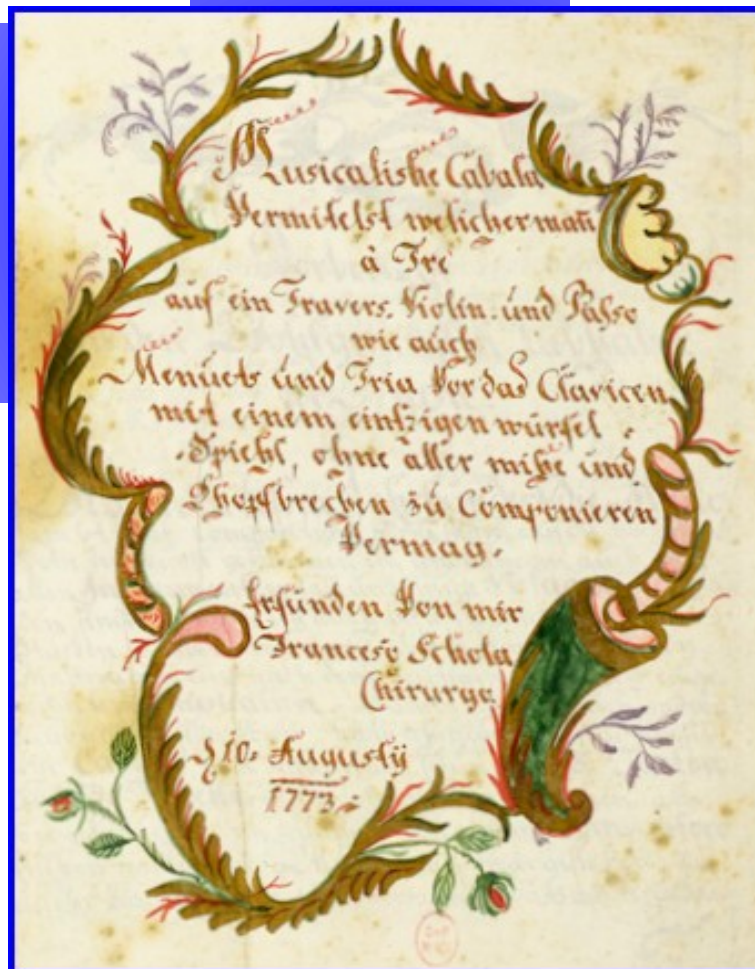# *Musical Dice Game - Minuets and Trios I*

based on

Musicalische Cabala

by Franciscus Schola (1773)

compiled by I. T. Author

Musical Dice Game - Minuets and Trios I

based on
Musicalische Cabala
by Franciscus Schola (1773)

Author:
I. T. AUTHOR

Supervisor:
Dr. Communio SANCTORUM

Contents

1 Introduction[1]

<div align="center">

"Musicalishe Cabala   "Musical Cabala

Vermitelst welcher man   showing a method by which one,

à Tre auf ein Travers. Violin. und Basso   for three: a flute, violin, and basso,

wie auch Menuets und Tria Vor das Clavicen   as well as minuets and trio for the clavier,

mit einem eintzigen würfel-Spiehl,   with a single die,

ohne aller mihe und Khopfbrechen   without any effort and headache,

zu Componieren Vermag.   to compose.

Erfunden Von mir   Discovered by me

Francesu Schola Chirurgu.   Francesu Schola Surgeon

d. 10: Augustÿ 1773."   d. 10: August 1773."

</div>

Thus run the German title and corresponding English translation of the Musical Dice Game (MDG) that was authored by Franciscus Schola in 1773 (Schola, 1773). Rightly and interestingly so, as the Rules provided in this work allow a non-professional musician to generate ("compose") nearly 17.3 decillions (17.3×10^{33}) of MDG minuet-trios. More precisely, the total number of minuet-trios that the rules of the *Musicalische Cabala*, as we would refer to this MDG from here onward, yield is:

