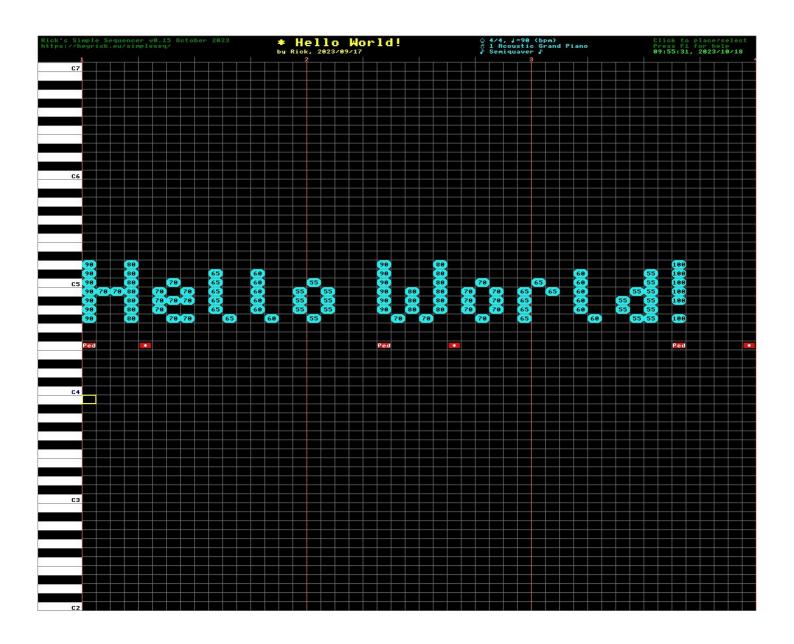
# SimpleSeq

# Rick's Simple MIDI Sequencer

v0.28



# **Introduction**

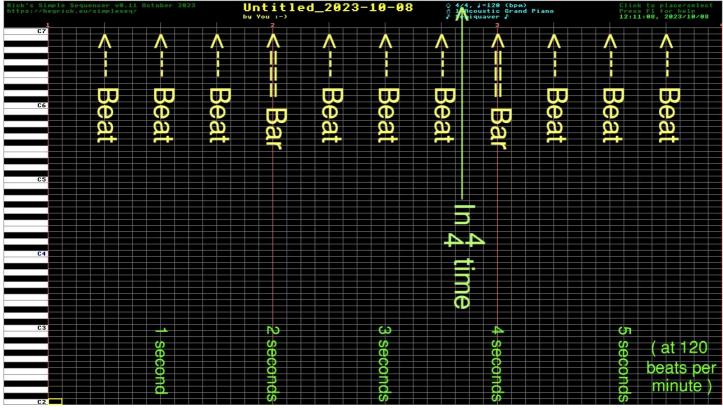
I never found I got on with notation. While it isn't that hard to understand, there is no obvious relationship between the notes as they appear, and their durations. For example, each of the bars below take the same amount of time. As you can see, the smaller the note durations, the more there are, so the more space it takes. It's sort of back to front, isn't it?



A sequencer is a different way of looking at music, in which there is a simple and direct temporal relationship between the notes played, and how long they play for.

The screen is drawn as a large grid. Up and down this grid are the musical notes. There are sixty one notes available, which corresponds to the size of an entry/mid level keyboard such as one of the Yamaha PSR series, or a Roland Juno-DS, etc.

Across the grid represents time. In *SimpleSeq*, the smallest possible note duration is a *semiquaver*, or a quarter of a *crotchet*. There are therefore four per beat, and  $(in \frac{4}{4} time)$ , four beats to a bar (also known as a measure).



In  $\frac{4}{4}$  (common) time, at 120 beats per minute, this means each crotchet/beat happens every half second, and every semiquaver happens every 12.5 centiseconds, or an 8<sup>th</sup> of a second. Obviously, you can change the time signature and the tempo.

Beyond that, it's pretty much a point-and-click method of creating music.

# **Limitations**

As this is a simple sequencer (clue in the name), let's get a few things out of the way, so you can decide if this software may prove useful to you, or not.

- Only 61 notes/keys will be supported. Companies such as Yamaha feel that this is a perfectly adequate size for many consumer-level keyboards, it is the size of my keyboards (a Yamaha PSR E-333 and a Roland E-16), and ought to be sufficient for creating many types of music. Note that there is an octave shift function that can be applied to a channel, so while the default range is C2 to C7, you can set any channel to span a *five* octave range between C0 and C9 (see page 9 for details).
- The smallest note supported is a semiquaver. That's a quarter of a beat (if each beat is a crotchet, there are two quavers to a crotchet and two semiquavers to a quaver). At a rate of 120 BPM (kind of normal), each beat happens every half second. Which means you can have eight notes per second, each lasting 0.125 seconds. Granted, it's probably not suitable for epic metal, but then this is a simple sequencer.
- There is a hard limit of 3,840 columns. What this translates to depends upon the BPM, but at <sup>4</sup>/<sub>4</sub> with a BPM of 120, it's eight minutes. Therefore, it'll be four minutes at 240 BPM, or about 10<sup>2</sup>/<sub>3</sub> minutes at 90 BPM.
- The saved files are large (and sparse), as is the memory consumed. Speed of access was chosen in preference to clever encoding. It's basically one word per note per channel per column so a full piece would take around 16MB. SimpleSeq, however, only saves to file as much as is necessary. There is an optional compression that can make significant savings if file size is important.
- Available time signatures are <sup>2</sup>/<sub>2</sub>, <sup>2</sup>/<sub>4</sub>, <sup>3</sup>/<sub>4</sub>, <sup>4</sup>/<sub>6</sub>, <sup>9</sup>/<sub>8</sub>, <sup>6</sup>/<sub>8</sub>.
   For most intents and purposes, this simply alters how and where the guide markers are drawn.
   Time signatures (and BPM) are fixed in a piece and cannot be changed.
- This software runs single-tasking. It is not envisaged that this will ever become a desktop application.
- Three display modes are supported: 1280×720 (HD), 1280×1024 (SXGA), and a fallback to 1024×768 (XGA). *SimpleSeq* will attempt to pick one based upon your monitor geometry, though you can specify which to start with *or* change it on the fly. *SimpleSeq* works best in 1280×1024 (SXGA).

If you have issue with any of these limitations, I'll remind you again, this software is a SIMPLE sequencer.

#### The screen layout

At a first look, the screen is split into three parts. There's some information at the top, some piano keys down the left, and the grid taking up most of the space.

Let's first look at the top of the screen.

L Rick's Simple Sequencer v0.23 February 2024 https://heyrick.eu/simpleseq/	Lame demo 1		0 51,33 (6.4s) Press F1 for help
2	by Rick Murray (2023/08/27) 3	& Semiquaver &	14:44:55, 2024/02/18

The text on the left in green is some information on the software and the website address. Centre left, in yellow/gold, is the music title and author.

Centre right, in cyan, is some information on the music and editor status.

The first symbol is a sort of lightbulb and it is showing that the display is not in dark mode. You can press **F10** to toggle between light and dark modes of display.

Following this, the "4/4" is the time signature. The crotchet symbol followed by a number is telling you the tempo. Here, it's 120 beats per minute.

On the next line, you are informed which channel you are looking at (1) and what the assigned instrument is (Acoustic Grand Piano).

