

Audio features and evaluation collection

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This is the Supplementary Material for the article entitled “*Quantifying the relevance of locally extracted information for musical instrument recognition from entire pieces of music*”, to appear in the proceedings of the 2011 Conference of the International Society for Music Information Retrieval (ISMIR). It contains the lists of audio features used to train the recognition models (Tables 1 and 2 for the pitched and percussive model, respectively) and a list of the music tracks in the evaluation collection (Table 3). See the main article for more information.

Feature	Statistic	Coefficient
Barkbands	mean	3
Barkbands	var	7, 8, 12, 23
Barkbands	dvar	4, 6, 8
MFCC	mean	2-6, 9-11
MFCC	var	2, 3, 6, 12
MFCC	dmean	6, 7
MFCC	dvar	1, 2
Spectral contrast	mean	0, 2-4
Spectral contrast	var	2-5
Spectral contrast	dmean	5
Spectral contrast	dvar	3, 5
Spectral valleys	mean	0
Spectral valleys	var	5
Spectral valleys	dmean	2, 5
Spectral valleys	dvar	3-5
LPC	mean	10
Tristimulus	mean	0
Tristimulus	var	0, 1
Barkbands spread	dmean	–
Barkbands skewness	mean	–
Spectral strongpeak	mean	–
Spectral spread	mean	–
Spectral spread	dmean	–
Spectral rolloff	mean	–
Spectral dissonance	dmean	–
Spectral dissonance	dvar	–
Spectral crest	mean	–
Spectral crest	var	–
Pitch salience	mean	–
Pitch confidence	mean	–
Pitch confidence	dmean	–

Table 1: Selected features for the pitched model. Legend for the statistics: mean (mean), variance (var), mean of difference (dmean), variance of difference (dvar).

Feature	Statistic	Coefficient
Barkbands	mean	0, 1, 24, 25
Barkbands	var	1
Barkbands	dmean	0, 1, 22
Barkbands	dvar	1, 2, 8, 22
MFCC	mean	1, 4-11
MFCC	var	0
MFCC	dvar	0
Spectral contrast	mean	0
Spectral contrast	dmean	0-2
Spectral valleys	mean	0, 4, 5
Spectral valleys	dmean	1, 2
Spectral valleys	dvar	4
Barkbands spread	var	–
Barkbands spread	dvar	–
Pitch confidence	var	–
Pitch salience	mean	–
Spectral flatness	mean	–
Spectral kurtosis	mean	–
Spectral kurtosis	dmean	–
Spectral spread	mean	–
Spectral spread	dmean	–
Odd2even ratio	dmean	–

Table 2: Selected features for the percussive model. Legend for the statistics: mean (mean), variance (var), mean of difference (dmean), variance of difference (dvar).

Artist	Album Artist	Album	Track	Title	Genre	Annotation
10cc	10cc	The original sound-track	02	I'm not in love	pop	bas / dru / gac / org / pia / unk / voi
AC/DC	AC/DC	Back In Black	01	Hells Bells	met	bas / bel / dru / gel / voi
Acker Bilk	Various Artists	The Heart of Rock 'n' Roll: 1962	20	Stranger on the Shore	j/b	bas / cla / str
Agustin Barrios Mangore	Norbert Kraft	Guitar Favourites	07	Julia Florida	cla	gac
Air France	Air France	No Way Down	02	June Evenings	pop	bas / dru / flu / gel / str / tru / unk / voi
Alexandre Lagoya	Various Artists	Masters of the Guitar	03	Canarios (Sanz)	cla	gac
Alice in Chains	Alice in Chains	Alice in Chains	05	Head Creeps	met	bas / dru / gel / voi
Anathema	Anathema	A Fine Day to Exit	02	Release	roc	bas / dru / gac / gel / unk / voi
Andrew Hill	Various Artists	Blue Note: The Ultimate Jazz Collection	04	Mira	j/b	bas / dru / pia / sax / tru
Angelo Badalamenti	Various Artists	Lost Highway	04	Red Bats With Teeth	j/b	bas / dru / pia / sax
Antonio Orozco	Antonio Orozco	CadizFornia	05	Hoy todo va al revés (feat. Toteking)	roc	bas / dru / gac / gel / org / voi