$$6^{44} = 17,324,272,922,341,479,351,919,144,385,642,496.$$

A *Musikalisches Würfelspiel* (German for "musical dice game" or MDG) is a system for randomly "generating" (e.g., by using a die or two dice) musical compositions from precomposed options and was quite popular throughout Western Europe in the 18th century. The earliest known MDG is Johann Philipp Kirnberger's *Der allezeit fertige Polonoisen- und Menuettencomponist (1st ed. 1757; rev. 2nd ed. 1783)* (translated from German as "The Ever-Ready Minuet and Polonaise Composer"). Other well-known composers that are to known to have composed a MDG are C.P.E. Bach (*Einfall, einen doppelten Contrapunct in der Octave von sechs Tacten zu machen, ohne die Regeln davon zu wissen (1758)*; translated from German as "A method for making six bars of double counterpoint at the octave without knowing the rules"), Abbé Maximillian Stadler (*Table pour composer des minuets et des Trios à la infinie; avec deux dez à jouer (1780)*; translated from French as "A table for composing minuets and trios to infinity, by playing with two dice"), the latter MDG being also attributed to Franz Joseph Haydn.

Probably the most famous of MDGs is *Musikalisches Würfelspiel K. 516f (1787)*. This MDG was first published by J.J. Hummel in 1793 in Berlin and was republished in 1796 by Nikolaus Simrock in Bonn (as K. 294d or K. Anh. C 30.01). Simrock attributed this work to Wolfgang Amadeus Mozart. It is also known under the title of *Anleitung zum Componieren von Walzern so viele man will vermittelst zweier Würfel, ohne etwas von der Musik oder Composition zu verstehen* (German for "Instructions for the composition of as many waltzes as one desires with two dice, without understanding anything about music or composition") and may have been based on Mozart's manuscript *K. 516f*, written in 1787, consisting of numerous two-bar fragments of music, that appear to be some kind of game or system for constructing music out of two-bar fragments, but contains no instructions nor hints as to the use of dice. An online article by Hideo Noguchi offers a possible explanation for this attribution.

For this book, we generate MDG minuet-trios based on the rules given in *Musicalische Cabala*. Twenty (20) such MDG minuet-trios are given toward the latter part of this book. The scores of these generated minuet-trios were initially written using the `abc` environment of Chris Walshaw, then converted to Scalar Vector Graphics (SVG) images (with corresponding MIDIs) using `abcm2ps` and `abcmidi`, and then preprocessed with Inkscape to be included in LaTeX to produce this book.

---

[1]The information contained in the introduction were culled from the following online resources: Schola (1773), Wikipedia: *Musikalisches Würferspiel* (2017), `https://opus-infinity.org/`, and Mozart's Melody Machine (Peterson, 2001)

2 *Musicalische Cabala*

2.1 Rules

The Rules provided in *Musicalische Cabala* generate minuet-trios consisting of 44 bars/measures that may be divided into three main parts: a first part (Part I) of 12 bars and two additional parts (Parts II and III) of 16 bars each. Each of Parts II and III are composed of an eight-bar minuet and an eight-bar trio. Each part or sub-part is played with a repeat. All told, a total of $88 \times 2 = 44$ bars of music is expected to be played for each *Musicalische Cabala* minuet-trio. Parts I and II are composed for three instruments: a transverse flute, a violin, and a cello, while Part III is composed for a clavier (or harpsichord).

The notes for each bar of the minuet are determined by rolling an ordinary six-sided die 44 times to get a sequence of integers whose terms are elements of the set {1, 2, 3, ,4, 5, 6}. The first 12 toss outcomes will be used to create the eight bars of Part I of the minuet-trio, the next 16 tosses for Part II (eight tosses each for the minuet and trio), and the last 16 tosses for Part III (eight tosses for the minuet, likewise for the trio). The notes for each measure are then obtained by consulting the Cabala given on pages 7 (for Part I), 9 (for Part II), and 11 (for Part III) of *Musicalische Cabala*. The bar numbers corresponding to dice roll outcomes from these three Cabalas are summarized in Table 1 below.

