# BEBOPNET: DEEP NEURAL MODELS FOR PERSONALIZED JAZZ IMPROVISATIONS - SUPPLEMENTARY MATERIAL

#### 1. SUPPLEMENTARY MUSIC SAMPLES

We provide a variety of MP3 files of generated solos in: https://shunithaviv.github.io/bebopnet

Each sample starts with the melody of the jazz standard, followed by an improvisation whose duration is one chorus. Sections BebopNet in sample and BebopNet out of sample contain solos of Bebop-Net without beam search over chord progressions in and out of the imitation training set, respectively. Section Diversity contains multiple solos over the same standard to demonstrate the diversity of the model for user-4. Section Personalized Improvisations contain solos following the entire personalization pipeline for the four different users. Section Harmony Guided Improvisations contain solos generated with a harmonic coherence score instead of the user preference score, as described in Section 3.2. Section Pop songs contains solos over the popular non-jazz song. Some of our favorite improvisations by BebopNet are presented in the first section, Our Favorite Jazz Improvisations.

# 2. METHODS

# 2.1 Dataset Details

A list of the solos included in our dataset is included in section 4.

# 2.2 Musical Preference Labeling System

A figure of our CRDI variant is presented in Figure 1<sup>-1</sup>.

# 2.3 Beam Search

A pseudo code of the beam search  $\psi$  procedure is presented in Algorithm 1.

# 2.3.1 Beam Search - Complexity Analysis

In terms of time complexity, for every time step, we forward the b sequences of length t through the two networks  $f_{\theta}$  and  $g_{\phi}$ . A naïve implementation would amount to  $\mathcal{O}(b \cdot t^2)$  time complexity and  $\mathcal{O}(b \cdot t)$  space complexity. Using simple bookkeeping, passing the entire sequences through the networks can be avoided, thus reducing time complexity to  $\mathcal{O}(b \cdot t)$  as well. We note that in modern frameworks, it is natural to efficiently implement the multiple forwards through the network in parallel as one would forward a batch.



**Figure 1**. Digital CRDI controlled by a user to provide continuous preference feedback.

# **Algorithm 1:** Score-based beam search $\psi$

```
Input: jazz model f_{\theta}, score model g_{\phi}, batch size b,
            beam size k, update interval \delta, input
            sequence X_{\tau}^{in} = x_1 \cdots x_{\tau} \in \mathcal{X}^{\tau}
Output: sequence X_{\tau+T} = x_1 \cdots x_{\tau+T} \in \mathcal{X}^{\tau+T}
V_b = [X_\tau^{in}, X_\tau^{in}, ..., X_\tau^{in}] \in \mathcal{X}^{\tau \times b};
scores = \begin{bmatrix} -1, -1, ..., -1 \end{bmatrix} \in \mathcal{R}^b
                          b times
for step t in \tau, \tau + 1, ..., \tau + T do
      for sequence X_t^i in V_b do
             Pr(s_{t+1}|X_t^i, c_{t+1}^i) = f_{\theta}(X_t^i, c_{t+1}^i);
            s_{t+1}^i \sim Pr(s_{t+1}|X_t^i, c_{t+1}^i);
             \begin{aligned} x_{t+1}^i &= (s_{t+1}^i, c_{t+1}^i); \\ X_{t+1}^i &= x_1^i \cdots x_{t+1}^i; \\ scores[i] &= g_\phi(X_{t+1}^i) \end{aligned} 
      end
      V_b = [X_{t+1}^1, X_{t+1}^2, ..., X_{t+1}^b] \in \mathcal{X}^{(t+1) \times b};
      if (t - \tau) \mod \delta = 0 then
            topk\_inds = k-argmax scores;
            for i in 1, 2, ..., b do
                 V_b[i] = V_b[topk\_inds[i \mod k]]
      end
end
X_{\tau+T} = argmax \ score(V_b)
```

Image credit: https://github.com/Andrew-Shay/
python-gauge

#### 3. EXPERIMENTS

# 3.1 Hyper-parameter search

Hyper-parameters for both models were selected by performing a manual coarse-to-fine search. Table 1 displays considered and chosen hyper-parameters for  $f_{\theta}$ . For user preference metric learning, we chose hyper-parameters using five-fold cross-validation over the training set. The five models used for cross-validation were later combined as an ensemble model. We show the considered hyper-parameters in Table 2. Table 3 presents the hyper-parameters considered for the beam search.

