

Wonders of the Musical World Series 4

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Musical Dice Game Waltzes I

based on

*Table pour composer des minuets et des Trios à la infinie;
avec deux dez à jouer (1780)*

by Maximilian Stadler

compiled by I. T. Author

MENUET-TABELLE FÜR DAS KLAVIER. 1

1 2 3 4 5 6 7 8 9

10 11 12 13 14 15 16

17 18 19 20 21 22

23 24 25 26 27 28 29 30

31 32 33 34 35 36 37 38

39 40 41 42 43 44 45

19

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Table pour composer des minuets et des Trios à la infinie; avec deux dez à jouer
(1780)
by Maximilian Stadler

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WONDERS OF THE MUSICAL WORLD SERIES 4



Libre Edition Press
July 10, 2024

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6	License	25

1 Introduction¹

The cover page of a German version of the Musical Dice Game (MDG) attributed to Franz Joseph Haydn (1732-1809) opens with the words:

“Tabelle, aus welcher man unzählige Menuetten und Trio für das Klavier herauswürfeln kann verfaßt von P. Maximilian Stadler”	“Table, from which you can create (roll out) countless minuets and trios for the piano written by P. Maximilian Stadler”.
--	---

while a corresponding Italian version has the following words:

“GIOCO FILARMONICO O SIA MANIERA FACILE PER COMPORRE UN INFINITO NUMERO DI MINUETTI E TRIO, ANCHE SENZA SAPERE IL CONTRAPUNTO”	“PHILHARMONIC GAME OR BE IT AN EASY WAY TO COMPOSE AN INFINITE NUMBER OF MINUETS AND TRIOS, EVEN WITHOUT KNOWING COUNTERPOINT”
--	--

Indeed, this particular MDG allows a non-professional musician to generate (“compose”) as nearly as 35.7 octillions of unique minuet-trios (more precisely,

$$(11^{14}) \times (10^2) \times (6^{14} \times 4 \times 3) = 35, 710, 533, 929, 214, 947, 279, 418, 163, 200;$$

see additional explanation in Subsection 2.2).

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 Polonaise and Minuet Composer”). Other well-known composers that are 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”) and *Musikalisches Würfelspiel K. 516f* (1787), the most famous of MDGs, that 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, which is also known under the title of *Anleitung zum Componieren von Walzern so viele man will vermittelt 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”), to Wolfgang Amadeus Mozart and it 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.

The MDG featured in this book, *Table pour composer des Minuets et des Trios à la infinie; avec deux dez à jouer* (translated from French as “A table for composing minuets and trios to infinity, by playing with two dice”) was first published in Germany by Abbé Maximilian Stadler in 1780. It was also published in Italy with the title given above. From here onwards, we simply refer to this MDG as *Gioco Filarmonico* or *Tabella*.

This book is a collection of 28 MDG minuet-trios generated according to the rules given in *Gioco Filarmonico/Tabella*. The scores of the generated minuet-trios, that were initially written in using the abc

¹The information contained in the introduction were culled from the following online resources: [Wikipedia: Musikalisches Würfelspiel](#), <https://opus-infinity.org/>, and [Mozart Studies Online](#).

environment of Chris Walshaw, were converted to Scalar Vector Graphics (SVG) images (with corresponding MIDIs) and were then pre-processed with Inkscape to be included in L^AT_EX to produce this book.

2 *Gioco Filarmonico/Tabelle*

2.1 Rules

The Rules provided in *Gioco Filarmonico/Tabelle* generate MDGs that are minuet-trios, each consisting of a 16-bar minuet and a 16-bar trio. The minuet is first played then the trio. The minuet is played eight (8) bars at a time, each 8-bar set being repeated each time. The consequent trio is similarly played, eventually yielding a total of 64 played measures (or bars).

The following Rules are followed for generating each minuet:

1. For each bar from the first to the 16th, two dice are tossed and the sum of the two faces that come up are obtained. Hence, 16 two-dice tosses (with possible outcomes from the set {2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12}), one two-dice toss for each bar, are needed to generate a minuet.
2. Table 1(a) is then used to determine which bar number from the Table of Measures for Minuets (Figures 1 to 3) is to be used for obtaining the notes—based on the outcome of each two-dice toss—for the particular bar of the minuet-to-be-generated. The possible outcomes of a two-dice toss (2 to 12) are given (stub items) on the left-hand side of Table 1, while the bar numbers of the minuet-to-be-generated are given on the top of that table (captions or column headings).
3. For example, suppose for bar 1, the outcome of the two-dice toss is 5. If we now look for bar number 1 at the top of Table 1 and for the outcome 5 on the left-hand side of that table, we obtain 40 as the measure number of the Table of Measures for Minuets (see Figure 1) to be used for obtaining the notes to be played for the first bar of the minuet-to-be-generated. Similarly, an outcome of 11 for the two-dice toss for bar 9 of the minuet-to-be-generated leads us to obtain the notes from bar 102 of the Table of Measures for Minuets (see Figure 2).