The final line tells you if you are in Semiquaver (normal) mode, or Quaver mode which allows you to see more on-screen at once.

On the right, in green again, is the current position of the editor highlight (both position and time offset), the clock, and a reminder to press **F1** for help.

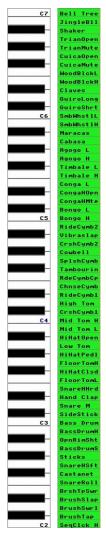
Looking along the top of the grid, you will see some of the grid lines are in red with numbers. These are the bars. The slightly extended vertical grid lines represent the beats. This allows you to line up your music. The placement of bar and beat markers depends upon your selected time signature.

Down the left of the screen, for all channels except channel ten, are the keys. High notes at the top, low notes at the bottom. Feel free to move the mouse pointer and click on any of them. If a MIDI keyboard is connected, you'll hear the same note, in the voice of the selected instrument.

The default range is C2 to C7, matching a basic 61 key keyboard, however with octave shift you can alter this plus or minus two octaves, so a channel could instead span C0 to C5 (for bass instruments) or, say, C3 to C8 (for things like the piccolo). Refer to page 9 for details of octave shifting.

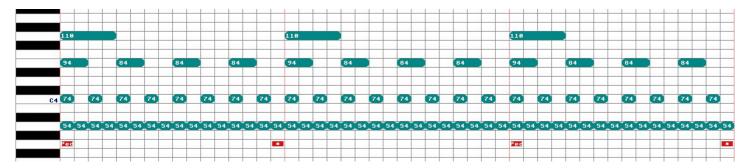
Channel 10 is special. It is used as a percussion channel. Therefore it will be drawn in green instead of piano arrangement, and it will be annotated with brief reminders of what sounds each note represents.

Examples of both styles of keyboard are shown on the right.



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The main area of the screen is the editor grid. This is where music is created.



For those who read music, the above is something sort of like this.



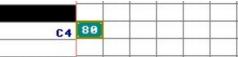
Except, in the sequencer, it's possible to give each note an individual velocity/intensity which could be tricky to notate. For instance, I have marked *mf* (moderately loud) and *mp* (moderately quiet), but in the sequencer there are four different note intensities. I'm sorry, but my understanding of notation isn't good enough to know how to actually notate that. Suffice to say, it's only an example to show the correlation between the two methods of writing music.

You'll notice that the lower left box is highlighted in yellow (note that this may appear elsewhere if you have loaded a file). This is the marker for the current editor position. You can use the **Cursors** to move it around the screen.

# Making music!

Move the highlight **Up** until is is beside the key marked "C4" (this is Middle C). Now press **Space**.

You will see a note appear, with "80" written in it. The eighty is the note's *velocity*, which means how hard it is to be played.



C4 80

Now press **C** to make it be a crotchet (four squares).

Now... simply move the highlight and repeat the process. You can just press **Space** to create semiquavers, then press the first letter of the desired note length: **Q**uaver, **C**rotchet, **M**inim, **S**emibreve, or **B**reve. If you make a mistake, don't worry, just press **Delete**.

# **Using dialogues**

There are numerous dialogues that may appear. These ask you for information or give you warnings about things.

Here are some examples of dialogues.

An informational dialogue:

```
File information
0 0,7 (col 1, bar 1)
Music length (columns) :504
Music length (bars)
                       :21
Milliseconds per beat
                       :500
Music length (seconds) :63.0
Columns per bar
                       :24
Columns per beat
                       :4
MIDI channels in use:
 1, 2, 3
Voice mapping "PSRe333".
                      :472
Voices available
     General MIDI only :No
      Done Channel info
```

An error:



Something that wants input from you:

```
      Music setup

      Title :-no title yet-

      Author :Richard Murray, 2023/10/07

      Time signature :02/2 02/4 03/4 04/4 ●6/4 09/4 06/8 012/8

      Tempo (BPM) :120

      ☑ A beat is a crotchet

      Default velocity :80
```

There is also a "warning" that is like the red error message, but has a magenta border instead of red.

In each case, you'll see there is a *blue* button at the lower right of the screen. In most cases, pressing **Enter** will do the same thing as clicking on that button.

Some dialogues also have a second *greeny-blue* button that is typically used to cancel the action. In *all* cases, pressing **Escape** will behave as if this button had been pressed, *even if the button isn't visible on the screen*.

Where there is a dialogue that you can interact with, there are four types of object that you may encounter, which are demonstrated in this example:



In these sorts of dialogues, you can press **Tab** to bring up a highlight that is a dashed line around one of the editable objects. Here you can see the second one down is highlighted. This means that you can use keypresses to alter the object's state. Press **Tab** to go to the next object.



The first object is a *check box*. This is a simple yes or no choice. Click the check, or press **Space** when highlighted, to toggle its state between checked and unchecked.

The second object is a *radio choice*. Like an old-fashioned radio, you can choose *one* option of those presented. Click the little circle to the left of the descriptive text to select that option (the others will be automatically deselected). When the object is highlighted, you can press **Left** and **Right** to choose.

The third object is *string entry*. This is where you can enter some text, and press **Enter** when you are finished (which will go to the next string if there is one), or press **Tab** to go to the next object. You can click to move the insertion point (the red caret) or move it using **Left** and **Right**. Press **Delete** to delete the character to the left of the caret, or **^U** (that's **Ctrl** and **U** together) to delete everything.

Note that in some cases you may be constrained. File input, for example, won't permit characters such as \$ or # that have special meanings, and some inputs only accept numbers.

The final object is the *choice selection*. This will list provide potentially numerous options and you can choose one by clicking the up and down arrows, or by pressing **Up** and **Down**. Hold down **Shift** at the same time to skip ten options at a time, or hold down **Ctrl** to go to the first or last option in the list.

You cannot **Tab** to the two buttons at the bottom, but then you don't need to. Pressing **Enter** will do the blue button action, while pressing **Esc** will do the green button action.

# Setting the options

One of the first things you'll want to do is to set up the options. To do this, there are *three* separate dialogues: the *music* setup, the *channel* setup, and the *the program* settings.

Press **F8** to set up options relating to the music piece in general:

```
      Music setup

      Title :-no title yet-

      Author :Richard Murray, 2023/10/07

      Time signature :02/2 02/4 03/4 04/4 ●6/4 09/4 06/8 012/8

      Tempo (BPM) :120

      ☑ A beat is a crotchet

      Default velocity :80
```

Here, you can define various attributes of the piece of music that you are creating.

- *Title* a free form entry string.
- *Author* a free form entry string.
- *Time signature* you can choose  $\frac{2}{2}$  (often used for marches),  $\frac{2}{4}$  (polka, bolero...),  $\frac{3}{4}$  (waltzes, minuets...),  $\frac{4}{4}$  (common time, frequently used),  $\frac{6}{4}$  (compound duple),  $\frac{9}{4}$  (compound triple),  $\frac{8}{8}$  (double jig. some polkas...), or  $\frac{12}{8}$  (shuffle, doo-wop, etc).
- *Tempo* numeric entry, any value between 30 and 360 is acceptable. At 30 BPM, beats will happen every two seconds, and the shortest note will be half a second, while at 360 BPM, there will be about six beats per second, with the shortest note being a 24<sup>th</sup> of a second.
- A beat is a crotchet affects how the timing is calculated. If this is checked, then it will always be assumed that a crotchet represents a beat regardless of what the time signature is. This is how music is usually timed these days. If this is unchecked, then the timing will be determined by the time signature. The bottom number will specify what a beat is (2 = minim, 4 = crotchet, 8 = quaver), while the upper number says how many are in a bar. To me this is a more logical way of doing it, but people stopped doing it like this some time in the early 19<sup>th</sup> century...
- *Default velocity* specifies what velocity notes are initially given when you press **Space** to enter one in the editor.

