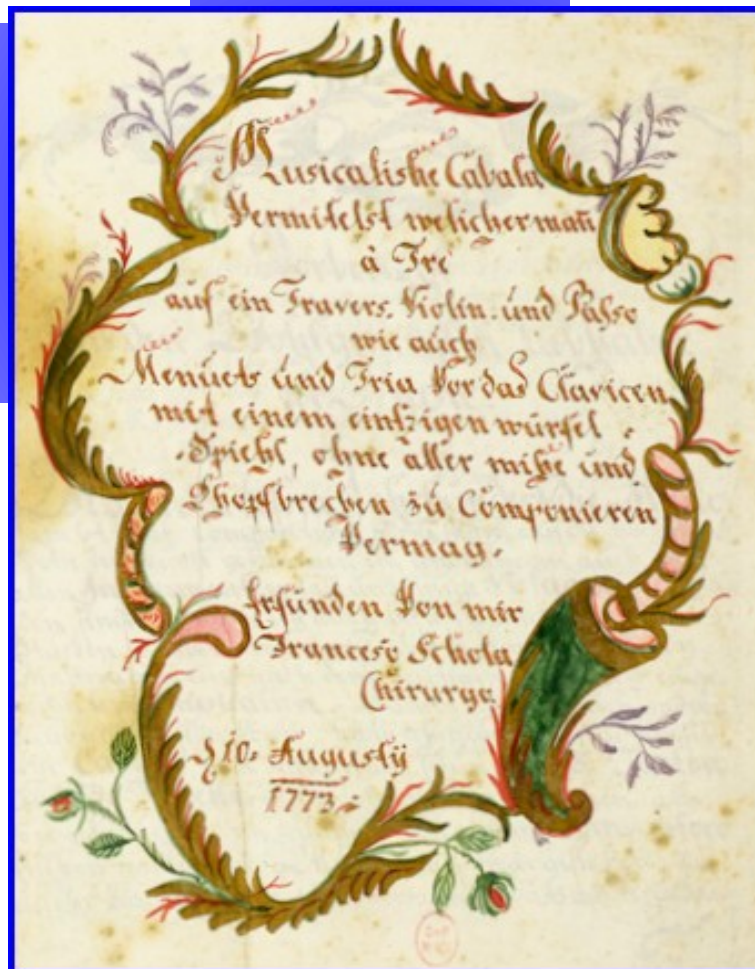


# *Musical Dice Game - Minuets and Trios I*

*based on*  
*Musicalische Cabala*  
*by Franciscus Schola (1773)*  
*compiled by I. T. Author*



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# 1 Introduction<sup>1</sup>

|   |  |
|---|--|
| <p>“Musicalische Cabala<br/> Vermittelst welcher man<br/> à Tre auf ein Travers. Violin. und Basso<br/> wie auch Menuets und Tria Vor das Clavicen<br/> mit einem einzigen würfel-Spiehl,<br/> ohne aller mihe und Khopfbrechen<br/> zu Componieren Vermag.<br/> Erfunden Von mir<br/> Francesu Schola Chirurgu.<br/> d. 10: Augustÿ 1773.”</p> | <p>“Musical Cabala<br/> showing a method by which one,<br/> for three: a flute, violin, and basso,<br/> as well as minuets and trio for the clavier,<br/> with a single die,<br/> without any effort and headache,<br/> to compose.<br/> Discovered by me<br/> Francesu Schola Surgeon<br/> d. 10: August 1773.”</p> |
|---|--|

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 ( $17.3 \times 10^{33}$ ) 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 pre-processed with Inkscape to be included in L<sup>A</sup>T<sub>E</sub>X to produce this book.

<sup>1</sup>The information contained in the introduction were culled from the following online resources: [Schola \(1773\)](#), [Wikipedia: Musikalisches Würfelspiel](#) (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 Cabalas (inserts between pages 4 and 5; pages 7 (Part I), 9 (Part II), and 11 (Part III) of the PDF) *Musicalische Cabala*. The bar numbers corresponding to dice roll outcomes from these three Cabalas are summarized in Table 1 below.