The following Rules are followed for generating each trio:

1. For each bar of the trio, from the first bar to the 16th, a die is tossed. Hence, 16 one-die tosses with possible outcomes from the set {1, 2, 3, 4, 5, 6}, a toss of a die for each bar, are needed to generate a trio.
2. Table 1(b) is then used to determine which bar number from the Table of Measures (Figures 4 to 5) is to be used for obtaining the notes, based on the outcome of each die toss, for the bar of the trio corresponding to that one-die toss. The possible outcomes of a toss of a die (1 to 6) are given (stub items) on the left-hand side of Table 1(b), while the measure numbers of the minuet-to-be-generated are given on the top of that table (captions or column headings).
3. For example, suppose for bar 1, the outcome of the one-die toss is 5. If we now look for measure number 1 at the top of Table 1 and for the outcome 5 on the left-hand side of that table, we obtain 83 as the bar number of the Table of Measures for Trios (see Figure 5) to be used for obtaining the notes to be played for the first measure of the trio-to-be-generated. Similarly, an outcome of 1 on the one-die toss for bar 9 of the trio-to-be-generated leads us to obtain the notes from bar 36 of the Table of Measures for Trios (see Figure 4).

2.2 Table for finding Measure Number from Table of Measures

The table given here (Table 1) combines the four (4) tables, two at a time, given on page 2 of *Gioco Filarmonico* (also on pp. 11-12 of *Tabelle*) but the contents are exactly as given there. The leftmost

column contains the possible two-dice outcomes while the topmost row contains the bar numbers ($16 + 16 = 32$ in all) for the MDG minuet-trio-to-be-generated.

(a) Measure Number of Minuet

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
D i c e 1	2	96	22	141	41	105	122	11	30	70	121	26	9	112	49	109	14	
	3	32	6	128	63	146	46	134	81	117	39	126	56	174	18	116	83	
	4	69	95	158	13	153	55	110	24	66	139	15	132	73	58	145	79	
	5	40	17	113	85	161	2	159	100	90	176	7	34	67	160	52	170	
	6	148	74	163	45	80	97	36	107	25	143	64	125	76	136	1	93	
	+	7	104	157	27	167	154	68	118	91	138	71	150	29	101	162	23	151
	D i c e 2	8	152	60	171	53	99	133	21	127	16	155	57	175	43	168	89	172
		9	119	84	114	50	140	86	169	94	120	88	48	166	51	115	72	111
		10	98	142	42	156	75	129	62	123	65	77	19	82	137	38	149	8
		11	3	87	165	61	135	47	147	33	102	4	31	164	144	59	173	78
		12	54	130	10	103	28	37	106	5	35	20	108	92	12	124	44	131

(b) Measure Number of Trio

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D i c e 1	1	72	6	59	25	81	41	89	13	36	5	46	79	30	95	19	66
	2	56	82	42	74	14	7	26	71	76	20	64	84	8	35	47	88
	3	75	39	54	1	65	43	15	80	9	34	92	48	69	58	90	21
	4	40	73	16	68	29	55	2	61	22	67	49	77	57	87	33	10
	5	83	3	28	53	37	17	44	70	63	85	32	96	12	23	50	91
	6	18	45	62	38	4	27	52	94	11	92	24	86	51	60	78	31

Table 1: Measure number to be looked-up in the Table of Measures (see Figures 1, 2, 3, 4, and 5 in Section 2.3) corresponding to each two-dice outcome per measure for the minuet and one-die outcome for the trio. Measure number in **bold blue font** indicates identical measures under that column (see <https://opus-infinity.org> for more info).

Although the body of Table 1(a) includes $11 \times 16 = 176$ measure numbers, the Table of Measures for Minuets (Figures 1 to 3) contains only 174 different measures. This is so since in Table 1, although 11 choices are listed below each column, two choices under bar 8 (choices 30 and 123) and also under bar 16 (choices 151 and 172) lead to identical notes in the Table of Measures for Minuets, so that only 10 different bars are under each of these two (2) columns. Consequently, the total number of different measures for minuets is $11 \times 14 + 10 + 10 = 174$.

