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# Musical notes & frequencies

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| Note | MIDI number | Frequency | Sonic Pi name | Wemos channels |
|  | 48 |  | :C3 | 00000 |
|  | 49 |  | :Db3 | 00001 |
|  | 50 |  | :D3 | 00010 |
|  | 51 |  | :Eb3 | 00011 |
|  | 52 |  | :E3 | 00100 |
|  | 53 |  | :F3 | 00101 |
|  | 54 |  | :Gb3 | 00110 |
|  | 55 |  | G3 | 00111 |
|  | 56 |  | Ab4 | 01000 |
|  | 57 |  | A4 | 01001 |
|  | 58 |  | :B:b4 | 01010 |
|  | 59 |  | :B4 | 01011 |
|  |  |  |  |  |
| (middle) C | 60 | 261.63 Hz | :C4 | 01100 |
| C♯ / D♭ | 61 | 277.18 Hz | :Db4 | 01101 |
| D | 62 | 293.18 Hz | :D4 | 01110 |
| E♭ / F♯ | 63 | 311.13 Hz | :Eb4 | 01111 |
| E | 64 | 329.63 Hz | :E4 | 10000 |
| F | 65 | 349.23 Hz | :F4 | 10001 |
| F♯ / G♭ | 66 | 369.99 Hz | :Fb4 | 10010 |
| G | 67 | 392.00 Hz | :G4 | 10011 |
| A♭ / G♯ | 68 | 415.30 Hz | :Ab5 | 10100 |
| A | 69 | 440.00 Hz | :A5 | 10101 |
| B♭ / A♯ | 70 | 466.16 Hz | :Bb5 | 10110 |
| B | 71 | 493.88 Hz | :B5 | 10111 |

In Sonic Pi, play :C4, play 60 and play hz\_to\_midi(261.63) all produce the same note.

The next octave up is a doubling of these frequencies. So :C5, note 72, is 2×261.63 = 523.26 Hz.