#### 3.2 Harmonic Guided Generation

An alternate known generative approach to the one we propose in our paper is to maximize a predefined reward function based on music theory, see, e.g., [1, 2], rather than a user-specific metric. This approach, similar to "reward hacking" common in RL [3], may lead to undesired results. To examine a simple baseline using this method, we generated samples from BebopNet that are optimized to play notes within the harmony. We then used the harmony coherence metric (for scales), as discussed in Section 6 in our paper, and applied beam-search with it. The resulting optimized solos successfully maximized this harmonic coherence metric. One can listen to the generated solos that appear in the supplementary music samples. Perhaps unsurprisingly, the use of this handcrafted metric resulted in a degraded performance where the solos were biased to prefer repeating notes that match the chord.

## 3.3 Per-User Personalization

# 3.3.1 Elicitation Process

We applied our proposed pipeline on four users, all of whom are amateur jazz musicians. Each of the users has a few years of experience in jazz improvisation, however, music is not their main profession. For each user, the elicitation process took place in one session of 5 hours in front of a desktop. The users used the computer keyboard arrows to change the CRDI meter while they listened to the improvisations with headphones. Before playing each improvisation, the name of the standard over which the improvisation is played is shown. The user may choose to play the melody of the standard before listening to the improvisation to familiarize themselves with the standard.

# 3.3.2 Results

Below we present the analysis for all users. Figures 2, 3, 4, 5, present the histograms of predictions over sequences from the validation set for all users. Table 4 presents the thresholds selected for selective prediction for each user. Different users indeed exhibit different taste. One such contrast is the first-order statistics of users 1 and 2. While user-1 labeled a large proportion of the data as negative, user-2 labeled most of it as positive. In contrast to the two above, user-3 has a high level of neutral sequences, which may indicate uncertainty in his preference. In Figure 6 we

can see a similar behavior in all the users' models  $g_{\phi}$ : the beam size increases the score obtains grows up to an optimal point. A noticeable improvement of the user preference score is achieved for all the users, as we compare the initial score for BebopNet (when  $beam_width=1_1$ ) to the top score achieved with beam search and the preference model.

## 3.4 Plagiarism Analysis

As described in Plagiarism section, we present here the plagiarism analysis results. Table 3.4 presents the average longest sub-sequence between any two artists. The diagonal of this table represents "self-plagiarism". Figure 7 displays the percent of identical sequences in length n per artist.

Hyper-parameter	Lowest considered	Top considered	Chosen	
Number of layers	2	4	3	
Learning rate	$1e^{-3}$	5	$5e^{-1}$	
Weight decay	$1e^{-7}$	$1e^{-2}$	$1e^{-6}$	
Dropout	0	0.8	0	
Number of epochs	100	600	500	
Batch size	32	512	256	
Sequence Length	8	150	100	

Table 1. Hyper-parameter search: considered range and chosen values for note prediction

Hyper-parameter	Lowest considered	Top considered	Chosen	
Pitch embedding size	64	1024	256	
Duration embedding size	64	1024	256	
Hidden size	128	2048	512	
Number of layers	1	4	3	
Learning rate	$1e^{-2}$	5	$1e^{-1}$	
Weight decay	$1e^{-7}$	$1e^{-2}$	$1e^{-6}$	
Dropout	0.4	0.8	0.9	
Number of epochs	50	200	100	
Batch size	32	64	32	
Sequence Length	8	32	16	

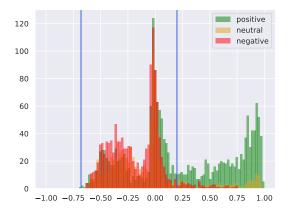
Table 2. Hyper-parameter search: considered range and chosen values for user preference metric learning

Hyper-parameter	Lowest considered	Top considered	Chosen	
Beam width	2	500	32	
k	2	100	8	
Beam depth	1 note	4 measures	2 measures	

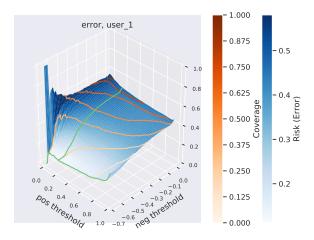
Table 3. Hyper-parameter search: considered range and chosen values for the beam search

User	$eta_1$	$\beta_2$
1	-0.679	0.198
2	-0.999	0.128
3	-0.515	0.086
4	-0.865	0.158

**Table 4**.  $\beta_1, \beta_2$  for every user.  $\beta_1, \beta_2$  are defined to be the thresholds that yield minimum error on the contour of 25% coverage.

