

Tensorial Description of Chord Progressions: Complementary Scientific Material

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List of tesseract permutations

Permutations followed by a * form the subset of primer preserving permutations.

n°	Permutation															
0*	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	0	1	2	3	4	5	6	7	8	9	12	13	10	11	14	15
2	0	1	2	3	4	5	6	7	8	10	12	14	9	11	13	15
3*	0	2	4	6	1	3	5	7	8	10	12	14	9	11	13	15
4	0	2	4	6	1	3	5	7	8	9	10	11	12	13	14	15
5	0	2	4	6	1	3	5	7	8	9	12	13	10	11	14	15
6	0	1	4	5	2	3	6	7	8	9	10	11	12	13	14	15
7	0	1	4	5	2	3	6	7	8	10	12	14	9	11	13	15
8*	0	1	8	9	2	3	10	11	4	5	12	13	6	7	14	15
9	0	1	8	9	4	5	12	13	2	6	10	14	3	7	11	15
10	0	1	8	9	4	5	12	13	2	3	6	7	10	11	14	15
11*	0	1	4	5	2	3	6	7	8	9	12	13	10	11	14	15
12	0	1	4	5	8	9	12	13	2	3	10	11	6	7	14	15
13	0	1	4	5	8	9	12	13	2	6	10	14	3	7	11	15
14*	0	4	8	12	1	5	9	13	2	6	10	14	3	7	11	15
15	0	4	8	12	1	5	9	13	2	3	6	7	10	11	14	15
16	0	4	8	12	1	5	9	13	2	3	10	11	6	7	14	15
17*	0	2	8	10	1	3	9	11	4	6	12	14	5	7	13	15
18	0	2	8	10	1	3	9	11	4	5	6	7	12	13	14	15
19	0	2	8	10	1	3	9	11	4	5	12	13	6	7	14	15
20	0	1	8	9	2	3	10	11	4	5	6	7	12	13	14	15
21	0	1	8	9	2	3	10	11	4	6	12	14	5	7	13	15
22	0	1	2	3	8	9	10	11	4	6	12	14	5	7	13	15
23	0	1	2	3	8	9	10	11	4	5	12	13	6	7	14	15
24	0	2	4	6	8	10	12	14	1	5	9	13	3	7	11	15
25	0	2	4	6	8	10	12	14	1	3	9	11	5	7	13	15
26	0	4	8	12	2	6	10	14	1	3	5	7	9	11	13	15
27	0	4	8	12	1	3	9	11	2	6	10	14	5	7	13	15
28	0	2	8	10	4	6	12	14	1	3	5	7	9	11	13	15
29	0	2	8	10	4	6	12	14	1	5	9	13	3	7	11	15