I – For Flute, Violin, and Cello

Part I (12 bars)											
269	279	274	6	10	5	272	276	12	3	270	2
257	268	267	22	21	20	261	264	25	19	259	18
227	238	232	126	125	132	235	230	127	129	233	128
123	134	133	237	231	236	124	130	234	229	131	228
13	17	14	278	262	266	16	23	260	265	24	258
1	11	7	263	273	277	9	4	271	275	8	280

II – For Flute, Violin, and Cello

Part II – Minuet (8bars)								Part II – Trio (8 bars)							
161	165	168	79	167	163	158	75	211	173	218	214	217	213	174	170
153	157	160	89	159	155	166	84	203	178	210	206	209	205	180	179
145	152	149	96	148	150	92	91	195	189	202	198	200	197	190	186
90	97	94	151	93	95	147	146	185	199	192	188	191	187	201	196
81	83	87	156	86	88	85	154	177	207	183	182	184	193	208	204
74	82	80	164	77	76	92	162	169	215	176	172	175	171	216	212

III – For Clavier

Part III – Minuet (8 bars)								Part III – Trio (8 bars)							
135	139	105	102	104	101	70	100	33	37	40	246	39	244	59	34
143	69	111	113	110	109	30	108	41	48	44	223	45	35	241	42
115	29	119	121	118	120	140	116	49	53	56	63	54	43	221	50
107	122	32	28	141	137	117	136	57	64	61	52	222	144	55	58
135	114	72	68	31	27	112	26	219	226	225	47	62	224	46	220
99	106	142	138	71	67	103	66	239	245	243	36	242	73	38	240

Table 1: Table of bar numbers (from the Cabalas) to be used to determine the particular bar (numbered 1 to 280) to be looked up from the Table of Measures (Figures 1 to 10).

To obtain the notes to be played the particular bar of each part (Parts I, II, or III) of the minuet-trio to be constructed, simply look up the notes in the Table of Measures (Figures 1 to 10) for that bar number (numbered 1 to 280) obtained from the appropriate Cabala based on the die roll outcome.

For example, if we are in the process of creating the fifth bar (Bar 5) of Part I of the minuet and the dice outcome was a 3, then we would use the notes in bar number 125 of Figure 5: `[V:1] ^de3/a/4c/4 b/a/g/f/` for the flute, `[V:2] A3/c/4e/4 d/c/B/A/` for the violin, and `[V:5] C,CDD,` for the cello.

2.2 Table of Measures

The Table of Measures for Part I, II, and III of the minuet-trios based on *Musicalische Cabala* (noted for Set 1 only; these is a Set 2 also but is not included here) are given in Figures 1 to 10 that follow.

Figure 1: Table of Measures - Set 1 (Page 1/10)

Figure 2: Table of Measures - Set 1 (Page 2/10)

Figure 3: Table of Measures - Set 1 (Page 3/10)

7

Figure 4: Table of Measures - Set 1 (Page 4/10)

8

Figure 5: Table of Measures - Set 1 (Page 5/10)

9

Figure 6: Table of Measures - Set 1 (Page 6/10)

10

Figure 7: Table of Measures - Set 1 (Page 7/10)

11

Figure 8: Table of Measures - Set I (Page 8/10)

12

Figure 9: Table of Measures - Set 1 (Page 9/10)

Figure 10: Table of Measures - Set I (Page 10/10)

14

3   Related Links

The following are very interesting sites in that they allow the online rendering of MDGs:

- Opus Infinity - Collaborative work of Robbert Harms, Hein Moors, and Suus van Petegem whose goal is to unravel the mystery behind the tables used for generating MDGs. Site visitors can generate MDGs based on works of Kirnberger, Mozart, Stadler/Haydn, Bach, Gerlach, and Callegari (*1st Cahier*). Corresponding audio files (`mid, ogg,` and/or `mp3`) and image files (`pdf` or `png`) are also made available for listening, viewing, or downloading.

- Mozart - A site maintained by John Chuang that allows the site visitor to generate MDGs based on the work of Stadler/Haydn.

- Mozart - A site maintained by Marian Aldenhövel allows the visitor to generate a MDG (user-specified or randomly-generated) and the corresponding audio (`midi, wav`) and image files (`pdf, png`) based on *Musikalisches Würferspiel, K. 516f*.

