

KOEPF

For Alto Flute and Live-Computer

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Das Stück besteht aus einer Folge von 154 Ereignissen (Griffkombinationen) wobei jedes Ereignis einem 4/4-Takt zugeordnet ist.

Die Folge von Ereignissen wird vom Interpreten absolviert und vom Live-Delay (Computer) aufgezeichnet. Das Signal wird vom Computer nach 22 Takten wieder eingespielt und die Summe erneut zum Delay geschickt etc. Dadurch wird das Stück in sieben Teile mit jeweils 22 Takten gegliedert und es entsteht ein siebenstimmiger Kanon. Das Stück und die Delay-Prozedur enden mit dem 154. Ereignis.

Das erste Ereignis jedes Teils muss im ersten Takt des entsprechenden Teils beginnen.

Das letzte Ereignis jedes Teils muss im letzten Takt des entsprechenden Teils enden.

Alle übrigen Ereignisse n können

in Takt n beginnen und enden, oder

in Takt n beginnen und in Takt $n + 1$ übergebunden werden, oder

in Takt $n - 1$ beginnen und in Takt n übergebunden werden.

Innerhalb dieser Grenzen ist die Dauer jedes Ereignisses frei.

Jede Griffkombination soll in einem annähernd gleichbleibenden *mp* realisiert werden. Dabei sind glissandierende Tonhöhen oder stabile Multiphonics ausdrücklich erwünscht.

Das Tempo soll bei ca. $1/4 = 1400$ Millisekunden (d.h. $1/4 = \text{MM } 42,8$) liegen. Damit entspricht die Dauer des Stücks ca. 14.22 Min.

The piece consists of a sequence of 154 events (or fingerings), while each event is allocated to a 4/4 bar.

The sequence of events is executed by the performer and recorded by a computer-based live-delay system. The recording is played back after 22 bars and the combined sound is again sent back to the delay, and so on. The piece is thus divided into seven sections of 22 bars each, generating a seven-part canon. The piece - and the delay procedure - end after the 154th event.

The first event of each section must begin in the first bar of the corresponding section.

The final event of each section must end in the final bar of the corresponding section.

All remaining events n can

begin and end in bar n , or

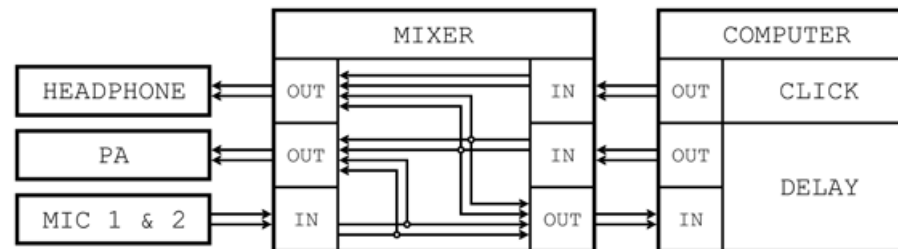
begin in bar n and continue into bar $n + 1$, or

begin in bar $n - 1$ and continue into bar n .

Within these given constraints the duration of every event is up to the performer.

Each fingering should be realized in an approximately constant *mp*. Glissandos or stable sounding multiphonics are explicitly desired.

The tempo should be approximately $1/4 = 1400$ milliseconds (i.e. $1/4 = \text{MM } 42.8$). Thus the duration of the piece is approximately 14.22 min.



1

No:	[Pressed keys]	{Closed tone holes}
1:	[3 7 9 11 13]	{8 9 10 12 13 14 15}
2:	[3 7 9 11 12]	{8 10 12 13 14 15 16}
3:	[3 5 7 11 12]	{5 7 8 10 12 13 15 16}
4:	[5 7 11 12 13]	{3 5 7 8 10 12 13 15}
5:	[3 4 5 7 11 12 13]	{4 5 7 8 10 12 13 15}
6:	[3 5 7 11 13]	{5 7 8 9 10 12 13 15}
7:	[3 7 11]	{8 9 10 12 13 15 16}
8:	[3 7 9 11 14]	{8 9 10 12 13 14 16}
9:	[3 7 8 9 14]	{8 9 10 11 12 14 16}
10:	[3 5 8 9 14]	{5 7 8 9 11 12 14 16}
11:	[3 5 8 9 13]	{5 7 8 9 11 12 14 15}
12:	[3 6 8 9 13]	{6 7 9 11 12 14 15}
13:	[3 6 7 9 13]	{6 7 8 9 10 12 14 15}
14:	[3 5 6 7 9 12 13]	{5 6 7 8 10 12 14 15}
15:	[3 6 7 9 10 12 13]	{6 7 8 10 12 13 14 15}
16:	[3 5 6 7 10 12 13]	{5 6 7 8 10 12 13 15}
17:	[3 6 7 10 13]	{6 7 8 9 10 12 13 15}
18:	[3 6 7 10 12]	{6 7 8 10 12 13 15 16}
19:	[3 6 7 9 10 12 14]	{6 7 8 10 12 13 14 16}
20:	[3 6 7 8 9 12 14]	{6 7 8 10 11 12 14 16}
21:	[3 7 8 9 12]	{8 10 11 12 14 15 16}
22:	[3 6 7 9 12]	{6 7 8 10 12 14 15 16}