Corpus of chord sequences extracted from 45 pop songs

n°	Artist	Title	Section	Sequence															
				C#	C#	F#	F#	G#m	G#m	C#	C#	F#	F#	G#m	G#m	C#	C#		
01	The Beatles	Yellow Submarine	Verse 1	F#m7	A	E	B7	F#m7	A	E	B7	F#m7	A	E	B7	D(9)	E	B7	B7
02	Oasis	Wonderwall	Verse	Cm	Cm	Bb	F5	Cm	Cm	Bb	C5	Cm	Cm	Bb	F5	Cm/Eb	Bb/D	Ab/Eb	F
03	Nightwish	The Crow The Owl and The Dove	Verse	G	G	D/F#	D/F#	Em	Em	Bm/D	Bm/D	C	C	G	G	D	D	D7	D7
04	Claudio Baglioni	Questo Piccolo Grande Amore	Chorus	F	F	C	C	Dm	Dm	Bb	Bb	F	F	C	C	Dm	Dm	Bb	Bb
05	Miley Cyrus	Wrecking Ball	Chorus	D#m	D#m	C#	C#	B	B	A#	A#	D#m	D#m	C#	C#	B	B	A#	F#7
06	The Beach Boys	Good Vibrations	Verse	Am	Am	Dm	Dm	Am	Am	E	E	Am	Am	Dm	Dm	Am	E	Am	Am
07	Tom Jones	Sex Bomb	Verse	Fm	Fm	Fm	Fm	D#	D#	Fm	Fm	G#	G#	G#	G#	D#	D#	Fm	Fm
08	Idir	Sensu	Chorus	G	G	Bm	Bm	A	A	A	D/A	G	G	Bm	Bm	A	A	A	D/A
09	Rihanna	Diamonds	Chorus	C	C	C	C	F	F	F	F	Dm	Dm	G	G	C	CM7	C	CM7
10	Keane	Everybody's Changing	Verse	G	G	D/F#	D/F#	C	C	G/B	Am	D	D	C	C	Am7	D	C	G
11	Fikret Kizilok	Gönlü	Chorus	Dm	Bb	Am	Dm	Bb	F	C	Dm	Dm	Bb	Gm	Dm	Bb	Dm	A	A7
12	Hans Zimmer	He's a Pirate	Theme	C#m7	C#m7	G#7	G#7	C#m7	C	E	E7	F#m	B	E	A	F#m	B	E	A
13	Eric Clapton	Layla	Verse	Ebm	E	B	B	Ebm	E	C#m	C#m	Ebm	E	B	B	Ebm	E	F#	F#
14	Guns n Roses	November Rain	Pre-Solo 1	G	G	GM7/F#	GM7/F#	Em7	Em7	G/D	G/D	C	C	Bm	Cm	G	G	G	F#
15	Green Day	Wake Me Up When September Ends	Chorus	Dm	Dm	Dm7/C	Dm7/C	Bb	Bb	Am7	Am7	Bb	Bb	C	C	C	Dm	Dm	Dm
16	Nektar	Remember the Future Part 2	Path of light	Am	F	C	G	Am	F	C	G	Am	F	C	G	Dm	Dm	G	G
17	Christophe Mae	Belle Demoiselle	Chorus	F	C	G	Am	F	C	G	Am	F	C	G	Am	F	C	G	E7
18	Joe Bonamassa	Different Shades of Blue	Chorus	Am7	Am7	Dm7	Dm7	E7	E7	Am7	Am7	Dm7	Dm7	Am7	Am7	E7	Bb7(b5)	Am7	E7(9+)
19	Django Reinhardt	Minor Swing	Solo	Cm	Cm	Fm7	Fm7	Dm7	G7	Cm	Cm	Ebm7	Ab7	Db	Db	Dm7(b5)	G7	Cm	G
20	Dexter Gordon	Blue Bossa	Theme	E	C#m	E	C#m	E	C#m	E	C#m	E	C#m	E	C#m	A	A	B5	B5
21	Lynyrd Skynyrd	Still Unbroken	Solo	Fm	Fm	Cm	Cm	Db	Db	Ab	Ab	Fm	Fm	Cm	Cm	Db	Db	Ab	Ab
22	Madonna	Way Cool Jr	Chorus	Bm7/D	Bm7/D	Bm7/D	Bm7/D	G	G	G	G	Bm7	Bm7	Bm7	Bm7	G	G	G	G
23	Taylor Swift	Style	Chorus	Cm	Cm	Cm	Bb	Ab	Ab	Ab	Gm	F	F	F	F	Cm	Cm	Bb	Bb
24	Stevie Wonder	Master Blaster	Verse	Em7	Em7	F#m7	Cm6	Em7	Em7	F#m7	Cm6	Em7	Em7	F#m7	Cm6	Em7	Em7	F#m7	Cm6
25	Jamiroquai	Everyday	Verse	C#m7	C#m7	C#m7	B	E	E	B	B	C#m7	C#m7	C#m7	B	A5	A5	F#5	F#5
26	Ratt	Way Cool Jr	Solo	Em	A	D	G	C/E	C/E	E	E7	Am	D	G	C	F	F	B	B7
27	Starmania	le Blues du Businessman	Verse	Bm	Bm	A	A	G	Em7	Bm(9)	Bm(9)	Bm	Bm	A	A	G	Em7	Bm(9)	Bm(9)
28	Pink Floyd	Comfortably Numb	Verse	EM7	EM7	EM7(13)	EM7(13)	Am(4+)	Am(4+)	B(4)	B(4)	FM7/A	FM7/A	E7	E7	Am(b6)	Am(b6)	B(4)	B(4)
29	Yes	Close to the Edge	Organ Transition	Am	G	F	E	Am	G	G7	C	F	C/E	Dm	C	Dm	Am	F	E
30	Marie Myriam	L'Oiseau et l'Enfant	Verse	Em	Em	Em	Em	B	B	B	B	G	G	Am	Am	Em	Em	G	F#
31	Hozier	Take me to Church	Chorus	Gm	Gm	Gm	Gm	Bbm	bbm	C	Fm	Abm	Abm	Abm	Abm	Em	Em	Dbm	Dbm
32	Tim Burton	This is Halloween	Chorus	C#m	C#m	B	B	A	A	B	B	C#m	C#m	B	B	A	A	B	B
33	Celine Dion	My Heart Will Go On [Titanic]	Chorus 1	Em	Em	D	D	Em	Em	D	D	C	C	D	D	Em	Em	D	D
34	Michael Jackson	Beat It	Verse 1	Dm	Dm7M	Dm7	Dm6	Am	Am7M	Am7	Ab7(b5)	Gm	Gm7M	Gm7	Gm6	Gm/Bb	Bbm7M	Em7(b5)	A7(b13)
35	Chico Buarque	O Que Sera	Verse 1	Cm	Cm	Cm	Dm7(b5)/C	Dm7(b5)/C	Am	Am7M	Am7	Cm	Cm	Cm	Eb	Bb	Bb	Cm	G
36	Tim Burton	This is Halloween	Verse 1	G	G	B7	B7	Em	Em	Em7/D	Em7/D	Am	Am	Am7/G	Am7/G	D	D	D7/C	D7/C
37	Edith Piaf	Hymne à l'Amour	Chorus 1	Dm	Dm	Gm	F	A	Gm	F	Dm	Dm	Gm	F	A	A	A	Gm	F
38	Muse	Uprising	Chorus	G	G	D	D	D7	D7	G	G	G	G	C	C	G	D7	G	G
39	Traditional	Happy Birthday to You	Theme	A	A	E7	E7	E7	E7	A	A	A	A	E7	E7	E7	E7	A	A
40	Jacques Brel	Madeleine	Chorus	Db	Db	Ab/C	Ab/C	Bbm	bbm	Fm	Fm	Ebm	Ebm	Ebm	Ebm	Ab	Ab	Ab	Ab
41	Gwen Stefani	The Sweet Escape	Chorus	D	D	D	D	D	D	Bm	A/C#	Em	F#7	Bm	Bm	G	G	D	D
42	Walt Disney	A Whole New World (Aladdin)	Verse	Am	Am	B	B	G7/D	E7	Am	Am	Am	Am	B	B	G7/D	E7	Am	Am
43	Abba	Money, Money, Money	Chorus	G	G	G	G	C	C	Cm6	Cm6	G	C9	C9	Am7	Am7	Am7	D7	D7
44	Edith Piaf	Hymne à l'Amour	Chorus 2	E	D9	C#m	C#m	F#	F#	B	B	E	D9	C#m	C#m	F#	F#	B	B
45	Anne Murray	Danny's Song	Verse																