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

|  |     |     |     |     |     |     |     |                                |     |     |     |     |     |     |     |     |
|--|-----|-----|-----|-----|-----|-----|-----|--------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>II – For Flute, Violin, and Cello</b> |     |     |     |     |     |     |     |                                |     |     |     |     |     |     |     |     |
| <b>Part II – Minuet (8bars)</b>          |     |     |     |     |     |     |     | <b>Part II – Trio (8 bars)</b> |     |     |     |     |     |     |     |     |
| 1  | 161 | 165 | 168 | 79  | 167 | 163 | 158 | 75                             | 211 | 173 | 218 | 214 | 217 | 213 | 174 | 170 |
| 2  | 153 | 157 | 160 | 89  | 159 | 155 | 166 | 84                             | 203 | 178 | 210 | 206 | 209 | 205 | 180 | 179 |
| 3  | 145 | 152 | 149 | 96  | 148 | 150 | 92  | 91                             | 195 | 189 | 202 | 198 | 200 | 197 | 190 | 186 |
| 4  | 90  | 97  | 94  | 151 | 93  | 95  | 147 | 146                            | 185 | 199 | 192 | 188 | 191 | 187 | 201 | 196 |
| 5  | 81  | 83  | 87  | 156 | 86  | 88  | 85  | 154                            | 177 | 207 | 183 | 182 | 184 | 193 | 208 | 204 |
| 6  | 74  | 82  | 80  | 164 | 77  | 76  | 92  | 162                            | 169 | 215 | 176 | 172 | 175 | 171 | 216 | 212 |

|                                   |     |     |     |     |     |     |     |                                 |     |     |     |     |     |     |     |     |
|-----------------------------------|-----|-----|-----|-----|-----|-----|-----|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>III – For Clavier</b>          |     |     |     |     |     |     |     |                                 |     |     |     |     |     |     |     |     |
| <b>Part III – Minuet (8 bars)</b> |     |     |     |     |     |     |     | <b>Part III – Trio (8 bars)</b> |     |     |     |     |     |     |     |     |
| 1                                 | 135 | 139 | 105 | 102 | 104 | 101 | 70  | 100                             | 33  | 37  | 40  | 246 | 39  | 244 | 59  | 34  |
| 2                                 | 143 | 69  | 111 | 113 | 110 | 109 | 30  | 108                             | 41  | 48  | 44  | 223 | 45  | 35  | 241 | 42  |
| 3                                 | 115 | 29  | 119 | 121 | 118 | 120 | 140 | 116                             | 49  | 53  | 56  | 63  | 54  | 43  | 221 | 50  |
| 4                                 | 107 | 122 | 32  | 28  | 141 | 137 | 117 | 136                             | 57  | 64  | 61  | 52  | 222 | 144 | 55  | 58  |
| 5                                 | 135 | 114 | 72  | 68  | 31  | 27  | 112 | 26                              | 219 | 226 | 225 | 47  | 62  | 224 | 46  | 220 |
| 6                                 | 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; there is a Set 2 also but it is not included here) are given in Figures 1 to 10 that follow.

*Musicalische Cabala Schola Franciscus - I*  
[from [https://ims1p.org/wiki/Musicalische\\_Cabala\\_\(Schola%2C\\_Franciscus\)](https://ims1p.org/wiki/Musicalische_Cabala_(Schola%2C_Franciscus))]  
found by Franciscus Schola, 1773

The musical score is presented in three systems, each containing four staves: Flute, Violin, Clavier, and Cello. The time signature is 4/4, and the tempo is marked as  $\text{♩} = 90$ . The key signature has one sharp (F#). The score is numbered 1 through 12. Measures 1-4 are in the first system, measures 5-8 in the second, and measures 9-12 in the third. The Clavier part is mostly silent, indicated by rests. The Flute and Violin parts have various melodic lines, including triplets in measure 8. The Cello part provides a bass line with some harmonic support.

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

The musical score is divided into four systems, each containing staves for Flute, Violin, Clavier, and Cello. The key signature is one sharp (F#) and the time signature is 3/4.