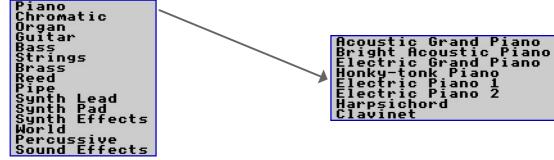
Click on **Set** to accept your changes (or press **Enter**).

Now to set up the MIDI channel. You can do this by pressing **F7**.

```
MIDI channel setup
Load a voice file (F6 in editor) for additional
instruments.
  Instrument :☆♡Acoustic Grand Piano
The channel volume is between 0 and 127.
It may not work for percussion instruments.
      Volume :80
The stereo position is from Left to Right in seven
steps. It may not work for percussion instruments.
    Position :○Left ○-2 ○-1 ●Centre
                                       \cap +1 \cap +2 \cap Right
The default octave range is C2 to C7. You can set a
range from -2 to +2 to cover CO-C5 to C4-C9.
Suggested settings -2 Bass, Contrabass, Baritone Sax
                   -1 Guitars, Organs, Cello, Tenor Sax
                   +1 Piccolo, Recorder, Ocarina
Octave Shift :0-2 0-1 None 0+1 0+2
              Keyboard input is shifted
     Playing : Don't play this channel
                                            Set channel
                                    Cancel
```

Click the Up / Down arrows to change instrument. You can also hold Shift to go in groups

of ten.



Alternatively, you can click **Menu** on the instrument name to call up a category menu, and once you have chosen a category, a list of instruments in that category (as many as will fit on the screen) will appear. Clicking **Adjust** on an instrument will play a middle C in that voice.

You can also set up the *volume* of the channel, with a range from 0 (silent) to 127 (maximum), the *stereo position* of the channel (in seven steps from full left to full right).

Note that some instruments, particularly the percussion channel, may not respond to one or both of these settings.

The bottom half of the setup relates to *Octave Shift*. The software, and a lot of consumer level keyboards, offer 61 notes, usually in the range of C2 to C7, which lies in the middle of the full range of C0 to C9.

# 

Some instruments require notes that are outside of this range. How my keyboard handles this

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is to simply shift the entire range covered by the piano according to the instrument in question. For example, when selecting a guitar the notes output are in the range C1 to C6, which means that to play a middle C, one must press the C5 key.

Some instruments (Contrabass, etc) are even lower, spanning the range C0 to C5, which means you'll find middle C on the C6 key.

*SimpleSeq* takes a similar approach. You can set an instrument, and then shift the entire range up or down one or two octaves as necessary. This applies to an entire channel.

The *Keyboard input is shifted* option is for use when you switch your piano to the instrument in question and it outputs notes in a shifted range. This allows you to match *SimpleSeq*'s octave shift to that used by your piano.

If you just leave your keyboard set as a Grand Piano and turn the volume down to enter the notes, then no shifting is necessary – your piano will match the editor grid (so if you have shifted down two octaves, then pressing middle C will set a note at the C2 position, which is where middle C would normally be).

Generally, it is more useful to set your piano to the instrument in question and to enter the notes directly with input also being shifted.

On my keyboard (yours may differ):

- Shift -2:Bass, Contrabass, and Baritone SaxShift -1:Guitars (all), Organs (all), Cello, and Tenor Sax.
- Shift +1 : Piccolo, Recorder, Ocarina.

At the very bottom is an option to skip playing the channel when performing playback.

Things are slightly different for the percussion channel (channel 10) due to there being various ways in which instruments select which drum kit to use (or if it behaves as a regular instrument):

```
      MIDI channel setup

      This is the percussion channel.

      Program change :0

      Bank LSB :0

      Bank LSB :0

      Bank MSB :127

      The channel volume is between 0 and 127.

      It may not work for percussion instruments.

      Volume :80

      The stereo position is from Left to Right in seven steps. It may not work for percussion instruments.

      Position :0 Left 0-2 0-1 @Centre 0+1 0+2 0 Right

      Playing :0 Don't play this channel

      Cancel
```

Here, you specify the *Program Change* and *Bank Select* directly. Usually 0, 0, 127 (as shown) is the default drum kit. Refer to your instrument's user guide for specifics.

Finally, **^F8** is for setting up options relating to the program itself

	SimpleSeq setup
Editor options	:⊠Show in dark mode
	🗌 Show in quaver mode
	🛛 Changing note places a note
Playing music	:⊠Play more expressively
	🗌 Wait a smidgen between notes
	$lacksim $ Play all channels $\bigcirc$ Play only the current
Snippet play	:OSelected bar @+1 prior O+2 prior O+3 prior
MIDI port out	:•Port 0
	Output to the above port, input from any.
Input channel	:○Any channel ○1 only ●1-8 only ○The current

- *Show in dark mode* will display the screen with a black background. This is the default and it is easier on the eyes. You can toggle this in the editor by pressing **F10**.
- *Show in Quaver mode* will display the screen with two notes per column to fit more music on-screen at once. You can toggle this in the editor by pressing **F11**.
- *Changing note places a note* means that pressing **C**, **M**, **S**, *etc* to set the note length will also place a note if one wasn't already there, you do not have to press **Space** first.
- *Play more expressively* will add a tiny (+/- 2 centisecond) adjustment to each column of music as it is played in order to make it just slightly less "automatic".
- *Wait a smidgen between notes* will instruct the MIDI module to insert a small pause after sending each MIDI command. This allows for better operation with those cheap USB to serial MIDI adaptors that you can pick up on Amazon, Alibaba, etc.
- You can choose to *Play all channels* or *Play only the current channel*. This can help with listening to specific instruments in a composition.
- *Snippet play* chooses how much music is played when you are playing a "snippet". There are two methods of playing, either "everything" or "the currently selected bar" (which is referred to as a snippet). However in order to give context, you can also choose to play up to three bars before the current bar as well.
- *MIDI port out* specifies what port notes and commands will be sent to, on systems with multiple MIDI devices.
- *Input from* allows you to select which channels may be used when entering music, either directly into the editor or via Transcribe. You can choose *All channels*, *Channel 1 only*, *Channels 1 to 8 only*, or *The current channel*.

The middle two (1 or 1-8) are useful to allow capturing music without also capturing any pre-programmed percussion that may be playing at the same time.

