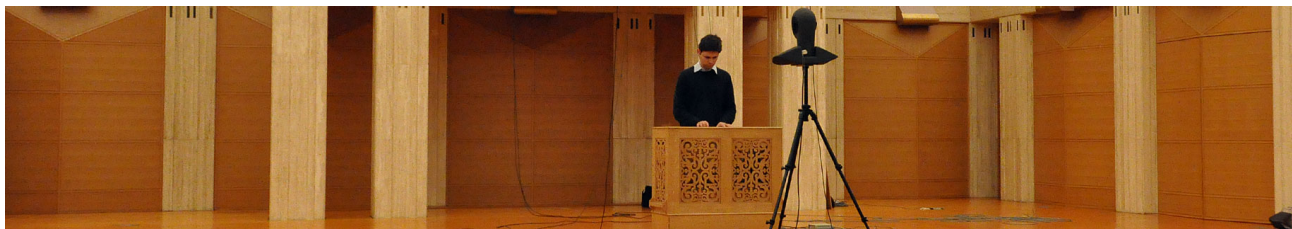


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## MIDI NOTE NUMBERS AND CENTER FREQUENCIES

The following table summarizes the MIDI note numbers as defined in the MIDI standard and matched to the Middle C (note number 60) as C4.

The formula connecting the MIDI note number and the base frequency - assuming equal tuning based on A4=a'=440 Hz - is:

$$f = 440 \cdot 2^{(n-69)/12}$$

| MIDI note number            | Key number<br>(Organ) | Key number<br>(Piano) | Note names<br>(English) | Note names<br>(German) | Frequency (Equal tuning at<br>440 Hz) |
|-----------------------------|-----------------------|-----------------------|-------------------------|------------------------|---------------------------------------|
| top of MIDI tuning<br>range |                       |                       | G#9/Ab9                 | gis''''''/ges''''''    | 13289.75                              |
| 127                         |                       |                       | G9                      | g''''''                | 12543.85                              |
| 126                         |                       |                       | F#9/Gb9                 | fis''''''/ges''''''    | 11839.82                              |
| 125                         |                       |                       | F9                      | f''''''                | 11175.30                              |
| 124                         |                       |                       | E9                      | e''''''                | 10548.08                              |
| 123                         |                       |                       | D#9/Eb9                 | dis''''''/es''''''     | 9956.06                               |
| 122                         |                       |                       | D9                      | d''''''                | 9397.27                               |
| 121                         |                       |                       | C#9/Db9                 | cis''''''/des''''''    | 8869.84                               |
| 120                         |                       |                       | C9                      | c''''''                | 8372.02                               |
| 119                         |                       |                       | B8                      | h''''''                | 7902.13                               |
| 118                         |                       |                       | A#8/Bb8                 | ais''''''/b''''''      | 7458.62                               |
| 117                         |                       |                       | A8                      | a''''''                | 7040.00                               |
| 116                         |                       |                       | G#8/Ab8                 | gis''''''/ges''''''    | 6644.88                               |
| 115                         |                       |                       | G8                      | g''''''                | 6271.93                               |
| 114                         |                       |                       | F#8/Gb8                 | fis''''''/ges''''''    | 5919.91                               |
| 113                         |                       |                       | F8                      | f''''''                | 5587.65                               |
| 112                         |                       |                       | E8                      | e''''''                | 5274.04                               |
| 111                         |                       |                       | D#8/Eb8                 | dis''''''/es''''''     | 4978.03                               |