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Artist	Album Artist	Album	Track	Title	Genre	Annotation
Aphex Twin	Aphex Twin	Drukqs	01	Jynweythek Ylow	d/e	unk
Arnold Schoenberg	Fritz Widmer	Schoenberg:Pierrot Lunaire	14	Nacht	cla	cel / cla / pia / unk / voi
Art Pepper	Art Pepper	Living Legend	05	Lost Life	j/b	bas / dru / pia / sax
Art Pepper	Art Pepper	Roadgame	01	Roadgame	j/b	bas / dru / pia / sax / voi
Arvo Part	Arvo Part	Alina	01	Spiegel im Spiegel	cla	pia / vio
At the Drive-In	At the Drive-In	Relationship of Com- mand	03	One Armed Scissor	roc	bas / dru / gel / pia / unk / voi
Autechre	Various Artists	Artificial Intelligence	08	The Egg	d/e	bas / dru / unk / voi
B.B. King	B.B. King	The Ultimate Collec- tion	43	The Thrill Is Gone	j/b	bas / dru / gel / org / str / voi
Barney Bigard	Barney Bigard	The Ultimate Jazz Archive (Classic Jazz, Ragtime & Dixieland, disc 4)	01	Sugar	j/b	bas / cla / dru / pia / sax / tru
Barney Kessel	Barney Kessel	Let's Cook!	02	Time Remembered	j/b	bas / dru / gel / pia / unk
Bebo & Cigala	Bebo & Cigala	Lagrimas negras	01	Inolvidable	fol	bas / per / pia / voi
Bert Jansch	Bert Jansch	Avocet	01	Avocet	fol	bas / cel / flu / gac / gel / vio

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Artist	Album Artist	Album	Track	Title	Genre	Annotation
Bjork	Bjork	Family Tree	22	Bachelorette	pop	str / voi
Black Sabbath	Black Sabbath	Sabotage	03	Symptom of the Universe	met	bas / dru / gac / gel / voi
Blackmail	Blackmail	Friend or Foe	01	Airdrop	roc	bas / cel / dru / gel / str / unk / voi
Blind Guardian	Blind Guardian	Nightfall in Middle-Earth	09	Mirror Mirror	met	bas / dru / gel / unk / voi
Blind Guardian	Blind Guardian	Somewhere Far Beyond	07	The Bard's Song: In the Forest	met	cel / gac / voi
Bobbi Humphrey	Various Artists	Smooth Jazz Gold	04	You Are the Sunshine of My Life	j/b	bas / dru / flu / gel / org / pia / unk
Booker T. Jones	Booker T. Jones	Potato Hole	01	Pound It Out	roc	bas / dru / gel / org
Boots Randolph	Various Artists	Jukebox Hits of 1963, Volume 1	14	Yakety Sax	fol	bas / dru / gac / sax
Boston	Boston	Boston	01	More Than A Feeling	roc	bas / dru / gac / gel / per / voi
Branford Marsalis	Branford Marsalis	Contemporary Jazz	01	In the Crease	j/b	bas / dru / pia / sax
Branford Marsalis	Branford Marsalis	Renaissance	01	Just One of Those Things	j/b	bas / dru / pia / sax / voi
Brian Eno	Brian Eno	Another Green World	03	St. Elmo's Fire	pop	bas / gac / gel / org / per / pia / unk / voi

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Artist	Album Artist	Album	Track	Title	Genre	Annotation
Brian Eno	Brian Eno	Apollo: Atmospheres & Soundtracks	01	Under Stars	d/e	bas / gel / org / unk
Bud Shank	Various Artists	Blue Berlin	12	What'll I Do (feat. Bob Cooper)	j/b	bas / dru / flu / gel / sax
Buddy DeFranco & Tommy Gumina	Various Artists	Mercury Records Jazz Story (disc 2)	07	Scrapple from the Apple	j/b	acc / bas / cla / dru
Camaron de la Isla	Camaron de la Isla	La leyenda del tiempo	01	La leyenda del tiempo	fol	bas / dru / gac / org / unk / voi
Caravan Palace	Various Artists	Electro Swing	01	Jolie Coquine	pop	bas / dru / gac / gel / unk / vio / voi
Carlo Gesualdo	Carlo Gesualdo	Quarto Libro di Madrigali (La Venexiana)	03	Il Quarto Libro di Madrigali: Io tacero, W. 4 No. 21	cla	voi
Carlos Santana	Carlos Santana	Oneness - Silver Dreams, Golden Reality	01	The Chosen Hour	roc	per / voi
Carole King	Carole King	Tapestry	01	I Feel the Earth Move	pop	bas / dru / gel / pia / voi
Cassia Eller	Cassia Eller	Acustico	05	Partido alto	fol	bas / dru / gac / unk / voi
Chet Atkins & Jerry Reed	Chet Atkins & Jerry Reed	Sneakin' Around	09	Sneakin' Around	j/b	bas / dru / gac / gel / har / per / unk / voi