For the table for trios (Table 1(a)), $6 \times 16 = 96$ measure numbers are listed but there are only $6 \times 14 + 4 + 3 = 91$ unique measures. This is so since under the column for bar 8 for trios, choices 71, 61, and 70 lead to the same set of notes in the Table of Measures for Trios (Figures 4 to 5). Also, under column for bar 16 for trios, choices 21, 10, 91, and 31 also lead to the same set of notes in the Table of Measures for Trios.

2.3 Table of Measures

Gioco Filarmonico (Minuets)

[from http://imslp.org/wiki/Table_pour_composer_des_Minuets_et_des_Trios_%28Stadler,_Maximilian%29]

attributed to Joseph Haydn

The image displays a musical score for a piece titled "Gioco Filarmonico (Minuets)", attributed to Joseph Haydn. The score is presented in a standard musical notation format, featuring a treble clef and a bass clef. The key signature is one sharp (F#), and the time signature is 3/4. The tempo is marked as $J = 90$. The score is divided into eight systems, each containing two staves (treble and bass). The measures are numbered from 1 to 64. The notation includes various musical symbols such as notes, rests, accidentals, and ornaments (trills). The score concludes with a double bar line at measure 64.

Figure 1: Table of Measures for Minuets (Part I)

65 66 67 *tr* 68 69 70 71 72

73 74 75 76 77 78 79 80

81 82 83 84 85 86 87 88

89 90 91 92 93 94 95 96

97 98 99 100 101 102 103 104

105 106 107 108 109 110 111 112 *tr*

113 114 *tr* 115 116 *tr* 117 118 119 120

121 122 123 124 125 126 127 128

Figure 2: Table of Measures for Minuets (Part II)

129 130 131 132 133 134 *tr tr* 135 136
 137 138 139 140 141 142 *tr* 143 144
 145 146 147 148 149 150 151 152
 153 154 155 156 157 158 159 160
 161 162 163 *tr* 164 165 166 167 168
 169 170 171 172 173 174 *tr tr* 175 176

Figure 3: Table of Measures for Minuets (Part III)

Gioco Filarmonico (Trios)

[from [http://imslp.org/wiki/Table_pour_composer_des_Minuets_et_des_Trios_%C3%A0_la_infinie_\(Stadler,_Maximilian\)](http://imslp.org/wiki/Table_pour_composer_des_Minuets_et_des_Trios_%C3%A0_la_infinie_(Stadler,_Maximilian))]

attributed to Joseph Haydn

The image displays a musical score for 'Gioco Filarmonico (Trios)' by Joseph Haydn, covering measures 1 through 56. The score is written for a piano and two violins. The tempo is marked as quarter note = 90. The key signature is one sharp (F#), and the time signature is 3/4. The score is divided into seven systems, each with a treble and bass staff. Measure numbers 1 through 56 are indicated above the notes. The music features various rhythmic patterns, including triplets and trills, and includes dynamic markings such as 'tr' for trills. The notation is clear and legible, with standard musical symbols and clefs.

Figure 4: Table of Measures for Trios (Part IV)

The image displays a musical score for a piece titled "Table of Measures for Trios (Part V)". The score is written in two staves, treble and bass clef, with a key signature of one sharp (F#). The measures are numbered from 57 to 96. The music features a variety of rhythmic patterns, including eighth and sixteenth notes, and frequently uses triplets, indicated by a '3' below the notes. There are also some rests and dynamic markings. The score is presented in a clean, black-and-white format.

Figure 5: Table of Measures for Trios (Part V)

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, and Gerlach. 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

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 \LaTeX documents; William Schelter for [Maxima v.5.47.0](#)—used for computing the permutation number; Colomban Wendling et. al for [Geany 2.0 IDE](#); and [User:Martin H](#) for his [reply](#) to a \TeX / \LaTeX Stack Exchange question on including SVGs into \LaTeX documents. Special thanks also to the [International Music Score Library Project \(IMSLP\)](#) for making available the score for [Table pour composer des Minuets et des Trios à la infinie](#) and [Amaranth Publishing](#) for a copy of `mozart.zip`. 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 \TeX / \LaTeX 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 2024](#) for providing the \TeX distribution, and [GitHub](#) for its generosity in providing space for [the project](#).