# Voices

ery General MIDI compatible keyboard supports the default MIDI defined voices:							
PIANO			MATIC PERCUSSION			GUITA	
1	Acoustic Grand	9	Celesta	17	Drawbar Organ	25	Nylon String Guitar (acoustic)
2	Bright Acoustic	10	Glockenspiel	18	Percussive Organ	26	Steel String Guitar (acoustic)
3	Electric Grand	11	Music Box	19	Rock Organ	27	Electric Jazz Guitar (electric)
4	Honky-Tonk	12	Vibraphone	20	Church Organ	28	Electric Clean Guitar (electric)
5	Electric Piano 1	13	Marimba	21	Reed Organ	29	Electric Muted Guitar (electric)
6	Electric Piano 2	14	Xylophone	22	Accoridan	30	Overdriven Guitar
7	Harpsichord	15	Tubular Bells	23	Harmonica	31	Distortion Guitar
8	Clavinet (not <i>Clarinet</i> )	16	Dulcimer	24	Tango Accordian	32	Guitar Harmonics
BASS		SOLO	STRINGS	ENSEN	<b>IBLE</b>	BRASS	5
33	Acoustic Bass	41	Violin	49	String Ensemble 1	57	Trumpet
34	Electric Bass (finger)	42	Viola	50	String Ensemble 2	58	Trombone
35	Electric Bass (pick)	43	Cello	51	SynthStrings 1	59	Tuba
36	Fretless Bass	44	Contrabass (double bass)	52	SynthStrings 2	60	Muted Trumpet
37	Slap Bass 1	45	Tremolo Strings	53	Choir Aahs	61	French Horn
38	Slap Bass 2	46	Pizzicato Strings	54	Voice Oohs	62	Brass Section
39	Synth Bass 1	47	Orchestral Strings	55	Synth Voice	63	SynthBrass 1
40	Synth Bass 2	48	Timpani	56	Orchestra Hit	64	SynthBrass 2
REED		PIPE		SYNTH	I LEAD (synth lead melody)	SYNTH	<b>I PAD</b> (continual tone)
65	Soprano Sax	73	Piccolo	81	Lead 1 (square)	89	Pad 1 (new age)
66	Alto Sax	74	Flute	82	Lead 2 (sawtooth)	90	Pad 2 (warm)
67	Tenor Sax	75	Recorder	83	Lead 3 (calliope)	91	Pad 3 (polysynth)
68	Baritone Sax	76	Pan Flute	84	Lead 4 (chiff)	92	Pad 4 (choir)
69	Oboe	77	Blown Bottle	85	Lead 5 (charang)	93	Pad 5 (bowed)
70	English Horn	78	Skakuhachi	86	Lead 6 (voice)	94	Pad 6 (metallic)
71	Bassoon	79	Whistle	87	Lead 7 (fifths)	95	Pad 7 (halo)
72	Clarinet	80	Ocarina	88	Lead 8 (bass + lead)	96	Pad 8 (sweep)
SYNTH	I EFFECTS	ETHNI	C	PERCU	JSSIVE	SOUNI	) EFFECTS
97	FX 1 (rain)	105	Sitar	113	Tinkle Bell	121	Guitar Fret Noise
98	FX 2 (soundtrack)	106	Banjo	114	Agogo	122	Breath Noise
99	FX 3 (crystal)	107	Shamisen	115	Steel Drums	123	Seashore
100	FX 4 (atmosphere)	108	Koto	116	Woodblock	124	Bird Tweet
101	FX 5 (brightness)	109	Kalimba	117	Taiko Drum	125	Telephone Ring
102	FX 6 (goblins)	110	Bagpipe	118	Melodic Tom	126	Helicopter
103	FX 7 (echoes)	111	Fiddle	119	Synth Drum	127	Applause
104	FX 8 (sci-fi)	112	Shanai	120	Reverse Cymbal	128	Gunshot

Every General MIDI compatible keyboard supports the default MIDI defined voices.

Most keyboards will support various additional voices that may be to a general specification such as Yamaha's XG/XGLite or Roland's GS and/or whatever other voices that the instrument may provide.

To aid in accessing these additional voices, SimpleSeq supports the use of voice maps which define all of these instruments (voices) and the data necessary in order to select them.

The default mapping is General MIDI 1 which is supported by everything. You can press **F6** to load a mapping that is applicable to your instrument, *SimpleSeq* comes with several.

Load	voice map file
Available files:	
GM1	PSRe333
RolandE09	RolandGS
RolandJunoD	XGLite
YamahaPSR	
Filename :	
	Cancel Load

The creation of mappings is beyond the scope of this document; briefly you'll need to know the Program Change and Bank Select values for each instrument. Examine one of the files in *!SimpleSeq.Voices* to see how it is laid out.

# Manually entering music

Move the highlight box with the **Cursors**, or place it by clicking the mouse.

Shift-Left and Shift-Right will hop from bar to bar.
^Left and ^Right will change which bars are visible on-screen.
Shift-Up and Shift-Down will move up or down ten notes at a time.

Home will go to the beginning (the first bar), and **End** will go to the last bar used.

Once the highlight is in place, pressing **Space** will set a note at that location, with the default velocity. Note that in Quaver mode, you will be adding quavers, not semiquavers. You can also press Q(uaver), C(rotchet), M(inim), S(emibreve), or B(reve) to directly create a note of the desired length.

# Automatically entering music

Set the highlight in the column that you want to place the music in, and play the notes on your piano. They will appear in the editor. Press **Enter** to move to the next column to the right. If you hold down the notes on your piano as you press **Enter**, the notes will be extended into the new column. This makes it easier to enter longer notes.

Use *Transcribe* (see page 21) to enter music in real-time.

# Editing music

If you add a note by accident, simply press **Delete** to remove it.

If you want to try out some melodies before entering them into the sequencer, simply move to an empty column and play whatever you like. Don't worry that all these notes will be recorded. When you're done, simply press **^Delete** to wipe the entire column.

If you are entering manually, you can press various keys to alter the length of the current note:

- **Q** Quaver (two columns, usually half a beat)
- **C** Crotchet (four columns, usually a beat)
- M Minim (eight columns, usually two beats)
- **S** Semibreve (sixteen columns, a bar at  $\frac{4}{4}$ )
- **B** Breve (thirty two columns, two bars at  $\frac{4}{4}$ )

You can also make unusual note lengths because the count of how much to extend a note by goes from the current cursor location in normal editing mode.

So, if you want to make a quaver that is three columns long (equal to a dotted quaver), simply press **Space** to create a note and then **Q** to make a quaver (or just press **Q** without **Space**). Now move one place to the right and press **Q** again to extend the current note.

When you are in note selection mode, you can also use these keypresses to set the length of the selected note, however unlike in normal editing, the lengths always apply from the start of the note, so you must use **^Left** or **^Right** for other length notes.

# Adjusting the velocity

The velocity is how hard the note is played. Roughly, this correlates to the note volume as notes played more softly are quieter.

When you are entering music by pressing **Space**, the notes are given the default velocity (which is 80 unless you have altered it). When playing notes on a piano, the notes receive the velocity information from the piano.

You can change the velocity of a note by setting the highlight to the *beginning* of the note and pressing one of the following keys *on the numeric keypad*:

- 8 Increase the velocity by one (this key is often marked with an up arrow)
- **5** Set the velocity to default (this is between the up and down keys)
- **2** Decrease the velocity by one (this key is often marked with a down arrow)
- **0** Set this note to the last used velocity (this key is usually double-width)

Shift-8 and Shift-2 will increase or decrease the velocity by ten.

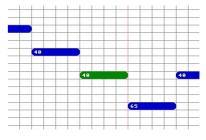
**^8** and **^2** will set the velocity to the maximum or minimum respectively.