| MIDI note number | Key number<br>(Organ) | Key number<br>(Piano) | Note names<br>(English) | Note names<br>(German) | Frequency (Equal tuning at<br>440 Hz) |
|------------------|-----------------------|-----------------------|-------------------------|------------------------|---------------------------------------|
| 110              |                       |                       | D8                      | d''''                  | 4698.64                               |
| 109              |                       |                       | C#8/Db8                 | cis''''/des''''        | 4434.92                               |
| 108              |                       | 88                    | C8                      | c''''                  | 4186.01                               |
| 107              |                       | 87                    | B7                      | h''''                  | 3951.07                               |
| 106              |                       | 86                    | A#7/Bb7                 | ais''''/b''''          | 3729.31                               |
| 105              |                       | 85                    | A7                      | a''''                  | 3520.00                               |
| 104              |                       | 84                    | G#7/Ab7                 | gis''''/ges''''        | 3322.44                               |
| 103              |                       | 83                    | G7                      | g''''                  | 3135.96                               |
| 102              |                       | 82                    | F#7/Gb7                 | fis''''/ges''''        | 2959.96                               |
| 101              |                       | 81                    | F7                      | f''''                  | 2793.83                               |
| 100              |                       | 80                    | E7                      | e''''                  | 2637.02                               |
| 99               |                       | 79                    | D#7/Eb7                 | dis''''/es''''         | 2489.02                               |
| 98               |                       | 78                    | D7                      | d''''                  | 2349.32                               |
| 97               |                       | 77                    | C#7/Db7                 | cis''''/des''''        | 2217.46                               |
| 96               | 61                    | 76                    | C7                      | c''''                  | 2093.00                               |
| 95               | 60                    | 75                    | B6                      | h'''                   | 1975.53                               |
| 94               | 59                    | 74                    | A#6/Bb6                 | ais'''/b'''            | 1864.66                               |
| 93               | 58                    | 73                    | A6                      | a'''                   | 1760.00                               |
| 92               | 57                    | 72                    | G#6/Ab6                 | gis'''/as'''           | 1661.22                               |
| 91               | 56                    | 71                    | G6                      | g'''                   | 1567.98                               |
| 90               | 55                    | 70                    | F#6/Gb6                 | fis'''/ges'''          | 1479.98                               |
| 89               | 54                    | 69                    | F6                      | f'''                   | 1396.91                               |
| 88               | 53                    | 68                    | E6                      | e'''                   | 1318.51                               |
| 87               | 52                    | 67                    | D#6/Eb6                 | dis'''/es'''           | 1244.51                               |
| 86               | 51                    | 66                    | D6                      | d'''                   | 1174.66                               |
| 85               | 50                    | 65                    | C#6/Db6                 | cis'''/des'''          | 1108.73                               |
| 84               | 49                    | 64                    | C6                      | c'''                   | 1046.50                               |
| 83               | 48                    | 63                    | B5                      | h''                    | 987.77                                |

| MIDI note number | Key number<br>(Organ) | Key number<br>(Piano) | Note names<br>(English) | Note names<br>(German) | Frequency (Equal tuning at<br>440 Hz) |
|------------------|-----------------------|-----------------------|-------------------------|------------------------|---------------------------------------|
| 82               | 47                    | 62                    | A#5/Bb5                 | ais"/b"                | 932.33                                |
| 81               | 46                    | 61                    | A5                      | a"                     | 880.00                                |
| 80               | 45                    | 60                    | G#5/Ab5                 | gis"/as"               | 830.61                                |
| 79               | 44                    | 59                    | G5                      | g"                     | 783.99                                |
| 78               | 43                    | 58                    | F#5/Gb5                 | fis"/ges"              | 739.99                                |
| 77               | 42                    | 57                    | F5                      | f"                     | 698.46                                |
| 76               | 41                    | 56                    | E5                      | e"                     | 659.26                                |
| 75               | 40                    | 55                    | D#5/Eb5                 | dis"/es"               | 622.25                                |
| 74               | 39                    | 54                    | D5                      | d"                     | 587.33                                |
| 73               | 38                    | 53                    | C#5/Db5                 | cis"/des"              | 554.37                                |
| 72               | 37                    | 52                    | C5                      | c"                     | 523.25                                |
| 71               | 36                    | 51                    | B4                      | h'                     | 493.88                                |
| 70               | 35                    | 50                    | A#4/Bb4                 | ais'/b'                | 466.16                                |
| 69               | 34                    | 49                    | A4 concert pitch        | a' Kammerton           | 440.00                                |
| 68               | 33                    | 48                    | G#4/Ab4                 | gis'/as'               | 415.30                                |
| 67               | 32                    | 47                    | G4                      | g'                     | 392.00                                |
| 66               | 31                    | 46                    | F#4/Gb4                 | fis'/ges'              | 369.99                                |
| 65               | 30                    | 45                    | F4                      | f'                     | 349.23                                |
| 64               | 29                    | 44                    | E4                      | e'                     | 329.63                                |
| 63               | 28                    | 43                    | D#4/Eb4                 | dis'/es'               | 311.13                                |
| 62               | 27                    | 42                    | D4                      | d'                     | 293.66                                |
| 61               | 26                    | 41                    | C#4/Db4                 | cis'/des'              | 277.18                                |
| 60               | 25                    | 40                    | C4 (middle C)           | c' (Schloss-C)         | 261.63                                |
| 59               | 24                    | 39                    | B3                      | h                      | 246.94                                |
| 58               | 23                    | 38                    | A#3/Bb3                 | ais/b                  | 233.08                                |
| 57               | 22                    | 37                    | A3                      | a                      | 220.00                                |
| 56               | 21                    | 36                    | G#3/Ab3                 | gis/as                 | 207.65                                |
| 55               | 20                    | 35                    | G3                      | g                      | 196.00                                |

