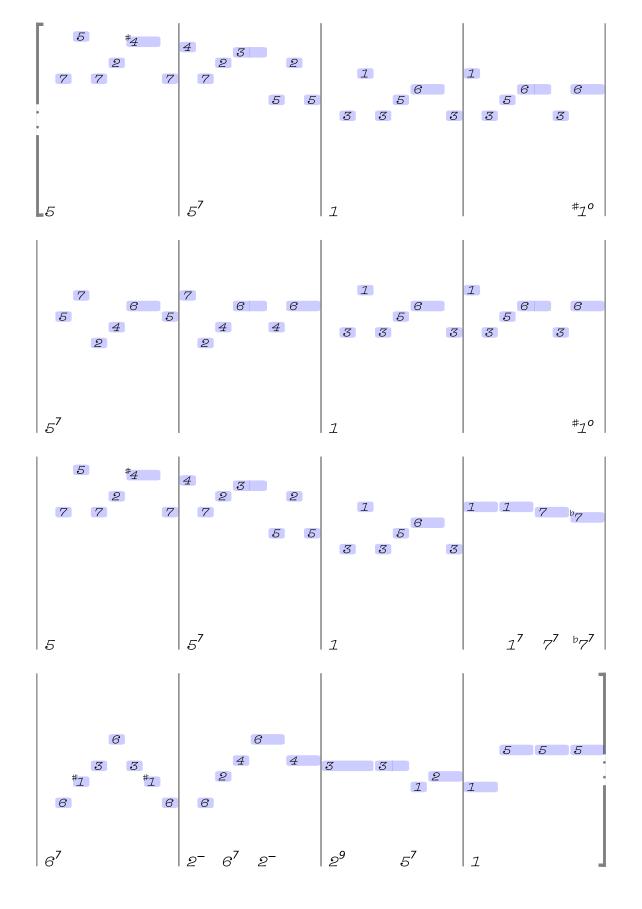


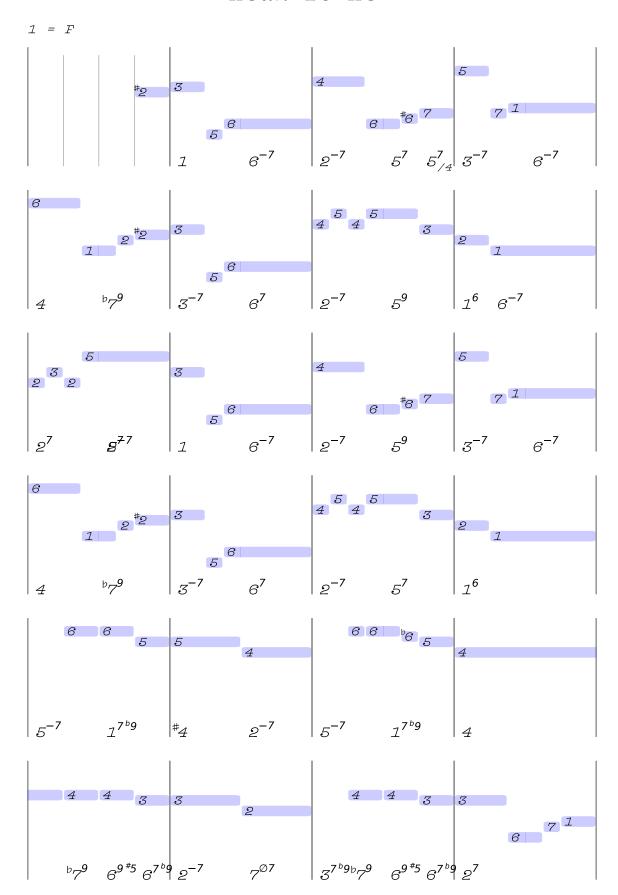


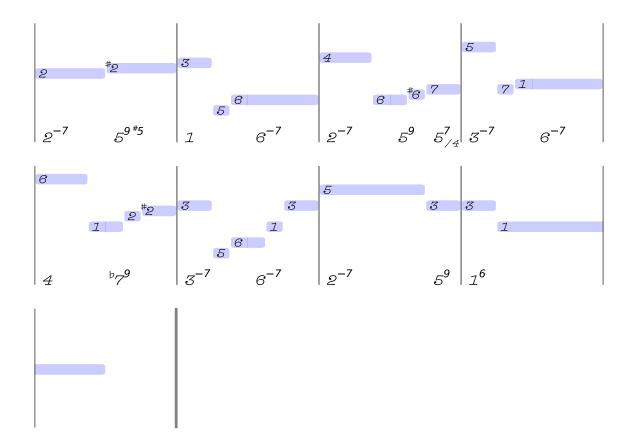


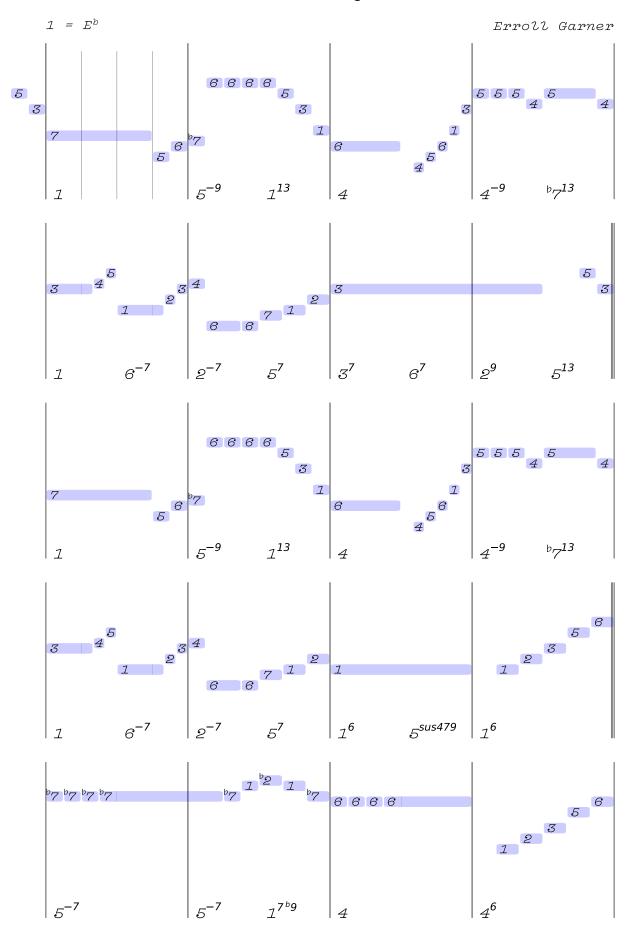
Maple Leaf Rag

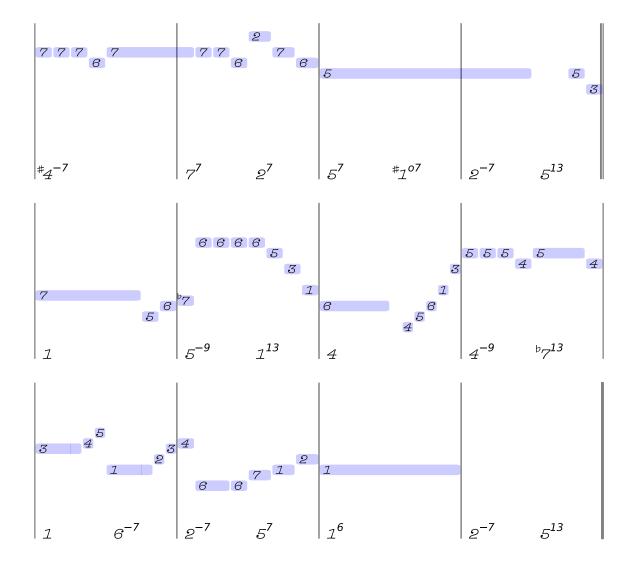




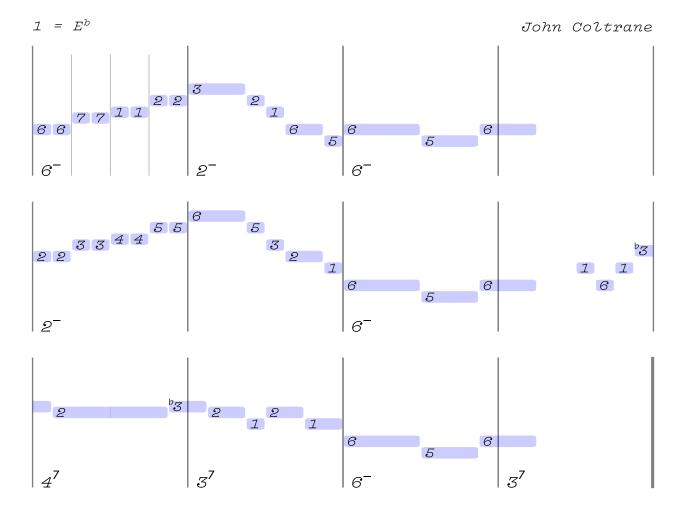




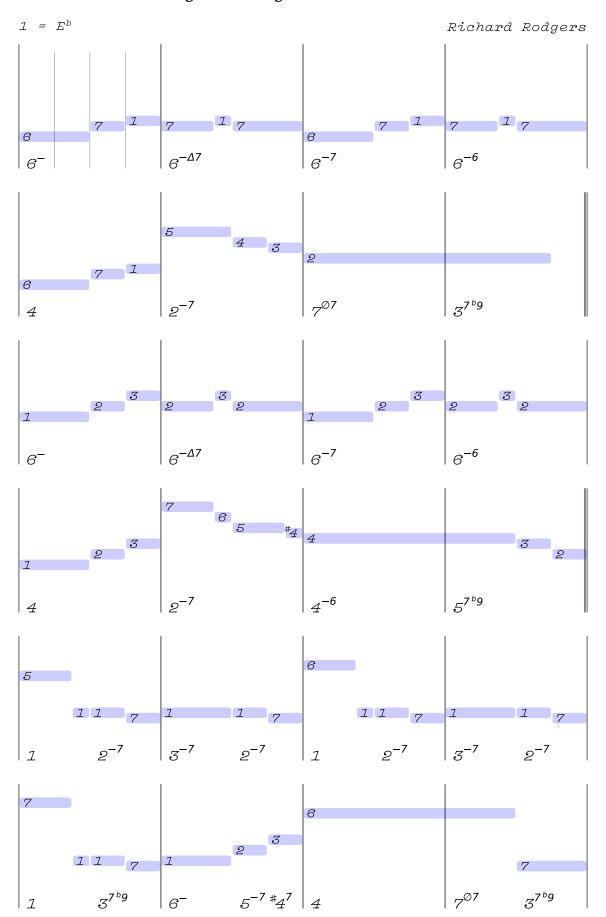


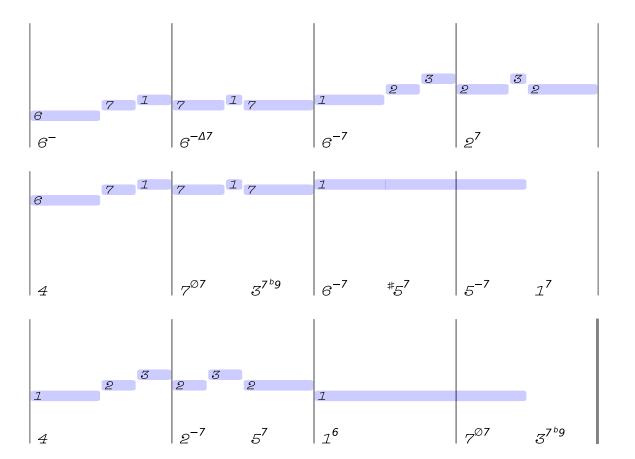


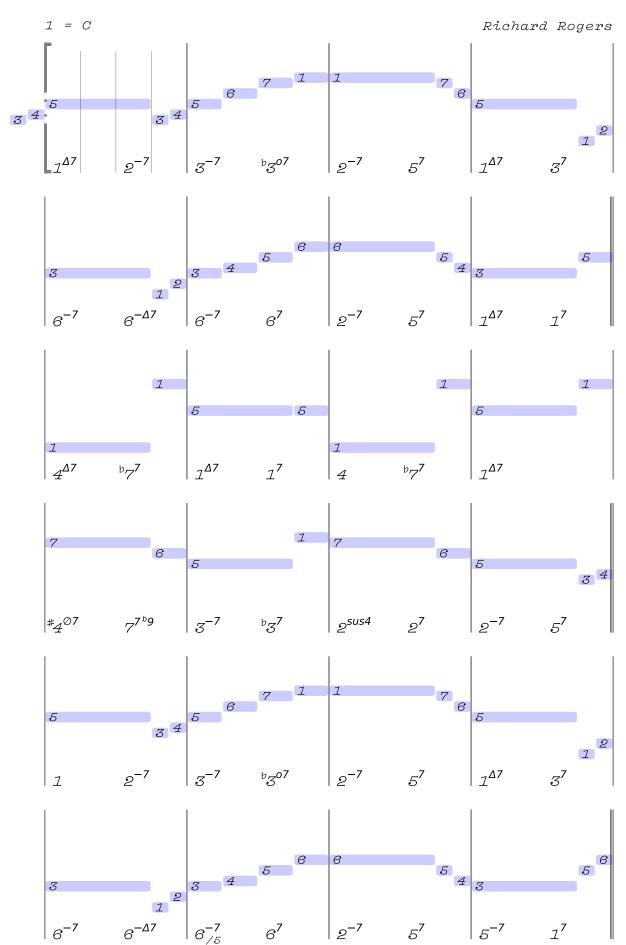
Mr PC

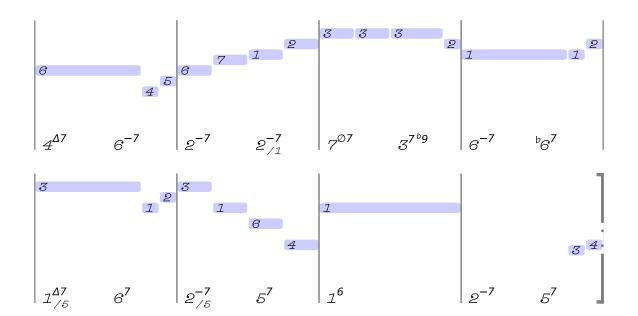


My Funny Valentine

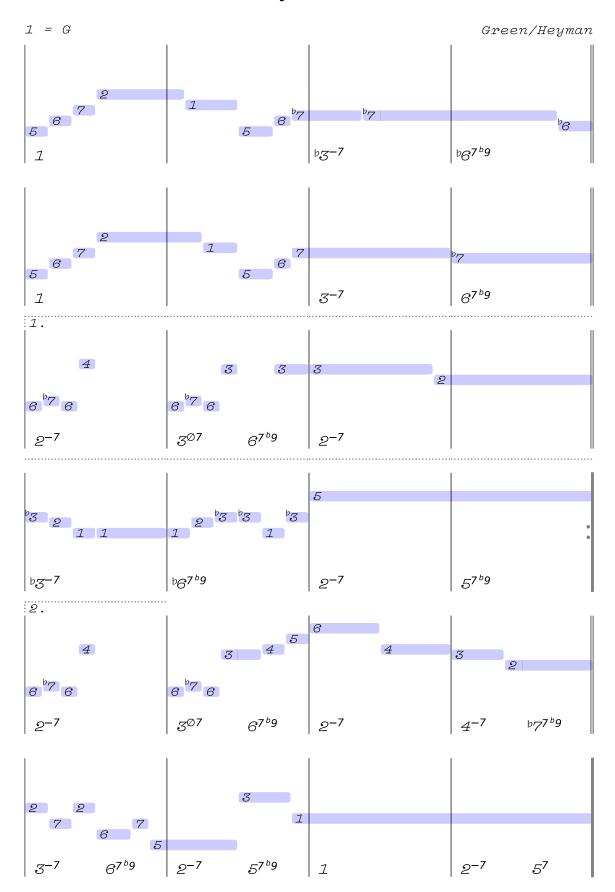


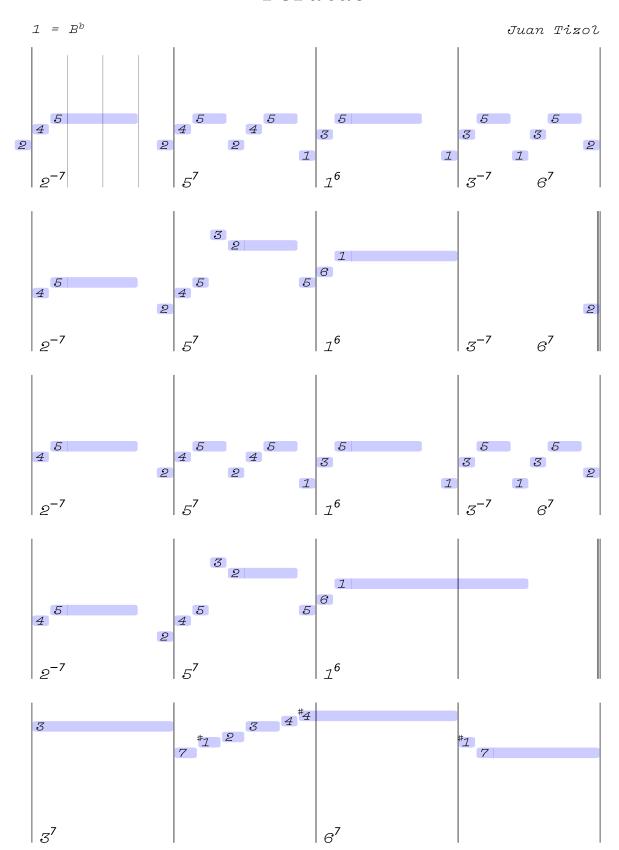


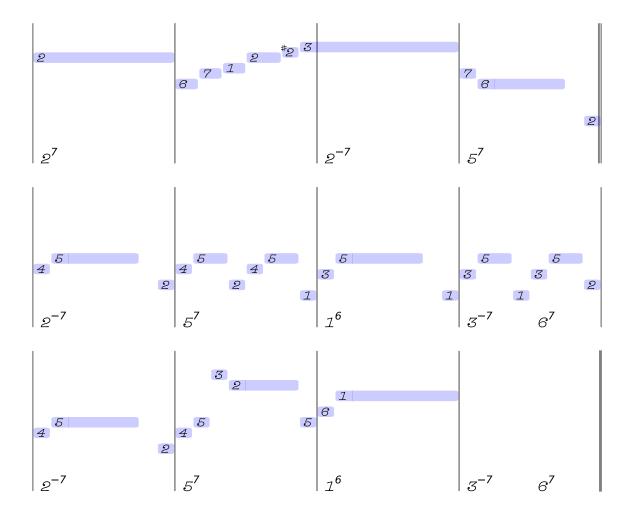




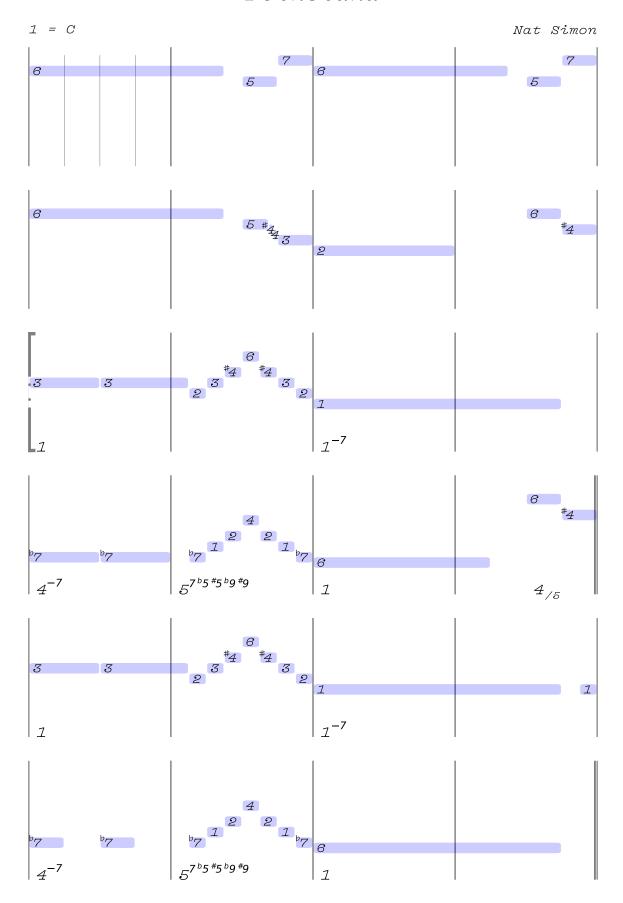