It can be useful, if you have a range of notes to change to the same velocity, to set the desired velocity for the first note, and for the rest just press the numpad **0** key to directly set that same velocity for each subsequent note. To change all of the notes in a channel, use the Filters.

# Moving and changing notes

If the highlight is on a note, press **Enter**, or click **Adjust** on a note, to select it. A note that has been selected will appear in *green*. Use the **Cursors** to move the note, and **^Left** and **^Right** to change the note's length. Pressing **P** will play the note.

You can also change the note length using **Q**, **C**, **M**, **S**, and **B** or the velocity using **0**, **2**, **5**, and **8** on the numeric keypad.



Press **Space** again, or click **Select**, to deselect the note and return to normal editing. Note that a note being moved will absorb any note in its way, velocity will be that of the note being moved, and as much as is possible, embedded controls will be preserved.

# **Musical accents and controls**

To make your music even more expressive than just altering the velocity, there are various controllers available. Which are actually supported depends upon your instrument. Refer to your device's *MIDI Implementation Chart* for specifics (see page 28). This software supports:

0	Bank Select MSB	37	Portamento time fine	74	Brightness
1	Modulation wheel	64	Sustain	84	Portamento note
5	Portamento time coarse	65	Portamento On/Off	91	Reverb
7	Channel volume	70	Variation	92	Tremolo
10	Pan	71	Timbre	93	Chorus
11	Expression	72	Release time	94	Detune
32	Bank Select LSB	73	Attack time	95	Phaser
To set a control, press <b>^M</b> and enter the desired value. – Program Change					
MIDI Control Change					
Control support depends upon your equipment, please refer to your device's manual. Control change :한잔64 Sustain Parameter (1-127) :0					
For Sustain, 0 is OFF, 127 is ON. (you can use # and ~ for sustain on/off)					>
			Cancel In	sert	change 📄

You cannot set a control at the beginning of a note (as the value that would be used as the control parameter is used to give the note velocity).

You can, however, insert controls in the middle of notes, or – the recommended option – in an unused space. *If you delete a note containing a control, the control will also be deleted.* 

As the Sustain pedal is a widely supported, and commonly used, control, there are two keypresses to directly set Sustain. Press **#** to turn it on, and press **~** (**Shift-#**) to turn it off. If you are entering music from a piano, then the Sustain pedal will be understood and entered into the music when pressed and released.

When a control has been inserted, there will be a little red marker with three letters to denote the control: BSM, MdW, PTC, Vol, Pan, Exp, PTF, BSL, PoO, Var, Tmb, Rel, Atk, Bri, PoN, Rvb, Trm, Crs, Dtn, Psr, and Pgm. Sustain is denoted using "Ped" for the start, and " \* " for the end, as is common with music.

# **Channels**

There are sixteen possible channels. Modern equipment supports all 16, older equipment may be more limited. Refer to your instrument's MIDI implementation chart for details. Pretty much everything that isn't ancient reserves channel 10 for percussion. You can change which channel appears in the editor using **Page Up** and **Page Down**. You can also press the number keys **1** to **0** to directly go to a channel (0 means channel 10).

# **Playing music**

To play the current bar, press **P** (depending on settings a few bars prior may also play). To play the entire piece, press **^P**.

You can stop playing the music by pressing **Escape**.

Playing	music
Current column	: 47
	: 4
time	: + 5.0s
Playing ALL	channels.
Press Escap	e to stop.

What port music is output to is defined in the software settings.

#### **Ghost notes**

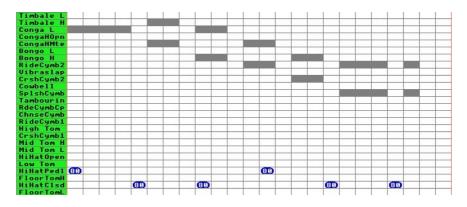
In order to help get all of the music lined up, it is possible to show the positions of notes in one channel while editing another channel. These are known as "*ghost notes*".

Press ^G and then select which channel you'd like to ghost.



The ghost notes will then appear in grey.

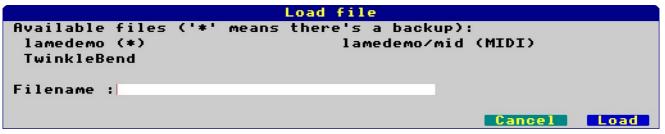
In this example, you can see piano melody notes overlaid into the percussion channel.



# Loading music

Music is stored within SimpleSeq in the directory Music. At this time, this behaviour is fixed.

Press **^L** to open the dialogue for loading music.



The available files will be scanned, and up to 32 will be listed. Backups are not shown, but the presence of a "(\*)" after the file implies that a backup exists.

MIDI files are also listed, but *SimpleSeq* is not capable of loading those.

Simply enter the name of the file (suffix "/bak" if you want to load the backup instead) and then click on **Load**. Alternatively, click on the filename to choose it, then click on **Load**. If the file was saved compressed, it will be automatically decompressed upon loading.

# Saving music

Music is always saved to that same location. Press **^S** to open the save dialogue.

	Save	file	
Filename	:lamedemo		
	⊠Save file	compressed	
		Cancel	Save

Enter the filename that you wish to save the file as (it will default to the name it was given when loaded), and then choose whether or not you would like the file to be compressed. Then click on **Save**.

Prior to the file being saved, the copy that is already on disc (if there is one) is renamed with "/bak" suffixed, so it is possible to revert to the previous version should you need to do so.

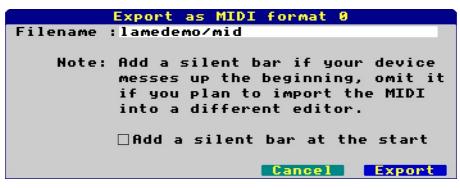
Compression is performed using the built in Squash module, so it is quick. Every note (sixty one of them) in every channel (sixteen of them) in every used column of music is a word in length (or four bytes). It was done like this for speed, making it very simple to know exactly where each part of the music is in memory.

When a file is normally saved, the entire music array is written out. It can be large. The "lamedemo" example, if not compressed, is 394,016 bytes. However, since music simply doesn't sound every note in every channel every semiquaver, much of the array is empty. This makes it an ideal candidate for being compressed. The compressed file? A tiny 2,724 bytes.

# **MIDI** export

Now it's all good and well having *SimpleSeq* work with it's own files, but it is much better if you can use your creations elsewhere.

Therefore, *SimpleSeq* provides a MIDI export function. As well as playing to a MIDI device, it can also save standard format 0 (single track) MIDI files that you can then upload to a piano or edit on other software.



If you are playing directly to a hardware device (a piano), sometimes playback may be messed up at the beginning as the hardware may need a moment in order to get itself set up for the voice changes and such. If this is the case, then you should include an extra (silent) bar at the beginning to give the hardware time to get itself in order.

If you plan to import the music into another program, or upload the MIDI file directly to your instrument, you should omit the silent bar.

Please note that the MIDI file contains an exact reproduction of the music as entered into *SimpleSeq*, and that other software products may have differing abilities to actually handle this information.

For example, when loading MIDI into *Rhapsody 4* (on RISC OS), it does not reproduce the sustain pedal (and possibly other controllers, but I've not tested this), the channel volume, the stereo position, or *any* of the individual note velocities.