| MIDI note number | Key number<br>(Organ) | Key number<br>(Piano) | Note names<br>(English) | Note names<br>(German) | Frequency (Equal tuning at<br>440 Hz) |
|------------------|-----------------------|-----------------------|-------------------------|------------------------|---------------------------------------|
| 54               | 19                    | 34                    | F#3/Gb3                 | fis/ges                | 185.00                                |
| 53               | 18                    | 33                    | F3                      | f                      | 174.61                                |
| 52               | 17                    | 32                    | E3                      | e                      | 164.81                                |
| 51               | 16                    | 31                    | D#3/Eb3                 | dis/es                 | 155.56                                |
| 50               | 15                    | 30                    | D3                      | d                      | 146.83                                |
| 49               | 14                    | 29                    | C#3/Db3                 | cis/des                | 138.59                                |
| 48               | 13                    | 28                    | C3                      | c                      | 130.81                                |
| 47               | 12                    | 27                    | B2                      | H                      | 123.47                                |
| 46               | 11                    | 26                    | A#2/Bb2                 | Ais/B                  | 116.54                                |
| 45               | 10                    | 25                    | A2                      | A                      | 110.00                                |
| 44               | 9                     | 24                    | G#2/Ab2                 | Gis/As                 | 103.83                                |
| 43               | 8                     | 23                    | G2                      | G                      | 98.00                                 |
| 42               | 7                     | 22                    | F#2/Gb2                 | Fis/Ges                | 92.50                                 |
| 41               | 6                     | 21                    | F2                      | F                      | 87.31                                 |
| 40               | 5                     | 20                    | E2                      | E                      | 82.41                                 |
| 39               | 4                     | 19                    | D#2/Eb2                 | Dis/Es                 | 77.78                                 |
| 38               | 3                     | 18                    | D2                      | D                      | 73.42                                 |
| 37               | 2                     | 17                    | C#2/Db2                 | Cis/Des                | 69.30                                 |
| 36               | 1                     | 16                    | C2                      | C                      | 65.41                                 |
| 35               |                       | 15                    | B1                      | H1                     | 61.74                                 |
| 34               |                       | 14                    | A#1/Bb1                 | Ais1/b1                | 58.27                                 |
| 33               |                       | 13                    | A1                      | A1                     | 55.00                                 |
| 32               |                       | 12                    | G#1/Ab1                 | Gis1/As1               | 51.91                                 |
| 31               |                       | 11                    | G1                      | G1                     | 49.00                                 |
| 30               |                       | 10                    | F#1/Gb1                 | Fis1/Ges1              | 46.25                                 |
| 29               |                       | 9                     | F1                      | F1                     | 43.65                                 |
| 28               |                       | 8                     | E1                      | E1                     | 41.20                                 |
| 27               |                       | 7                     | D#1/Eb1                 | Dis1/Es1               | 38.89                                 |

| MIDI note number | Key number<br>(Organ) | Key number<br>(Piano) | Note names<br>(English) | Note names<br>(German) | Frequency (Equal tuning at<br>440 Hz) |
|------------------|-----------------------|-----------------------|-------------------------|------------------------|---------------------------------------|
| 26               |                       | 6                     | D1                      | D1                     | 36.71                                 |
| 25               |                       | 5                     | C#1/Db1                 | Cis1/Des1              | 34.65                                 |
| 24               |                       | 4                     | C1                      | C1                     | 32.70                                 |
| 23               |                       | 3                     | B0                      | H2                     | 30.87                                 |
| 22               |                       | 2                     | A#0/Bb0                 | Ais2/B2                | 29.14                                 |
| 21               |                       | 1                     | A0                      | A2                     | 27.50                                 |
| 20               |                       |                       |                         |                        | 25.96                                 |
| 19               |                       |                       |                         |                        | 24.50                                 |
| 18               |                       |                       |                         |                        | 23.12                                 |
| 17               |                       |                       |                         |                        | 21.83                                 |
| 16               |                       |                       |                         |                        | 20.60                                 |
| 15               |                       |                       |                         |                        | 19.45                                 |
| 14               |                       |                       |                         |                        | 18.35                                 |
| 13               |                       |                       |                         |                        | 17.32                                 |
| 12               |                       |                       |                         |                        | 16.35                                 |
| 11               |                       |                       |                         |                        | 15.43                                 |
| 10               |                       |                       |                         |                        | 14.57                                 |
| 9                |                       |                       |                         |                        | 13.75                                 |
| 8                |                       |                       |                         |                        | 12.98                                 |
| 7                |                       |                       |                         |                        | 12.25                                 |
| 6                |                       |                       |                         |                        | 11.56                                 |
| 5                |                       |                       |                         |                        | 10.91                                 |
| 4                |                       |                       |                         |                        | 10.30                                 |
| 3                |                       |                       |                         |                        | 9.72                                  |
| 2                |                       |                       |                         |                        | 9.18                                  |
| 1                |                       |                       |                         |                        | 8.66                                  |
| 0                |                       |                       |                         |                        | 8.18                                  |

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