Out of Nowhere

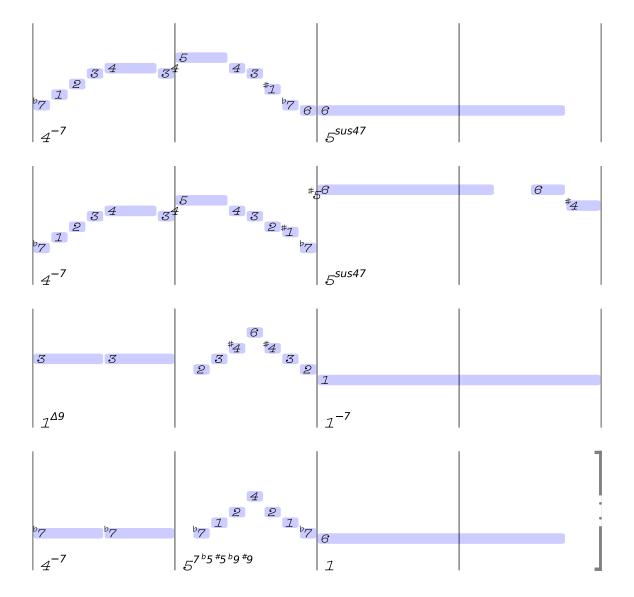




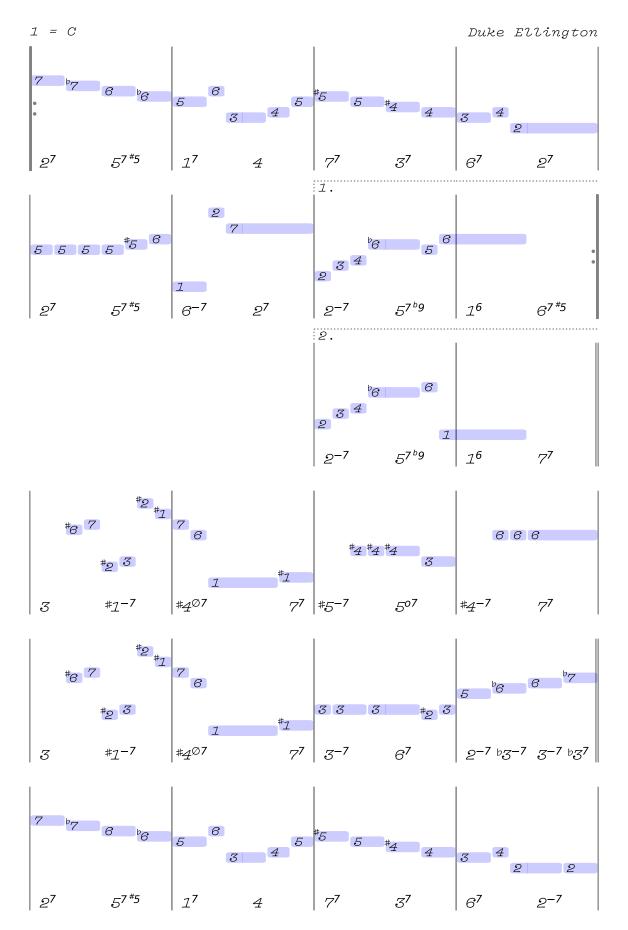


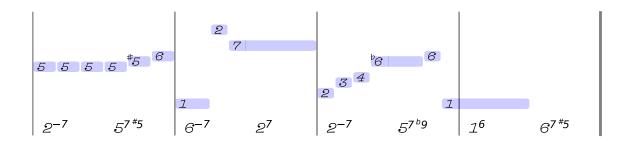
Poinciana



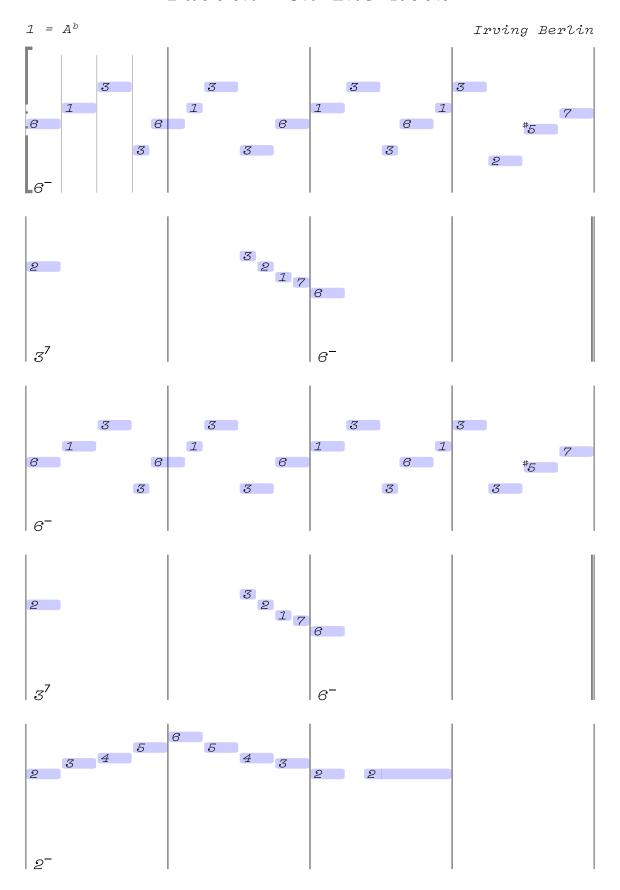


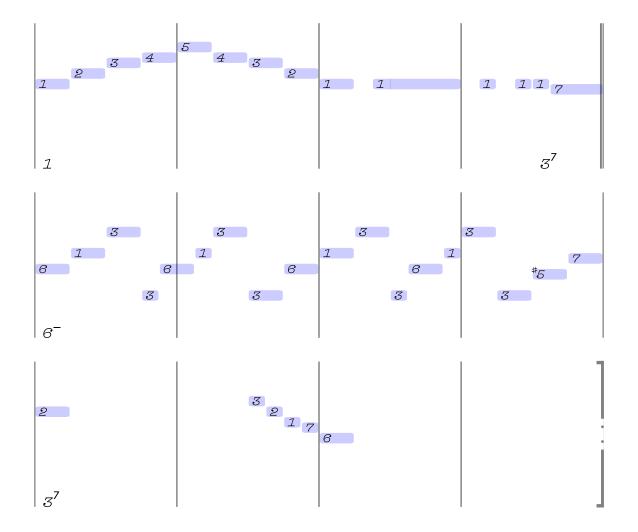
Prelude to a Kiss



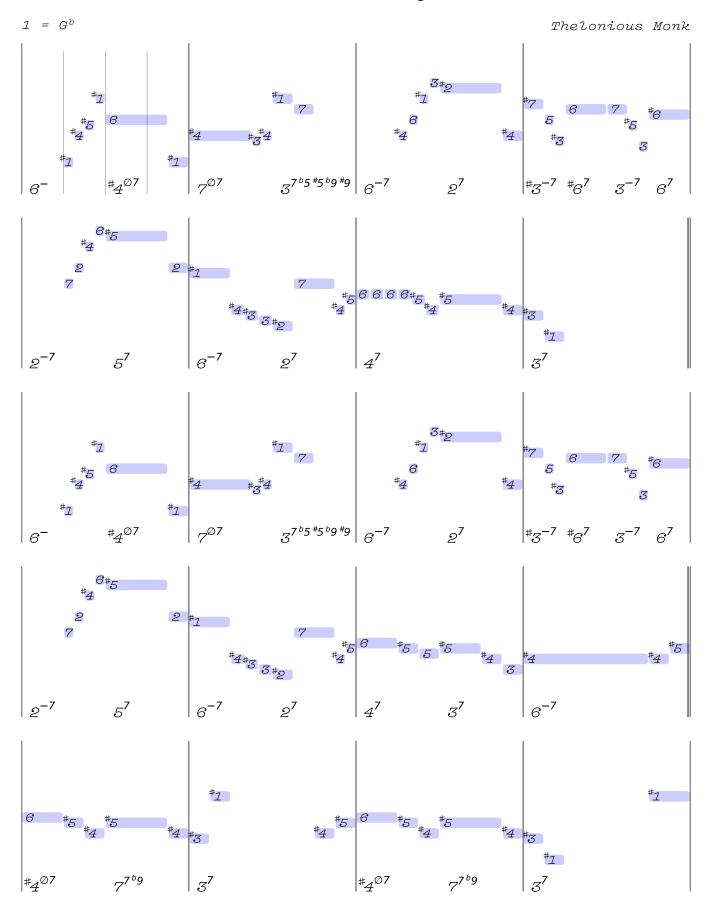


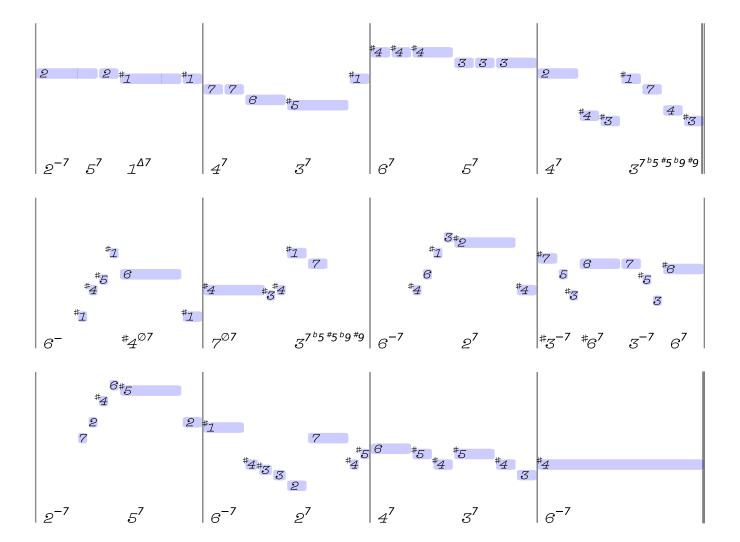
Puttin' On The Ritz



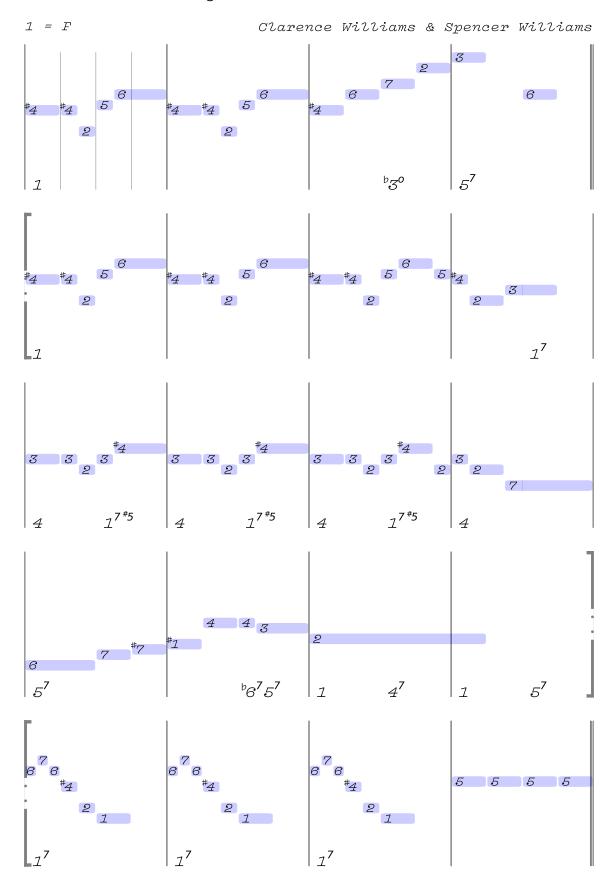


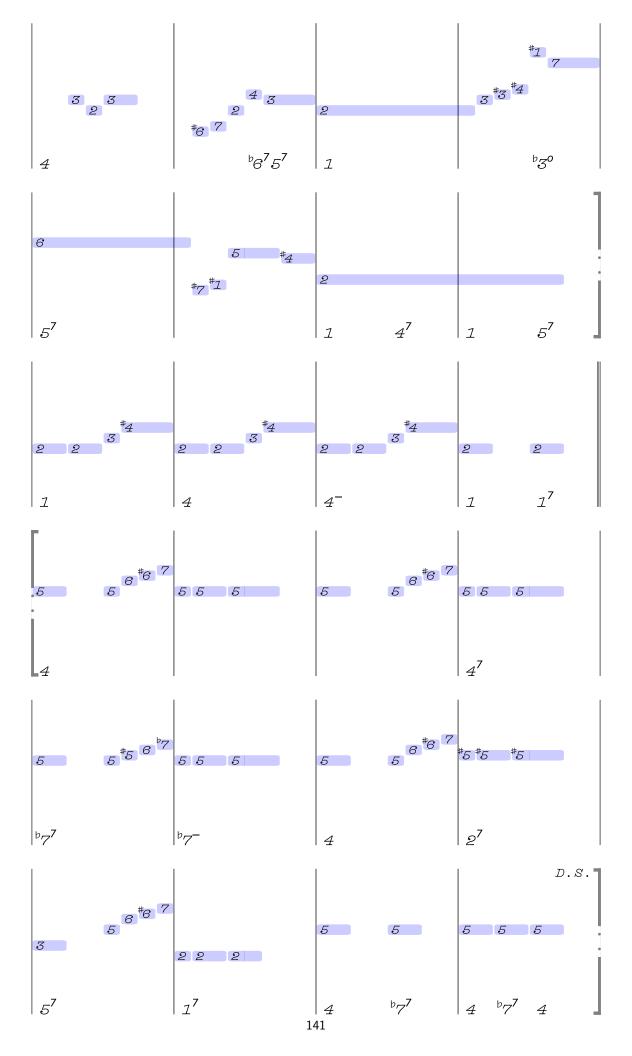
Round Midnight



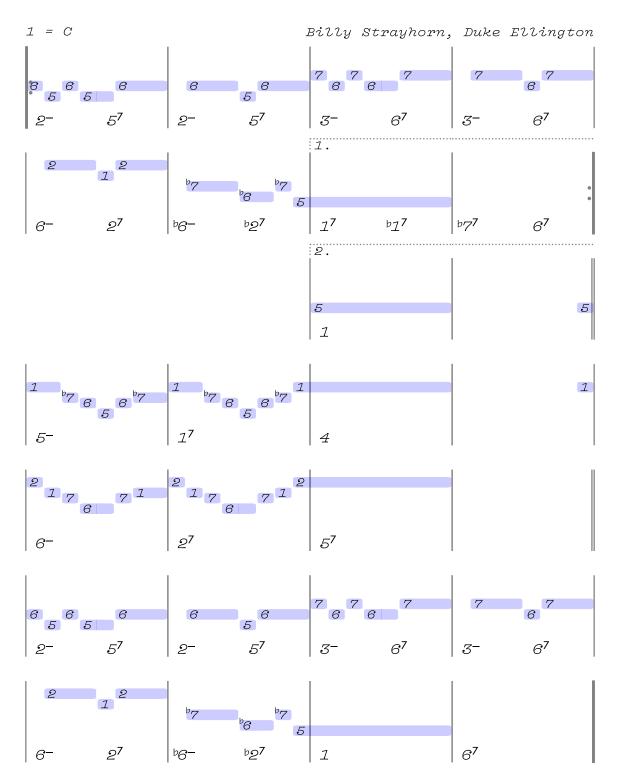


Royal Garden Blues

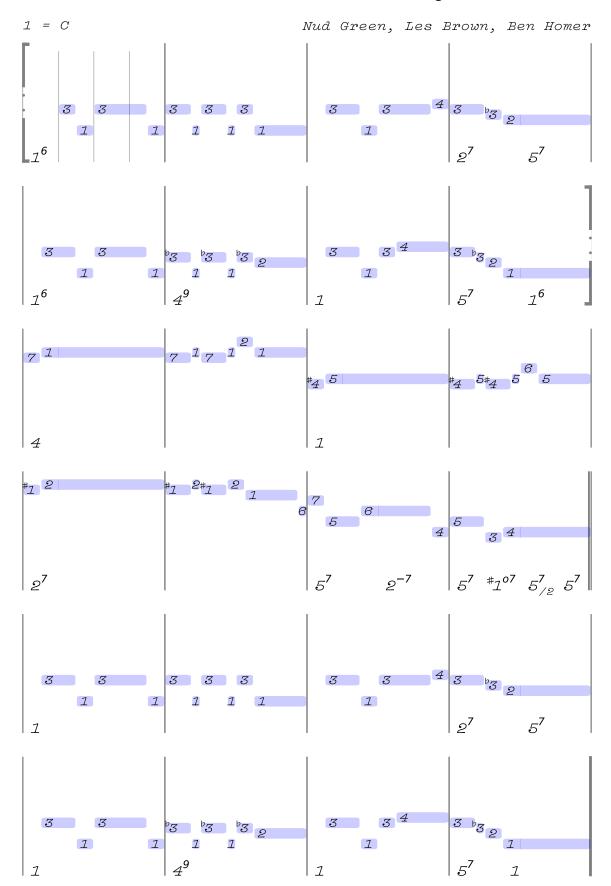




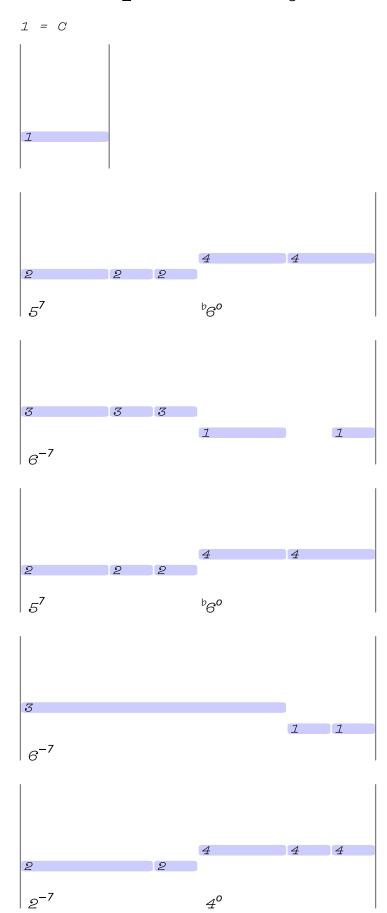