- System 1 (Measures 13-16):** The Flute and Violin play a melodic line with eighth and sixteenth notes. The Clavier and Cello provide a harmonic accompaniment with eighth notes.
- System 2 (Measures 17-24):** The Flute and Violin continue the melodic line, with the Violin featuring a triplet in measure 24. The Clavier and Cello continue the accompaniment.
- System 3 (Measures 25-32):** The Flute and Violin play a more complex melodic line with sixteenth notes. The Clavier and Cello continue the accompaniment, with the Clavier featuring a triplet in measure 32.
- System 4 (Measures 33-40):** The Flute and Violin play a melodic line with eighth notes. The Clavier and Cello provide a harmonic accompaniment with eighth notes.

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

The image displays a musical score for measures 41 through 72, organized into four systems. Each system contains four staves: Flute, Violin, Clavier, and Cello. The Flute and Violin staves are in treble clef with a key signature of one sharp (F#). The Clavier and Cello staves are in bass clef with a key signature of two flats (Bb, Eb). The Clavier part is written in 12/8 time, indicated by the '12' over the '8' in the time signature. Measures 41-48, 49-56, and 65-72 show active musical notation for all instruments, while measures 57-64 show the Flute and Violin staves as rests. The Clavier part includes various rhythmic patterns, including triplets (marked with a '3') and sixteenth-note runs. The Cello part provides a steady bass line with occasional melodic fragments.

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



The image displays a musical score for measures 73 through 104 of Set 1. The score is arranged in four systems, each containing staves for Flute, Violin, Clavier, and Cello. The key signature is one sharp (F#) and the time signature is 3/4. Measure numbers are indicated above the Flute staff in each system.

- System 1 (Measures 73-80):** The Flute has a rest in measure 73. Measures 74-80 contain various melodic lines for all instruments, including triplets in measures 74, 75, 79, and 80.
- System 2 (Measures 81-88):** Continues the melodic development. Measure 86 features a triplet in the Flute. Measures 87 and 88 also contain triplets in the Flute.
- System 3 (Measures 89-96):** The Flute has a rest in measure 89. Measures 90-96 show further melodic and harmonic progression across all parts.
- System 4 (Measures 97-104):** Measures 97-99 contain active music for all instruments. Measures 100-104 show the Flute and Violin with rests, while the Clavier and Cello continue with their respective parts.

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

The image displays a musical score for measures 105 through 136, organized into four systems. Each system contains four staves: Flute, Violin, Clavier, and Cello. The key signature is B-flat major (two flats). Measure numbers are printed above each staff at the beginning of each system. The Clavier part is written in a grand staff (treble and bass clefs). The score includes various musical notations such as eighth notes, sixteenth notes, triplets, and rests. Measure 123 features a key change to D major (two sharps). Measure 135 features a key change to B-flat major (two flats). The Flute and Violin parts have many rests, while the Clavier and Cello parts are more active, often playing eighth or sixteenth note patterns.

Measures 105-112: Flute and Violin are mostly silent. Clavier and Cello play eighth-note patterns, with triplets in measures 107, 108, 109, 110, and 111.

Measures 113-120: Similar to the first system, with Clavier and Cello playing active parts and Flute/Violin resting.

Measures 121-128: Flute and Violin enter with eighth-note patterns. Clavier and Cello continue with their respective parts. Measure 123 has a key signature change to D major.

Measures 129-136: Flute and Violin continue with eighth-note patterns. Clavier and Cello play supporting parts. Measure 135 has a key signature change back to B-flat major.

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

The image displays a musical score for measures 137 through 168, organized into four systems. Each system contains four staves: Flute, Violin, Clavier, and Cello. The key signature is one sharp (F#), and the time signature is 3/4. Measure numbers are printed above the Flute staff in each system. The Clavier part is written in a grand staff (treble and bass clefs). The score includes various musical notations such as eighth notes, sixteenth notes, triplets, and rests. Measure 142 features a change in time signature to 3/8. Measure 152 includes a triplet in the Violin part. Measure 165 includes a triplet in the Clavier part.

Measures 137-145: Flute has rests; Violin has rests; Clavier plays a rhythmic pattern with triplets in measures 139 and 140; Cello has rests.

Measures 146-152: Flute plays a melodic line; Violin has rests; Clavier has rests; Cello plays a rhythmic pattern.

Measures 153-160: Flute plays a melodic line; Violin has rests; Clavier has rests; Cello plays a rhythmic pattern.