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Artist	Album Artist	Album	Track	Title	Genre	Annotation
Chet Baker	Chet Baker	'Round Midnight (Live at Salt Peanuts Club)	01	Prayer for the New- born	j/b	bas / dru / pia / sax / tru
Chuck Mangione	Chuck Mangione	Feels So Good	01	Feels So Good	j/b	bas / dru / gac / gel / sax / tru
Clara Nunes	Clara Nunes	Canto das tres racas	01	Canto das tres racas	fol	bas / gac / per / unk / voi
Claude Debussy	Various Artists	Franck/Debussy/Ravel (The Melos Ensem- ble)	05	Sonata for Violin and Piano, L. 140: I. Allegro vivo	cla	pia / vio
Claude Debussy	Various Artists	La musique de Chambre	06	Sonata for Cello & Piano - 1 Prologue	cla	cel / pia
Claude Debussy	Various Artists	La musique de Chambre	11	Sonata for Violin & Piano - 1 Allegro vivo	cla	pia / vio
Claude Debussy	Various Artists	The Classical Collec- tion: Debussy-Poetic Impressions (disc 11)	14	Deux Arabesques in E major	cla	pia
Clifford Brown & Max Roach	Clifford Brown & Max Roach	Verve Jazz Masters 44	02	Star Dust	j/b	bas / dru / pia / str / tru
Coleman Hawkins	Coleman Hawkins	Ultimate Coleman Hawkins	11	Beyond the Blue Horizon	j/b	bas / cel / dru / pia / sax / tru

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Artist	Album Artist	Album	Track	Title	Genre	Annotation
Dave Douglas	Dave Douglas	Strange Liberation	10	The Jones	j/b	bas / dru / org / sax / tru
Deftones	Deftones	Deftones	01	Hexagram	met	bas / dru / gel / voi
Depeche Mode	Depeche Mode	The Singles 86-98	10	World in My Eyes	pop	bas / dru / gel / unk / voi
Depeche Mode	Depeche Mode	Violator	03	Personal Jesus	pop	bas / dru / gel / unk / voi
Doc Watson	Various Artists	Generations of Blue- grass, Vol. 3	02	Deep River Blues	fol	gac / voi
Donald Byrd	Donald Byrd	Black Byrd	01	Flight Time	j/b	bas / bra / dru / flu / gel / pia / tru / unk
Dredg	Dredg	Catch Without Arms	01	Ode to the Sun	roc	bas / dru / gel / unk / voi
Eddie Cleanhead Vinson	Eddie Cleanhead Vinson	The Blues Collection 57: Cleanhead Blues	01	Wee Baby Blues	j/b	bas / dru / gel / pia / sax / voi
Edgar Froese	Edgar Froese	Epsilon in Malaysian Pale	01	Epsilon in Malaysian Pale	d/e	bas / flu / str / unk
Edmond Hall	Edmond Hall	Steamin' and Beamin'	21	Continental Blues	j/b	bas / bra / cla / dru / pia / sax / tro / tru

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Artist	Album Artist	Album	Track	Title	Genre	Annotation
Elton John	Elton John	Honky Chateau	05	Honky Cat	pop	bas / bra / dru / pia / unk / voi
Elvis Presley	Elvis Presley	Elvis Is Back!	01	Stuck on You	pop	bas / dru / pia / voi
Ennio Morricone	Mireille Mathieu	Mireille Mathieu chante Ennio Mor- ricone	01	Un jour tu revien- dras	pop	bas / cel / flu / gac / pia / str / vio / voi
Eric Clapton	Eric Clapton	Complete Clapton	01	I Feel Free	roc	bas / dru / gel / per / pia / voi
Erik Satie	Klara Kormendi	Piano Works (Selec- tion)	26	Trois Gymnopedies: I. Lent et douloureux	cla	pia
Faith No More	Faith No More	Album of the Year	02	Stripsearch	roc	bas / dru / gel / str / unk / voi
Fats Navarro	Fats Navarro	The Fabulous Fats Navarro	04	Boperation	j/b	bas / bra / dru / pia / sax / tro / tru / vib
Felix Mendelssohn	Various Artists	Piano Concertos Nos. 1 & 2	01	II. Adagio (molto sostenuto)	cla	flu / pia / str
Four Tet	Four Tet	Love Cry	01	Love Cry (original version)	d/e	bas / dru / gac / org / unk / voi
Francisco Tarrega	Andres Segovia	The Art of Segovia	01	Recuerdos de la Al- hambra (for Guitar)	cla	gac