Satin Doll

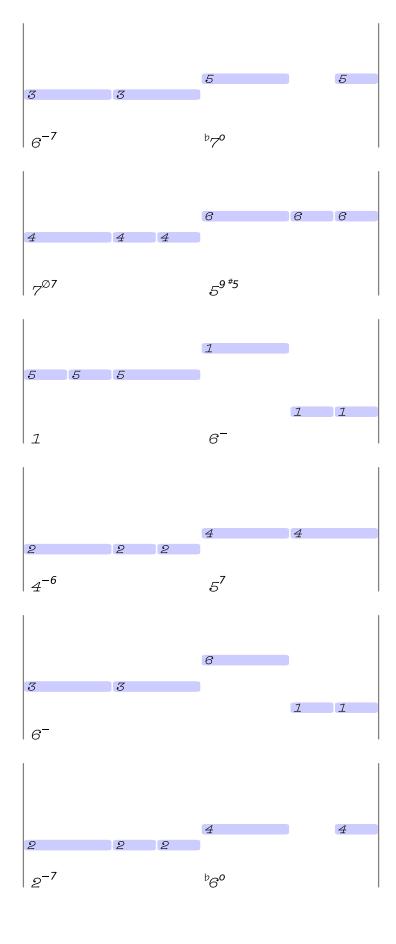


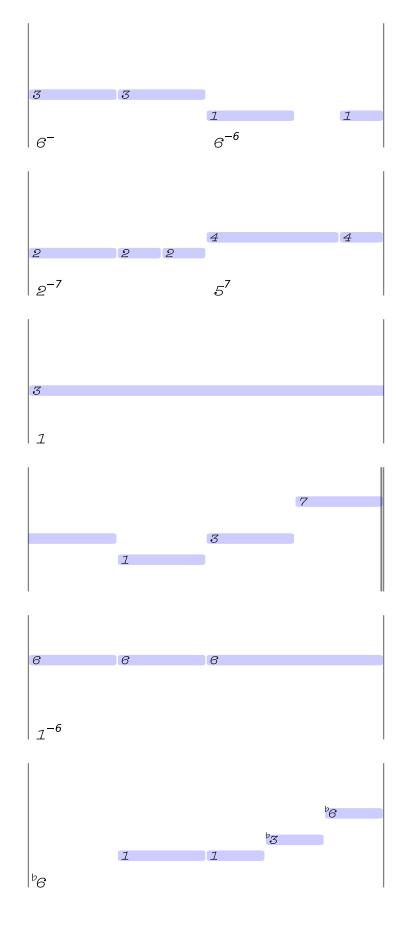
Sentimental Journey

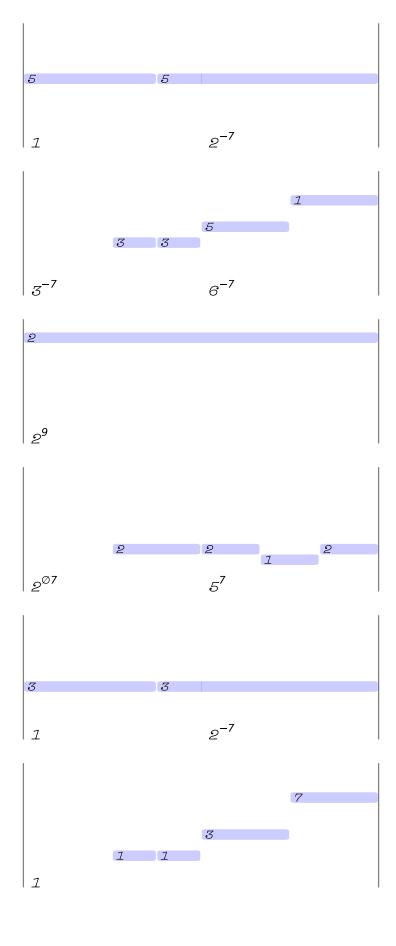


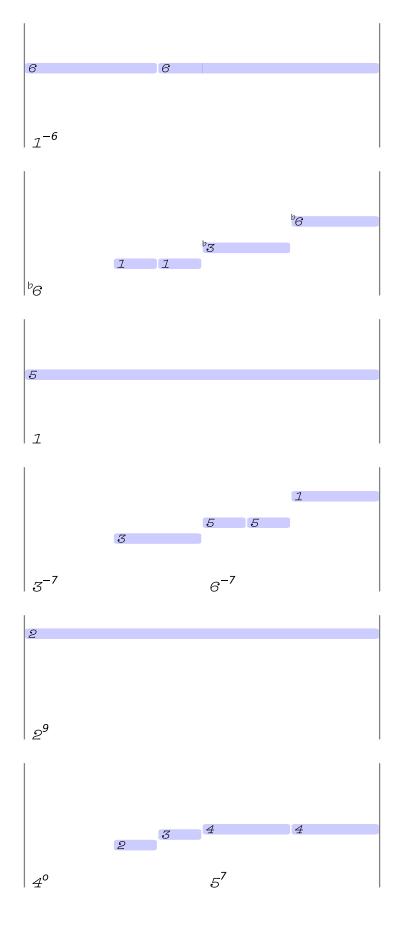
September Song

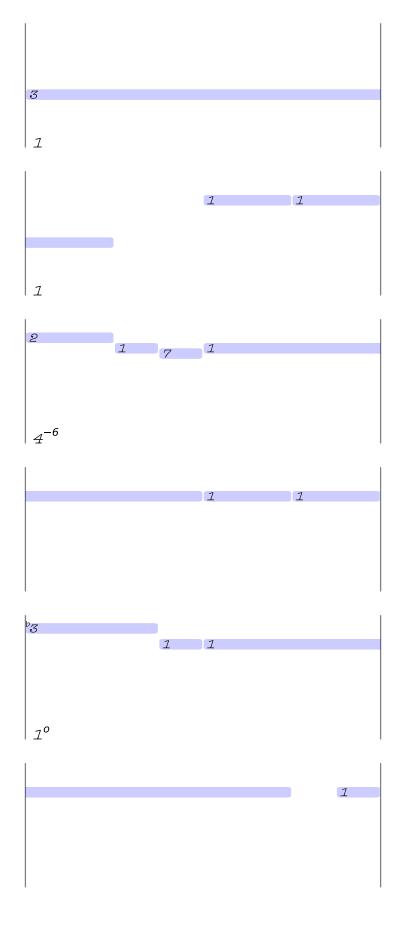


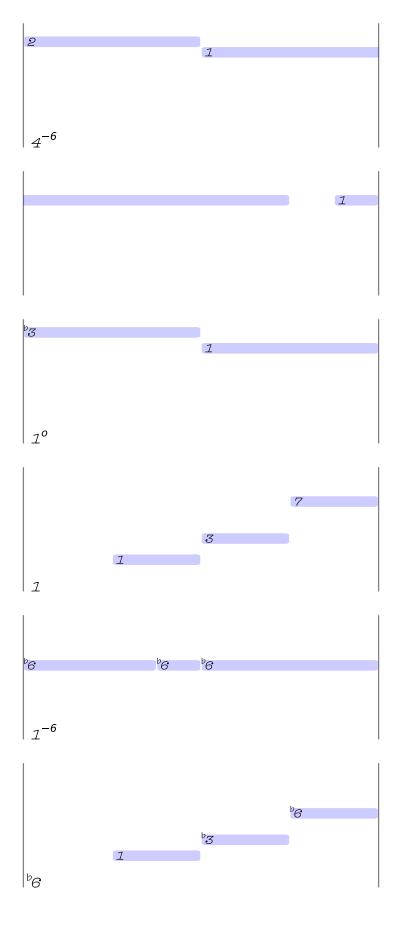


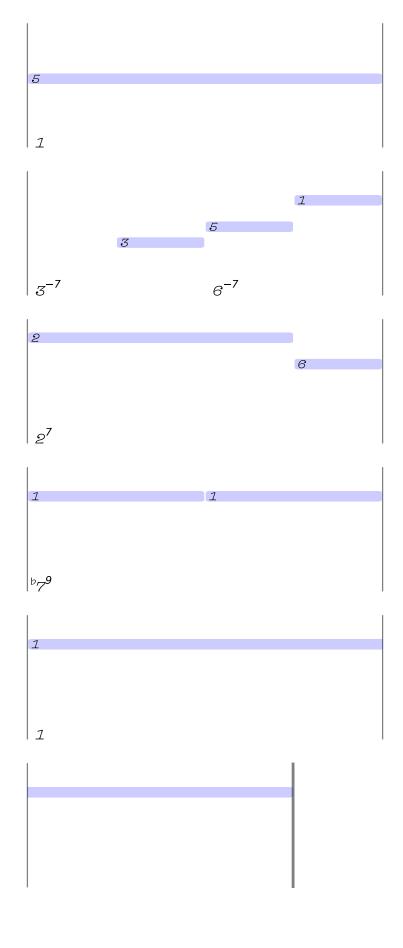




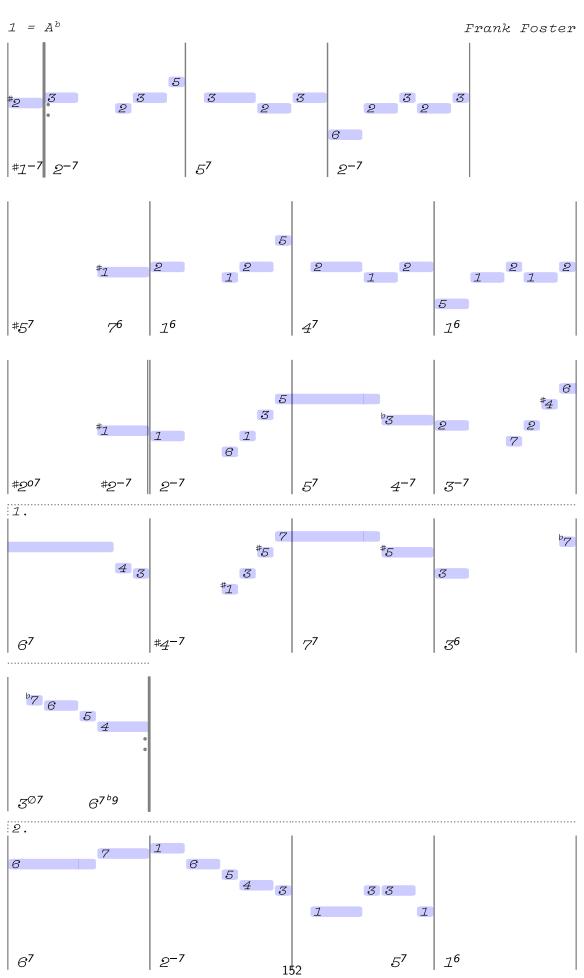




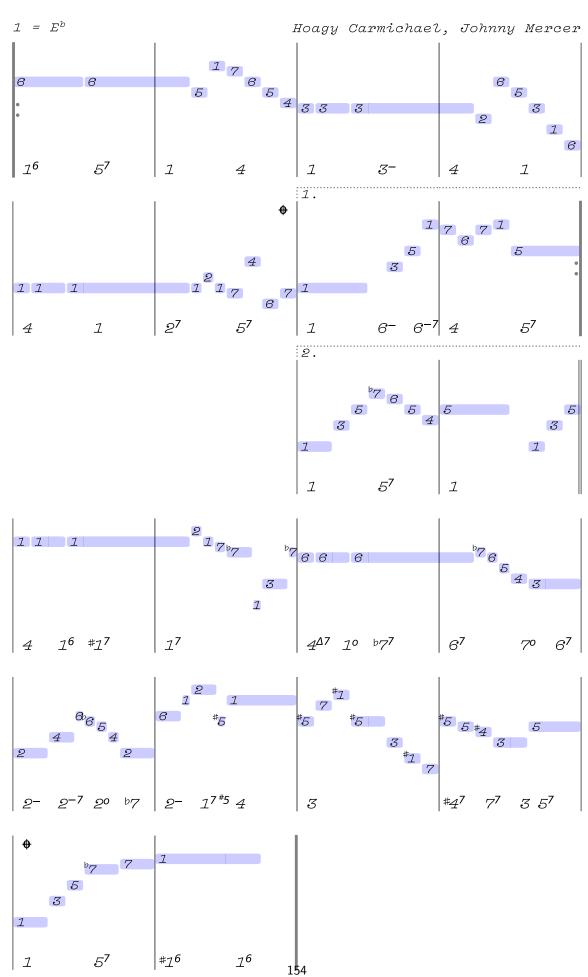




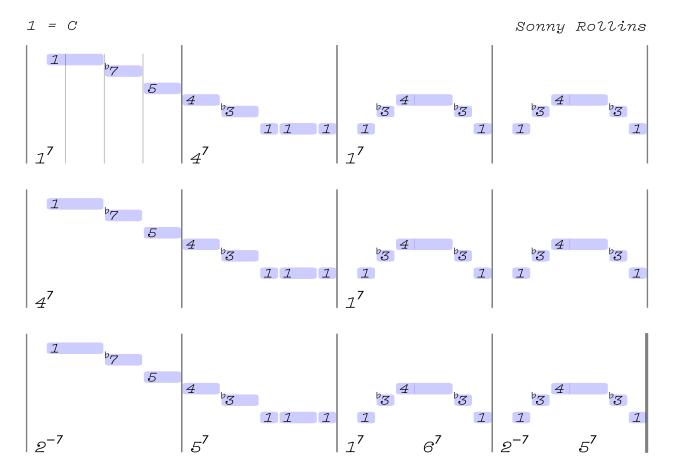
Shiny Stockings



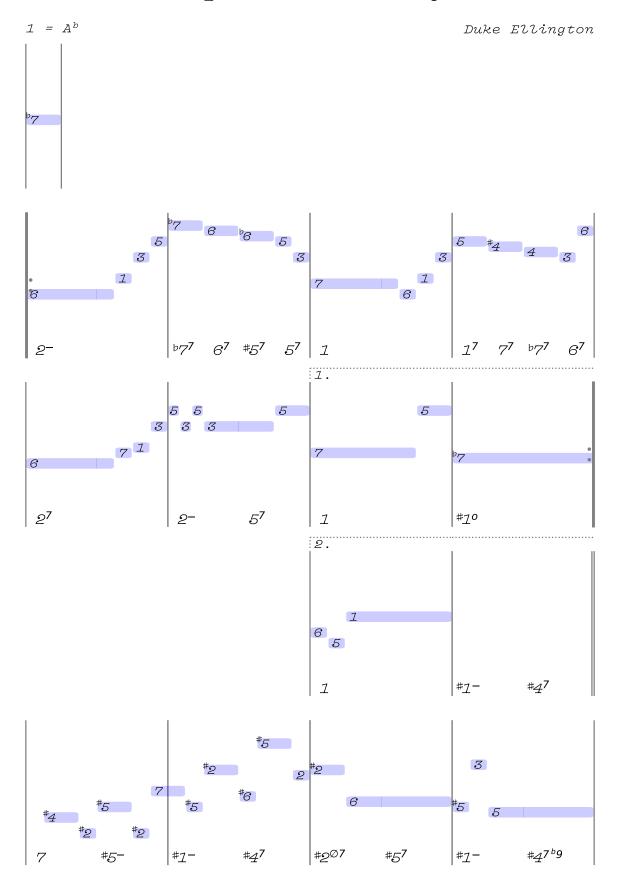
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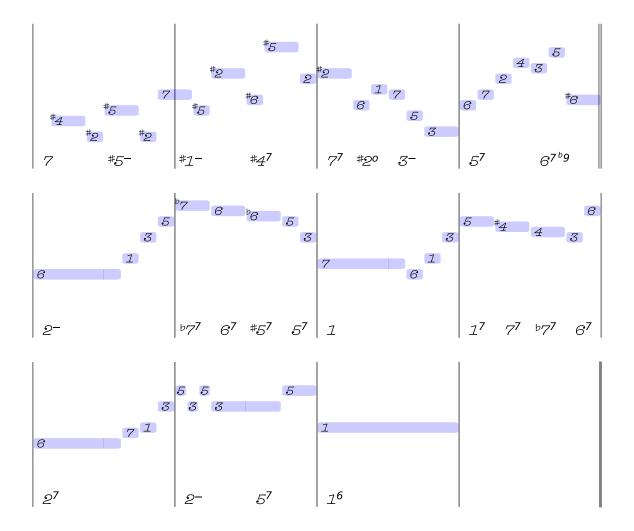