2

No:	[Pressed keys]	{Closed tone holes}
23:	[3 4 6 7 9 12 14]	{4 6 7 8 10 12 14 16}
24:	[3 4 6 7 9 12 13]	{4 6 7 8 10 12 14 15}
25:	[3 4 6 7 10 12 13]	{4 6 7 8 10 12 13 15}
26:	[3 6 7 8 10 12 13]	{6 7 8 10 11 12 13 15}
27:	[3 6 7 8 9 12 13]	{6 7 8 10 11 12 14 15}
28:	[3 7 8 9 13]	{8 9 10 11 12 14 15}
29:	[3 7 8 10 13]	{8 9 10 11 12 13 15}
30:	[3 6 8 10 13]	{6 7 9 11 12 13 15}
31:	[3 5 8 10 13]	{5 7 8 9 11 12 13 15}
32:	[3 5 7 8 10 12 13]	{5 7 8 10 11 12 13 15}
33:	[3 7 8 10 12]	{8 10 11 12 13 15 16}
34:	[3 7 8 9 10]	{8 9 10 11 12 13 14 15 16}
35:	[3 6 8 9 10]	{6 7 9 11 12 13 14 15 16}
36:	[3 4 6 8 9 10 13]	{4 6 7 9 11 12 13 14 15}
37:	[3 4 6 8 10]	{4 6 7 9 11 12 13 15 16}
38:	[4 6 8 10 13]	{3 4 6 7 9 11 12 13 15}
39:	[4 6 8 9 13]	{3 4 6 7 9 11 12 14 15}
40:	[3 4 6 8 9]	{4 6 7 9 11 12 14 15 16}
41:	[3 4 6 8 9 10 14]	{4 6 7 9 11 12 13 14 16}
42:	[4 6 8 9 14]	{3 4 6 7 9 11 12 14 16}
43:	[3 6 8 9 14]	{6 7 9 11 12 14 16}
44:	[3 6 7 9 14]	{6 7 8 9 10 12 14 16}

3

No:	[Pressed keys]	{Closed tone holes}
45:	[3 7 9 11]	{8 9 10 12 13 14 15 16}
46:	[3 5 7 9 11 12]	{5 7 8 10 12 13 14 15 16}
47:	[3 4 5 7 9 11 12 13]	{4 5 7 8 10 12 13 14 15}
48:	[3 5 7 9 11 13]	{5 7 8 9 10 12 13 14 15}
49:	[3 5 7 9 13 15]	{5 7 8 9 10 12 14 15}
50:	[3 4 5 7 9 12 13 15]	{4 5 7 8 10 12 14 15}
51:	[3 4 5 7 8 9 12 13]	{4 5 7 8 10 11 12 14 15}
52:	[3 5 7 8 9 10 12 13]	{5 7 8 10 11 12 13 14 15}
53:	[3 5 8 9 10 13]	{5 7 8 9 11 12 13 14 15}
54:	[3 5 8 9 10 14]	{5 7 8 9 11 12 13 14 16}
55:	[3 4 5 8 9 14]	{4 5 7 8 9 11 12 14 16}
56:	[3 4 6 8 9 14]	{4 6 7 9 11 12 14 16}
57:	[3 4 6 7 9 14]	{4 6 7 8 9 10 12 14 16}
58:	[4 6 7 9 12 14]	{3 4 6 7 8 10 12 14 16}
59:	[4 6 7 9 12 13]	{3 4 6 7 8 10 12 14 15}
60:	[3 4 5 6 7 9 12 13]	{4 5 6 7 8 10 12 14 15}
61:	[3 4 5 6 7 10 12 13]	{4 5 6 7 8 10 12 13 15}
62:	[3 4 6 7 8 10 12 13]	{4 6 7 8 10 11 12 13 15}
63:	[3 4 6 7 8 9 12 13]	{4 6 7 8 10 11 12 14 15}
64:	[3 6 7 8 9 12]	{6 7 8 10 11 12 14 15 16}
65:	[3 6 7 9 10 12]	{6 7 8 10 12 13 14 15 16}
66:	[3 5 6 7 9 10 12 13]	{5 6 7 8 10 12 13 14 15}