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Artist	Album Artist	Album	Track	Title	Genre	Annotation
Franz Schubert	Franz Schubert	Piano Works (disc 1: Sonatas Nos. 14 & 17) (Alfred Brendel)	05	Piano Sonata No. 14 in A minor, Op. posth. 143: D. 784 I. Allegro giusto	cla	pia
Frederic Chopin	Various Artists	unkown album	01	Sonata for cello and piano in G minor Op.65 1. Allegro moderato	cla	cel / pia
Fripp & Eno	Various Artists	A Brief History of Ambient, Volume 1	03	Evening Star	pop	gac / gel / pia / unk
Genesis	Genesis	A Trick of the Tail	02	Entangled	roc	gac / gel / unk / voi
Gheorghe Zamfir	Gheorghe Zamfir	The Lonely Shepherd	01	The Lonely Shepherd	fol	bas / dru / flu / gac / per / str / tru
Gil Scott-Heron & Brian Jackson	Gil Scott-Heron & Brian Jackson	The First Minute of a New Day	01	Offering	j/b	bas / dru / org / voi
Giovanni Pierluigi da Palestrina	Various Artists	Palestrina/Lassus: Masses (Oxford Schola Cantorum)	07	Stabat mater	cla	voi
Gnawa Diffusion	Gnawa Diffusion	Algeria	08	Bleu Blanc Gyrophare	fol	bas / dru / flu / gac / org / tro / unk / voi

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Artist	Album Artist	Album	Track	Title	Genre	Annotation
God Is an Astronaut	God Is an Astronaut	All Is Violent, All Is Bright	02	All Is Violent, All Is Bright	roc	bas / dru / gel / org / str / unk
Gyorgy Ligeti	Various Artists	Journey to the Stars	09	Atmospheres	cla	cla / flu / per / str / tru / unk / vio
HammerFall	HammerFall	Legacy of Kings	01	Heeding the Call	met	bas / dru / gel / voi
Hank Mobley	Hank Mobley	A Slice of the Top	01	Hank's Other Bag	j/b	bas / dru / pia / sax / tru / tub
Harold Budd	Harold Budd	Avalon Sutra	01	Arabesque 3	cla	pia / sax / unk
Harry James	Harry James	Verve Jazz Masters 55	02	Walkin'	j/b	bas / bra / dru / pia / sax / tro
Helmet	Helmet	Aftertaste	01	Pure	met	bas / dru / gel / unk / voi
Herbie Mann & Bobby Jaspar	Herbie Mann & Bobby Jaspar	Flute Flight	02	Bodo	j/b	bas / dru / flu / gel / pia
Iron Maiden	Iron Maiden	Seventh Son of a Seventh Son	04	The Evil That Men Do	met	bas / dru / gel / unk / voi
Isaac Albeniz	Julian Bream	Julian Bream Plays Granados & Albeniz	04	Mallorca, Op. 202	cla	gac
Jackie McLean	Jackie McLean	New Wine In Old Bottles	10	Confirmation	j/b	bas / dru / pia / sax
Jaga Jazzist	Jaga Jazzist	What We Must	06	Mikado	j/b	bas / dru / gac / gel / org / per / tru / unk / voi

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Artist	Album Artist	Album	Track	Title	Genre	Annotation
James Galway	James Galway	Greatest Hits	19	Pennywhistle Jig	fol	bas / bra / dru / flu / gac / hor / str
Jeff Beck	Jeff Beck	The Late 60's With Rod Stewart	01	Hi-Ho Silver Lining	pop	bas / dru / gel / vio / voi
Jelly Roll Morton	Jelly Roll Morton	The Complete Li- brary of Congress Recordings	12	Honkey Tonk Blues	j/b	pia / voi
Jethro Tull	Jethro Tull	Stand Up	11	Living in the Past	roc	bas / dru / flu / gel / per / vio / voi
Jimi Hendrix	Jimi Hendrix	Experience Hendrix: The Best of Jimi Hendrix	01	Purple Haze	roc	bas / dru / gel / unk / voi
Jimmy Guiffre	Jimmy Guiffre	The Life of a Trio	01	Sensing	cla	bas / pia / sax
Jimmy McGriff	Jimmy McGriff	Best Of The Blues	08	Jumpin' the Blues	j/b	bas / dru / gel / org / sax
Jimmy Smith	Various Artists	Verve Jazz Masters 60: The Collection	07	Organ Grinder's Swing	j/b	bas / dru / gel / org / voi
Joanna Newsom	Joanna Newsom	Ys	01	Emily	pop	cel / har / unk / vio / voi
Joe Jackson	Joe Jackson	Night and Day	01	Another World	pop	bas / dru / gel / org / per / pia / unk / voi