Sonnymoon for Two

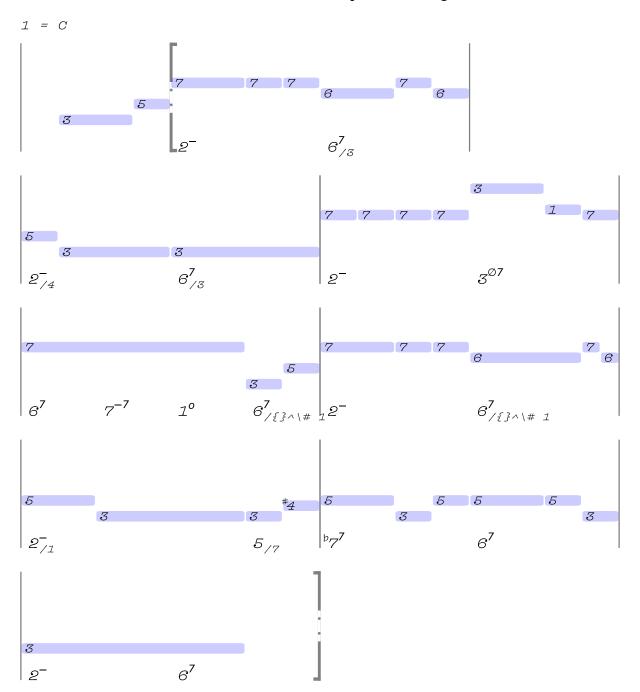


Sophisticated Lady

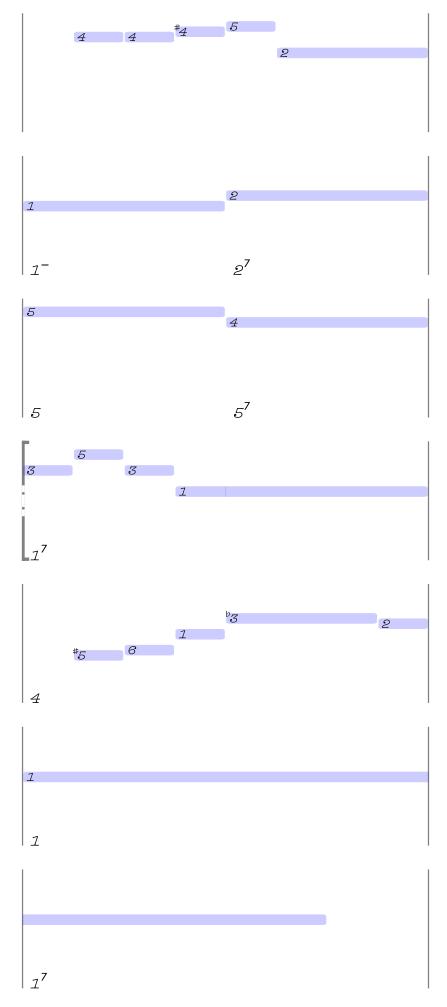


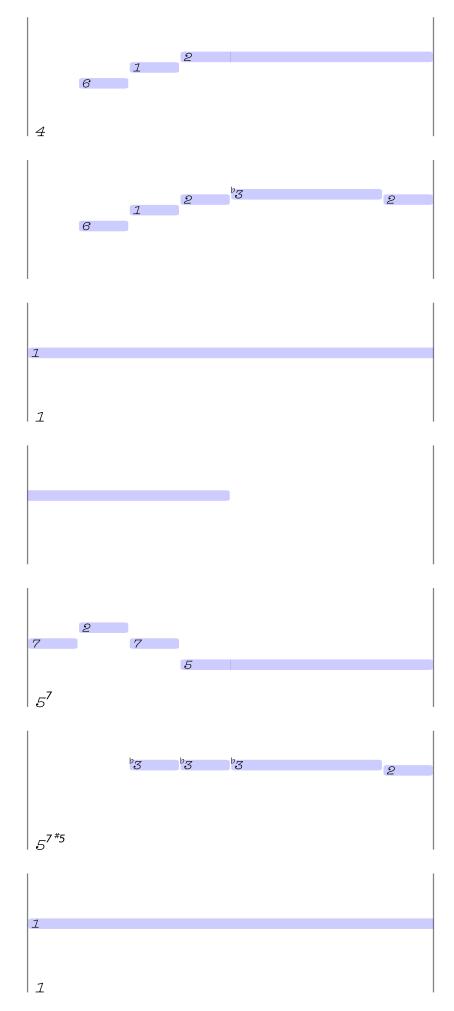


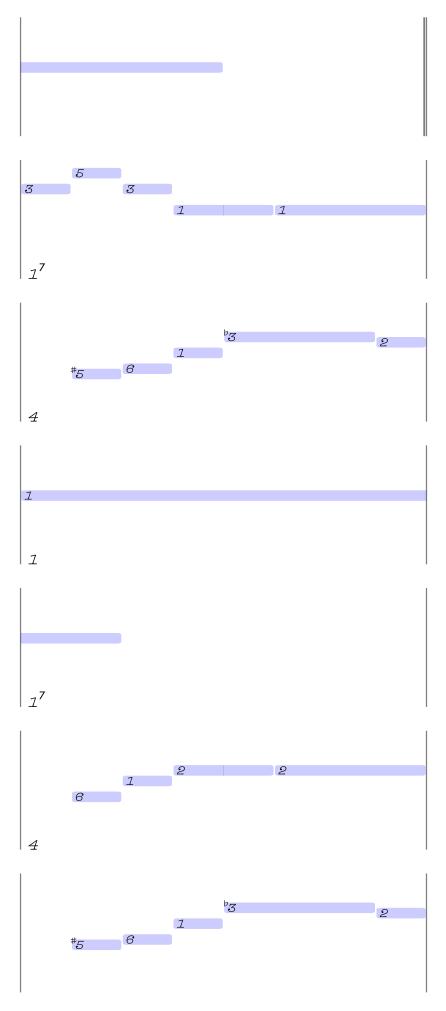
St James Infirmary

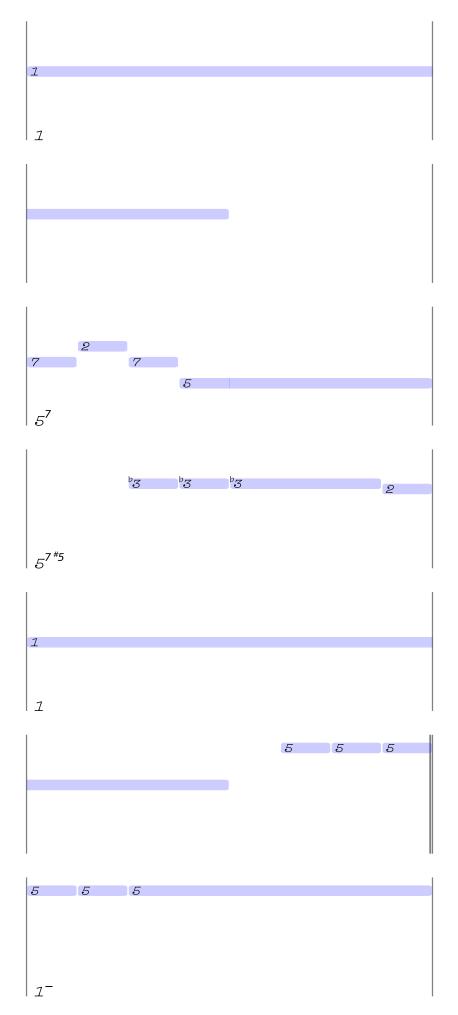


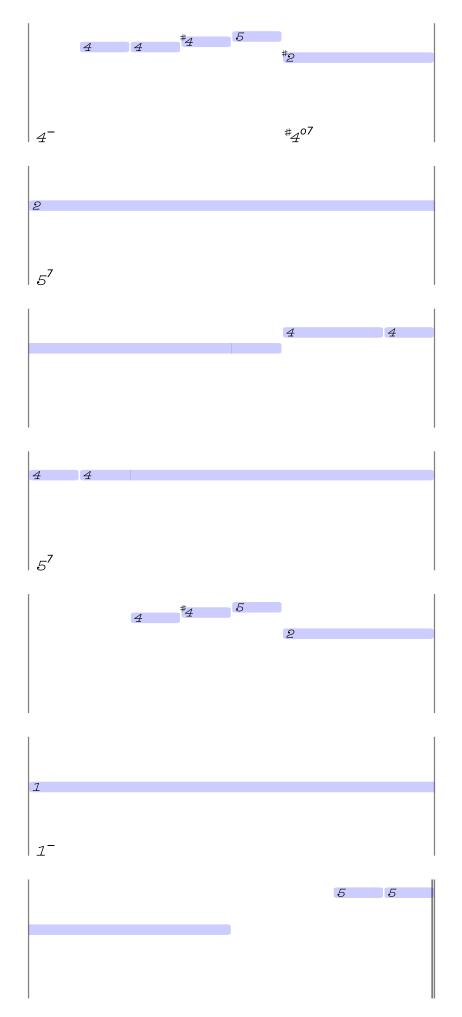
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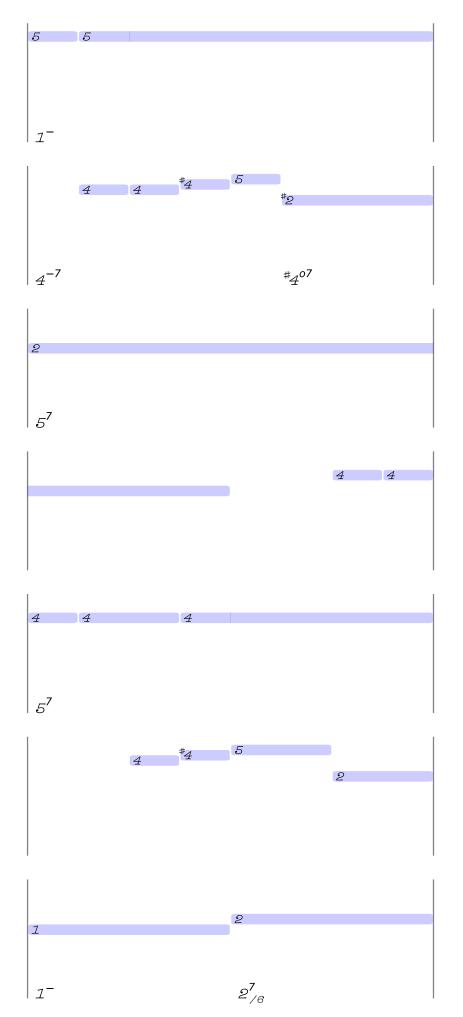