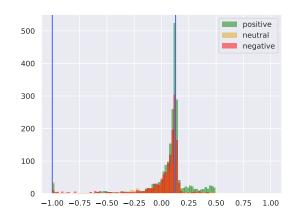


i Histogram of predictions - user 1

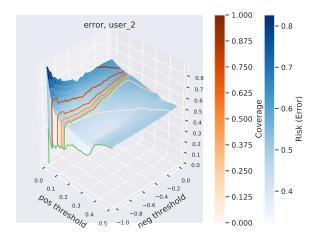


ii Risk-coverage plot - user 1

**Figure 2.** User 1: 2i Predictions of the preference model on sequences from a validation set. Green: sequences labeled with a positive score  $(y_{\tau} > 0)$ ; yellow: neutral  $(y_{\tau} = 0)$ ; red: negative  $(y_{\tau} < 0)$ . Blue vertical line indicates thresholds  $\beta_1, \beta_2$  used for selective prediction. 2ii Risk-coverage plot for the predictions of the preference model.  $\beta_1, \beta_2$  (green lines) are defined to be the thresholds that yield minimum error on the contour of 25% coverage.

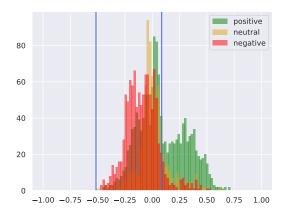


i Histogram of predictions - user 2

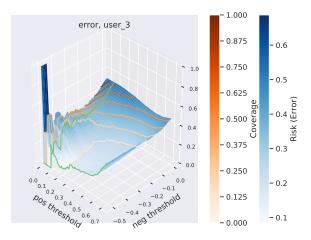


ii Risk-coverage plot - user 2

**Figure 3**. User 2: 3i Predictions of the preference model on sequences from a validation set. Green: sequences labeled with a positive score  $(y_{\tau}>0)$ ; yellow: neutral  $(y_{\tau}=0)$ ; red: negative  $(y_{\tau}<0)$ . Blue vertical line indicates thresholds  $\beta_1,\beta_2$  used for selective prediction. 3ii Risk-coverage plot for the predictions of the preference model.  $\beta_1,\beta_2$  (green lines) are defined to be the thresholds that yield minimum error on the contour of 25% coverage.

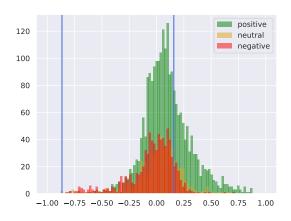


i Histogram of predictions - user 3

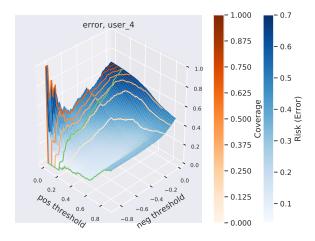


ii Risk-coverage plot - user 3

**Figure 4.** User 3: 4i Predictions of the preference model on sequences from a validation set. Green: sequences labeled with a positive score  $(y_{\tau} > 0)$ ; yellow: neutral  $(y_{\tau} = 0)$ ; red: negative  $(y_{\tau} < 0)$ . Blue vertical line indicates thresholds  $\beta_1, \beta_2$  used for selective prediction. 4ii Risk-coverage plot for the predictions of the preference model.  $\beta_1, \beta_2$  (green lines) are defined to be the thresholds that yield minimum error on the contour of 25% coverage.