Measures 161-168: Flute plays a melodic line; Violin has rests; Clavier has rests; Cello plays a rhythmic pattern.

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

The image displays a musical score for measures 169 through 200, arranged in four systems. Each system contains four staves: Flute (treble clef), Violin (treble clef), Clavier (grand staff with treble and bass clefs), and Cello (bass clef). The key signature is one sharp (F#). Measure numbers are printed above the Flute staff in each system. The Clavier part is mostly silent, with some activity in measures 194 and 195. The Flute and Violin parts feature various melodic lines, including triplets and slurs. The Cello part provides a steady bass line with some rhythmic variation.

Measures 169-176: Flute has a melodic line with slurs and ties. Violin and Cello provide harmonic support. Clavier is silent.

Measures 177-184: Flute continues with a melodic line. Violin and Cello have more active parts. Clavier remains silent.

Measures 185-192: Flute and Violin have more complex melodic passages. Clavier remains silent.

Measures 193-200: Flute and Violin continue their melodic lines. Clavier has some activity in measures 194 and 195. Cello continues its bass line.

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

The image displays a musical score for measures 201 through 232, arranged in four systems. Each system contains four staves: Flute (treble clef), Violin (treble clef), Clavier (grand staff with treble and bass clefs), and Cello (bass clef). The key signature is one sharp (F#) for measures 201-216 and two flats (Bb, Eb) for measures 217-232. The time signature is 4/4.

- System 1 (Measures 201-208):** Flute and Violin play eighth-note patterns. Clavier is silent. Cello plays a bass line with eighth notes.
- System 2 (Measures 209-216):** Similar eighth-note patterns in Flute and Violin. Clavier remains silent. Cello continues the bass line.
- System 3 (Measures 217-224):** Flute and Violin play sixteenth-note patterns. Clavier enters with a complex sixteenth-note accompaniment. Cello plays a bass line.
- System 4 (Measures 225-232):** Flute and Violin play sixteenth-note patterns. Clavier continues its accompaniment. Cello plays a bass line.

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

The image displays a musical score for measures 233 through 257, arranged in four systems. Each system contains four staves: Flute, Violin, Clavier, and Cello. The notation includes various musical symbols such as notes, rests, and dynamic markings.

- System 1 (Measures 233-235):** The Flute staff has measures 233, 234, and 235. The Violin staff has measures 233, 234, and 235. The Clavier staff has measures 233, 234, and 235. The Cello staff has measures 233, 234, and 235.
- System 2 (Measures 236-240):** The Flute staff has measures 236, 237, 238, 239, and 240. The Violin staff has measures 236, 237, 238, 239, and 240. The Clavier staff has measures 236, 237, 238, 239, and 240. The Cello staff has measures 236, 237, 238, 239, and 240.
- System 3 (Measures 241-248):** The Flute staff has measures 241, 242, 243, 244, 245, 246, 247, and 248. The Violin staff has measures 241, 242, 243, 244, 245, 246, 247, and 248. The Clavier staff has measures 241, 242, 243, 244, 245, 246, 247, and 248. The Cello staff has measures 241, 242, 243, 244, 245, 246, 247, and 248.
- System 4 (Measures 249-257):** The Flute staff has measures 249, 250, 251, 252, 253, 254, 255, 256, and 257. The Violin staff has measures 249, 250, 251, 252, 253, 254, 255, 256, and 257. The Clavier staff has measures 249, 250, 251, 252, 253, 254, 255, 256, and 257. The Cello staff has measures 249, 250, 251, 252, 253, 254, 255, 256, and 257.

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

This musical score is divided into four systems, each containing four staves: Flute, Violin, Clavier, and Cello. The music is written in 2/4 time with a key signature of one sharp (F#).

- System 1 (Measures 257-259):** The Flute and Violin parts feature rapid sixteenth-note passages. The Clavier part is silent. The Cello part provides a low-frequency accompaniment.
- System 2 (Measures 260-264):** The Flute and Violin continue with intricate sixteenth-note patterns. The Clavier remains silent. The Cello part includes a sixteenth-note triplet in measure 264.
- System 3 (Measures 265-272):** The Flute and Violin parts are highly active with sixteenth-note runs. The Clavier is silent. The Cello part features a sixteenth-note sextuplet in measure 265.
- System 4 (Measures 273-280):** The Flute and Violin parts conclude with rapid sixteenth-note figures. The Clavier is silent. The Cello part includes two sixteenth-note sextuplets in measures 275 and 276.