4

No:	[Pressed keys]	{Closed tone holes}
67:	[3 5 6 7 9 13]	{5 6 7 8 9 10 12 14 15}
68:	[3 5 7 8 9 13]	{5 7 8 9 10 11 12 14 15}
69:	[3 4 5 8 9 13]	{4 5 7 8 9 11 12 14 15}
70:	[3 4 6 8 9 13]	{4 6 7 9 11 12 14 15}
71:	[3 4 6 8 10 13]	{4 6 7 9 11 12 13 15}
72:	[3 4 5 8 10 13]	{4 5 7 8 9 11 12 13 15}
73:	[3 4 5 7 8 10 12 13]	{4 5 7 8 10 11 12 13 15}
74:	[3 5 6 7 8 10 12 13]	{5 6 7 8 10 11 12 13 15}
75:	[3 6 7 8 10 13]	{6 7 8 9 10 11 12 13 15}
76:	[3 6 7 10]	{6 7 8 9 10 12 13 15 16}
77:	[3 7 8 10]	{8 9 10 11 12 13 15 16}
78:	[3 8 9 10]	{9 11 12 13 14 15 16}
79:	[3 6 8 9 10 13]	{6 7 9 11 12 13 14 15}
80:	[3 6 8 10]	{6 7 9 11 12 13 15 16}
81:	[3 6 8 9]	{6 7 9 11 12 14 15 16}
82:	[3 7 8 9]	{8 9 10 11 12 14 15 16}
83:	[3 7 8 9 10 13]	{8 9 10 11 12 13 14 15}
84:	[3 5 7 8 10 13]	{5 7 8 9 10 11 12 13 15}
85:	[3 5 7 8 10 12]	{5 7 8 10 11 12 13 15 16}
86:	[3 5 7 8 9 10 12 14]	{5 7 8 10 11 12 13 14 16}
87:	[5 7 8 9 12 14]	{3 5 7 8 10 11 12 14 16}
88:	[5 7 9 11 12 14]	{3 5 7 8 10 12 13 14 16}

5

No:	[Pressed keys]	{Closed tone holes}
89:	[3 4 5 7 9 11 12 14]	{4 5 7 8 10 12 13 14 16}
90:	[3 4 5 7 11 12]	{4 5 7 8 10 12 13 15 16}
91:	[3 4 5 7 11 13]	{4 5 7 8 9 10 12 13 15}
92:	[4 5 7 11 12 13]	{3 4 5 7 8 10 12 13 15}
93:	[5 7 11 12]	{3 5 7 8 10 12 13 15 16}
94:	[3 5 7 11 12 13]	{5 7 8 10 12 13 15}
95:	[5 7 9 11 12 13]	{3 5 7 8 10 12 13 14 15}
96:	[5 7 11 13]	{3 5 7 8 9 10 12 13 15}
97:	[3 5 7 11]	{5 7 8 9 10 12 13 15 16}
98:	[3 5 7 9 11 14]	{5 7 8 9 10 12 13 14 16}
99:	[3 5 7 8 9 14]	{5 7 8 9 10 11 12 14 16}
100:	[3 4 5 7 8 9 12 14]	{4 5 7 8 10 11 12 14 16}
101:	[3 4 6 7 8 9 12 14]	{4 6 7 8 10 11 12 14 16}
102:	[3 6 7 8 9 10 12 14]	{6 7 8 10 11 12 13 14 16}
103:	[3 6 8 9 10 14]	{6 7 9 11 12 13 14 16}
104:	[3 7 8 9 10 14]	{8 9 10 11 12 13 14 16}
105:	[3 6 7 9 10 14]	{6 7 8 9 10 12 13 14 16}
106:	[3 6 7 9 10 13]	{6 7 8 9 10 12 13 14 15}
107:	[3 5 6 7 10 13]	{5 6 7 8 9 10 12 13 15}
108:	[3 5 6 8 10 13]	{5 6 7 8 9 11 12 13 15}
109:	[3 5 6 8 9 13]	{5 6 7 8 9 11 12 14 15}
110:	[5 8 9 13]	{3 5 7 8 9 11 12 14 15}