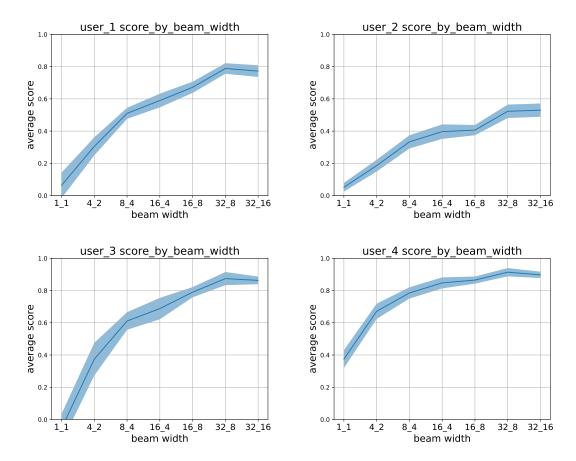


i Histogram of predictions - user 4



ii Risk-coverage plot - user 4

**Figure 5**. User 4: 5i Predictions of the preference model on sequences from a validation set. Green: sequences labeled with a positive score  $(y_{\tau} > 0)$ ; yellow: neutral  $(y_{\tau} = 0)$ ; red: negative  $(y_{\tau} < 0)$ . Blue vertical line indicates thresholds  $\beta_1, \beta_2$  used for selective prediction. 5ii Risk-coverage plot for the predictions of the preference model.  $\beta_1, \beta_2$  (green lines) are defined to be the thresholds that yield minimum error on the contour of 25% coverage.



**Figure 6.** User Score vs. Beam Width: As we increase the width of the beam, we get a higher score for generated solos using the user preference model. x-axis - b\_k combinations of beam width b and parameter k used. Shaded area represents the 95% percentile of the confidence interval. Notice the initial point of beam width 1\_1 representing the score for improvisations generated by BebopNet without personalization.

Name	Adderley	Gordon	Getz	Parker	Rollins	Stitt	Woods	Ammons	Mean	Ours
Adderley	4	6	6	4.7	5.7	4.5	5	4.5	5	6.2
Gordon	3.4	6.4	5.1	4.2	4.6	3.8	3.5	4.2	4.4	4.6
Getz	3.3	4.6	5.7	4.4	4.2	3.8	3.5	4.2	4.2	4
Parker	3.7	5	5.1	6	5.1	4.1	3.6	5	4.7	4.3
Rollins	3.6	4.9	4.6	4.4	4.7	3.8	3.5	4.2	4.2	4.1
Stitt	4	7	7.2	5.6	5	10.3	4.1	5.6	6.1	4.7
Woods	4.1	5	5.8	4.8	5.4	4.4	5.4	5.1	5	3.8
Ammons	3.3	4.8	4.8	3.9	4.3	4	3.6	5.3	4.2	3.9
Mean	3.7	5.5	5.5	4.7	4.9	4.8	4	4.8	-	4.4
Ours	2.7	3.9	3.8	3	3.4	2.8	2.8	3.6	3.3	3.8

**Table 5**. Plagiarism among 8 jazz saxophone giants. Element  $x_{a,b}$  in the table is the average largest sub-sequence in a solo of artist a (row names) found in any solo of artist b (column names).

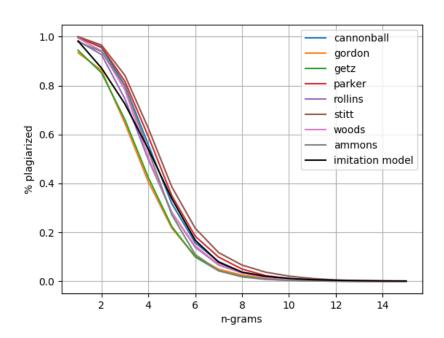


Figure 7. Percent of common phrases of length n-gram length. Our jazz model is in black (imitation model).