#### Advanced editing: Copying bars

Simply press **^C** to copy the current bar in the current channel.

Then go to another bar (potentially in another channel) and press  $^{\mathbf{v}}$  to paste a copy of that bar's contents there. It will overwrite what was there before.

# Advanced editing: Replicating bars

A limitation of copy-paste is that it only works for one bar at a time in the current channel. The answer to this is *replication*.



Replicate will copy a number of bars from an initial bar, to begin from another bar, repeating a number of times if desired. It can do this for the current channel, or for *all* channels.

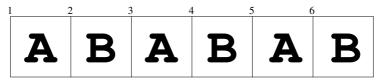
It will perform some checks, and warn you if you are going to overwrite existing music.

By way of example, we'll start with this:

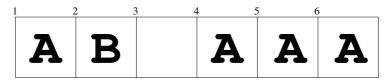


Two bars of music, labelled here A and B.

If we replicate starting from bar *one*, for *two* bars, to be repeated *twice*, with an offset of *zero*, then we will be copying A and B twice following on from the selection end (or as of bar 3):



Now if we start at bar one for only one bar, copying it three times, to be placed at offset four...



# Advanced editing: Exchange channels

Exchanging channels allows you to swap the order of channels around. To do this, simply enter the numbers of the two channels and they'll be swapped.

Note that this will allow you to swap the percussion channel, which mightn't be useful...



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# **Advanced editing: Filters**

There are seven filters provided to assist you. All except for the first operate on the current channel.

• Trim

This will scan all music in all channels to look for the last used column, and then the music length will be set to that.

- *Transpose up* This will shift every note up an octave.
- *Transpose down* This will shift every note down an octave.
- Beatify

This will examine the music and make all notes beats (or multiples of beats), that is to say, a crotchet. It will then align the start and end positions with the nearest beat. This function is also known as "quantise". It may be useful if transcribing music into *SimpleSeq* to then "*beatify*" it to make it line up with the music's markers.

- *Quieten* This will reduce the velocity of all of the notes in the channel by ten.
- *Louden* This will increase the velocity of all of the notes in the channel by ten.
- *Velocity lock* This will set all of the notes in the channel to the default velocity.

To use a filter, first save your file!

Then press **^F** to open the filter dialogue. Choose a filter and click on **Apply filter**, and then then on **Yes, apply this** in the confirmation dialogue.



# Advanced input: Transcribing from piano

SimpleSeq can transcribe music directly from your piano as you play it.

To begin transcribing, ensure that the highlight box is aligned with the start of a bar, and then press ^T.

The transcribe dialogue will appear, and you'll hear your piano ticking as *SimpleSeq* plays beat and bar markers to give you the rhythm. At this point, nothing is being recorded.

From the very first moment that you press a key, recording will begin. The ticking will reset itself to the beginning of a bar – you *always* start from the beginning of a bar.

Transcribing (120 bpm) Beat in bar : 4.0 Bars transcribed : 7 Notes received : 73 Current column : 124 Columns remaining : 3716 Receiving input from... ...channels 1 to 8. Press Escape to finish.

As recording progresses, the dialogue will provide you with information on which beat in the bar is current, how many bars have been recorded, how many notes were received, and the current/remaining column (this is to let you know when you're about to run out of space).

Just keep playing, and when you're done press **Escape**.

Transcribing tries to match the notes as played to places on the grid. If you are playing quickly, there may be some glitches that will need to be manually resolved; for instance you could play an even *five* notes in a half second beat, but when the interval is *eight* semiquavers, clearly it won't fit evenly.

With practice you'll understand how music is transcribed into SimpleSeq.

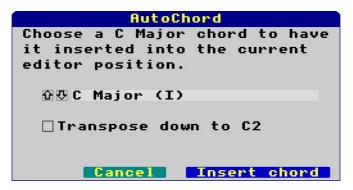
If you are playing a slower piece, you may find the *Beatify filter* to be of assistance to automatically try to line everything up.

Transcribe will faithfully record all note velocities and the use of the sustain pedal. Note that pressing the sustain pedal will also start the input, so you should do this at the *same* time as the first note if necessary.

# **Other things: AutoChord**

AutoChord makes it easy to insert C Major chords. Press **^A** to call up AutoChord and choose which chord you would like to insert.

By default the chords are played in the C3 octave. You can optionally shift them down to the C2 octave using the option provided.



The following chords, all in C Major, are available:

Triad	7 <sup>th</sup> chord
C Major (I)	C Major 7 (I)
D minor (ii)	D minor 7 (ii)
E minor (iii)	E minor 7 (iii)
F Major (IV)	F Major 7 (IV)
G Major (V)	G Major 7 (V)
A minor (vi)	A minor 7 (vi)
B diminished (vii)	B minor 7/b5 (vii)
Suspended 2 <sup>nd</sup>	Suspended 4th
C sus2	C sus4
D sus2	D sus4
F sus2	E sus 4
G sus2	G sus4
A sus2	A sus4

Common chord progressions in C Major:

I - V - vi - IV	Pop songs: With or Without You (U2), Let It Be (Beatles), etc.
I - IV - I - V	More songs: Brown Eyed Girl (Van Morrison), etc.
ii <sup>7</sup> - V <sup>7</sup> - I <sup>7</sup>	A <i>lot</i> of jazz
I - vi - IV - V	50's style (doo-wop)
I - vi - iii - IV	Start here for power metal
I - iii - IV - vi	If you like your metal just a bit heavier
ii - vi - ii - III - vi	For the more symphonic amongst you
I - ii - iii - ii - I - V	Prog rock, just like Come Sail Away (Styx).

# Other things: The menu

Clicking a box in the grid with the **Menu** (middle) mouse button will set that location as the highlight, and then pop up a menu. Just in case remembering all those keypresses is hard...

# **Other things: Inserting and Deleting bars**

You can press **^I** to insert a bar *before* the current bar, and you can apply this to the current channel or to all channels. Content that is in the current bar, and all following, will be moved up a bar.

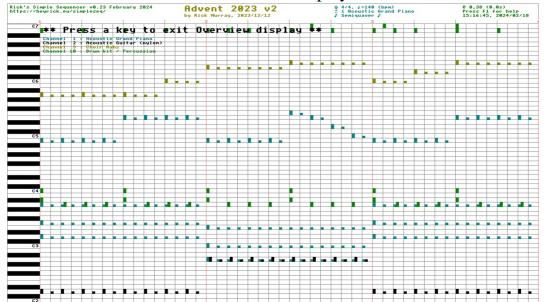
The inverse case is by pressing <b>^D</b> to delete the <i>current</i> bar, again in the current channel or in
all channels, shifting up following content to fill the gap.

Insert bar				
Insert a bar before the current bar.				
Which channels : All Only channel 1				
Cancel Insert bar				

#### **Other things: Overview**

Overview briefly changes the current editor view to one that tries to display the content of all channels on the screen at once. You'll mostly see this when playing music.

Press a key to return to return to the normal editor display.