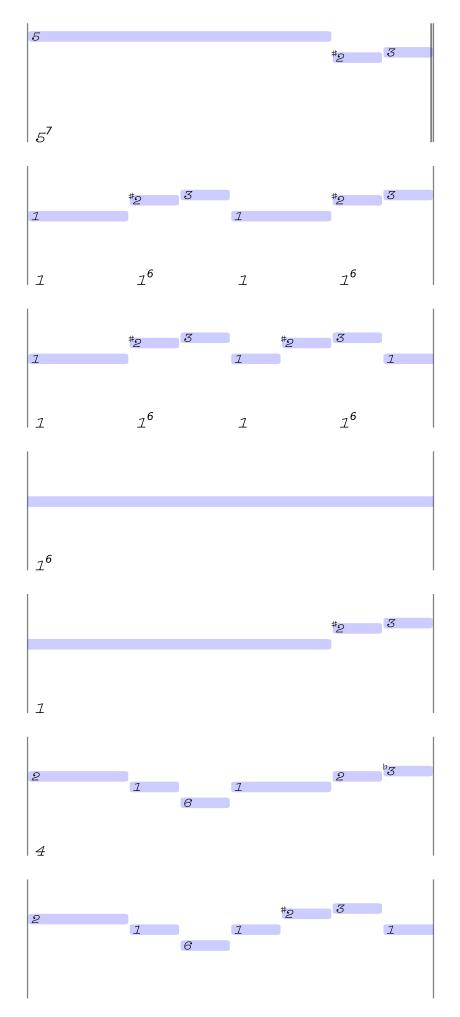


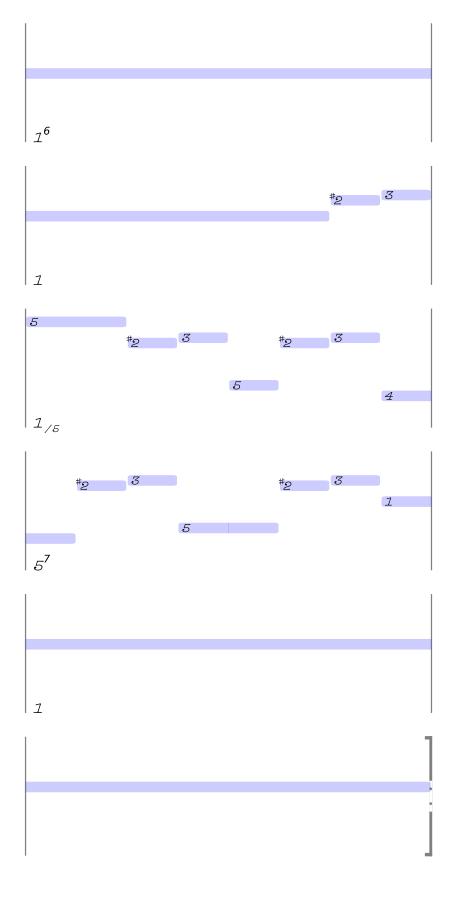




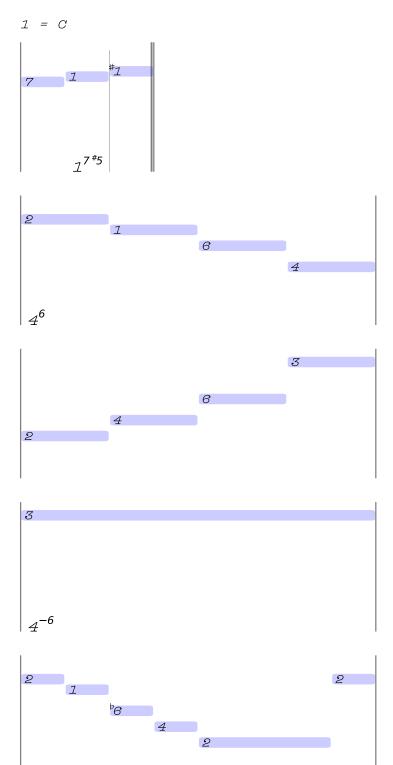


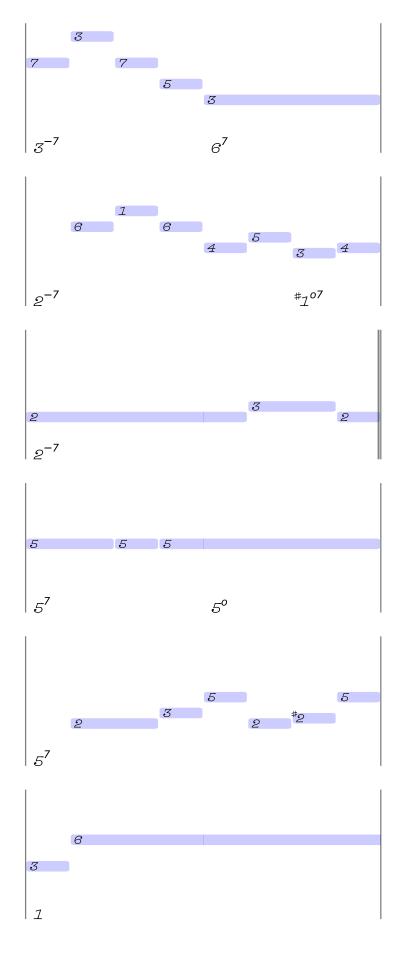


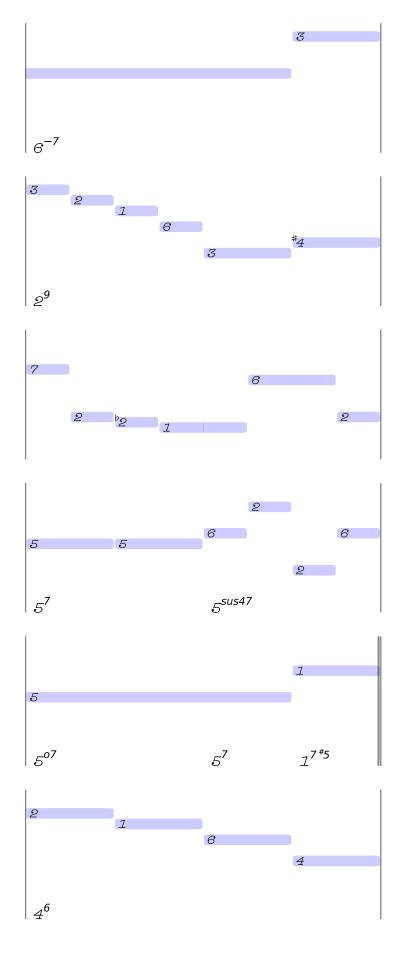


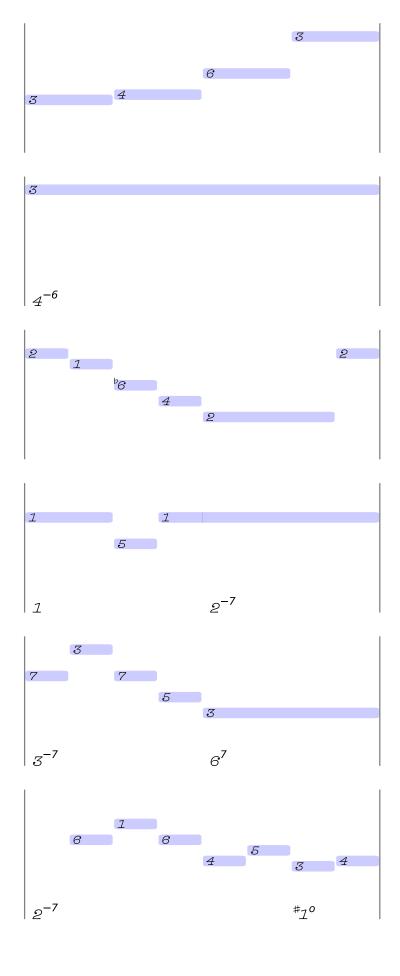


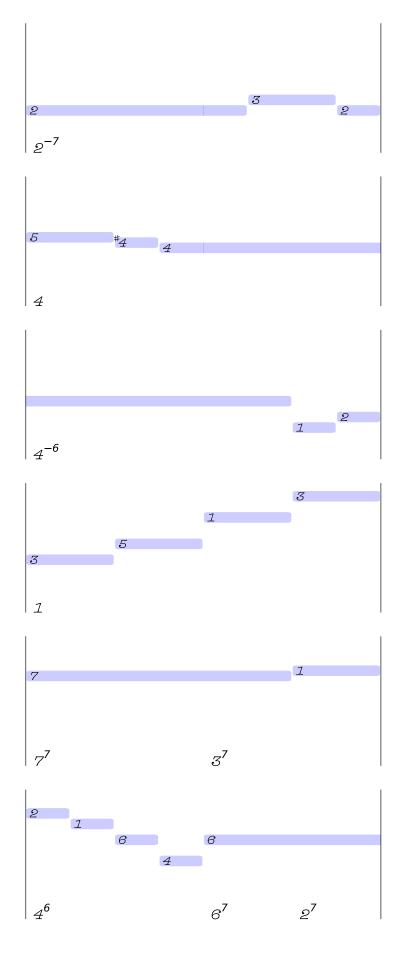
Hoagy Charmicheal

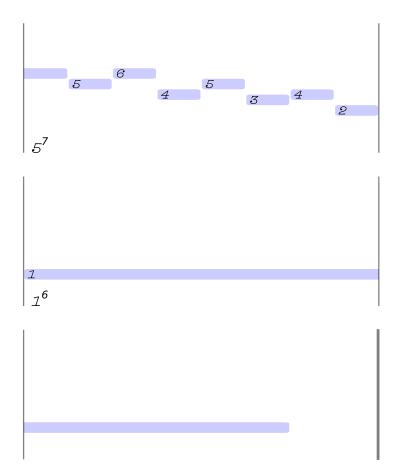




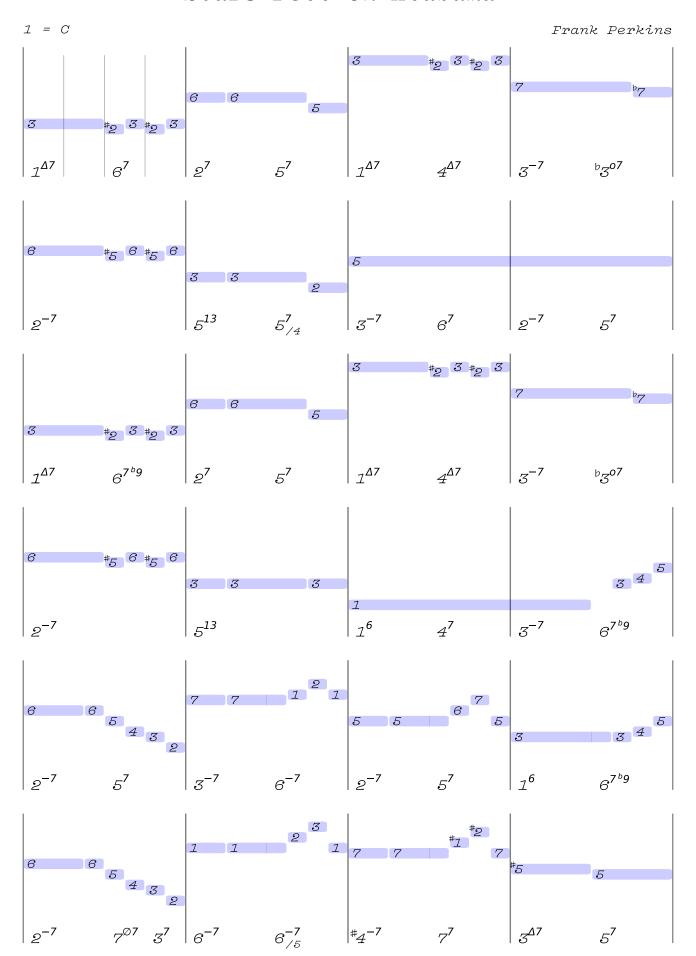


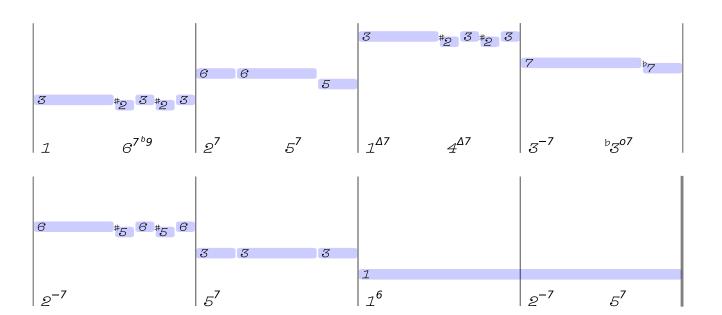


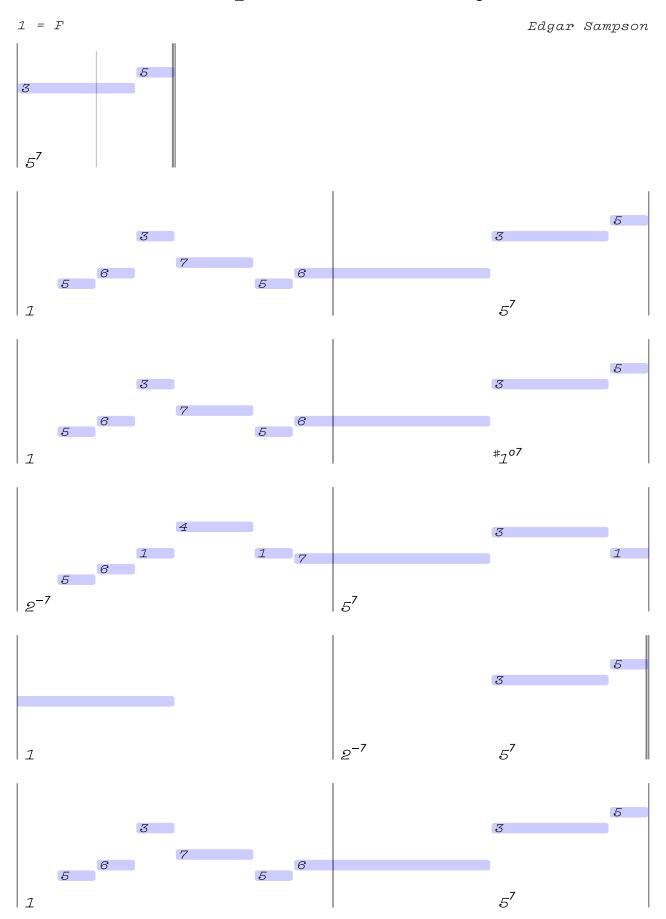


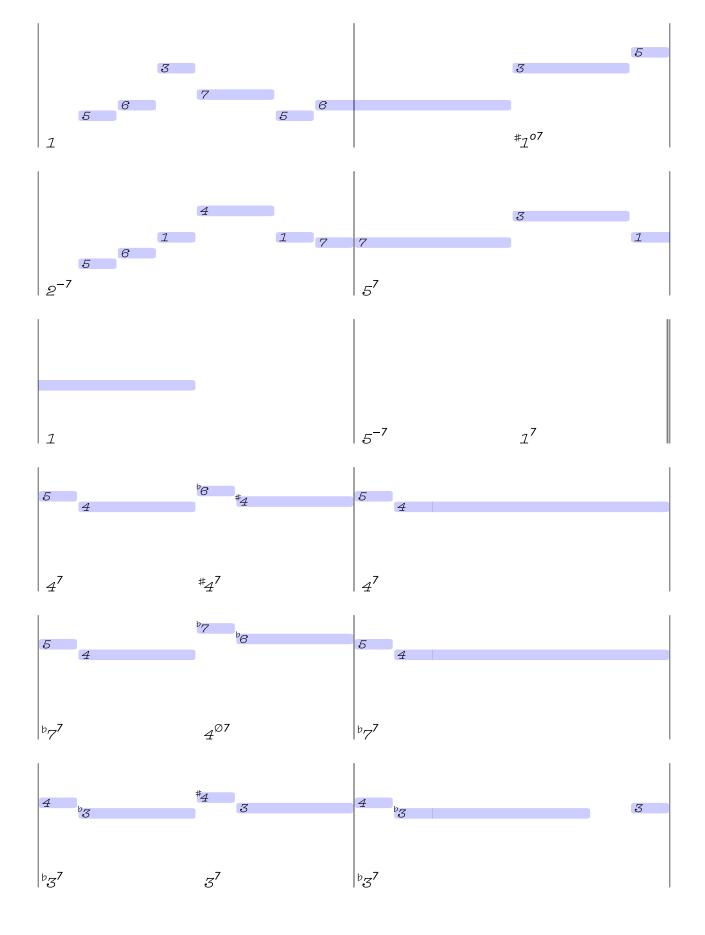


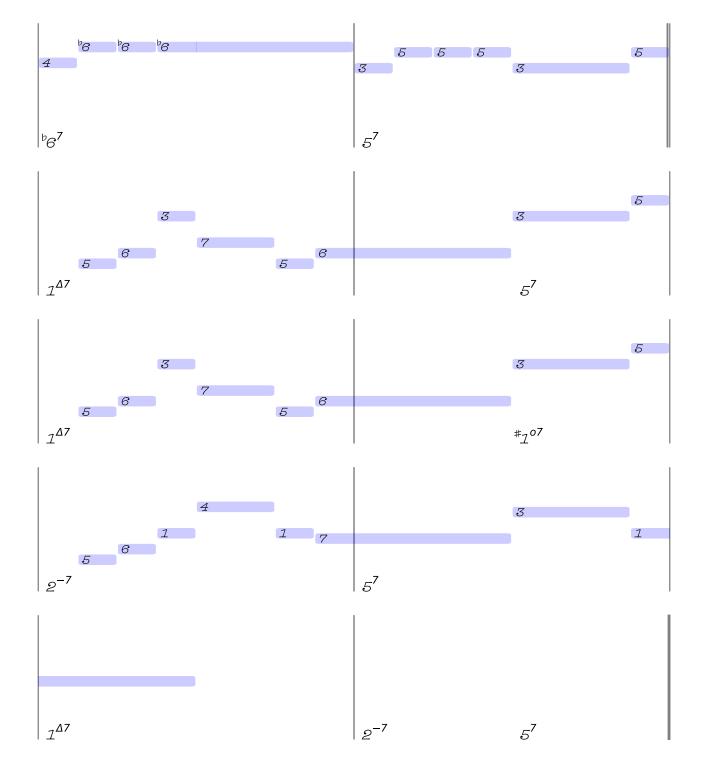
Stars Fell On Alabama



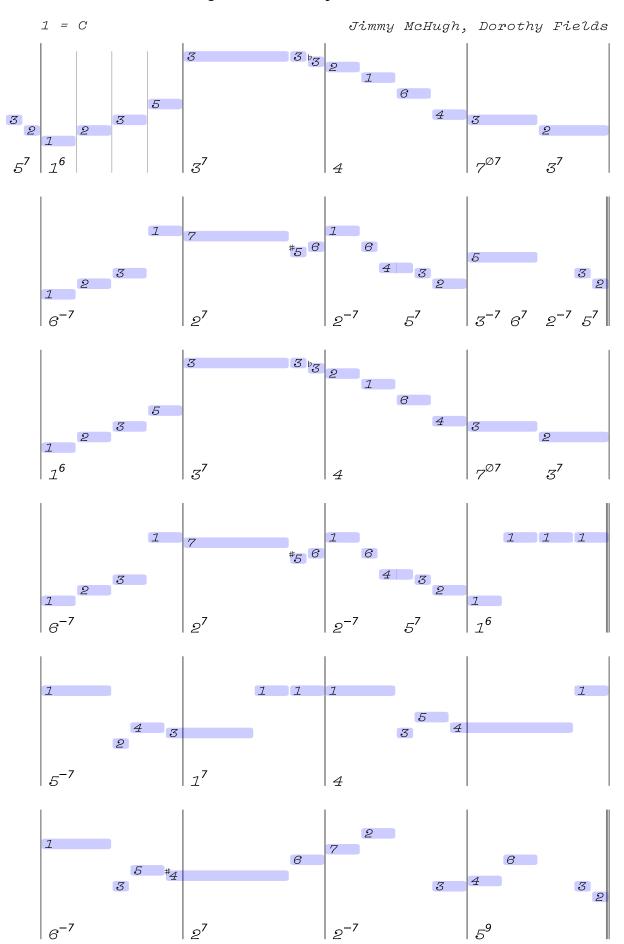


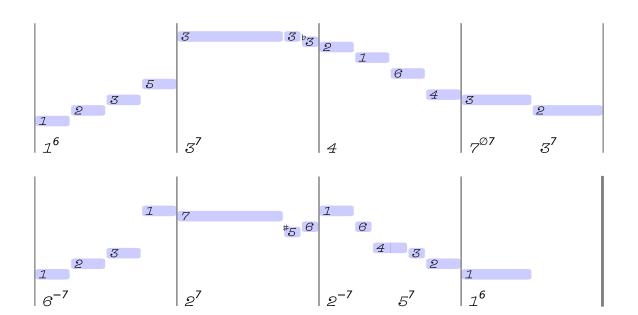