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

### 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 Würfelspiel*, *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 Würfelspiel*, *K. 516f*, and *K. 294d (K. Anh. C 30.01)*.

### 4 Acknowledgments

Special thanks to [International Music Score Library Project](#) for *Musicalische Cabala, ou Le Jeu de Dez Harmonique, 2nd ed. (1759)*, [Opus Infinity](#) for additional related information, and [Amaranth Publishing](#) for a copy of `mozart.zip`. My sincerest gratitude to Chris Walshaw et al. for the [ABC music notation](#); Jean-Francois Moine for [abcm2ps](#) and the accompanying examples, templates, and pointers for the appropriate use of these resources; Guido Gonzato for the [ABC Plus Project](#) and the [abcmidi resources](#) available there, more especially for the ABC resource book *Making Music with ABC 2*; James R. Allwright and Seymour Shlien for [abcmidi](#) source and binaries; [Artifex, Inc.](#) for Ghostscript v.10.00.0 (includes the `ps2pdf` converter); [Inkscape v.1.2.2](#) for the tool for converting SVGs to PDFs for inclusion into L<sup>A</sup>T<sub>E</sub>X documents; William Schelter for [Maxima v.5.47.0](#)—used for computing the permutation number; [Google Lens](#) and [Google Translate](#) for aiding in producing the English versions of the text of *Musicalische Cabala*; Colomban Wendling et. al for [Geany 2.0 IDE](#); and [User:Martin H](#) for his [reply](#) to a T<sub>E</sub>X / L<sup>A</sup>T<sub>E</sub>X Stack Exchange question on including SVGs into L<sup>A</sup>T<sub>E</sub>X documents. Thanks to Ditto to Machtelt Garrels for the book [Bash Guide for Beginners](#), Vivek Gite for the book [Linux Script Shell Tutorial](#), and Steve Parker for the [Unix/Linux Shell Cheatsheet](#). John Fogarty’s GitHub Site: [Latex CreateSpace BookCover](#) and Peter Wilson’s reply in T<sub>E</sub>X / L<sup>A</sup>T<sub>E</sub>X Stack Exchange on [designing a book cover](#), were sources of ideas, information, and materials for creating the book cover and title page, thanks to both of them; [LibreOffice Calc](#) for its use in the image creation of the book cover. Many thanks, too, to the [Debian Project](#) for the Debian 12 (Bookworm) GNU/Linux OS, [TeXLive](#) for providing the T<sub>E</sub>X distribution, and [GitHub](#) for its generosity in providing space for [the project](#).



## 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.

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

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

♩ = 90

Flute

Violin

Cello

Flute

Violin

Cello

Flute

Violin

Cello

Flute

Violin

Cello

Clavier

Clavier

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

♩ = 90

Flute

Violin

Cello

Flute

Violin

Cello

Flute

Violin

Cello

Flute

Violin

Cello

Clavier

Clavier

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.: 546265989944920162434833688059174

$\text{♩} = 90$

Flute

Violin

Cello

Flute

Violin

Cello

Flute

Violin

Cello

Flute

Violin

Cello

Clavier

Clavier

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](#)

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.: 4934508576042375373986404106441320

$\text{♩} = 90$

Flute

Violin

Cello

Flute

Violin

Cello

Flute

Violin

Cello

Flute

Violin

Cello

Clavier

Clavier

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

$\text{♩} = 90$

Flute

Violin

Cello

Flute

Violin

Cello

Flute

Violin

Cello

Flute

Violin

Cello

Clavier

Clavier

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

♩ = 90

Flute

Violin

Cello

Flute

Violin

Cello

Flute

Violin

Cello

Flute

Violin

Cello

Clavier

Clavier

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.: 14582975913811492829726519642885079

♩ = 90

The musical score is written for four instruments: Flute, Violin, Cello, and Clavier. It is organized into five systems of staves. The first three systems (measures 1-12, 13-20, and 21-28) feature the Flute, Violin, and Cello. The last two systems (measures 29-36 and 37-44) feature the Clavier. The music is in 3/4 time and includes various musical notations such as notes, rests, and dynamic markings. The score is divided into measures by bar lines, and some measures contain multiple notes or rests. The Clavier part is written in a grand staff (treble and bass clef).