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Play snippet (this bar) Play entire piece	∩P ∩P
Jump	٦J
AutoChord Control Change Filters Exchange channels	C C C C C
Replicate Copy this bar Paste bar here	
Insert bar before Delete this bar	°.∎ CI
Transcribe	٦٦
New composition Load file File info Save Export as MIDI	C EC E
Channel setup Music setup Program setup Load voice map	F7 7F8 7F8 F6
Toggle dark mode Toggle quaver mode Show overview	F10 F11
Help / Keypresses	F1

#### **Other things: File information**

Pressing **F2** will call up information on the current file.

```
File information
0 0,7 (col 1, bar 1)
Music length (columns) :504
Music length (bars)
Music length (bars)
                        :21
Milliseconds per beat
                        :500
Music length (seconds) :63.0
                        :24
Columns per bar
Columns per beat
                       :4
MIDI channels in use:
  1, 2, 3
Voice mapping "PSRe333".
Voices available :472
     General MIDI only :No
      Done Channel info
```

This will show the editor position (at the top), the music length (in various measures), and what channels are in use.

Perhaps of more use is the *Channel info* which will give an overview of the setup of all of the MIDI channels.

		Channel setu	P		
Ch	U	Instrument	Vol	StereoP	Shift
	-				
1	•	Acoustic Grand Piano	96		None
2		Acoustic Guitar (nylon)	96	<b></b>	-1 +I
3		Acoustic Bass	96	<b>_</b>	-2 +I
4		Violin	96	<b></b>	None
5		Cello	96	<b>_</b>	-1
6		String Ensemble 1	96	<b>B</b>	None
7		Trombone	96	<b>B</b>	None
8		Tenor Sax	96	<b>_</b>	-1
9		Flute	96	<b>B</b>	None
10	•	Percussion	96	<b>_</b>	None
11		Clarinet	96	<b>_</b>	None
12		Church Organ	96	<b>_</b>	None
13		Clavinet	96	<b></b>	None
14		Accordion	96	<b>_</b>	None
15		Orchestral Harp	96	<b>_</b>	None
16		Glockenspiel	96	<b>_</b>	None
					Done

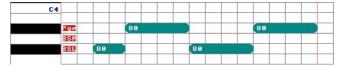
The '•' indicates that the channel is in use.

This dialogue shows the default assignments when you create a new file, with the exception of the stereo position of channels 1 and 3 that were tweaked to show the difference.

# Other things: Overriding the instrument choice

By making use of the ability to insert Control Changes (**^M**) into the music, you can fully override the selected instrument for the channel and/or change instruments liberally in a way that *SimpleSeq* would not ordinarily permit.

Notes are scanned and output from the lowest to the highest, so...



The lowest (BSL) is a *Bank Select LSB* specifying **0**. Just above that (BSM) is a *Bank Select MSB* specifying **126**. Finally, there is (Pgm) a *Program Change* specifying voice **112**. On my keyboard, this selects a special effects percussion channel, so the subsequent notes play "*Yo, Get up! Yo! Get up!*".

There are no notes played in the leftmost column with the control change messages, nor in the following column. This is to give time for the hardware to switch voices. This may or may not be necessary depending upon your particular instrument.

Changes to the voice like this are not in any way reflected in the user interface. It'll still say "Grand Piano" or whatever, even if the C# key makes a noise that's supposed to be a cow...

That being said, there's no reason why you can't override the mapping in order to give some sort of special effect and then switch back to the defined instrument afterwards, you'll just need to know the *Program Change* and *Bank Select* values for the defined instrument.

# Other things: Embedded voice references

*SimpleSeq* remembers the selected voices by storing the *Program Change* and *Bank Select* values, which means that files will load correctly if a mapping is supplied that defines these additional instruments. Files are saved containing a reference to the mapping in use, and when the file is loaded, *SimpleSeq* will also try to load the appropriate mapping.

If the mapping isn't present on your machine, or you are loading files from older versions of *SimpleSeq*, you will be warned if loading a file that contains instruments that could not be referenced. In this case, you should manually load the appropriate mapping.

If the music file does *not* contain a mapping reference and the mapping is then loaded *after* loading the music, simply Saving the music file will remember the mapping for future use.

# Other things: Jump to location

You can jump to a different location in the music by pressing **Home** to go to the start of the piece, **End** to go to the end, or **^J** to go to a specific location.

The location is a bar number, or in the form of min:sec. The logic is <number><non-number><number>, so these will all be interpreted as one minute and twenty three seconds: "1:23", "1.23". "1m23". If you don't need to specify a minute, it can be omitted. ".32" means thirty two seconds.

Jump
Enter a bar number, or a
a time in the form mm:ss
Jump to :
Cancel Jump

# Other things: Screen mode

When *SimpleSeq* starts, it will attempt to pick a suitable screen mode depending upon your monitor geometry. If your monitor is widescreen then it will pick HD (1280×720) otherwise it will pick SXGA (1280×1024). If there is a problem then it will revert to XGA (1024×768).

You can change mode while the program is running by pressing **^`** (that's **Ctrl** and the key between **Tab** and **Esc** on a UK keyboard) to open the mode selection dialogue.

Change screen mode
Change to which screen mode?
○1280x720 @1280x1024 ○1024x768
Cancel Change mode

If the selected mode doesn't exist, it will revert to the previous mode.

You can force a specific mode at startup by editing the *!Run* file to include one of the following:

-16 <b>:</b> 9	Choose HD 1280×720 mode
-5 <b>:</b> 4	Choose SXGA 1280×1024 mode
-4 <b>:</b> 3	Choose XGA 1024×768 mode

It is recommended to run *SimpleSeq* in SXGA mode.

#### **Other things: Query effect**

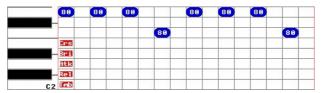
In order to experiment with the various effects, there is a *Query effect* dialogue available by pressing ^Q. This allows you to enter values for various controllers, and to test the effect on one of three C notes.

Query effect				
Instrument	: :û⊕Acoustic Grand Piano			
The available contro	llers depend on your instrument.			
Please refer to your	• MIDI implementation chart.			
Portamento time (5)				
Expression (43)				
Sustain (64)	• •			
Variation (70)	• •			
Timbre (71)	:80			
Release (72)	:2			
Attack (73)	:64			
Brightness (74)	: 28			
Portamento note (84)				
Reverb (91)				
Chorus (93)	:64			
Play note	• :•C3 OC4 OC5			
	Finished Play test note			

When you have finished, click on Finished and if you have entered values and played a note, you will be asked if you wish to insert your chosen options into the music.

Ins	ert effect?
Would you like to your music at the	insert those options into current location?
	No Yes, insert

If you choose Yes, then the necessary options will be inserted at the current place in the music, starting from the bottom. It will skip over places that are currently in use, so it won't



erase existing notes. This example is using the above to make something like a *metal chug*.

What controllers are supported, and how, depend upon your instrument. Please refer to your MIDI Implementation Chart. Generally *Reverb* and *Chorus* are widely supported.

*Portamento* support is harder, as while devices may claim to respond to controller 84 for portamento, actually getting it to work is a whole different story. I have not, for instance, succeeded in getting my *Yamaha PSR-e333* to perform a portamento.

#### Portamento time

This sets the *coarse* value of the portamento time, that is to say the time to slide between two notes. The *fine* value is always set to zero, but you can manually edit this later.

#### Expression

•

•

.

•

This sets the *coarse* value of the expression controller, the *fine* value is unset. Expression alters the current volume which permits things like crescendos.

