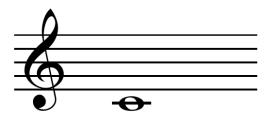
Let's Make Music - Crib Sheet

Table of Note Names (low to high)

Table of computer notes, by name							
low←	low						
в0	B1	B2	В3	B4	B5	В6	В7
C1	C2	С3	C4	C5	C6	C7	C8
CS1/DF1	CS2/DF2	CS3/DF3	CS4/DF4	CS5/DF5	CS6/DF6	CS7/DF7	CS8/DF8
D1	D2	D3	D4	D5	D6	D7	D8
DS1/EF1	DS2/EF2	DS3/EF3	DS4/EF4	DS5/EF5	DS6/EF6	DS7/EF7	DS8/EF8
E1	E2	E3	E4	E5	E6	E7	
F1	F2	F 3	F4	F 5	F6	F 7	
FS1/GF1	FS2/GF2	FS3/GF3	FS4/GF4	FS5/GF5	FS6/GF6	FS7/GF7	
G1	G2	G3	G4	G5	G6	G 7	
GS1/AF1	GS2/AF2	GS3/AF3	GS4/AF4	GS5/AF5	GS6/AF6	GS7/AF7	
A1	A2	A3	A4	A 5	A6	A7	
AS1/BF1	AS2/BF2	AS3/BF3	AS4/BF4	AS5/BF5	AS6/BF6	AS7/BF7	

To note:

- 1. Sharps and flats are indicated by the note being modified with an "S" or "F", respectively. E.g. A3 flat is AF3, F6 sharp is FS6, etc.
- 2. "C4" is middle C, That is:



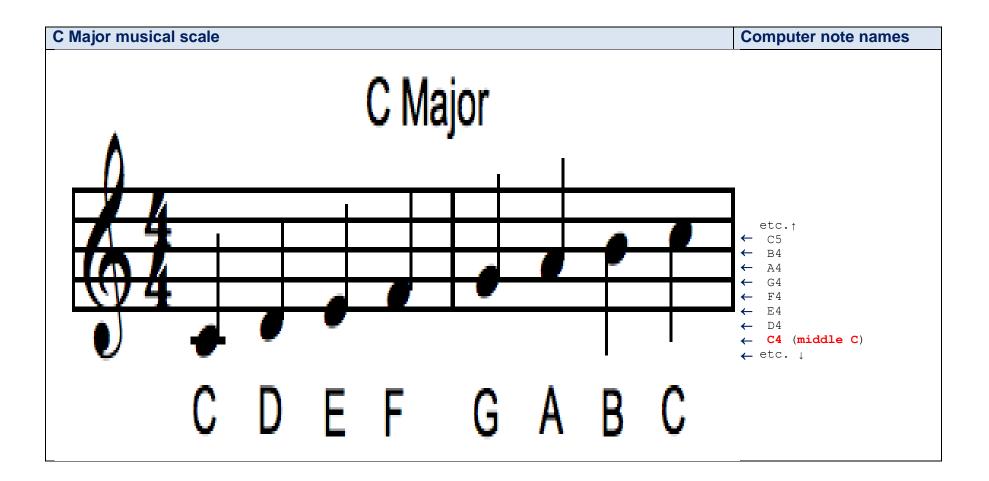


Table of Computer Note & Rest Duration Names, Values, Beats & Symbols

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	ا	_
Crotchet	crot	Quarter note/rest	1/4	1 beat		*
Quaver	quav	Eight note/rest	1/8	1/2 beat	>	7
Semi-quaver	semiq	Sixteenth note/rest	1/16	1/4 beat	A	7
Demi-semi-quaver	demi_semiq	Thirty second note/rest	1/32	1/8 beat	,	*

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

In-built computer tempos

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

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 duration can be given explicitly as	play(FS3, 3.5); // play for 3.5
	time	seconds/fraction of seconds or as a computer note/rest	beats
		value, see table above - Computer Note & Rest Name	
		Values.	
rest	rest duration	Rests for the given duration (period of silence).	rest(crot); // rest for 1 beat
	time	Time duration can be given explicitly as	rest(minim + quav);
		seconds/fraction of seconds or as a computer note/rest	<pre>rest(demi_semiq);</pre>
		name value.	
set_tempo	beats per	Sets the tempo for playing notes/rests. The	<pre>set_tempo(default_tempo);</pre>
	minute	'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'.	set_tempo(135);
trill	note_1,	performs a trill with the given two notes for the given	trill(C4, CS4, crot);// trill up
	note_2,	duration, eg trill(C4, DF4, minim), trill(E3,	trill(EF2, D2, minim);// trill down
	note duration	F3, quav), etc. By default and OOTB, the trill	trill(D5, E5, quav);// trill up
		performs eight note changes per crotchet, or part	
		thereof, depending on the duration given in its function	
		call, irrespective of the tempo set. If fewer or more note	
		changes per crotchet are required then reset the	
		definition 'trills per crotchet'.	
		The computer will wait for the given duration time	<pre>wait(3.5); // wait for 3.5 seconds</pre>
		(seconds) during which time no new commands can be	wait(0.25); // wait for ¼ second
wait	duration time	executed.	wait(crot); // wait for 1 beat
		Note that any lights set to flash will continue to flash	
		while the wait command is pending.	

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