5 Selected Waltzes

10-4-8-6-4-9-10-5-4-10-3-4-5-7-12-2-5-5-4-3-2-4-2-5-4-5-5-1-5-2-1-5

gfmt::98:95:171:45:153:86:62:100:66:77:126:132:67:162:44:131:83:3:16:1:14:55:26:71:22:85:32:79:12:35:19:21::

Perm. No.: 24365395771453669356811052631

$\text{♩} = 90$

Musical score for the first waltz, consisting of four systems of two staves each (treble and bass clef). The music is in 3/4 time and G major. It features various rhythmic patterns, including triplets and trills (tr).

For audio (midi): [gfmt-10-4-8-6-4-9-10-5-4-10-3-4-5-7-12-2-5-5-4-3-2-4-2-5-4-5-5-1-5-2-1-5.mid](#)

11-12-8-7-9-8-8-8-7-5-11-7-11-3-2-5-3-1-2-3-2-1-5-5-3-1-1-5-1-4-5

gfmt::3:130:171:167:140:133:21:127:16:71:7:164:101:59:116:83:83:39:59:74:65:7:89:71:63:34:46:79:12:95:33:21::

Perm. No.: 29979905058227231719305256166

$\text{♩} = 90$

Musical score for the second waltz, consisting of four systems of two staves each (treble and bass clef). The music is in 3/4 time and G major. It features various rhythmic patterns, including triplets and trills (tr).

For audio (midi): [gfmt-11-12-8-7-9-8-8-8-7-5-11-7-11-3-2-5-3-1-2-3-2-1-5-5-3-1-1-5-1-4-5.mid](#)

11-2-7-9-4-7-9-4-12-5-6-6-12-12-6-6-4-3-3-1-1-1-5-4-1-3-3-1-5-1-3-4

gfmt::3:22:27:50:153:68:169:24:35:176:64:125:12:124:1:93:40:39:54:25:81:41:44:71:36:34:93:79:12:95:90:21::
Perm. No.: 27998884708096803019935648528

♩ = 90

The first piece is a 3/4 time signature piece in G major. It consists of four systems of music. The first system shows the beginning with a treble staff starting on a whole note G and a bass staff with a whole note G. The second system features a treble staff with eighth-note patterns and a bass staff with triplets. The third system continues with similar rhythmic patterns. The fourth system includes a trill (tr) in the treble staff and more triplet patterns in the bass staff.

For audio (midi): [gfmt-11-2-7-9-4-7-9-4-12-5-6-6-12-12-6-6-4-3-3-1-1-1-5-4-1-3-3-1-5-1-3-4.mid](#)

11-8-2-5-3-3-11-4-10-4-12-6-8-4-5-11-2-5-2-4-2-2-3-4-5-6-5-5-3-4-1-3

gfmt::3:60:141:85:146:46:147:24:65:139:108:125:43:58:52:170:56:3:42:68:14:7:15:71:63:92:32:96:69:87:19:21::
Perm. No.: 24953522332827684993547203382

♩ = 90

The second piece is a 3/4 time signature piece in G major. It consists of four systems of music. The first system starts with a treble staff on a whole note G and a bass staff with a whole note G. The second system features a treble staff with eighth-note patterns and a bass staff with triplets. The third system continues with similar rhythmic patterns. The fourth system includes a trill (tr) in the treble staff and more triplet patterns in the bass staff.

For audio (midi): [gfmt-11-8-2-5-3-3-11-4-10-4-12-6-8-4-5-11-2-5-2-4-2-2-3-4-5-6-5-5-3-4-1-3.mid](#)

12-2-9-3-12-9-6-9-6-9-9-5-5-6-2-6-3-4-1-2-6-3-3-1-4-5-5-1-5-2-4-1

gfmt::54:22:114:63:28:86:36:94:25:88:48:34:67:136:109:14:75:73:59:74:4:43:15:13:22:85:32:79:12:35:33:66::

Perm. No.: 6510119837014933284529661717

Musical score for the first piece, featuring a treble and bass clef with various musical notations including triplets and trills. The tempo is marked as quarter note = 90. The score consists of four systems of two staves each. The first system includes a trill (tr) in the treble clef. The second system includes triplets (3) in both staves. The third system includes triplets (3) in both staves. The fourth system includes triplets (3) in both staves and a trill (tr) in the treble clef.