# 4. JAZZ DATASET (XML FILES)

- 2 Autumn Leaves Sonny Stitt Good Life
- 003 Tenor Madness Coltrane Rollins Prestige
- 004 Serpents Tooth Take 1 Rollins and Bird
- 5 Serpents Tooth Rollins Bird Take 2
- 9 Autumn Leaves Stitt Ammons Boss Tenors
- 12 Scrapple from the Apple Dexter Gordon Our Man in Paris
- 15 Just Friends Bird with Strings
- 38 Summertime Stitt A Jazz Message
- 40 Ive Got Rhythm Stitt Tune up
- 073 P208-209 GIRL FROM IMPANEMA GETZ
- 85 My Man Benny Woods
- 115 Blue Seven Sonny Rollins
- 126 I Remember You Charlie Parker Verve
- 134 God Bless The Child Rollins
- 150 Four Rollins Live
- 156 Cheese Cake Dexter Gordon Go
- 162 I Want More Dexter Gordon
- 163 For Regulars Only Alt Dexter Gordon
- 164 Airegin Sonny Rollins
- 173 I Cant Give You Anything But Love Stitt
- 174 Soon Cannonball
- 212 Webb City Sonny Stitt Constellation
- 218 Embraceable You Phil Woods Cool Woods
- 219 Yesterdays Phil Woods Just Friends
- 224 Out of Nowhere Stan Getz Roost
- 228 Jumpin the Blues Charlie Parker J McShann
- 239 Pennies From Heaven Stan Getz Roost
- 242 St Thomas Sonny Rollins
- 255 Ornithology Charlie Parker Roost Live
- 267 Im Forever Blowing Bubbles Charlie Parker J McShann
- 285 Cherokee Charlie Parker Trio
- 288 My Heart Tells Me Charlie Parker
- 295 Walkin Phil Woods This is How I Feel About Jazz
- 299 Indian Summer Phil Woods The NY Scene
- 300 Groovin High Charlie Parker
- 311 Things Are Getting Better Cannonball Adderley
- 348 Im A Fool To Want You Dexter Gordon Blue Note
- 361 Moritat Sonny Rollins Saxophone Collossus
- 381 Heres That Rainy Day Stan Getz for Lovers
- 382 Cry Me A River Dexter Gordon Blows Hot and Cool
- 391 On a Slow Boat To China Stan Getz Soul Eyes
- 394 Line For Lyons Stan Getz Chet Baker Live in Sweden part1
- 394 Line For Lyons Stan Getz Chet Baker Live in Sweden part2
- 395 Ernies Tune Dexter Gordon Blue Note
- 404 Daddy Plays The Horn Dexter Gordon
- 408 Everybodys Somebodys Fool Dexter Gordon Blue Note
- 424 Dont Explain Dexter Gordon A Swingin Affair
- 428 This Cant Be Love Stan Getz in HiFi
- 429 There Will Never Be Another You Sonny Sitt Roost
- 430 Ratio Sonny Stitt In The Beginning
- 453 Ornithology Sonny Stitt Stitt play Bird
- 458 As Time Goes By Dexter Gordon Round Midnight
- 469 Our Love is Here to Stay Phil Woods Jazz For The Carraige Trade
- 480 April in Paris Charlie Parker with Strings
- 529 Sunshower Stan Getz Ballads n Bossas The Lost Sessions
- 534 E Luxo So Stan Getz Jazz Samba
- 536 Hush a Bye Stan Getz Soul Eyes