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](#)

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.: 3876895106516181087898138161283371

♩ = 90

Flute

Violin

Cello

Flute

Violin

Cello

Flute

Violin

Cello

Flute

Violin

Cello

Clavier

Clavier

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.: 981542740799505826094363173304955

♩ = 90

Flute

Violin

Cello

Flute

Violin

Cello

Flute

Violin

Cello

Flute

Violin

Cello

Clavier

Clavier

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](#)

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.: 7028546222479390052139348929003056

$\text{♩} = 90$

Flute

Violin

Cello

Flute

Violin

Cello

Flute

Violin

Cello

Flute

Violin

Cello

Clavier

Clavier

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.: 7717848333202281351229252913580760

$\text{♩} = 90$

Flute

Violin

Cello

Flute

Violin

Cello

Flute

Violin

Cello

Clavier

Clavier

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](#)

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

$\text{♩} = 90$

Flute

Violin

Cello

Flute

Violin

Cello

Flute

Violin

Cello

Flute

Violin

Cello

Clavier

Clavier

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](#)

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

$\text{♩} = 90$

The musical score is written for four instruments: Flute, Violin, Cello, and Clavier. It is organized into six systems of staves. The first three systems (measures 1-20) feature the Flute, Violin, and Cello. The last two systems (measures 21-37) feature the Clavier. The music is in 3/4 time with a key signature of one sharp (F#). It includes various musical notations such as triplets, slurs, and dynamic markings like 'sf'.

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

$\text{♩} = 90$

Flute

Violin

Cello

Clavier

Clavier

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](#)

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

$\text{♩} = 90$

Flute

Violin

Cello

Flute

Violin

Cello

Flute

Violin

Cello

Clavier

Clavier

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.: 6477614859038831347349798470649346

♩ = 90

Flute

Violin

Cello

Flute

Violin

Cello

Flute

Violin

Cello

Flute

Violin

Cello

Clavier

Clavier

For audio (midi): [sf-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.mid](#)



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

sf:::1:238:7:126:262:236:16:264:12:229:8:228:  
:153:165:94:89:148:150:158:75:::169:199:192:206:217:205:174:186:  
:107:122:111:138:141:120:103:66:::49:64:56:47:54:224:59:240:  
Perm. No.: 14794319704345769990272894837911126

♩ = 90

Flute

Violin

Cello

Flute

Violin

Cello

Flute

Violin

Cello

Flute

Violin

Cello

Clavier

Clavier

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

♩ = 90

The musical score is written for four instruments: Flute, Violin, Cello, and Clavier. It is in 3/4 time with a key signature of one sharp (F#). The tempo is marked as ♩ = 90. The score is divided into six systems. The first three systems (measures 1-12) feature Flute, Violin, and Cello. The last two systems (measures 21-37) include Clavier. Measure numbers 6, 13, 21, and 29 are indicated at the start of their respective systems. The music features various rhythmic patterns, including eighth and sixteenth notes, and rests. The Clavier part begins at measure 21 and continues through measure 37.

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

♩ = 90

The musical score is written for four instruments: Flute, Violin, Cello, and Clavier. It is in 3/4 time with a key signature of one sharp (F#). The tempo is marked as ♩ = 90. The score is divided into six systems. The first three systems (measures 1-12) feature Flute, Violin, and Cello. The last two systems (measures 29-36) feature Clavier. The music is in 3/4 time with a key signature of one sharp (F#). Measure numbers 6, 13, 21, and 29 are indicated at the start of their respective systems.

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](#)

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.: 5040720804874673257551955072292106

$\text{♩} = 90$

The musical score is written for four instruments: Flute, Violin, Cello, and Clavier. It is in 3/4 time with a tempo of 90 beats per minute. The score is divided into six systems. The first three systems (measures 1-12) feature Flute, Violin, and Cello. The last two systems (measures 29-36) feature Clavier. The music is in 3/4 time and includes various musical notations such as notes, rests, and dynamic markings.

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](#)

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