

# **MusicTypewriter**

**Instrumental Keying (clef) to any Text**

# I. Piano keying

SPIN20.4-MT.2020.12.08-JTH.EN

|           |   |             |   |   |            |   |             |   |   |            |   |           |   |           |   |   |          |   |           |   |   |          |   |         |   |           |  |          |  |           |  |          |  |         |  |             |  |            |  |
|-----------|---|-------------|---|---|------------|---|-------------|---|---|------------|---|-----------|---|-----------|---|---|----------|---|-----------|---|---|----------|---|---------|---|-----------|--|----------|--|-----------|--|----------|--|---------|--|-------------|--|------------|--|
| AIS2   B2 |   | CIS1   DES1 |   |   | DIS1   ES1 |   | FIS1   GES1 |   |   | GIS1   AS1 |   | AIS1   B1 |   | CIS   DES |   |   | DIS   ES |   | FIS   GES |   |   | GIS   AS |   | AIS   B |   | cis   des |  | dis   es |  | fis   ges |  | gis   as |  | ais   b |  | cis'   des' |  | dis'   es' |  |
| u         |   | a           |   | e |            | i |             | o |   | u          |   |           |   | a         |   | e |          |   |           | i |   | o        |   | u       |   | a         |  | e        |  | i         |  | o        |  | u       |  | a           |  | e          |  |
| A         | B | C           | D | E | F          | G | H           | I | J | K          | L | M         | N | O         | P | Q | R        | S | T         | U | V | W        | X | Y       | Z |           |  |          |  |           |  |          |  |         |  |             |  |            |  |

subcontra  
octave

contra octave

great octave

small octave

A2 H2 C1 D1 E1 F1 G1 A1 H1 C D E F G A H c d e f g a h c' d' e'

fis' | ges'  
gis' | as'  
ais' | b'

cis'' | des''  
dis'' | es''

fis''' | ges'''  
gis''' | as'''  
ais''' | b'''

cis'''' | des''''  
dis'''' | es''''

fis'''' | ges''''  
gis'''' | as''''  
ais'''' | b''''

cis''''' | des'''''  
dis''''' | es'''''

fis''''' | ges'''''  
gis''''' | as'''''  
ais''''' | b'''''

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |  |   |  |   |  |   |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|--|---|--|---|--|---|--|--|--|
| i |   | o |   | u |   | a |   | e |   | i |   | o |   | u |   | a |   | e |   | i |   | o |   | u |   | a |  | e |  | i |  | o |  | u |  |  |  |
| a | b | c | d | e | f | g | h | i | j | k | l | m | n | o | p | q | r | s | t | u | v | w | x | y | z |   |  |   |  |   |  |   |  |   |  |  |  |

two-line octave

three-line octave

four-line octave

f' g' a' h' c'' d'' e'' f''' g''' a''' h''' c'''' d'''' e'''' f'''' g'''' a'''' h'''' c''''' d''''' e''''' f''''' g''''' a''''' h''''' c''''''