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Artist	Album Artist	Album	Track	Title	Genre	Annotation
Johann Sebastian Bach	Andras Schiff	English Suites, BWV 806-811	08	Suite No.3 in G Minor, BWV 808- Prelude	cla	pia
Johann Sebastian Bach	Hilary Hahn	Bach Concertos (Los Angeles Chamber Orchestra)	01	Concerto for Violin, Strings and Continuo	cla	str / vio
Johann Sebastian Bach	Various Artists	Essential Bach	02	Orchestral Suite No. 3: Air	cla	cel / str / vio
John Coltrane	John Coltrane	Blue Train	01	Blue Train	j/b	bas / bra / dru / pia / sax / tro / tru
John Coltrane	John Coltrane	The Very Best of John Coltrane	01	A Love Supreme, Part 1: Acknowledgement	j/b	bas / dru / pia / sax / voi
John McLaughlin	John McLaughlin	Thieves and Poets	07	My Romance	cla	bas / gac
Johnny Dodds	Johnny Dodds	The Ultimate Jazz Archive (Classic Jazz, Ragtime & Dixieland, disc 1)	08	I Can't Say	j/b	bra / gac / obo / pia / tru
Josep Archon	Clara Rockmore	The Art of the Theremin	05	Hebrew Melody	cla	pia / unk
Kate Bush	Kate Bush	Aerial (A Sky Of Honey)	08	Nocturn	pop	bas / dru / gac / gel / org / pia / str / unk / voi

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Artist	Album Artist	Album	Track	Title	Genre	Annotation
Keith Jarrett	Keith Jarrett	Arbour Zena	01	Runes (Dedicated to the unk)	j/b	bas / cel / pia / sax / str
Keith Richards	Keith Richards	Main Offender	01	999	roc	bas / dru / gel / org / voi
Kenny Larkin	Kenny Larkin	Azimuth	10	Q	d/e	dru / unk
Kid Koala	Kid Koala	Basin Street Blues	02	Vacation Island	fol	dru / gac / str / unk / voi
Killing Joke	Killing Joke	Night Time	03	Love Like Blood	roc	bas / dru / gel / org / pia / voi
King Curtis	King Curtis	Soul Meeting	01	Da-Duh-Dah	j/b	bas / dru / pia / sax / tru
Kraftwerk	Kraftwerk	Computerwelt	03	Nummern	d/e	dru / pia / unk / voi
Ladytron	Ladytron	Destroy Everything You Touch	01	Destroy Everything You Touch (radio edit)	d/e	bas / dru / unk / voi
Lali Puna	Lali Puna	Faking the Books	01	Faking the Books	d/e	dru / gac / gel / unk / voi
Laurie Anderson	Laurie Anderson	Mister Heartbreak	04	Kokoku	fol	bas / org / per / unk / voi
Laurindo Almeida & Charlie Byrd	Laurindo Almeida & Charlie Byrd	Tango	01	Orchids in the Moonlight	fol	bas / dru / gac

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Artist	Album Artist	Album	Track	Title	Genre	Annotation
Led Zeppelin	Led Zeppelin	Physical Graffiti (1975) Remaster (2009)	01	Custard Pie	roc	bas / dru / gel / voi
Lee Morgan	Various Artists	Blue Note Blend, Volume 2	13	The Sidewinder	j/b	bas / bra / dru / pia / sax / tru
Leo Kottke	Leo Kottke	6- and 12-String Guitar	03	Ojo	fol	gac
Leonard Cohen	Leonard Cohen	Greatest Hits	04	The Partisan	pop	bas / gac / har / voi
Liona Boyd	Liona Boyd	Camino Latino (Latin Journey)	01	Carretera Libertad (Freedom Highway)	fol	bas / flu / gac / per / unk
Lisa Germano	Various Artists	Underworld	16	From a Shell	pop	bas / gel / pia / str / vio / voi
Love Spirals Down- wards	Love Spirals Down- wards	Ardor	01	Will You Fade	roc	bas / dru / gel / org / unk / voi
Mariza	Mariza	Fado em Mim	01	Oica La O Senhor Vinho	fol	bas / dru / gac / voi
Mark O'Connor	Mark O'Connor	Heroes	08	Sadness, Darlin' Waltz	cla	str
Massimiliano Mora- bito	Massimiliano Mora- bito	Sende na rionette suna	02	Pizzica Pizzica di Ostuni	fol	acc / gac / voi
Massive Attack	Clint Mansell	Pi Original Sound- track	06	Angel	pop	bas / dru / gel / str / unk / voi