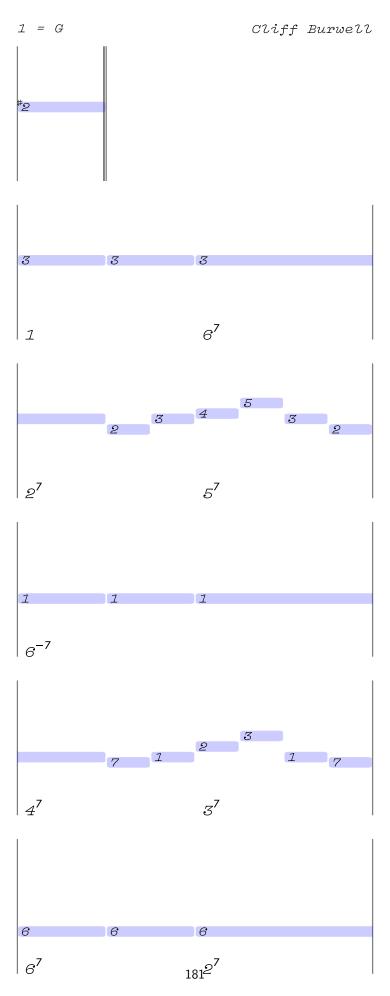


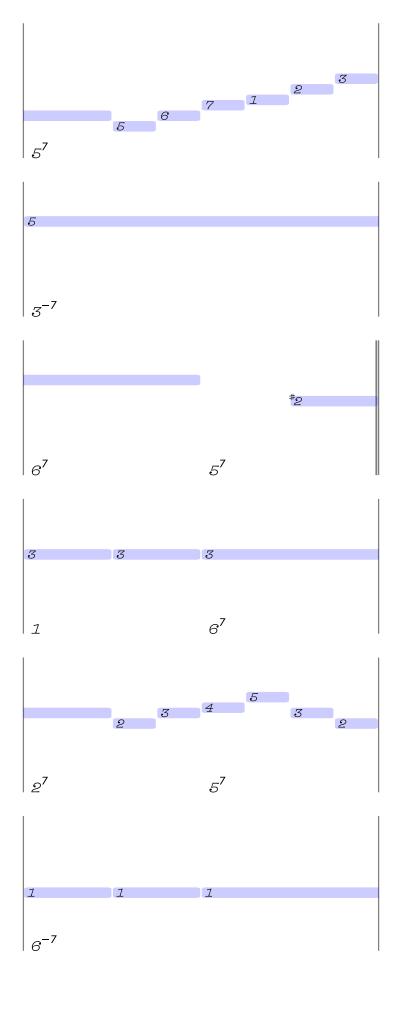
Sunny Side of the Street

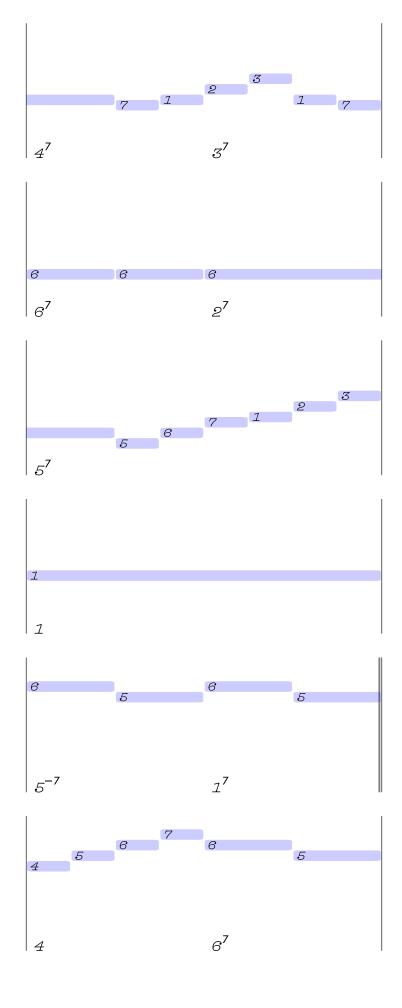


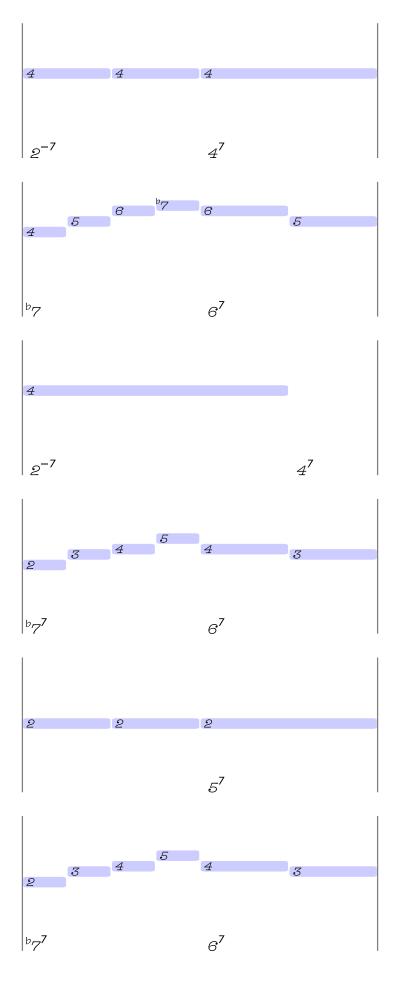


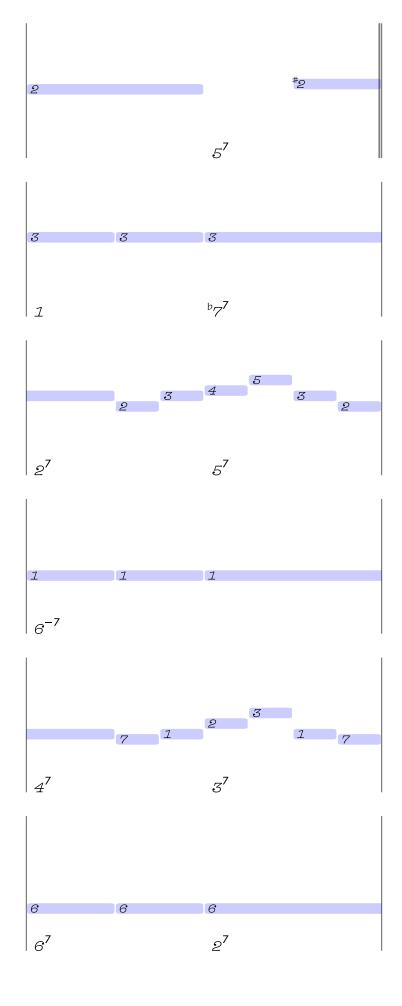
Sweet Lorraine

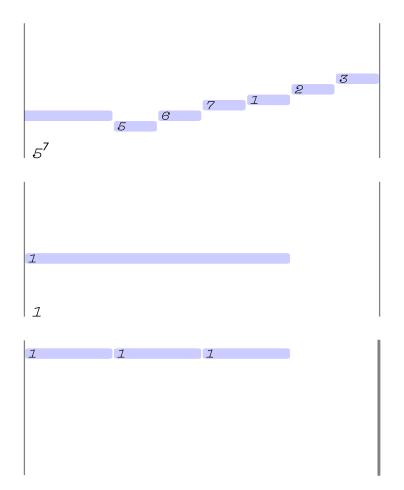


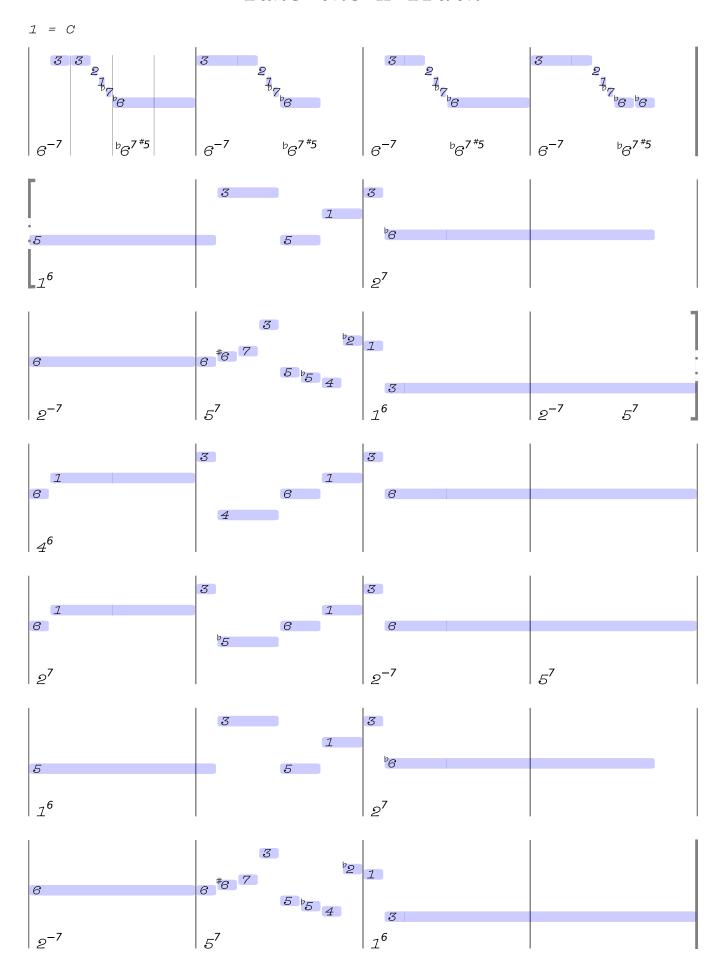




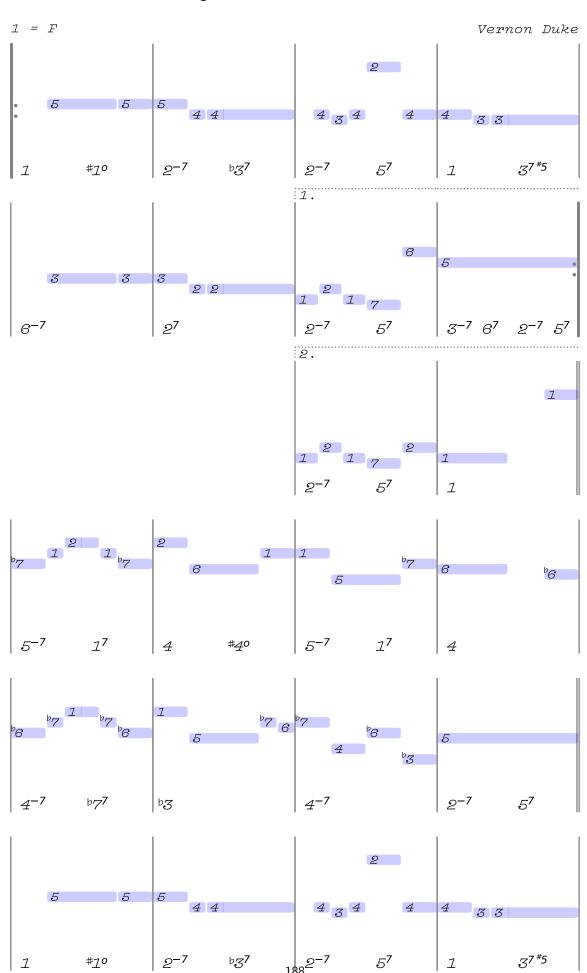






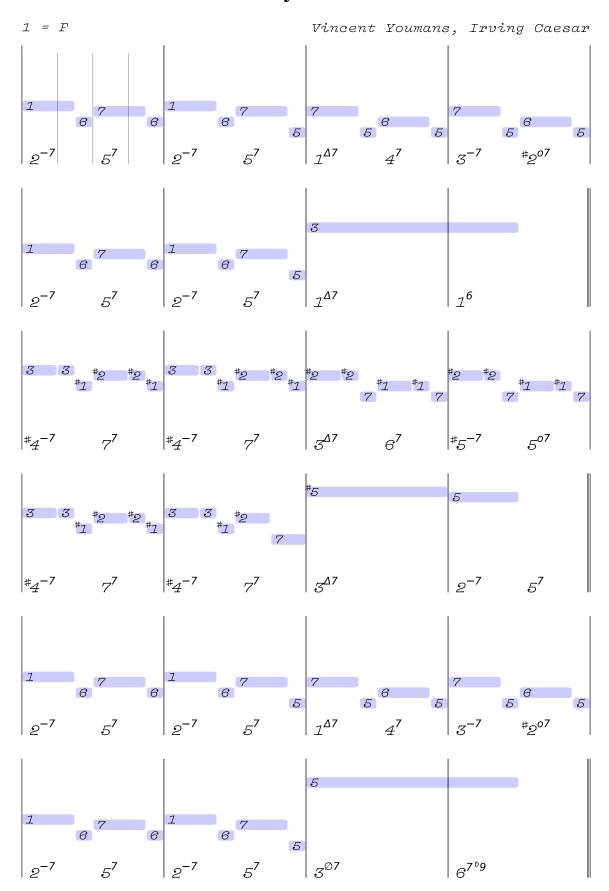


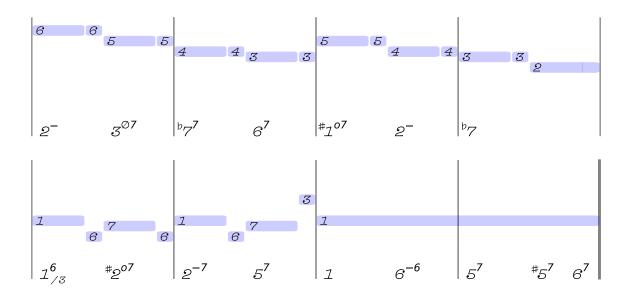
Taking a Chance on Love



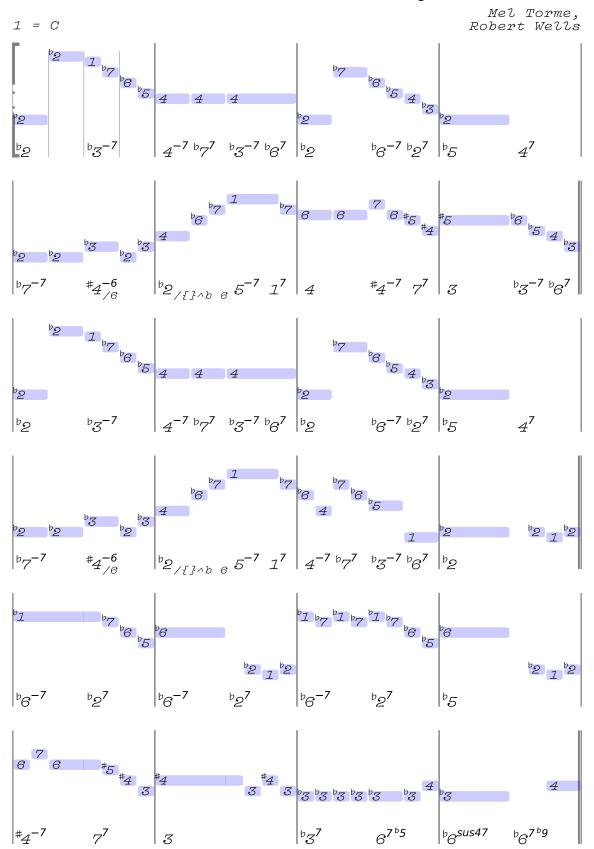
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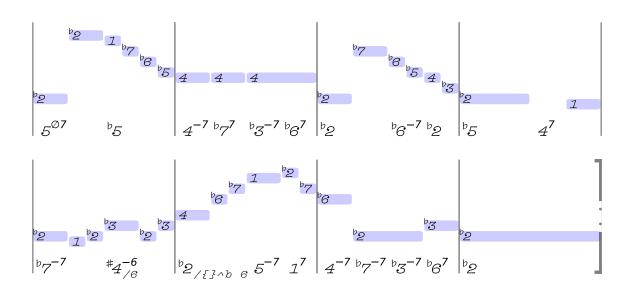
Tea for Two