## II. Guitar strings

|                      |           |         |           |       |          |         |           |           |          |           |         |                  |
|----------------------|-----------|---------|-----------|-------|----------|---------|-----------|-----------|----------|-----------|---------|------------------|
| octave upwards       |           |         |           |       |          |         |           |           |          |           |         |                  |
| octave downwards     | <b>e'</b> | f1 eis1 | fis1 ges1 | g1    | gis1 as1 | a1      | ais1 b1   | h1 ces2   | c2 his2  | cis2 des2 | d2      | dis2 es2 e2 fes2 |
|                      | <b>h</b>  | c1 his  | cis1 des1 | d1    | dis1 es1 | e1 fes1 | f1 eis1   | fis1 ges1 | g1       | gis1 as1  | a1      | ais1 b1 h1 ces2  |
|                      | <b>g</b>  | gis as  | a         | ais b | h ces1   | c1 his1 | cis1 des1 | d1        | dis1 es1 | e1 fes1   | f1 eis1 | fis1 ges1 g1     |
|                      | <b>d</b>  | dis es  | e fes     | eis f | fis ges  | g       | gis as    | a         | ais b    | h ces1    | c1 his1 | cis1 des1 d1     |
|                      | <b>A</b>  | AlS B   | H ces     | c his | cis des  | d       | dis es    | e fes     | f eis    | fis ges   | g       | gis as a         |
|                      | <b>E</b>  | F EIS   | FIS GES   | G     | GIS AS   | A       | AlS B     | H ces     | c his    | cis des   | d       | dis es e fes     |
| white piano keys     |           | 1       | 2         | 3     | 4        | 5       | 6         | 7         | 8        | 9         | 10      | 11 12            |
|                      | <b>Z</b>  | a z     | ai ib     | b     | bo oc    | c       | cu ud     | d e       | e d      | ea af     | f       | fe eg g h        |
|                      | <b>W</b>  | X W     | Xa ay     | Y     | Ye ez    | Z az    | a z       | ai ib     | b        | bo oc     | c       | cu ud d e        |
|                      | <b>U</b>  | uo ov   | V         | Vu uw | W X      | X W     | Xa ay     | Y         | Ye ez    | Z az      | a z     | ai ib b          |
|                      | <b>R</b>  | Re es   | S St      | T ts  | Ti iu    | U       | uo ov     | V         | Vu uw    | W X       | X W     | Xa ay Y          |
|                      | <b>O</b>  | Ou up   | P Q       | Q P   | Qa ar    | R       | Re es     | S St      | T st     | Ti iu     | U       | uo ov V          |
| consonantal alphabet |           |         |           |       |          |         |           |           |          |           |         |                  |
|                      | <b>L</b>  | M L     | Ti iu     | N     | No oo    | O       | Ou up     | P Q       | Q P      | Qa ar     | R       | Re es S St       |

# IIIa. Percussion notation (basics)

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great octave ——— small octave ——— one-line octave ——— two-line octave ———

VIOLIN

BASS

DRUMS & CYMBALS  
NEUTRAL CLEF

Bass drum 1  
acoustic Bass drum  
Tom 3 / low floor tom-tom  
high floor tom-tom  
Snare / low tom-tom  
Tom 2 / acoustic Snare  
Side (cross) stick / electric Snare  
low wood block  
low mid tom-tom  
high wood block  
Tom 1 / high mid tom-tom  
high tom-tom  
open Hi-hat  
mounted Triangle  
Pedal hi-hat (light)  
Pedal hi-hat (medium)  
Bass drum 1 (accent)  
acoustic Bass drum (accent)  
Tom 3 / low floor tom-tom (accent)  
high floor tom-tom (accent)  
Snare / low tom-tom (accent)  
mounted Tambourine / Maraca  
Tom 2 / acoustic Snare (accent)  
low mid tom-tom  
high tom-tom (accent)  
Cowbell  
high tom-tom (light)  
Hi-Hat / Ride Cymbal  
Ride  
Bell of Ride  
closed Hi-hat  
Crash  
Crash Cymbal  
Crash Cymbal  
Splash Cymbal  
open Triangle

- |                 |              |  |                           |
|-----------------|--------------|--|---------------------------|
| — light accent  | ♮ natural    | ▲ hand / stick                                 | ■ cymbal (one dit)        |
| > medium accent | ♭ flat sign  | × hi-hat with foot // cymbal with hand / stick | ■ drum (one dah)          |
| ^ heavy accent  | # sharp sign | ⊗ bell / rattle                                | o / + open / close hi-hat |

### IIIb. Percussion notation (extended)

PIANO KEYS  
ACOUSTIC  
EQUIVALENT

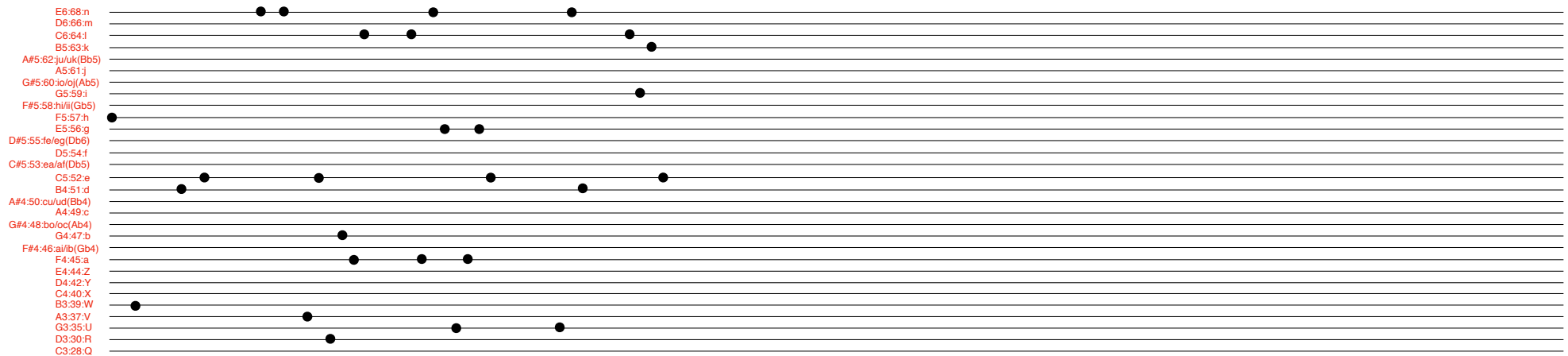
TYPOGRAPHY  
TO PLAY COLUMN  
BY COLUMN FROM  
TOP TO BOTTOM