6

No:	[Pressed keys]	{Closed tone holes}
111:	[5 8 9 14]	{3 5 7 8 9 11 12 14 16}
112:	[3 5 8 9]	{5 7 8 9 11 12 14 15 16}
113:	[3 5 8 10]	{5 7 8 9 11 12 13 15 16}
114:	[5 8 10 13]	{3 5 7 8 9 11 12 13 15}
115:	[5 7 8 10 12 13]	{3 5 7 8 10 11 12 13 15}
116:	[5 6 7 10 12 13]	{3 5 6 7 8 10 12 13 15}
117:	[5 6 7 9 12 13]	{3 5 6 7 8 10 12 14 15}
118:	[3 5 6 7 8 9 12 13]	{5 6 7 8 10 11 12 14 15}
119:	[3 6 7 8 9 10 12 13]	{6 7 8 10 11 12 13 14 15}
120:	[3 6 7 9 12 13]	{6 7 8 10 12 14 15}
121:	[3 6 7 10 12 13]	{6 7 8 10 12 13 15}
122:	[3 4 6 7 9 10 12 13]	{4 6 7 8 10 12 13 14 15}
123:	[3 4 6 7 9 10 12 14]	{4 6 7 8 10 12 13 14 16}
124:	[3 4 6 7 9 12]	{4 6 7 8 10 12 14 15 16}
125:	[3 5 6 7 9 12]	{5 6 7 8 10 12 14 15 16}
126:	[3 5 7 9 12 15]	{5 7 8 10 12 14 15 16}
127:	[3 7 9 15]	{8 9 10 12 14 15 16}
128:	[3 6 7 9]	{6 7 8 9 10 12 14 15 16}
129:	[3 6 7 9 12 14]	{6 7 8 10 12 14 16}
130:	[3 6 7 8 9 14]	{6 7 8 9 10 11 12 14 16}
131:	[3 6 7 8 9 13]	{6 7 8 9 10 11 12 14 15}
132:	[3 4 6 7 9 13]	{4 6 7 8 9 10 12 14 15}

7

No:	[Pressed keys]	{Closed tone holes}
133:	[3 4 6 7 10 13]	{4 6 7 8 9 10 12 13 15}
134:	[4 6 7 10 12 13]	{3 4 6 7 8 10 12 13 15}
135:	[3 4 6 7 10 12]	{4 6 7 8 10 12 13 15 16}
136:	[3 5 6 7 10 12]	{5 6 7 8 10 12 13 15 16}
137:	[3 6 7 8 10 12]	{6 7 8 10 11 12 13 15 16}
138:	[3 7 8 9 10 12]	{8 10 11 12 13 14 15 16}
139:	[3 5 7 8 9 12]	{5 7 8 10 11 12 14 15 16}
140:	[5 7 8 9 12 13]	{3 5 7 8 10 11 12 14 15}
141:	[5 7 9 12 13 15]	{3 5 7 8 10 12 14 15}
142:	[3 5 7 9 15]	{5 7 8 9 10 12 14 15 16}
143:	[3 4 5 7 9 12 15]	{4 5 7 8 10 12 14 15 16}
144:	[4 5 7 9 12 13 15]	{3 4 5 7 8 10 12 14 15}
145:	[5 7 9 12 15]	{3 5 7 8 10 12 14 15 16}
146:	[5 7 9 13 15]	{3 5 7 8 9 10 12 14 15}
147:	[3 4 5 7 9 13 15]	{4 5 7 8 9 10 12 14 15}
148:	[3 5 7 9 12 13 15]	{5 7 8 10 12 14 15}
149:	[3 5 7 9 11 12 13]	{5 7 8 10 12 13 14 15}
150:	[3 5 7 9 11 12 14]	{5 7 8 10 12 13 14 16}
151:	[3 5 7 8 9 12 14]	{5 7 8 10 11 12 14 16}
152:	[3 7 8 9 10 12 14]	{8 10 11 12 13 14 16}
153:	[3 7 8 9 10 12 13]	{8 10 11 12 13 14 15}
154:	[3 5 7 8 9 12 13]	{5 7 8 10 11 12 14 15}