For audio (midi): [gfmt-12-2-9-3-12-9-6-9-6-9-9-5-5-6-2-6-3-4-1-2-6-3-3-1-4-5-5-1-5-2-4-1.mid](#)

12-3-10-4-7-10-3-10-2-8-10-6-9-12-7-4-6-2-5-5-6-6-4-4-6-4-2-1-1-4-6-2

gfmt::54:06:42:13:154:129:134:123:70:155:19:125:51:124:23:151:18:82:28:53:4:27:2:71:11:67:64:79:30:87:78:88::

Perm. No.: 22817589864090096074062996746

Musical score for the second piece, featuring a treble and bass clef with various musical notations including triplets and trills. The tempo is marked as quarter note = 90. The score consists of four systems of two staves each. The first system includes trills (tr) in the treble clef. The second system includes triplets (3) in the bass clef. The third system includes triplets (3) in the bass clef and a trill (tr) in the treble clef. The fourth system includes triplets (3) in the bass clef.

For audio (midi): [gfmt-12-3-10-4-7-10-3-10-2-8-10-6-9-12-7-4-6-2-5-5-6-6-4-4-6-4-2-1-1-4-6-2.mid](#)

12-3-12-11-4-6-12-6-8-2-9-3-8-12-7-7-3-6-1-5-1-2-1-3-2-1-6-1-3-3-2-6
 gfmt::54:06:10:61:153:97:106:107:16:121:48:56:43:124:23:151:75:45:59:53:81:7:89:80:76:5:24:79:69:58:47:21::
 Perm. No.: 26570183171773980894166074591

$\text{♩} = 90$

This musical score is for a piece in 3/4 time with a tempo of 90. It consists of five systems of music, each with a treble and bass clef. The key signature has one sharp (F#). The score includes various musical notations such as triplets (marked with '3'), trills (marked with 'tr'), and slurs. The piece concludes with a double bar line and repeat dots.

For audio (midi): [gfmt-12-3-12-11-4-6-12-6-8-2-9-3-8-12-7-7-3-6-1-5-1-2-1-3-2-1-6-1-3-3-2-6.mid](#)

12-4-10-4-11-8-7-6-10-6-5-5-6-4-12-10-3-1-6-5-2-3-6-2-6-3-3-6-4-6-5-3
 gfmt::54:95:42:13:135:133:118:107:65:143:7:34:76:58:44:131:75:6:62:53:14:43:52:71:11:34:93:86:57:60:50:21::
 Perm. No.: 33611017522212795005236898937

$\text{♩} = 90$

This musical score is for a piece in 3/4 time with a tempo of 90. It consists of five systems of music, each with a treble and bass clef. The key signature has one sharp (F#). The score includes various musical notations such as triplets (marked with '3'), trills (marked with 'tr'), and slurs. The piece concludes with a double bar line and repeat dots.

For audio (midi): [gfmt-12-4-10-4-11-8-7-6-10-6-5-5-6-4-12-10-3-1-6-5-2-3-6-2-6-3-3-6-4-6-5-3.mid](#)

2-10-10-11-2-11-8-12-9-5-11-3-10-10-12-4-2-6-1-2-4-3-3-3-6-6-2-2-6-2-2
 gfmt::96:142:42:61:105:47:21:5:120:176:31:56:137:38:44:131:56:45:59:74:29:43:15:80:9:92:24:84:8:60:47:88::
 Perm. No.: 15614029249159460062875976980

♩ = 90

For audio (midi): [gfmt-2-10-10-11-2-11-8-12-9-5-11-3-10-10-12-4-2-6-1-2-4-3-3-3-6-6-2-2-6-2-2.mid](#)

2-8-12-3-11-9-8-11-8-4-2-5-2-3-8-2-1-4-3-4-2-6-2-6-4-2-6-4-4-3-1-1
 gfmt::96:60:10:63:135:86:21:33:16:139:26:34:112:18:89:172:72:73:54:68:14:27:26:61:22:20:24:77:57:58:19:66::
 Perm. No.: 862259078432952190559968048

♩ = 90

For audio (midi): [gfmt-2-8-12-3-11-9-8-11-8-4-2-5-2-3-8-2-1-4-3-4-2-6-2-6-4-2-6-4-4-3-1-1.mid](#)

3-12-11-11-7-2-5-8-2-7-8-5-6-4-8-9-5-5-6-5-3-4-3-4-5-5-3-6-1-2-5-2
 gfmt::32:130:165:61:154:122:159:127:70:71:57:34:76:58:89:172:83:3:62:53:65:55:15:71:63:85:93:86:30:35:50:88::
 Perm. No.: 20220030073823360751987327214

$\text{♩} = 90$

For audio (midi): [gfmt-3-12-11-11-7-2-5-8-2-7-8-5-6-4-8-9-5-5-6-5-3-4-3-4-5-5-3-6-1-2-5-2.mid](#)