Sustain (Hold pedal)

This keeps the sound going after the note has been released, commonly used on pianos.

Variation

This may subtly adjust the sample rate of the waveforms used in synthesis.

Timbre

This controls how the VCF filter shapes the "brightness" of sound over time.

Release time

This controls how the VCA envelope releases the sample, in other words how long it takes to fade away.

Attack time

This controls how the VCA envelope begins the sample, in other words how long it takes to fade in.

- *Brightness time* This controls the VCF filter's cutoff frequency.
- · Portamento note

The starting note for portamento. When a note is played, it will slide from this note to the one that has been played at the rate given by *Portamento time*.

Reverb

This sets the amount of reverb or delay for the channel. This creates an echo effect, like the sound is being played in a large hall.

Chorus

This sets the amount of chorus, which is very similar to reverb only with some slight intentional detuning. This creates an echo effect with variation, like multiple instruments are being played at the same time.

Note that there is no controller for *Portamento On/Off*. If the *time* and *note* are both set, then Portamento will automatically be turned on first.

# **MIDI** compatibility

This software uses, and is compatible with, the RISC OS MIDI module using the Acorndefined API.

As this software is intended for use with RISC OS, it is supplied with my USB MIDI module for communicating with MIDI devices using a USB connection, or similar. Other modules compatible with the Acorn API will also work.

Please note that cheap USB to serial MIDI interfaces are often deplorable quality and tend to lose track if more than five notes happen at once (that's a simple chord and two notes of melody on *one* channel). It is strongly recommended that you don't use such a device.

Your instrument should have, most likely at the back of the user guide, a standardised "MIDI implementation chart" to say which parts of the MIDI standard are actually supported.

By way of example, on the left is the chart from my Yamaha PSR keyboard. It's a fairly comprehensive MIDI implementation for a consumer level device. The older Roland E-16 on the right has a more restricted MIDI implementation. For starters, it only supports seven channels (1, 3, 4, 5, 8, 10, 16) and these appear to be reserved for specific purposes. Fewer controllers are supported, but there is a pitch bender. Note, also, the program change appears to be 1-128 rather than 0-127. I'm guessing it's the same thing given it is a seven bit value...;)

YAMABA			Date:6-Aug-2010	FUN	CTION	TRANSMITTED	RECOGNIZED	REMARKS
Nodel PSR-E333/YP7-3	30 MIDI In	plementation Chart		Basic	Delauit	1-3-4-5-8-10-16	1-3-4-5-8-10-16	1=Accomp 2 3=Lower
Function	Transmitted	Recognized	Renarks					4 = Upper 5 = Accomp 1, Accomp 3 5 = Acc Bass
Basic Default Channel Changed	1 - 16 *	1 - 16 x		Channel	Changed	x	x	10-Man Druns, Acc Drun Style Pg Ch 16-Note to arr Mici channeb are unchangeable
Default Mode Nessages Altered	3 x	3 x x		Mode	Default Mossages Altered	* *	Mode 3 X X	*1 *1
Note Number : True voice	0 - 127	0 - 127 0 - 127		Note Number:	True voice	0-127	0-127 0-127	
Velocity Note ON Note OFF	o 9nH,v=1-127 x	o 9nH,v=1-127 x		Velocity	Note ON	ç.	Ŷ	
After Key's Touch Ch's	x x	x x		After	Note OFF Key's	x	x	
Pitch Bend	x	0		Touch	Ch's	x	x	
0,32 1 6 38 7,10 Control 11 Change 71,73,74 72 8	0 x *1 x *1 0 x *1 0 x *1 0 x *1 0 x *1 x *1 0 x *1 x *1 0 x *1 x *1 0 x *1 x *1 0 x *1 x *1		Bank Select Modulation wheel Data Entry(NSB) Data Entry(LSB) Expression Sustain Release Time Portamento Cntrl	Control Change	0,32 1 70 11 84 91 93 121	0 00****000*	C (MSB only) C (MSB only) C (Parvetb) C (Parvetb) C (Chorus)	Pesotution: 12 bit Bank select Modulation Volume Perpot Expression Hold 1 Effice1 depth Effec1 depth Filed 1 depth Pesset all crit.
91,93 96,97 100,101	o x	0	Effect 1,3 Depth RPN Inc,Dec RPN LSB,MSB	Program Change:	True #	<u>.</u>	0 1—128	
Prog Change : True #	o 0 - 127	0 0 - 127	APR 130,750	Bystem Ex	: Song Pos	x	0 x	•3
System Exclusive	0	0		100000	: Song Sel : Tune	x x x	x x	
: Song Pos. Common : Song Sel. : Tune	x x x	x x x		System Real Time	: Clock : Commands	8	8	
Systen :Clock Real Time:Commands	0	0 0		Messages	Local ON/OFF All notes OFF Active Sense Reset	×××××	X O (123-127) O X	
:All Sound OFF Aux : Reset All Chirls : Local ON/OFF Mes- :All Notes OFF sages:Active Sense :Reset	x x x x x x x	o(120,126,127) o(121) o(122) o(123-125) o x		Notes	medi	*1 Recognized as "all not *2 Transmitted if recorded	e off'	

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# Editor keypresses

Cursors	Move highlight	Home	Go to the beginning
Sh-Left	Previous bar	End	Go to the last bar used
Sh-Right	Next bar	Select	Set highlight (mouse click)
^Left	Change visible bar down	Page Up	Select next channel
^Right	Change visible bar up	Page Dowr	Select previous channel
Space	Set a note or Select note	1 0	Select channel 1 10
Delete	Delete note	Enter	Go to next column, extends
^Delete	Delete column contents	Escape	Stop input / playing / Quit
#	Set Sustain pedal	~ (Sh-#)	Release Sustain pedal
в	Make note a breve	C	Make note a crotchet
м	Make note a minim	P	Play current bar
Q	Make note a quaver	S	Make note a semibreve
Numpad-2	Less velocity (+ <b>Sh</b> / ^)	Numpad-8	More velocity (+ <b>Sh</b> / ^)
Numpad-5	Set default velocity	Numpad-0	Set last set velocity
F1	Help	F2	File information
F6	Load voices	F7	Channel setup
F8	Music setup	^F8	Program setup
F10	Toggle Dark mode	F11	Toggle Quaver mode
^A	AutoChord	^C	Copy current bar
^D	Delete current bar	^E	Export as MIDI file
^F	Filters	^G	Ghost notes
^I	Insert a bar	^J	Jump to location
^L	Load file	^M	MIDI Control Change
^N	New (clear current music)	^O	Show Overview
^P	Play entire piece	^Q	Query effect
^R	Replicate bar(s)	^S	Save file
^T	Transcribe	^V	Paste copied bar
^X	Exchange channels	^`	Change screen mode

In dialogues:

Tab	Highlight an adjustable object (or go to the next one)
Space	Toggle check box
Left/Right	Change radio selection
Up / Down	Change selected option (use <b>Shift</b> for +/-10 and <b>^</b> for top/bottom)
Escape	Abandon the action (and close the dialogue)
Enter	Accept the action, close dialogue (or accept string and go to the next)
Delete / ^U	In strings, deletes characters / deletes the entire string

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SimpleSeq, MIDI Sequencer software for RISC OS

https://heyrick.eu/simpleseq/

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