- 551 O Grande Amor Stan Getz Sweet Rain
- 557 Manha de Carnaval Getz Big Band Bossa Nova
- 560 Stans Blues Getz Gilberto 2
- 594 Billies Bounce Charlie Parker Take 5
- 622 Nows The Time Take 3 Bird Savoy
- 625 Tanya Dexter Gordon 1 Flight Up
- 627 Nows The Time Take 4 Bird Savoy
- 638 So Danco Samba Stan Getz w Gilberto
- 643 Clear Cut Boogie Rollins Global Warming
- 644 I remember You Gentle Jug Gene Ammons
- 659 Star Eyes Dexter Art of the Ballad
- 670 Vivo Sohando Stan Getz Gilberto
- 679 Im Just Waiting on A Friend Sonny Rollins Stones Tattoo You
- 690 WNEW Stan Getz and Bill Evans
- 712 Laura Charlie Parker With Strings
- 722 Nobody Else But Me Stan Getz Plays
- 738 Hanky Panky Dexter Gordon Blue Note
- 741 Doralice Stan Getz Gilberto
- 763 Corcovado Cannonball Adderleys Bossa Nova
- 766 Moonlight In Vermont Stan Getz for Lovers
- 787 I Know That You Know Rollins Sonny Side Up
- 793 Salvador Sonny Rollins This is What I Do
- 797 Blue Room Sonny Rollins Rogers Hart Songbook
- 819 Walkin Bass Phil Woods plays Henry Mancini
- 820 On The Sunny Side of the Street Sonny Stitt Sunny Side Up
- 826 Three Oclock on the Morning Dexter Gordon Go
- 836 Voce e Eu Stan Getz Gilberto 2
- 840 Corcovado Stan Getz w Guest Laurindo Almeida
- 852 Everything Happens to Me Charlie Parker with Strings
- 861 Exactly Like You Stan Getz Ballads
- 867 Have Yourself a Merry Christmas Dexter Gordon
- 871 Counter Clockwise Gene Ammons Boss Tenors
- 871 Counter Clockwise Stitt Jug Boss Tenors
- 914 Love Jumped Out Stan Getz Recorded Fall 61 Tenor Sax
- 935 Summertime Stan Getz The Definative
- 953 Moose The Mooch Charlie Parker
- 982 Anthropology Charlie Parker
- 988 Dewey Square Charlie Parker
- 1006 Boston Bernie Dexter Gordon Long Tall Dexter
- 1019 Meditation Dexter Gordon The Art of the Ballad
- 1039 Girl from Ipanema Getz Live TV Show
- 1052 You Talk the Talk Gene Ammons Greatest Hits of 70s
- 1054 Outra Vez Stan Getz 1984 w guest artist Laurindo Almeida
- 1059 Of Thee I Sing Stan Getz West Coast Jazz 1955
- 1065 Blues For Alice Charlie Parker
- 1070 KC Blues Charlie Parker
- 1078 On a Slow Boat to China Getz Last Recording
- 1129 Manha De Carneval Dexter Gordon Gettin Around
- 1132 Summertime Charlie Parker With Strings
- 1137 Satin Doll Gene Ammons Organ Combos
- 1144 Jordu Stan Getz Jazz Masters 8
- 1152 The Christmas Song Dexter Gordon The Panther
- 1164 Our Love is Here to Stay Dexter Gordon Blue Note
- 1167 Red Top Gene Ammon Johnny Coles Savoy
- 1171 Dr Wu Phil Woods Katy Lied
- 1182 Flick of a Trick Dexter Gordon Gettin Around
- 1184 I Want to be Happy Stan Getz w Oscar Peterson
- 1186 Kateas Dance Gene Ammons Legends of Acid Jazz

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1193 But Not For Me Stan Getz Quintessence V1
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- 1194 One Note Samba Stan Getz au Go Go
- 1197 Samba Triste Stan Getz Rio For Lovers
- 1202 Fuzzy Gene Ammons Savoy Sessions
- 1212 As Time Goes By Dexter Gordon Manhattan Symphony
- 1260 Para Machucar meau Coracao Stan Getz Gilberto
- 1279 Wave Stan Getz YouTube
- 1322 Winter Moon Stan Getz Girl From Ipanema 89
- 1324 Love for Sale Dexter Gordon Go
- 1336 2nd Balcony Jump Dexter Gordon Go
- 1351 Broadway Dexter Gordon Our Man in Paris
- 1396 Soy Califa Dexter Gordon Swinin Affair
- 1405 You Stepped Out Of A Dream Dexter Swingin Affair
- 1419 The Backbone Dexter Gordon A Swinin Affair
- 1429 Until The Real Thing Comes Along Dexter Gordon A Swingin Affair
- 1433 McSplivens Dexter Gordon A Swingin Affair
- 1437 Who Can I Turn To Dexter Gordon Gettin Around
- 1441 Heartaches Dexter Gordon Gettin Around
- 1446 Shiny Stockings Dexter Gordon Gettin Around
- 1451 Le Coiffeur Dexter Gordon Gettin Around
- 1454 Very Saxily Yours Dexter Gordon Gettin Around
- 1488 With a Song in My Heart Sonny Rollins Young Rollins
- 1495 Menina Moca Stan Getz Bossa Nova Years
- 1516 Early Autumn Stan Victor W Herman 56 Tenor Sax
- 1542 Love For Sale Charlie Parker Plays Standards
- 1548 Stanley The Steamer Dexter Gordon Tower of Power
- 1553 East of the Sun Stan Getz wtih European Friends
- 1555 Tinys Tempo Charlie Parker Take 3
- 1558 Tinys Tempo Charlie Parker Take 1
- 1562 Tinys Tempo Charlie Parker Take 2
- 1573 Lady Bird Stan Getz with European Friends
- 1581 Stans Blues Stan Getz Anniversary
- 1605 Doxy Sonny Rolins Bags Groove
- 1623 In Your Own Sweet Way Phil Woods Warm Woods
- 1637 Hershey Bar Stan Getz When the World Was Young
- 1649 Youd Be So Nice to Come Home To Stan Getz Yours and Mine
- 1673 O Grand Amor Stan Getz For Lovers
- 1687 How Insensitive Stan Getz Compact Jazz
- 1837 Society Red Dexter Gordon Doin Allright
- 1949 Four Sonny Stitt No Greater Love
- 2269 Ineta Gene Ammons Red Top
- 2553 Wee Dot Gene Ammons Leo Parker LP 1947-1950 Gene