- `mozart.zip` - This is a Windows software (© 1995 VisionSoft) by John Chuang and Stephen Goodwin that generates MDG based on input from user and is available for *free* from Amaranth Publishing.

- "Mozart - Musical Game in C K. 516f," Mozart Studies Online - The site of Hideo Noguchi that offers an explanation linking *Musikalisches Würferspiel, K. 516f*, and *K. 294d (K. Anh. C 30.01)*.

4   Acknowledgments

5 Twenty (20) Selected Minuets based on *Musicalische Cabala*

This section contains an example of twenty (20) minuet-trios that were generated using the Rules in Section 2.1.

1-2-3-5-2-2-5-1-4-1-3-6-3-4-2-1-6-3-2-4-5-6-5-4-4-1-2-1-5-2-1-3-4-3-2-1-6-4-3-5-5-5-6-6

sf::269:268:232:278:21:20:16:276:234:3:233:280:
:145:97:160:79:77:150:166:146:::177:215:183:188:191:213:180:170:
:135:69:105:121:141:120:30:100::::239:64:56:47:62:224:38:240:
Perm. No.:   17227224908018682787861893990900511

For audio (midi): sf-1-2-3-5-2-2-5-1-4-1-3-6-3-4-2-1-6-3-2-4-5-6-5-4-4-1-2-1-5-2-1-3-4-3-2-1-6-4-3-5-5-5-6-6.mid

1-5-3-1-6-3-5-2-3-6-3-6-6-5-6-4-2-3-4-2-4-3-4-4-4-2-4-2-2-3-4-6-6-6-6-4-3-1-3-3-6-5-1-4

sf::269:17:232:6:273:132:16:264:127:275:233:280:
:74:83:80:151:159:150:147:84::::185:189:192:188:191:205:201:179:
:143:29:32:138:71:67:103:136:::49:37:56:63:242:224:59:58:
Perm. No.:   9055019777446634359065868292170993

For audio (midi): sf-1-5-3-1-6-3-5-2-3-6-3-6-6-5-6-4-2-3-4-2-4-3-4-4-4-2-4-2-2-3-4-6-6-6-6-4-3-1-3-3-6-5-1-4.mid

2-1-6-1-2-4-4-2-3-2-4-1-5-4-6-3-2-6-1-3-1-6-6-5-4-4-6-4-3-2-2-5-2-1-2-3-6-1-2-6-5-1-2-1

sf::257:279:7:6:21:236:124:264:127:19:131:2:
:81:97:80:96:159:76:158:91::::211:215:176:182:191:187:216:196:
:115:69:111:68:110:101:30:116:::239:37:44:36:62:244:241:34:
Perm. No.:   54626598994492016243483368805917 4

For audio (midi): sf-2-1-6-1-2-4-4-2-3-2-4-1-5-4-6-3-2-6-1-3-1-6-6-5-4-4-6-4-3-2-2-5-2-1-2-3-6-1-2-6-5-1-2-1.mid

18

2-4-4-4-3-3-1-4-1-5-1-1-3-1-4-5-1-1-3-4-1-2-6-4-4-4-3-2-5-1-2-1-5-2-1-4-5-1-6-1-4-2-5-2
sf::257:134:133:237:125:132:272:130:12:265:270:2:
:145:165:94:156:167:163:92:146:::211:178:176:188:191:187:190:179:
:135:139:111:102:31:109:70:136:::219:37:243:246:222:35:46:42:
Perm. No.: 49345085760423753739864041064413320

For audio (midi): sf-2-4-4-4-3-3-1-4-1-5-1-1-3-1-4-5-1-1-3-4-1-2-6-4-4-4-3-2-5-1-2-1-5-2-1-4-5-1-6-1-4-2-5-2.mid

2-6-4-1-5-2-4-6-6-5-1-5-6-2-6-4-5-5-6-4-5-3-4-1-5-6-4-2-2-1-1-6-1-4-3-4-3-2-6-4-2-6-6-2
sf::257:11:133:6:262:20:124:4:271:265:270:258:
:74:157:80:151:86:88:92:146::177:189:192:214:184:171:201:179:
:143:139:105:138:104:137:140:136:::49:48:243:52:45:73:38:42:
Perm. No.:   5716548907349767005263568824417900