4-4-10-4-6-10-2-7-7-5-2-4-10-6-12-2-1-1-1-4-5-6-4-6-1-5-5-3-6-5-5
 gfmt::69:95:42:13:80:129:11:91:138:71:7:9:73:38:1:93:56:6:59:25:29:17:52:71:11:5:32:96:69:60:50:21::
 Perm. No.: 33549275850373114011063877942

$\text{♩} = 90$

For audio (midi): [gfmt-4-4-10-4-6-10-2-7-7-5-2-4-10-6-12-2-1-1-1-4-5-6-4-6-1-5-5-3-6-5-5.mid](#)

4-6-3-9-4-10-5-7-12-12-6-2-3-6-8-3-5-1-5-2-1-6-4-6-3-2-3-1-1-6-2-6

gfmt::69:74:128:50:153:129:159:91:35:20:64:9:174:136:89:172:83:6:28:74:81:27:2:61:9:20:93:79:30:60:47:21::
Perm. No.: 27447647108840347164538050973

Musical score for the first piece, featuring a treble and bass staff. The tempo is marked as $\text{♩} = 90$. The score includes various musical notations such as triplets (3) and trills (tr). The key signature is one sharp (F#) and the time signature is 3/4. The piece concludes with a double bar line and repeat dots.

For audio (midi): [gfmt-4-6-3-9-4-10-5-7-12-12-6-2-3-6-8-3-5-1-5-2-1-6-4-6-3-2-3-1-1-6-2-6.mid](#)

4-9-10-6-5-11-7-9-4-10-11-8-5-8-4-2-3-6-2-3-6-4-6-2-1-3-2-6-2-5-5-3

gfmt::69:84:42:45:161:47:118:94:66:77:31:175:67:168:145:79:75:45:42:1:4:55:52:71:36:34:64:86:8:23:50:21::
Perm. No.: 33168403791705061557166448116

Musical score for the second piece, featuring a treble and bass staff. The tempo is marked as $\text{♩} = 90$. The score includes various musical notations such as triplets (3) and trills (tr). The key signature is one sharp (F#) and the time signature is 3/4. The piece concludes with a double bar line and repeat dots.

For audio (midi): [gfmt-4-9-10-6-5-11-7-9-4-10-11-8-5-8-4-2-3-6-2-3-6-4-6-2-1-3-2-6-2-5-5-3.mid](#)

5-10-11-3-3-6-6-11-12-7-9-8-10-2-9-10-1-5-5-2-6-5-1-3-4-1-1-6-4-1-5-1

gfmt::40:142:165:63:146:97:36:33:35:71:48:175:137:49:72:111:72:3:28:74:4:17:89:80:22:5:46:86:57:95:50:66::
Perm. No.: 8147075062779999474866103469

Musical score for the first piece, featuring a treble and bass staff with various musical notations including triplets, trills, and a tempo marking of quarter note = 90.

For audio (midi): [gfmt-5-10-11-3-3-6-6-11-12-7-9-8-10-2-9-10-1-5-5-2-6-5-1-3-4-1-1-6-4-1-5-1.mid](#)

5-2-7-5-7-3-9-9-4-2-10-8-6-12-7-4-5-5-6-1-6-2-1-3-6-5-6-1-3-6-3-3

gfmt::40:22:27:85:154:46:169:94:66:121:19:175:76:124:23:151:83:3:62:25:4:7:89:80:11:85:24:79:69:60:90:21::
Perm. No.: 29547251842421702895322636252

Musical score for the second piece, featuring a treble and bass staff with various musical notations including triplets and a tempo marking of quarter note = 90.

For audio (midi): [gfmt-5-2-7-5-7-3-9-9-4-2-10-8-6-12-7-4-5-5-6-1-6-2-1-3-6-5-6-1-3-6-3-3.mid](#)

5-3-4-3-12-3-11-5-10-7-8-6-9-3-9-9-5-6-5-4-3-1-3-2-5-1-5-2-3-5-6-1

gfmt::40:06:158:63:28:46:147:100:65:71:57:125:51:18:72:111:83:45:28:68:65:41:15:71:63:5:32:84:69:23:78:66::
Perm. No.: 11367915229641364777663844051

$\text{♩} = 90$

The first piece is a 3/4 time signature piece in G major. It consists of four systems of music. The first system shows a treble staff with a half note G4, followed by eighth notes A4, B4, C5, and a quarter note D5. The bass staff has a half note G2, followed by eighth notes A2, B2, C3, and a quarter note D3. The second system continues with eighth notes in the treble and eighth notes in the bass. The third system features a treble staff with eighth notes and a bass staff with quarter notes. The fourth system concludes with a treble staff ending on a half note G4 and a bass staff ending on a half note G2.