A Night In Tunisa MCA Bird

A Nightingale Sang in Berkeley SQ Dexter Gordon Gotham City

After Hours Sonny Rollins Sonny Stitt Sonny Side Up - Rollins

All The Things You Are Bird Massey Hall

Anna Gene Ammons Bossa Nova

Anything Goes Stan Getz Mulligan Meets in HiFi Getz

As I Live and Bop Stan Getz Complete Studio Sessions

Autumn In NY Dexter Gordon Daddy Plays the Horn

Autumn Leaves Stan Getz Best of the Roost Years

Autumn Leaves Stan Getz & Kenny Barron

Bikini Dexter Gordon 1943-1947

Blow Mr Dexter Dexter Gordon 1943-1947

Blowin in the Wind Stan Getz

Blowing Reds Top Gene Ammons 1947-1949

Blue Bossa Dexter Gordon Biting the Apple

Blue Monk Dexter Gordon Live at Montreaux

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Blue n Boogie Bird Benedetti d1t1
Blues for Bags Sonny Stitt Only the Blues
Bluing Sonny Rollins Complete Prestige
But Not For Me Gene Ammons Soul Summit
Bye Bye Blackbird Gene Ammons God Bless Jug & Sonny
Bye Bye Blackbird Sonny Stitt Gene Ammons God Bless Jug Sonny
Canadian Sunset Gene Ammons Boss Tenor
Chromatic Aberration Dexter Gordon 43-47
Close Enough For Love Stan Getz The Dolphin
Compulsion Charlie Parker Collectors Item
Compulsion Charlie Parker Sonny Rollins Collectors Item
Concentration Gene Ammons 1947-49
Conception Sonny Rollins Dig
Confirmation Dexter Gordon Daddy Plays the Horn
Cool Cool Daddy Gene Ammons Etta Jones Lonely and Blue
Corcovado Stan Getz Compact Jazz
Crazeology Charlie Parker Take 4 12.17.1947
Crazy Chords Stan Getz 2-fer
Crazy Mary Gene Ammons Free Again
Dancing in the Dark Charlie Parker with Strings
Denial Sonny Rollins Dig
Detour Ahead Stan Getz for Lovers
Dexters Minor Mad Dexter Gordon 1943-1947
Diaper Pin Stan Getz Complete Studio Sessions
Dig Sonny Rollins Jackie McClean Dig - Tenor Sax.
Do What You Do, Do Stan Getz Bossa Nova Years
EAAK Blues Gene Ammons 47-49
Early Autumn Stan Getz 3 Herds 1948
Feijoada Stan Getz Stuttgart 1989
Fools Rush In Stan Getz 1952-1953
For You Sonny Stitt Night Letter
Ginza Samba Stan Getz with Cal Tjader
Going for the Okey Doak Gene Ammons 47-49
Groovin High Charlie Parker Radio 3.23.53 Milt Buckner Trio
Groovy Sambas Cannonball Adderley Bossa Nova
Hairy Sonny Stitt Night Letters
How Deep is the Ocean Stan Getz 1952-1953
I Was Doing Alright Dexter Gordon Doin Alright
Idaho Gene Ammons 47-49
In a Sentimental Mood Sonny Rollins with the MJQ
Indian Summer Stan Getz Quartets
Interlude in Bebop Stan Getz Complete Studio Sessions
It's Only a Paper Moon Sonny Rollins Complete Prestige Sessions
Its Allright With Me Sonny Rollins Workout
Ive Got You Under My Skin Stan Getz Quartets
Ive Grown Accustomed to her Face Brookmeyer Getz B and Friends - Tenor Sax
Ive Told Evry Little Star Sonny Rollins & the Contemporary Leaders
Joy Spring Stan Getz The Dolphin
Jungle Strut Gene Ammons Brother Jug
Just Friends Charlie Parker Cafe Society 1950
Kong Neptune Dexter Gordon One Flight Up
Lady Bird Dexter Gordon Youtube
Landslide Dexter Gordon Dexter Calling
Leaping Leo Gene Ammons Leo Parker LP 1947-1950 Gene Ammons
Lets Fall in Love Stan Getz Gerry Mulligan Meets in HiFi part1
Lets Fall in Love Stan Getz Gerry Mulligan Meets in HiFi part2
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Like Someone In Love Stan Getz The Steamer Lion Roars Gene Ammons L. Parker 1947-1950