For audio (midi): sf-2-6-4-1-5-2-4-6-6-5-1-5-6-2-6-4-5-5-6-4-5-3-4-1-5-6-4-2-2-1-1-6-1-4-3-4-3-2-6-4-2-6-6-2.mid

3-1-5-2-1-3-4-2-4-4-3-2-2-1-3-4-6-2-4-2-5-3-1-3-4-2-2-3-2-6-2-6-3-6-4-6-1-4-1-4-3-2-2-6

sf::227:279:14:22:10:132:124:264:234:229:233:18:
:153:165:149:151:77:155:147:84:::177:189:218:198:191:205:180:186:
:143:106:111:138:118:67:117:66:::33:64:40:52:54:35:241:240:
Perm. No.: 15031942985188628490328838087183211

For audio (midi): sf-3-1-5-2-1-3-4-2-4-4-3-2-2-1-3-4-6-2-4-2-5-3-1-3-4-2-2-3-2-6-2-6-3-6-4-6-1-4-1-4-3-2-2-6.mid

3-3-1-4-5-5-1-2-5-2-4-1-3-2-5-4-5-2-5-6-5-4-3-5-5-1-4-3-3-1-5-5-6-1-2-6-3-3-4-6-5-2-1-6
sf::227:238:274:237:262:266:272:264:260:19:131:2:
:145:157:87:151:86:155:85:162:::177:199:202:182:184:213:201:186:
:115:139:72:68:71:101:30:66:::49:53:61:36:62:35:59:240:
Perm. No.: 1458297591381149282972651964288507 9

For audio (midi): sf-3-3-1-4-5-5-1-2-5-2-4-1-3-2-5-4-5-2-5-6-5-4-3-5-5-1-4-3-3-1-5-5-6-1-2-6-3-3-4-6-5-2-1-6.mid

22

3-3-6-4-1-4-2-4-1-3-1-1-6-1-2-6-6-6-5-1-5-4-1-3-3-4-4-3-5-2-6-1-5-5-1-2-2-6-1-1-3-1-3-2
sf::227:238:7:237:10:236:261:130:12:129:270:2:
:74:165:160:164:77:76:85:75:::177:199:218:198:200:187:201:186:
:135:69:142:102:31:27:70:108:::41:245:40:246:54:244:221:42:
Perm. No.:   38768951065161810878981381161283371

For audio (midi): sf-3-3-6-4-1-4-2-4-1-3-1-1-6-1-2-6-6-6-5-1-5-4-1-3-3-4-4-3-5-2-6-1-5-5-1-2-2-6-1-1-3-1-3-2.mid

3-5-3-2-5-3-4-4-4-6-6-1-1-1-3-1-6-6-3-1-5-5-3-1-1-5-2-6-3-3-5-6-2-1-6-1-3-3-4-3-2-1-3-1
sf::227:17:232:22:262:132:124:130:234:275:8:2:
:161:165:149:79:77:76:92:75:::177:207:202:214:217:193:180:212:
:115:29:72:138:110:101:103:100:::49:53:61:63:45:244:221:34:
Perm. No.:   9815427407995058260943631 73304955

For audio (midi): sf-3-5-3-2-5-3-4-4-4-6-6-1-1-1-3-1-6-6-3-1-5-5-3-1-1-5-2-6-3-3-5-6-2-1-6-1-3-3-4-3-2-1-3-1.mid

24

4-1-2-4-5-1-2-5-2-2-4-6-2-5-2-2-6-2-3-3-5-5-5-4-4-3-5-1-5-3-2-4-1-2-6-5-3-4-5-5-4-4-3-3
sf::123:279:267:237:262:5:261:23:25:19:131:280:
:153:83:160:89:77:155:92:91::::177:207:183:188:191:197:208:170:
:135:29:111:28:104:109:103:26::::49:64:225:47:222:144:221:50:
Perm. No.:   70285462224793900521393489290003056