For audio (midi): [gfmt-5-3-4-3-12-3-11-5-10-7-8-6-9-3-9-9-5-6-5-4-3-1-3-2-5-1-5-2-3-5-6-1.mid](#)

5-4-2-11-7-3-5-8-5-9-12-9-3-6-3-2-1-5-5-5-2-2-5-2-2-5-3-4-4-4-4-6

gfmt::40:95:141:61:154:46:159:127:90:88:108:166:174:136:116:83:72:3:28:53:14:7:44:71:76:85:93:77:57:87:33:21::
Perm. No.: 30947761280959206157884879000

$\text{♩} = 90$

The second piece is a 3/4 time signature piece in G major. It consists of four systems of music. The first system shows a treble staff with a half note G4, followed by eighth notes A4, B4, C5, and a quarter note D5. The bass staff has a half note G2, followed by eighth notes A2, B2, C3, and a quarter note D3. The second system continues with eighth notes in the treble and eighth notes in the bass. The third system features a treble staff with eighth notes and a bass staff with quarter notes. The fourth system concludes with a treble staff ending on a half note G4 and a bass staff ending on a half note G2. The score includes various musical notations such as triplets, trills (tr), and accidentals.

For audio (midi): [gfmt-5-4-2-11-7-3-5-8-5-9-12-9-3-6-3-2-1-5-5-5-2-2-5-2-2-5-3-4-4-4-4-6.mid](#)

5-4-5-11-12-12-8-6-5-12-8-12-6-6-2-4-2-4-4-1-1-1-6-1-6-4-4-1-6-3-3-4
 gfmt::40:95:113:61:28:37:21:107:90:20:57:92:76:136:109:14:56:73:16:25:81:41:52:13:11:67:49:79:51:58:90:21::
 Perm. No.: 28717289429542034007054487728

$\text{♩} = 90$

For audio (midi): [gfmt-5-4-5-11-12-12-8-6-5-12-8-12-6-6-2-4-2-4-4-1-1-1-6-1-6-4-4-1-6-3-3-4.mid](#)

6-6-6-7-5-12-9-7-11-9-2-12-5-4-8-4-6-6-5-2-1-6-2-6-1-3-3-6-5-5-6-5
 gfmt::148:74:163:167:161:37:169:91:102:88:26:92:67:58:89:172:18:45:28:74:81:27:26:61:36:34:93:86:12:23:78:21::
 Perm. No.: 35319194205265378394419250493

$\text{♩} = 90$

For audio (midi): [gfmt-6-6-6-7-5-12-9-7-11-9-2-12-5-4-8-4-6-6-5-2-1-6-2-6-1-3-3-6-5-5-6-5.mid](#)

6-9-11-11-11-9-8-11-3-6-12-11-5-5-10-7-3-2-5-4-4-2-2-3-1-2-2-4-1-3-5-3
 gfmt::148:84:165:61:135:86:21:33:117:143:108:164:67:160:149:8:75:82:28:68:29:7:26:80:36:20:64:77:30:58:50:21::
 Perm. No.: 32433366875314198887508648040

$\text{♩} = 90$

For audio (midi): [gfmt-6-9-11-11-11-9-8-11-3-6-12-11-5-5-10-7-3-2-5-4-4-2-2-3-1-2-2-4-1-3-5-3.mid](#)

7-3-3-6-6-12-6-5-8-5-3-6-10-4-10-2-6-1-4-4-1-3-4-4-5-6-5-3-2-3-4-5
 gfmt::104:06:128:45:80:37:36:100:16:176:126:125:137:58:149:8:18:6:16:68:81:43:2:71:63:92:32:48:8:58:33:21::
 Perm. No.: 30501148450669506067864166613

$\text{♩} = 90$

For audio (midi): [gfmt-7-3-3-6-6-12-6-5-8-5-3-6-10-4-10-2-6-1-4-4-1-3-4-4-5-6-5-3-2-3-4-5.mid](#)

8-7-10-9-10-9-11-12-11-8-2-2-6-12-12-2-1-3-4-2-4-6-3-5-5-2-4-2-4-6-1-4
 gfmt::152:157:42:50:75:86:147:5:102:155:26:9:76:124:44:131:72:39:16:74:29:27:15:71:63:20:49:84:57:60:19:21::
 Perm. No.: 25639832870856849982826944110