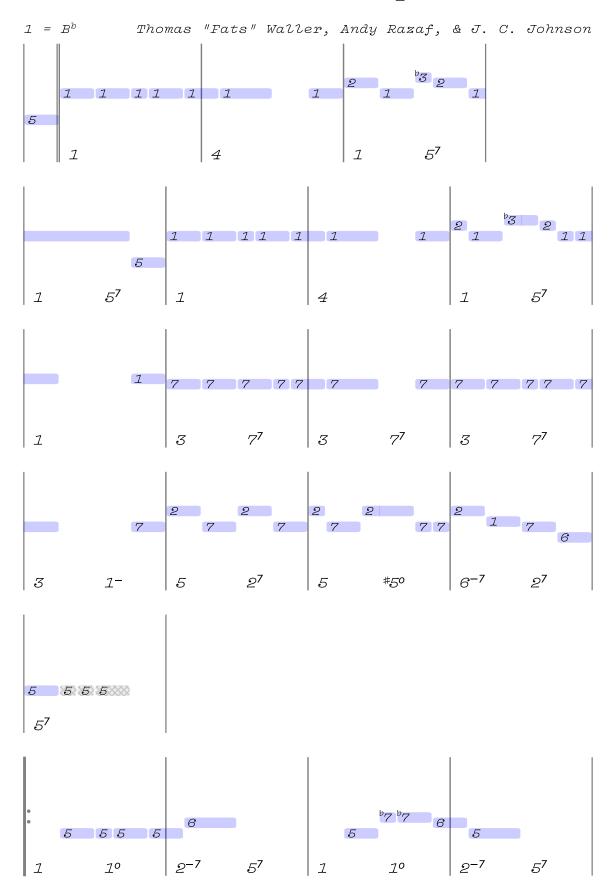


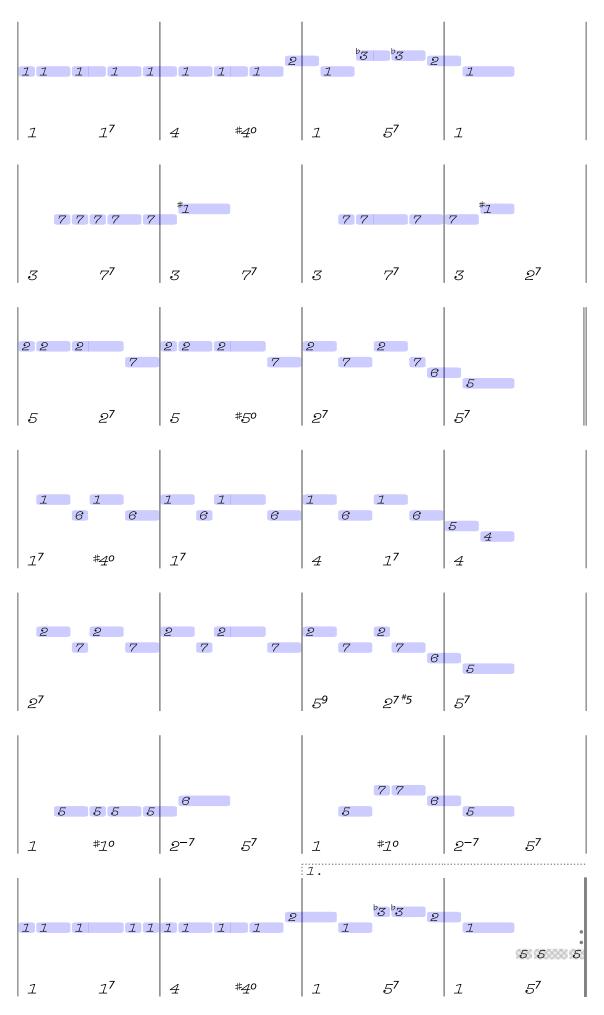
The Christmas Song

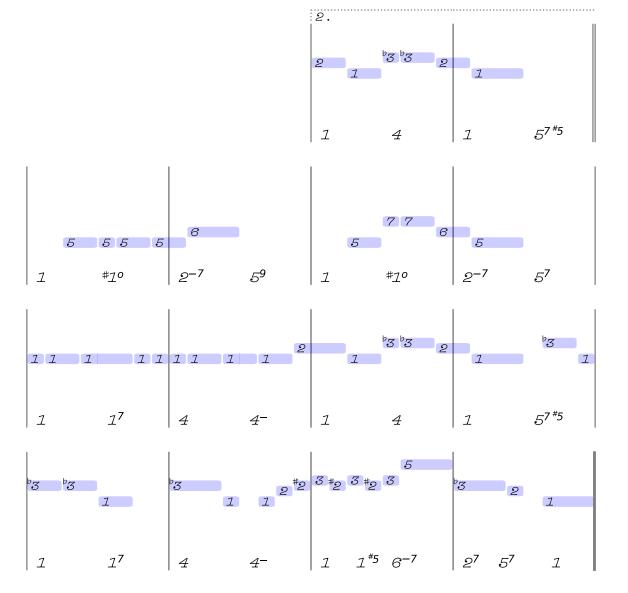


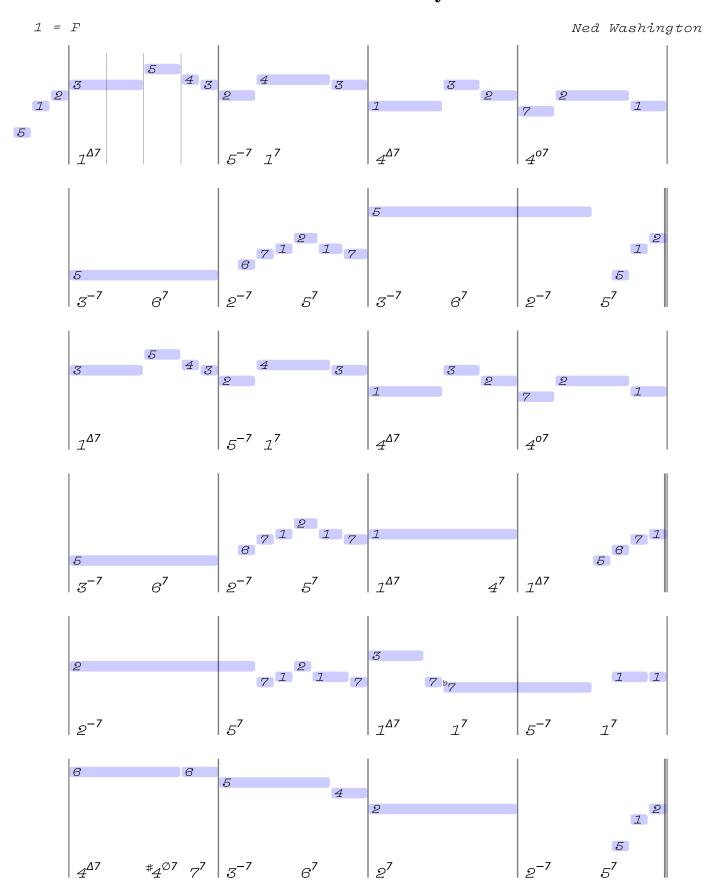


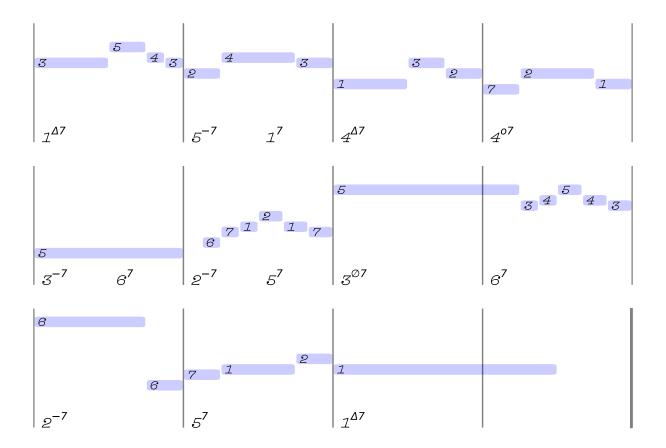
The Joint is Jumpin'