For audio (midi): sf-4-1-2-4-5-1-2-5-2-2-4-6-2-5-2-2-6-2-3-3-5-5-5-4-4-3-5-1-5-3-2-4-1-2-6-5-3-4-5-5-4-4-3-3.mid

4-5-6-6-4-6-4-5-5-6-6-5-4-5-4-2-2-5-5-2-6-4-5-2-5-4-6-4-1-2-6-1-6-1-4-5-4-6-1-3-2-1-5-3
sf::123:17:7:263:231:277:124:23:260:275:8:258:
:90:83:94:89:159:88:85:84::::169:199:183:206:184:187:216:196:
:135:69:142:102:71:101:117:26::::57:245:40:63:45:244:46:50:
Perm. No.:   77178483332022813512292529135807760

For audio (midi): sf-4-5-6-6-4-6-4-5-5-6-6-5-4-5-4-2-2-5-5-2-6-4-5-2-5-4-6-4-1-2-6-1-6-1-4-5-4-6-1-3-2-1-5-3.mid

26

4-6-2-1-5-4-2-3-2-6-2-6-5-5-4-3-4-4-6-5-6-5-3-6-4-4-1-2-6-5-3-1-6-1-5-3-3-2-4-5-1-1-2-6
sf::123:11:267:6:262:236:261:230:25:275:259:280:
:81:83:94:96:93:95:92:154::169:207:202:172:191:187:174:179:
:99:114:119:102:71:101:112:116:::49:48:61:47:39:244:241:240:
Perm. No.: 14928236666255595304369281145408486

For audio (midi): sf-4-6-2-1-5-4-2-3-2-6-2-6-5-5-4-3-4-4-6-5-6-5-3-6-4-4-1-2-6-5-3-1-6-1-5-3-3-2-4-5-1-1-2-6.mid

27

5-1-6-4-6-3-3-5-6-1-3-1-1-6-2-3-5-6-4-4-1-2-1-5-2-1-1-3-4-6-5-1-3-4-4-3-3-4-1-1-6-4-4-5
sf::13:279:7:237:273:132:235:23:271:3:233:2:
:161:82:160:96:86:76:147:146:::211:178:218:182:209:213:174:186:
:107:106:72:102:118:137:117:116:::49:64:40:246:242:144:55:220:
Perm. No.: 13300867812584708452362439898130641

For audio (midi): sf-5-1-6-4-6-3-3-5-6-1-3-1-1-6-2-3-5-6-4-4-1-2-1-5-2-1-1-3-4-6-5-1-3-4-4-3-3-4-1-1-6-4-4-5.mid

5-2-3-2-1-3-2-5-1-1-4-6-4-6-2-4-2-5-4-3-6-3-1-5-1-5-3-2-1-4-4-2-1-5-6-4-3-6-3-6-4-1-4-2
sf::13:268:232:22:10:132:261:23:12:3:131:280:
:90:82:160:151:159:88:147:91:::169:189:218:182:217:193:190:179:
:135:122:32:113:104:27:103:136:::49:245:56:36:222:244:55:42:
Perm. No.:   4383389776044263343599122511167019

For audio (midi): sf-5-2-3-2-1-3-2-5-1-1-4-6-4-6-2-4-2-5-4-3-6-3-1-5-1-5-3-2-1-4-4-2-1-5-6-4-3-6-3-6-4-1-4-2.mid

29

5-3-4-2-5-4-6-6-5-6-1-3-6-2-6-2-5-5-4-5-1-5-3-4-4-4-1-6-3-1-2-4-3-5-4-2-3-1-2-6-4-1-6-3
sf::13:238:133:22:262:236:9:4:260:275:270:128:
:74:157:80:89:86:88:147:154:::211:207:202:188:191:187:174:212:
:115:139:111:28:118:27:117:108:::49:37:44:36:222:244:38:50:
Perm. No.:   8232543458062903391682051632192885

For audio (midi): sf-5-3-4-2-5-4-6-6-5-6-1-3-6-2-6-2-5-5-4-5-1-5-3-4-4-4-1-6-3-1-2-4-3-5-4-2-3-1-2-6-4-1-6-3.mid