Lullaby of Birdland Stan Getz 1952-1953

Man With a Horn Stan Getz Best of Anita O'day

McDougals Sprout Gene Ammons 1947-1949

Misty Dexter Gordon Montmarte Jazzhus 1965

Moonglow Gene Ammons Up Tight

Moose The Mooch Charlie Parker at Storyville 031053

Motens Swing Sonny Stitt Sits in w Oscar Peterson Trio

My Little Suede Shoes Charlie Parker Verve

My Old Flame Sonny Rollins Complete Prestige Sessions

My Romance Gene Ammons Boss Tenor

O Morro Nao Tem Vez Stan Getz Jazz Samba Encore

O Pato Stan Getz

On Rainy Afternoons Stan Getz Children of the World

On a Slow Boat to China Sonny Rollins Prestige Profiles

Our Love is Here to Stay Stan Getz & his Cool Sounds

Out of the Blue Sonny Rollins Dig

Pagan Love Song Gene Ammons Bossa Nova

Pennies From Heaven Stan Getz Complete Studio Session w Jimmy Rainey

Prezervation Stan Getz 2-fer

Rainbow People Dexter Gordon Tower of Power

Red Top Gene Ammons 47-49

Scrapple From the Apple Gerry Mulligan Meets Getz in HiFi

Smile Dexter Gordon Dexter Calling

Soul Shack Sonny Stitt Night Letter

Split Kick Stan Getz Roost Quartets

St Thomas Sonny Rollins You Tube

St Thomas Sonny Stitt Brothers 4

Street Tattoo Stan Getz Cade del Mar

Sugar Coated Gene Ammons 47-49

Tangerine Gene Ammons Jug

Tenderly Dexter Gordon

Tenor Eleven Gene Ammons 1949-1950

That Old Feeling Stan Getz Getz Meets Mulligan in HiFi

The Breeze and I Gene Ammons Up Tight

The Chase Dexter Gordon The Chase Dexter Gordon & Gene Ammons

The Lady in Red Stan Getz Quartets

The Rubaiyat Dexter Gordon Citizen Bop

The Shadow of Your Smile Dexter Gordon A Day in Copenhagen

The Way You Look Tonight Stan Getz Complete Studio Sessions

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Theres a Small Hotel Stan Getz Quartets

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Too Close For Comfort Stan Getz Gerry Mulligan Meets in HiFi part1

Too Close For Comfort Stan Getz Gerry Mulligan Meets in HiFi part2

Too Marvelous For Words Stan Getz Quartets

Watermelon Man Dexter Gordon Freddie Hubbard Takin Off - Dexter

Watermelon Man Dexter Gordon Original Hits

Wave Dexter Gordon Quartet

Whats New Dexter Gordon 1963 YT

Whats New Stan Getz Quartets

Why Don't I Sonny Rollins Blue Note

Windows of the World Stan Getz What the World Needs Now

You Can Depend on Me Dexter Gordon Daddy Plays the Horn

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