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Artist	Album Artist	Album	Track	Title	Genre	Annotation
Mastodon	Mastodon	Crack the Skye	04	The Czar	met	bas / dru / gel / org / pia / voi
Mecanica Popular	Mecanica Popular	Baku: 1922	07	La edad del bronce	fol	dru / unk
Meshuggah	Meshuggah	Catch 33	13	Sum	met	bas / dru / gel / str / unk / voi
Metallica	Metallica	Metallica	08	Nothing Else Matters	roc	bas / dru / gac / gel / org / str / voi
Mike Oldfield	Mike Oldfield	Boxed	04	Argiers	fol	flu / gac
Miles Davis	Miles Davis	Kind of Blue	01	So What	j/b	bas / bra / dru / pia / sax / tru
Mogwai	Mogwai	The Hawk Is Howling	01	I'm Jim Morrison, I'm Dead	roc	bas / dru / gel / pia / str / unk
Mose Allison	Mose Allison	I Don't Worry About a Thing	01	I Don't Worry About a Thing	j/b	bas / dru / pia / voi
New Order	New Order	International	02	Blue Monday	d/e	bas / dru / gel / org / unk / voi
Niccolo Paganini	Eliot Fisk	24 Caprices, Arranged for Guitar	01	Capriccio No. 1 in E major	cla	gac
Nine Inch Nails	Nine Inch Nails	The Fragile	12	The Great Below	d/e	bas / cel / dru / gac / pia / unk / voi
Norah Jones	Norah Jones	Come Away With Me	05	Come Away With Me	pop	bas / dru / gel / pia / voi

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Artist	Album Artist	Album	Track	Title	Genre	Annotation
Nusrat Fateh Ali Khan	Various Artists	10 out of 10	02	Mustt Mustt	pop	acc / bas / gel / voi
Onetwo	Onetwo	Instead	02	The Theory of Everything, Part 2	pop	bas / dru / pia / str / unk / voi
Pantera	Pantera	The Great Southern Trendkill	09	Floods	met	bas / dru / gel / unk / voi
Papa John Creach	Papa John Creach	Papa Blues	01	Sweet Life Blues	j/b	bas / dru / gel / pia / sax / vio
Pet Shop Boys	Pet Shop Boys	Minimal (The Remixes)	01	Minimal (radio edit)	d/e	bas / dru / gel / str / unk / voi
Philip Glass	Philip Glass	Glass Reflections	03	Mishima	cla	cel
Pink Floyd	Pink Floyd	A Saucerful of Secrets	03	Set the Controls for the Heart of the Sun	roc	bas / dru / org / unk / voi
Portishead	Portishead	Roseland NYC Live	10	Roads	pop	bas / dru / gel / str / unk / voi
Portugal. The Man	Portugal. The Man	Waiter: You Vultures!	02	Gold Fronts	roc	bas / dru / gac / gel / pia / unk / voi
Propaganda	Various Artists	Electric 80's (disc 2)	08	Dr Mabuse (13th Life mix)	d/e	bas / dru / unk / voi
Queens of the Stone Age	Queens of the Stone Age	Songs for the Deaf	08	Go With the Flow	met	bas / dru / gel / pia / unk / voi

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Artist	Album Artist	Album	Track	Title	Genre	Annotation
Radiohead	Radiohead	OK Computer	01	Airbag	roc	bas / cel / dru / gel / per / str / unk / voi
Rage Against the Machine	Rage Against the Machine	Rage Against the Machine	05	Bullet in the Head	met	bas / dru / gel / voi
Rahsaan Roland Kirk	Rahsaan Roland Kirk	Volunteered Slavery	01	Volunteered Slavery	j/b	bas / dru / per / pia / sax / tru / voi
Ray Charles	Ray Charles	The Very Best Of Ray Charles	14	Georgia on My Mind	pop	bas / dru / pia / str / voi
Refused	Refused	The Shape of Punk to Come	06	New Noise	met	bas / dru / gel / unk / voi
Reuben Wilson	Various Artists	Blue Note Trip, Vol- ume 3	07	Inner City Blues (Makes Me Wanna Holler)	j/b	bas / dru / gel / org / sax
Richard Groove Holmes	Richard Groove Holmes	Good Vibrations	01	Good Vibrations	j/b	bas / dru / gel / org / sax
Richard Thompson	Richard Thompson	The Life and Music of Richard Thomp- son (Walking the Long Miles Home - Muswell Hill to LA)	01	Now That I Am Dead	pop	bas / gac / voi