6-1-4-5-6-2-5-6-3-3-3-1-3-2-3-5-5-2-1-4-4-5-5-1-4-5-4-6-5-3-2-1-5-5-5-1-2-6-3-4-5-3-2-3
sf::1:279:133:278:273:20:16:4:127:129:233:2:
:145:157:149:156:86:155:158:146::::185:207:183:214:191:193:201:212:
:135:29:111:102:31:27:112:100:::41:245:56:52:62:43:241:50:
Perm. No.: 64776148590388313473497984

For audio (midi):

31

For audio (midi): sf-6-3-6-3-5-4-5-2-1-4-6-4-2-1-4-2-3-3-1-1-6-4-4-2-1-2-1-3-4-4-2-6-4-3-6-6-3-4-3-5-3-5-1-6.mid

6-4-3-2-6-5-5-6-5-4-4-4-3-2-1-2-2-1-1-4-2-5-6-6-4-5-5-6-1-6-1-1-3-4-4-5-6-3-5-2-5-4-1-6
sf::1:134:232:22:273:266:16:4:260:229:131:228:
:145:157:168:89:159:163:158:146:::203:207:176:172:191:193:208:212:
:135:106:105:102:118:137:117:26::::239:53:225:223:62:144:59:240:
Perm. No.: 14734875415136807622972161933906568

For audio (midi): sf-6-4-3-2-6-5-5-6-5-4-4-4-3-2-1-2-2-1-1-4-2-5-6-6-4-5-5-6-1-6-1-1-3-4-4-5-6-3-5-2-5-4-1-6.mid

6-4-6-5-1-4-6-1-6-1-4-3-1-2-4-1-1-6-1-4-6-3-6-1-1-1-2-4-1-4-2-1-6-3-2-6-3-4-1-1-1-2-5-6
sf::1:134:7:278:10:236:9:276:271:3:131:128:
:161:157:94:79:167:76:158:146:::169:189:176:214:217:213:180:196:
:135:122:111:102:71:120:30:66:::49:64:40:246:39:35:46:240:
Perm. No.:   16442233588771652938017592307535756

For audio (midi): sf-6-4-6-5-1-4-6-1-6-1-4-3-1-2-4-1-1-6-1-4-6-3-6-1-1-1-2-4-1-4-2-1-6-3-2-6-3-4-1-1-1-2-5-6.mid

34

6-5-4-5-1-4-5-3-1-6-4-2-6-6-3-2-6-1-6-2-2-5-1-2-6-5-1-5-5-4-4-4-6-2-5-6-6-1-4-1-6-3-5-2

sf::1:17:133:278:10:236:16:230:12:275:131:18:
:74:82:149:89:77:163:92:84:::203:207:218:206:175:193:174:204:
:135:122:32:28:71:109:112:66:::239:37:61:246:242:43:46:42:
Perm. No.:   50407208048746732575519550072292106

For audio (midi): sf-6-5-4-5-1-4-5-3-1-6-4-2-6-6-3-2-6-1-6-2-2-5-1-2-6-5-1-5-5-4-4-4-6-2-5-6-6-1-4-1-6-3-5-2.mid

6 License

This work by I Am The Author, based on work of J.L.A. Uro at https://github.com/justineuro/mdgBookSVG10Kit, is licensed under a Creative Commons Public Domain International License.

References

Ivars Peterson. Mozart's Melody Machine, 2001. URL https://www.sciencenews.org/article/mozarts-melody-machine-0. Retrieved Tuesday, 08 August, 2017 11:36:00 AM +08. 3

Franciscus Schola. *Musicalische Cabala*, 1773. URL https://imslp.org/wiki/Musicalische_Cabala_(Schola%2C_Franciscus). Retrieved Saturday, 18 May, 2025. 3

Wikipedia: *Musikalisches Würferspiel*. Wikipedia, The Free Encyclopedia, 2017. URL https://en.wikipedia.org/w/index.php?title=Musikalisches_W%C3%BCrfelspiel&oldid=787418377. Retrieved Tuesday, 08 August, 2017 12:56:17 AM +08. 3