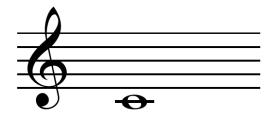
Let's Make Music - Crib Sheet

Table of Name of Notes (low to high)

Table of computer notes, by name							
Table of computer notes, by name							
low←							>high
В0	B1	B2	в3	В4	B5	В6	B7
C1	C2	C3	C4	C5	C6	C7	C8
CS1	CS2	CS3	CS4	CS5	CS6	CS7	CS8
D1	D2	D3	D4	D5	D6	D7	D8
DS1	DS2	DS3	DS4	DS5	DS6	DS7	DS8
E1	E2	E 3	E4	E5	E6	E7	
F1	F2	F3	F4	F5	F6	F7	
FS1	FS2	FS3	FS4	FS5	FS6	FS7	
G1	G2	G3	G4	G5	G6	G7	
GS1	GS2	GS3	GS4	GS5	GS6	GS7	
A1	A2	A 3	A4	A 5	A 6	A 7	
AS1	AS2	AS3	AS4	AS5	AS6	AS7	

"C3" is middle C, That is:



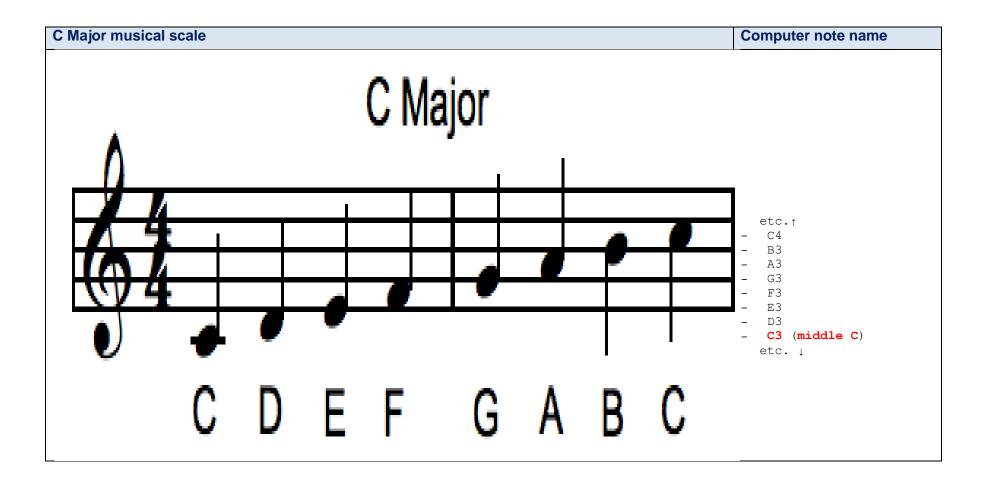


Table of Computer Note & Rest Names, Values, Beats & Symbols

Note duration name	Note/Rest duration time computer name	Note/Rest values	Note/Rest value	Number of beats	Note symbol	Rest symbol
Semi-brieve	semib	Whole note/rest	1	4 beats	o	-
Dotted minim	dot_minim	Three quarter note/rest	3/4	3 beats	J.	
Minim	minim	Half note/rest	1/2	2 beats		_
Crotchet	crot	Quarter note/rest	1/4	1 beat	ا	\$
Quaver	quav	Eight note/rest	1/8	1/2 beat)	7
Semiquaver	semiq	Sixteenth note/rest	1/16	1/4 beat	A	7

Durations may be compounded and/or arithmetically adjusted in all music commands (play and rest). For example,

```
play(AS5, crot + quav); // 1.5 beats
play(C6, quav + semiq); // 0.75 beats
play(B2, semib * 1.5); // 6 beats
play(FS4, crot + semiq); // 1.25 beats
play(DS3, quav + quav); // 1 beat
play(D6, crot / 3); // 1/3 beat
play(DS4, dot_minim + minim); // 5 beats
rest(quav + semiq); // 0.75 beats
rest(crot + semiq); // 1.25 beats
rest(semib * 1.75); // 7 beats
rest(semiq / 2); // 1/8 beats, demisemiquaver
etc.
```

In-built computer tempos

Computer tempo names	Number beats	Other computer names	Comments		
	per minute				
grave	40		The time interval for a crotch is automatically		
largo	46		calculated as:		
lento	52		60/tempo.		
adagio	56				
larghetto	60		Other notes are then calculated based on the		
adagietto	66		crotchet value.		
andante	72				
andantino	80		Use set tempo to change tempo value for notes		
maestroso	88		and rests.		
moderato	100				
allegretto	104		Note that any tempo value may be set, e.g.		
animato	120	default_tempo			
allegro	132		<pre>set_tempo(default_tempo * 1.5);</pre>		
allegro_assai	144		set_tempo(190);		
vivace	160		set_tempo(adagio * 2);		
presto	184		set_tempo(95);		
prestissimo	208		etc.		

Music commands

Command	Parameters	Description	Examples
play	note name,	Plays the given note for the given duration.	<pre>play(C4, minim);</pre>
	note duration time	Time duration can be given explicitly as seconds/fraction	play(FS3, 3.5); // play for 3.5 beats
		of seconds or as a computer note/rest value, see table	
		above - Computer Note & Rest Name Values.	
rest	rest duration time	Rests for the given duration (period of silence).	rest(crot);
		Time duration can be given explicitly as seconds/fraction	rest(minim+quav);
		of seconds or as a computer note/rest name value.	rest(4);
set_tempo	tempo time	Sets the tempo for playing notes/rests. The	<pre>set_tempo(default_tempo);</pre>
		'default tempo' is 120 beats per minute (animato).	<pre>set_tempo(default_tempo * 1.5);</pre>
		The currently set tempo may be queried at any time by	<pre>set_tempo(allegro);</pre>
		reference to the variable 'current_tempo'.	
		The computer will wait for the given duration time during	wait(3.5);
wait	duration time	which time no new commands can be executed.	wait(0.25);
		Note that any lights set to flash will continue to flash while	<pre>wait(crot); // wait for 1 beat</pre>
		the wait command is pending.	

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