DRUMS  
& CYMBALS  
CONSONANTAL  
EQUIVALENT  
TO PIANO

# IV. Mutual Keying for Punched Tapes (Flexowriter)

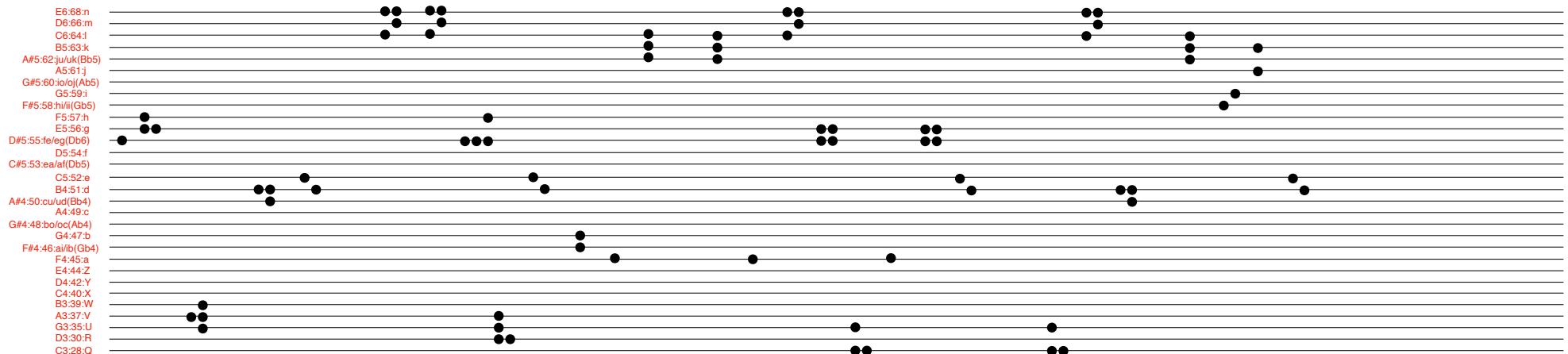
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a) Equivalent to unmuted Piano Keying (Consonantal Alphabet), example given: How does non-verbal language sound like?



Some letters like o and s cannot be mapped tonally because they are outside the Octave space. An invisible point is left as a simple pause for missing letters. The space between words is three invisible points. Special characters such as question marks and hyphens cannot be mapped. There is no difference between upper and lower case. The melody is much shorter and less complex than in example b).

b) Equivalent to 9-dot-VisualBraille (Basic Latin), example given: How does non-verbal language sound like?



H . . o . w . d . o . e . s . n . o . n - . . v . e . r . b . a . l . l . a . n . g . u . a . g . e . s . o . u . n . d . l . i . k . e . ? .

Some letters cannot be assigned inside the limited Octave space when using VisualBraille as a font. Typography in VisualBraille read row by row: 1st row (dot 1,2,3), 2nd row (dot 4,5,6) and 3rd row (dot 7,8,9). Instead of example a) letters punched multiple times. Punchable letters are mapped as chords. First dot of each glyph marked the start of a letter (chord). The unpunched space between words is three rows long. Special characters such as hyphens starts on note h. Each punctuation has its own dot arrangement. There is a preceded capital sign (dot 6) to make a difference between upper H and lower case h. For letters and characters outside the Octave range unpunched pause of one row (point) is left.