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Artist	Album Artist	Album	Track	Title	Genre	Annotation
Robert Rich & B. Lustmord	Robert Rich & B. Lustmord	Stalker	02	Synergistic Perceptions	d/e	bas / unk / voi
Rufus Wainwright	Rufus Wainwright	Poses	03	Poses	pop	cel / pia / str / vio / voi
Saratoga	Saratoga	El clan de la lucha	08	Si amaneciera	fol	bas / dru / gac / gel / str / voi
Sergej Rachmaninoff	Various Artists	unknown album	05	Sonata for cello and piano in G minor Op.19 1. Lento. Allegro moderato	cla	cel / pia
Sigur Ros	Sigur Ros	Hvarf/Heim	02	Hljomalind	pop	bas / dru / gel / unk / voi
Sondre Lerche	Sondre Lerche	Dan in Real Life	03	I'll Be OK	pop	bas / dru / gel / pia / unk / voi
Sonny Rollins	Sonny Rollins	Sonny Rollins, Vol. 1	04	Sonnysphere	j/b	bas / dru / pia / sax / tru
Stanley Turrentine	Stanley Turrentine	Hustlin'	01	Trouble (No. 2)	j/b	bas / dru / gel / org / sax
Steve Miller Band	Steve Miller Band	Fly Like An Eagle	03	Fly Like An Eagle	pop	bas / dru / gel / org / unk / voi
Steve Winwood	Steve Winwood	Arc Of A Diver	06	Night Train	pop	bas / dru / gel / org / voi

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Artist	Album Artist	Album	Track	Title	Genre	Annotation
Sufjan Stevens	Sufjan Stevens	Michigan	02	All Good Naysayers, Speak Up! Or Forever Hold Your Peace!	pop	bas / dru / gac / gel / org / pia / unk / voi
Super Poti Poti	Super Poti Poti	De Les Millors Concons Populars Catalenes	01	El Patufet	fol	bra / dru / flu / unk / voi
Super Poti Poti	Super Poti Poti	De Les Millors Concons Populars Catalenes	21	La Lluna La Pruna	fol	dru / gel / unk / voi
T-Bone Walker Quintet	Various Artists	Blues Classics 1945-1949	16	Bobby Sox Blues	j/b	bas / dru / gel / pia / sax / tru / voi
Talk Talk	Talk Talk	Spirit of Eden	05	I Believe in You	pop	bas / dru / gel / har / org / pia / str / unk / voi
Tangerine Dream	Tangerine Dream	Exit	01	Kiew Mission	d/e	dru / unk / voi
Telefon Tel Aviv	Telefon Tel Aviv	Immolate Yourself	04	Helen of Troy	d/e	dru / unk / voi
The Beatles	The Beatles	1	16	Eleanor Rigby	pop	str / voi
The Beatles	The Beatles	Revolver	14	Tomorrow Never Knows	pop	bas / dru / gel / pia / unk / voi
The Beatles	The Beatles	Sgt. Pepper's Lonely Hearts Club Band	03	Lucy in the Sky With Diamonds	pop	bas / dru / gel / voi

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Artist	Album Artist	Album	Track	Title	Genre	Annotation
The Cardigans	The Cardigans	Gran turismo	08	My Favourite Game	pop	bas / dru / gel / org / unk / voi
The Cure	The Cure	Faith	07	The Drowning Man	pop	bas / dru / gel / unk / voi
The Dice Man	Various Artists	Artificial Intelligence	01	Polygon Window	d/e	bas / dru / unk
The Dillinger Escape Plan	The Dillinger Escape Plan	Ire Works	11	Dead as History	met	bas / dru / flu / gac / gel / org / pia / unk / voi
The Haunted	The Haunted	The Dead Eye	11	The Failure	met	bas / dru / gac / gel / voi
The Human League	The Human League	Reproduction	06	Empire State Human	d/e	dru / unk / voi
The J.B.'s	The J.B.'s	Funky Good Time: The Anthology	16	Gimme Some More (very live)	j/b	bas / bra / dru / gel / per / tro / voi
The Mars Volta	The Mars Volta	Frances the Mute	02	The Widow	roc	bas / dru / gac / gel / org / str / tru / unk / voi
The Police	The Police	Synchronicity	01	Synchronicity I	pop	bas / dru / gel / org / unk / voi
The Raconteurs	The Raconteurs	Broken Boy Soldiers	02	Store Bought Bones	roc	bas / dru / gel / org / voi
The Shamen	Various Artists	Turn Up the Bass, Volume 15	10	Move Any Mountain	pop	bas / dru / unk / voi