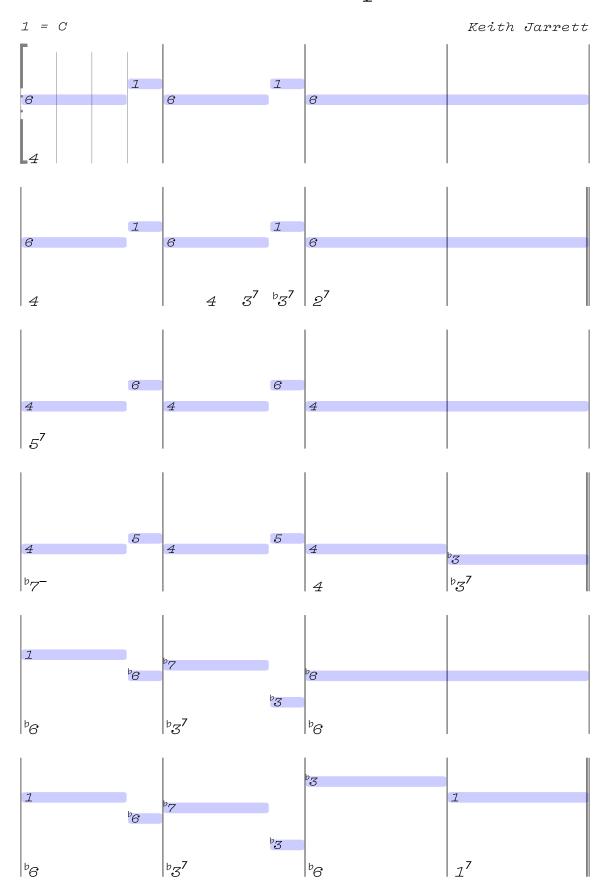


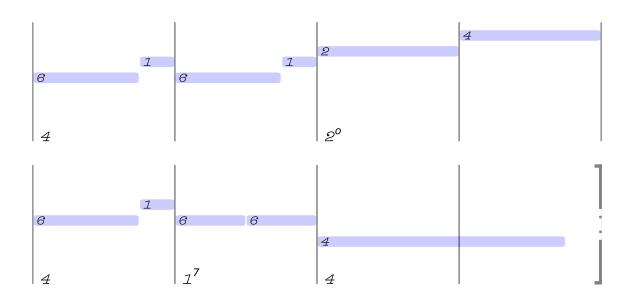


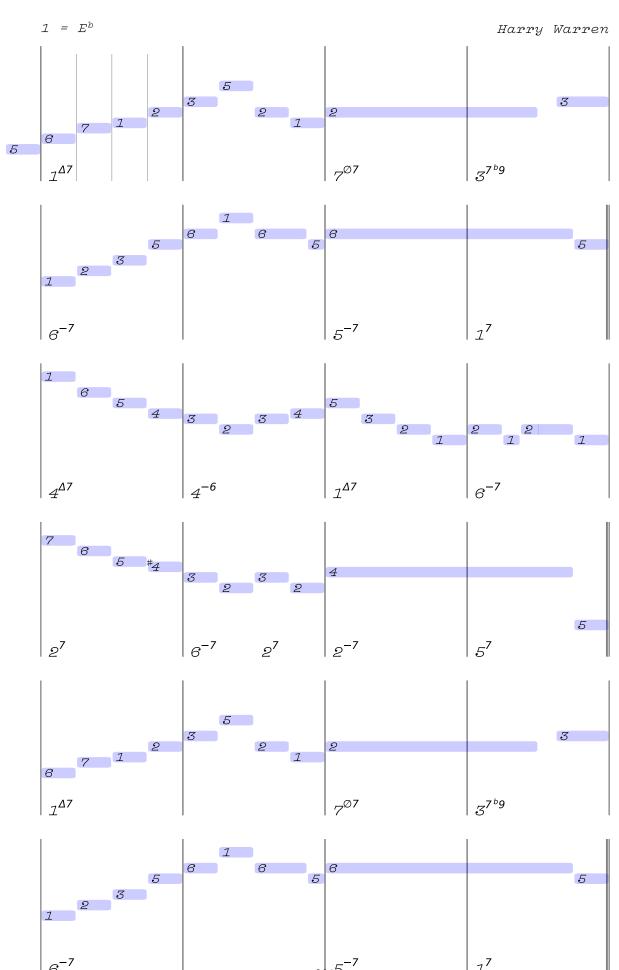


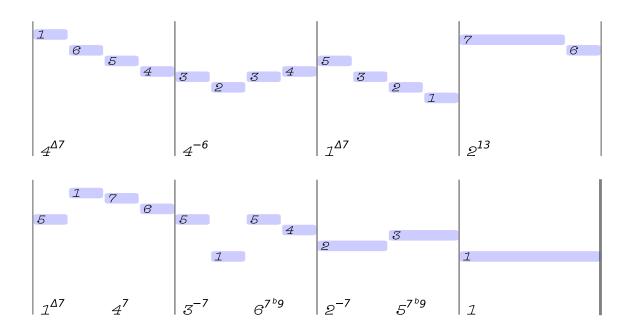


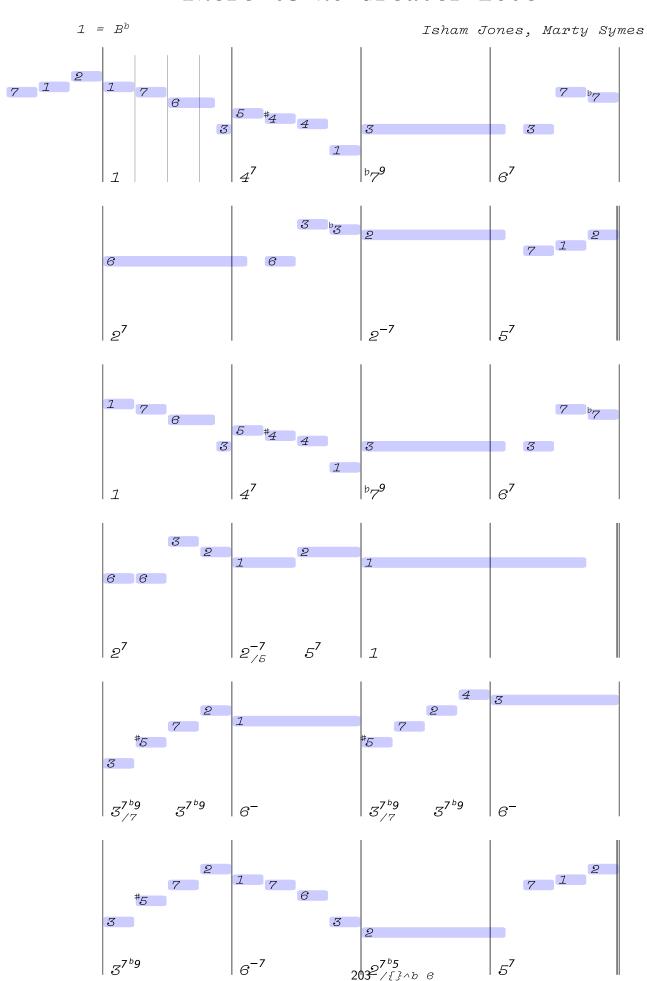
The Windup

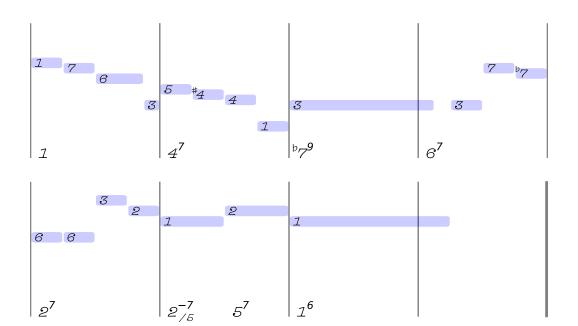




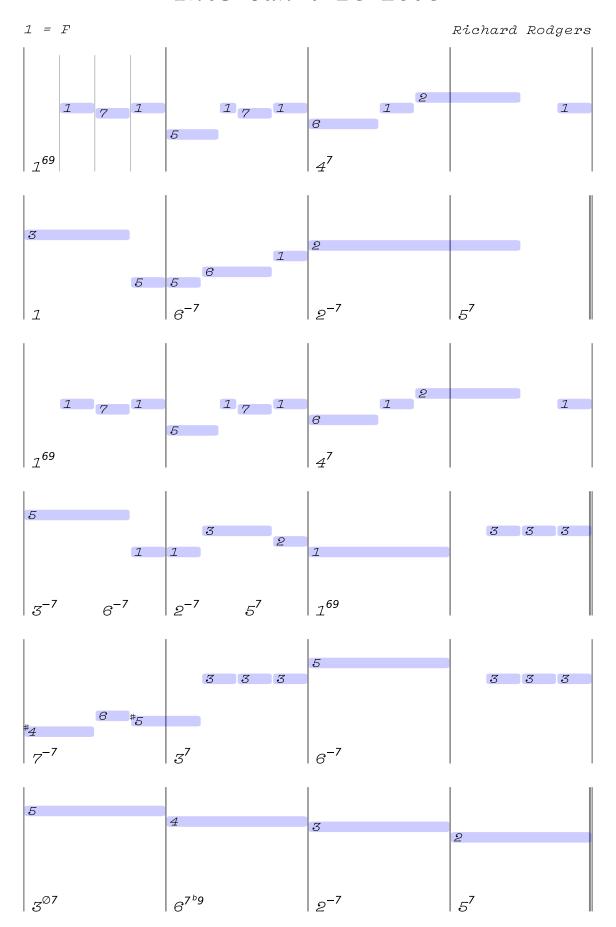


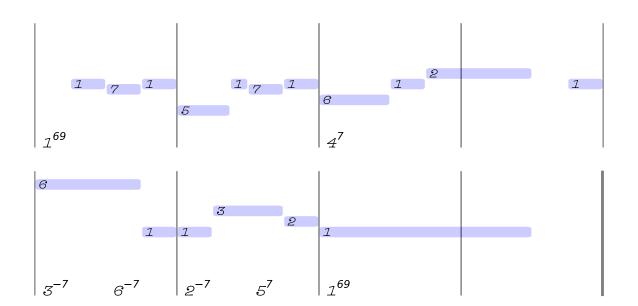


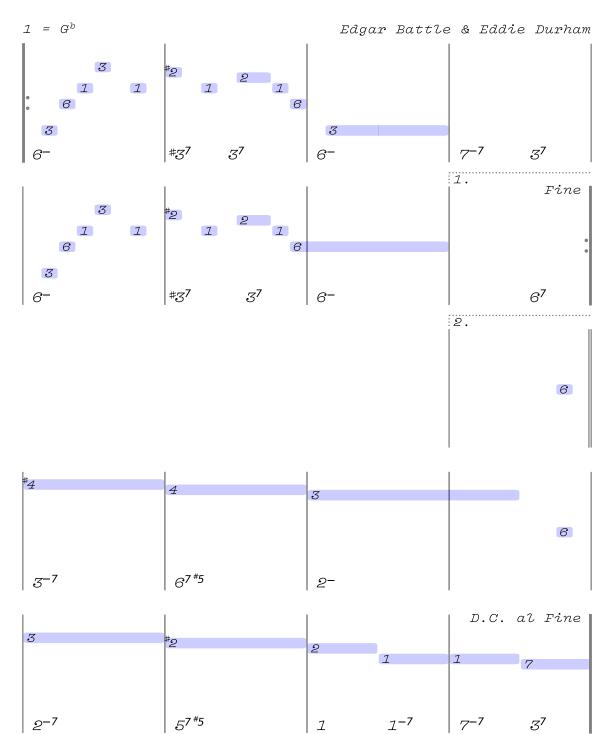




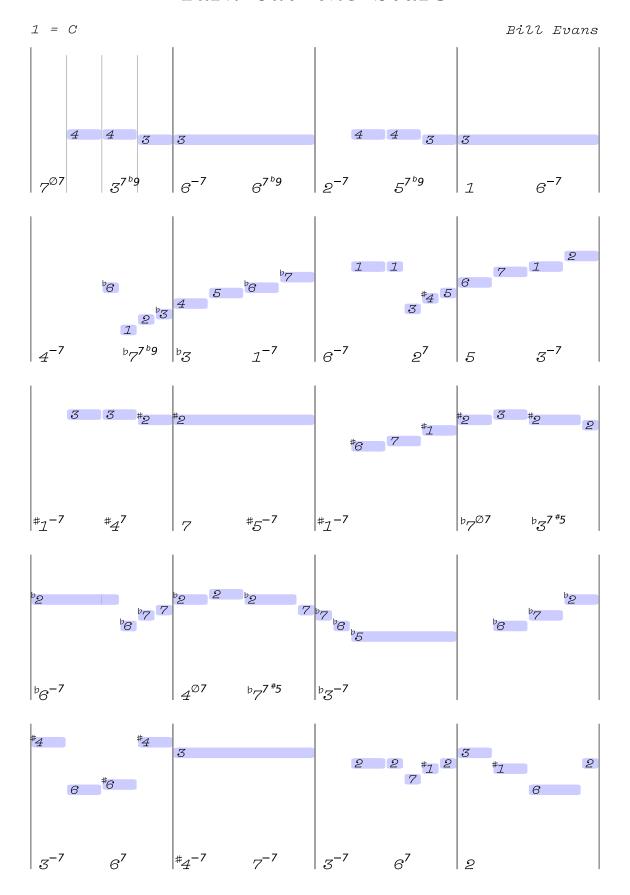
This Can't Be Love

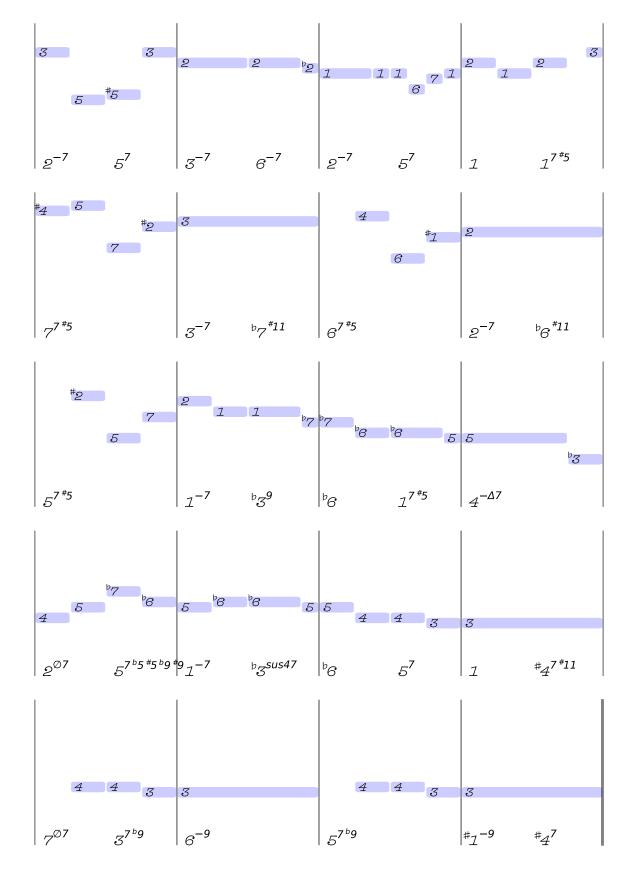




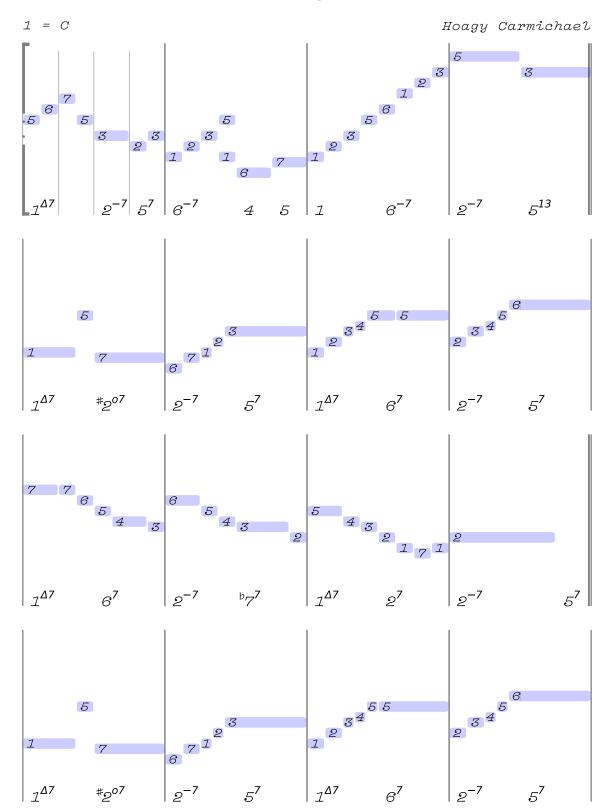


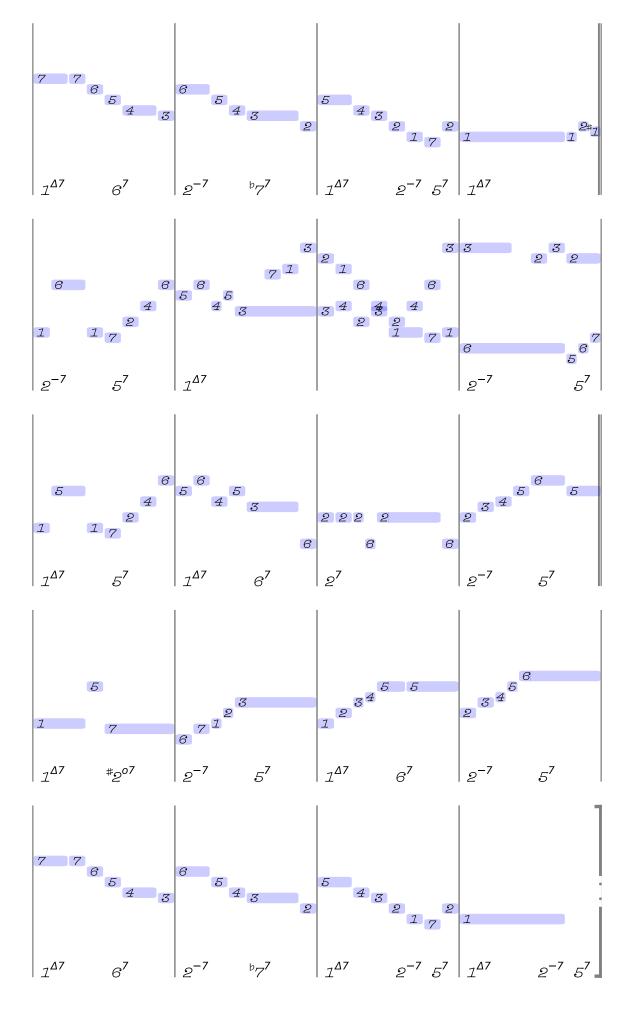
Turn Out the Stars



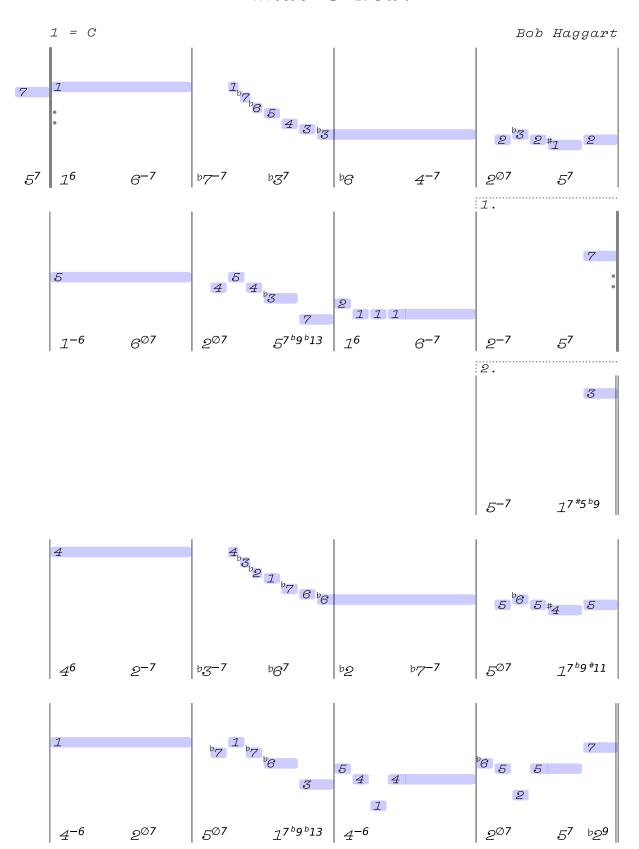


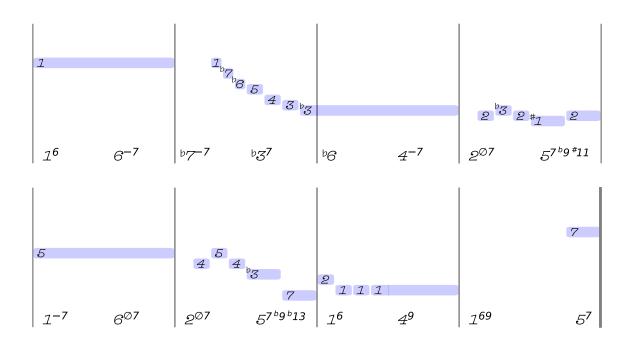
Two Sleepy People

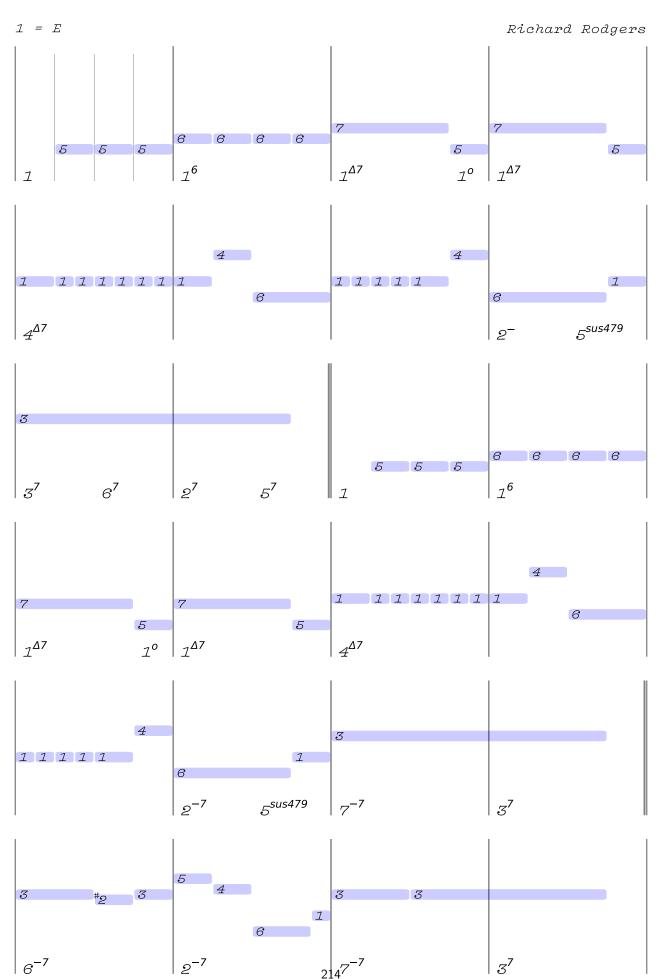


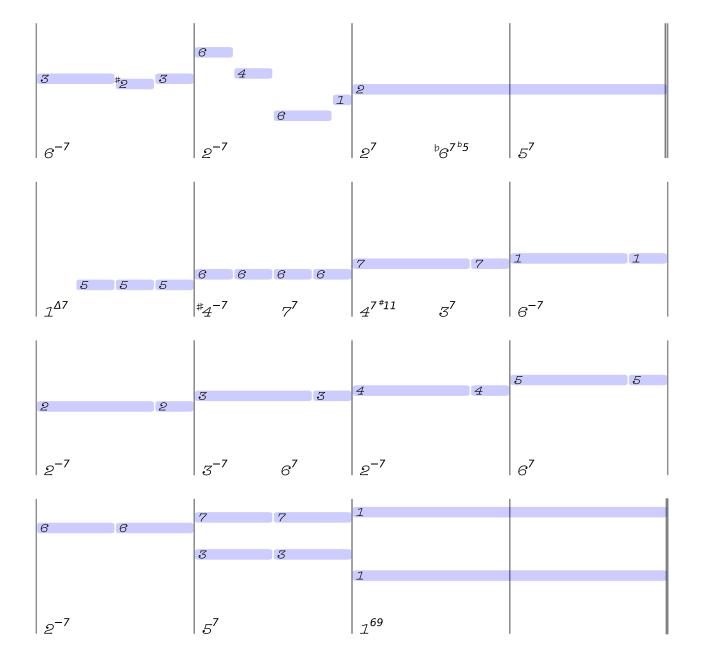


What's New?

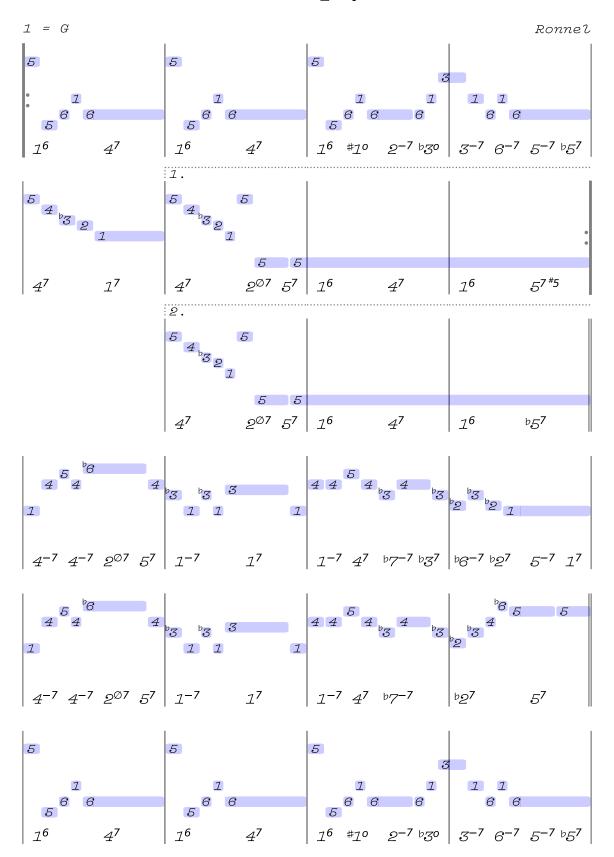


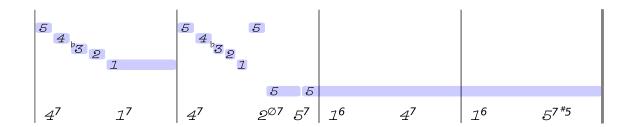




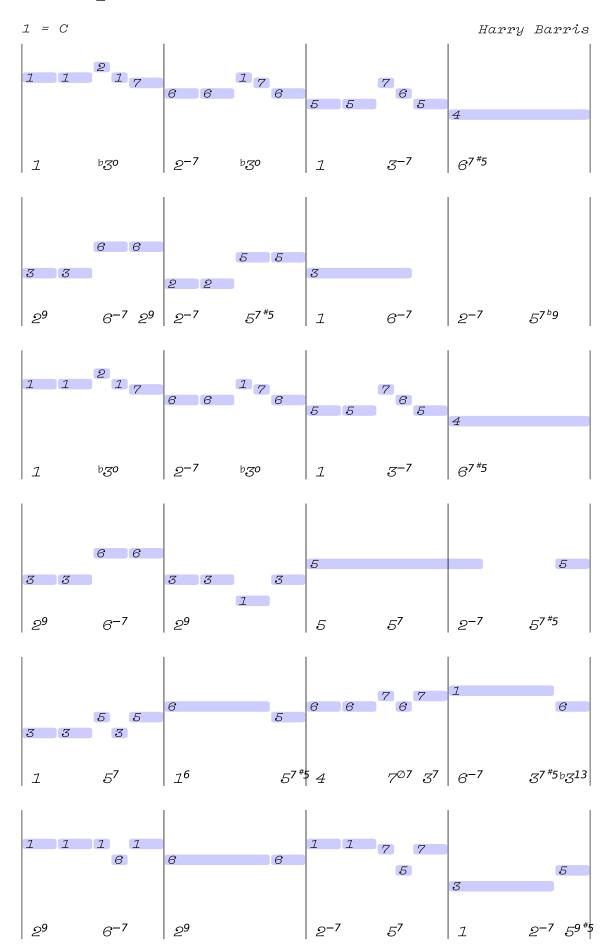


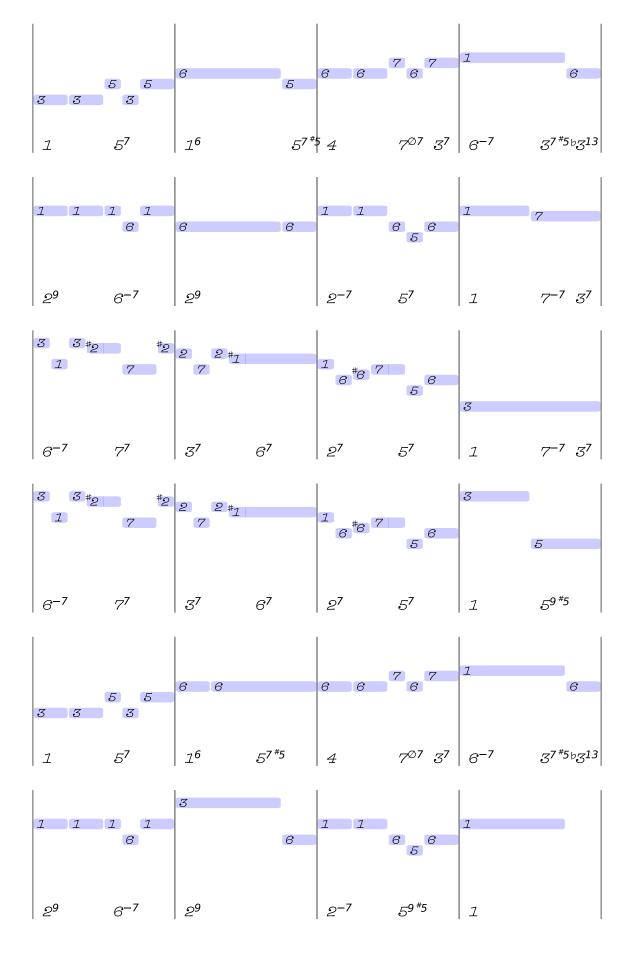
Willow Weep for Me



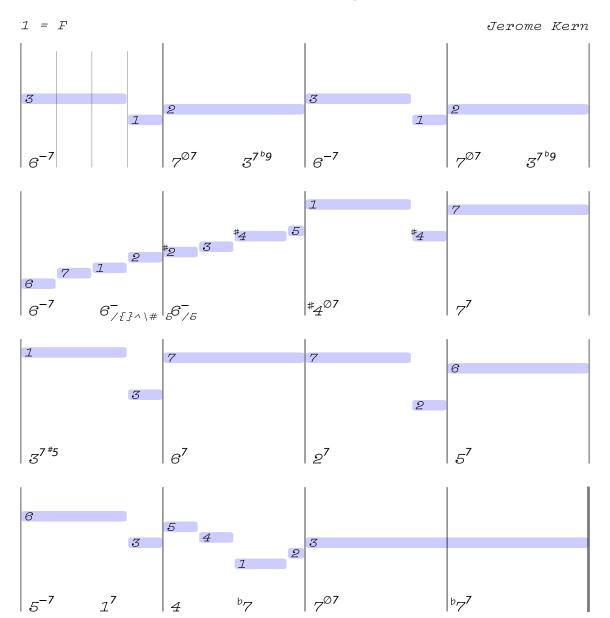


Wrap Your Troubles in Dreams verse





Yesterdays



You Go to my Head