$\text{♩} = 90$

For audio (midi): [gfmt-8-7-10-9-10-9-11-12-11-8-2-2-6-12-12-2-1-3-4-2-4-6-3-5-5-2-4-2-4-6-1-4.mid](#)

8-8-9-11-7-3-3-4-4-7-12-10-5-9-7-7-1-4-4-2-1-3-3-5-4-1-5-5-3-6-1-3
 gfmt::152:60:114:61:154:46:134:24:66:71:108:82:67:115:23:151:72:73:16:74:81:43:15:71:22:5:32:96:69:60:19:21::
 Perm. No.: 25613510558779823421483779308

$\text{♩} = 90$

For audio (midi): [gfmt-8-8-9-11-7-3-3-4-4-7-12-10-5-9-7-7-1-4-4-2-1-3-3-5-4-1-5-5-3-6-1-3.mid](#)

9-2-6-5-6-6-5-12-7-10-3-9-10-12-5-8-6-3-6-2-6-4-3-4-5-2-2-5-2-1-5-2

gfmt::119:22:163:85:80:97:159:5:138:77:126:166:137:124:52:170:18:39:62:74:4:55:15:71:63:20:64:96:8:95:50:88::

Perm. No.: 19933004943022325238161264745

$\text{♩} = 90$

This musical score is for a piece in 3/4 time with a tempo of 90. It consists of four systems of two staves each (treble and bass). The key signature has one sharp (F#). The score includes various musical notations such as triplets (marked with '3'), trills (marked with 'tr'), and slurs. The piece concludes with a double bar line and repeat dots.

For audio (midi): [gfmt-9-2-6-5-6-6-5-12-7-10-3-9-10-12-5-8-6-3-6-2-6-4-3-4-5-2-2-5-2-1-5-2.mid](#)

9-7-10-3-2-4-12-12-5-7-10-4-9-5-11-6-6-5-3-1-1-1-6-2-5-5-2-4-4-6-1-1

gfmt::119:157:42:63:105:55:106:5:90:71:19:132:51:160:173:78:18:3:54:25:81:41:52:71:63:85:64:77:57:60:19:66::

Perm. No.: 1848887347830504615438650623

$\text{♩} = 90$

This musical score is for a piece in 3/4 time with a tempo of 90. It consists of four systems of two staves each (treble and bass). The key signature has one sharp (F#). The score includes various musical notations such as triplets (marked with '3'), trills (marked with 'tr'), and slurs. The piece concludes with a double bar line and repeat dots.

For audio (midi): [gfmt-9-7-10-3-2-4-12-12-5-7-10-4-9-5-11-6-6-5-3-1-1-1-6-2-5-5-2-4-4-6-1-1.mid](#)

9-8-10-11-9-12-5-2-8-7-2-4-12-6-7-3-2-6-6-1-2-2-5-5-1-2-1-6-1-4-2

gfmt::119:60:42:61:140:37:159:30:16:71:26:132:12:136:23:151:56:45:62:25:14:7:44:71:63:5:64:79:51:95:33:88::
Perm. No.: 18132530168414760909529871831

$\text{♩} = 90$

The musical score consists of four systems, each with a treble and bass staff. The key signature is one sharp (F#) and the time signature is 3/4. The tempo is marked as quarter note = 90. The score includes various musical notations such as triplets (marked with '3'), trills (marked with 'tr'), and dynamic markings. The piece concludes with a double bar line and repeat dots.

For audio (midi): [gfmt-9-8-10-11-9-12-5-2-8-7-2-4-12-6-7-3-2-6-6-1-2-2-5-5-1-2-1-6-1-4-2.mid](#)

9-8-3-11-4-6-6-10-3-8-4-4-10-7-4-11-4-5-6-3-2-4-3-2-6-4-3-6-1-5-3-4

gfmt::119:60:128:61:153:97:36:123:117:155:15:132:137:162:145:79:40:3:62:1:14:55:15:71:11:67:93:86:30:23:90:21::
Perm. No.: 29147450879175842731030135444

$\text{♩} = 90$

The musical score consists of four systems, each with a treble and bass staff. The key signature is one sharp (F#) and the time signature is 3/4. The tempo is marked as quarter note = 90. The score includes various musical notations such as triplets (marked with '3'), trills (marked with 'tr'), and dynamic markings. The piece concludes with a double bar line and repeat dots.

For audio (midi): [gfmt-9-8-3-11-4-6-6-10-3-8-4-4-10-7-4-11-4-5-6-3-2-4-3-2-6-4-3-6-1-5-3-4.mid](#)

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