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Artist	Album Artist	Album	Track	Title	Genre	Annotation
Thelonious Monk	Thelonious Monk	Thelonious Monk Plays Duke Ellington	01	It Don't Mean a Thing (If It Ain't Got That Swing)	j/b	bas / dru / pia
Thursday	Thursday	A City by the Light Divided	01	The Other Side of the Crash/Over and Out (Of Control)	met	bas / dru / gel / pia / unk / voi
Tierra Santa	Tierra Santa	Apocalipsis	01	Neron	met	bas / dru / gel / unk / voi
Tom Waits	Tom Waits	Blue Valentine	01	Somewhere	pop	str / tru / voi
Tomahawk	Tomahawk	Mit Gas	02	Rape This Day	met	bas / dru / gel / org / unk / voi
Tony Scott & Horst Jankowski Trio & Tony Scott	Horst Jankowski Trio	In Concert	02	Yesterdays	j/b	bas / cla / dru / pia
Tool	Tool	Lateralus	09	Lateralus	met	bas / dru / gel / voi
Transistor Transistor	Transistor Transistor	Erase All Name and Likeness	02	And the Body Will Die	met	bas / dru / gel / voi
Trouble Over Tokyo	Trouble Over Tokyo	Pyramides	01	Start Making Noise	pop	dru / gac / unk / voi
U2	Johnny Cash	American III: Soli- tary Man	04	One	pop	gac / org / pia / voi
Wayne Shorter	Wayne Shorter	Speak No Evil	04	Speak No Evil	j/b	bas / bra / dru / pia / sax / tru

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Artist	Album Artist	Album	Track	Title	Genre	Annotation
Wes Montgomery	Wes Montgomery	Movin' Wes	01	Caravan	j/b	bas / bra / dru / gel
Wolfgang Amadeus Mozart	Andrew Manze	3 Violin Concertos (The English Concert)	08	Violin Concerto No. 5 in A major, KV. 219, Turkish: II. Adagio	cla	cla / str / vio
Wolfgang Amadeus Mozart	Arthur Grumiaux	Violin Concertos (Complete)	01	Concerto for Violin and Orchestra No. 1 in B-flat major, K. 207: I. Allegro moderato	cla	str / vio
Wolfgang Amadeus Mozart	Gidon Kremer	Mozart: The Complete Violin Concertos	14	Violin Concerto No. 5 In A Major, KV. 219: Adagio	cla	str / vio
Woody Herman	Woody Herman	Verve Jazz Masters 54	01	Don't Get Around Much Any More	j/b	bas / bra / dru / obo / pia / sax / tro / tru
Wynton Marsalis	Wynton Marsalis	He and She	02	School Boy	j/b	bas / dru / pia / sax / tru
Yann Tiersen	Yann Tiersen	Le Fabuleux Destin d'Amelie Poulain	17	Sur le fil	cla	pia
Yazoo	Yazoo	Upstairs at Eric's	01	Don't Go	d/e	bas / dru / unk / voi
Yes	Yes	Tormato	02	Don't Kill the Whale	roc	bas / dru / gel / pia / str / unk / voi

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Artist	Album Artist	Album	Track	Title	Genre	Annotation
Yngwie J. Malmsteen	Yngwie J. Malmsteen	The Best of 1990-1999	01	Gimme, Gimme, Gimme	met	bas / dru / gel / voi
Zeca Baleiro	Zeca Baleiro	Lado Z	04	Na Subida do Morro	fol	flu / gac / voi
mum	mum	Summer Make Good	02	Weeping Rock, Rock	roc	dru / flu / gac / gel / pia / tru / unk / vio / voi

Table 3: Music tracks used in the evaluation collection. Legend for genres: Rock (roc), Pop (pop), Metal (met), Classical (cla), Jazz & Blues (j/b), Disco & Electronic (d/e), Folk (fol). Legend for instruments: Cello (cel), Clarinet (cla), Flute (flu), acoustic Guitar (gac), electric Guitar (gel), Hammond organ (org), Piano (pia), Saxophone (sax), Trumpet (tru), Violin (vio), singing Voice (voi), Drums (dru), Bass (bas), String section (str), Brass section (bra), Bells (bel), Percussion (per), Trombone (tro), Tuba (tub), Oboe (obo), Harmonica (har), Accordion (acc), Horn (hor), Vibraphone (vib), Unknown (unk).