

NOTATING MUSIC FOR HARP IN SIBELIUS

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2 NOTATING HARP MUSIC

The harp is an unusual instrument to write for and to notate. It is very easy to write music that is unplayable on a harp, and there are a number of books and articles that discuss how to compose effectively for a harp. I list some of these in the *References* section in [Appendix 1](#). The article [Composing for the Harp](#) on the *Harp Spectrum* website is a good introduction to writing for the harp.

This document will discuss tools and procedures available for notating harp music in the notation program *Sibelius*. The principles, if not the details, can be applied to working with other notation programs. It is not a tutorial on using *Sibelius*, and assumes you are familiar with the program. It is also not a tutorial on how harp music should be notated, but simply explains how to accomplish harp-specific notation in *Sibelius*.

I find that notation is pretty hard to do right, and a roadmap is helpful. My favorite reference book on music notation, including harp notation, is Elaine Gould's *Behind Bars*. It is expensive (around \$70 USD) but it is thorough and clear and well organized, with a great index, and it covers as close to everything as any book ever has. *Essential Dictionary of Music Notation* by Linda Lusk is much less expensive, and still provides good information, though nothing specifically on harp notation. Both books are available at amazon.com.

I will assume that you are using the “full” version of *Sibelius* 5 or later, and preferably *Sibelius* 6 or later, since some tools, including most of the plug-ins, are only available in *Sibelius* 6 or later. If you use *Sibelius* First, some of the techniques discussed will work, but many, like the plug-ins discussed, will not.

(Note that as of 2018, the full version of *Sibelius* is called *Sibelius Ultimate*, what was once called *Sibelius First* is now called *Sibelius*, and there is a new free version called *Sibelius First*. This is confusing and is discussed in *Appendix 6, Versions of Sibelius*.)

In *Sibelius* 7, the traditional menus were replaced by a Ribbon, but most of the actual commands were available in *Sibelius* 6 and earlier. In this document I will usually describe *Sibelius* commands in italic without a menu or Ribbon designation, and assume you will be able to find them. If the command names are different, I will show the names for both versions, in italics, separated by //, as in *Create>Instruments // Home>Instruments>Add or Remove*.

3 CREATING A HARP INSTRUMENT

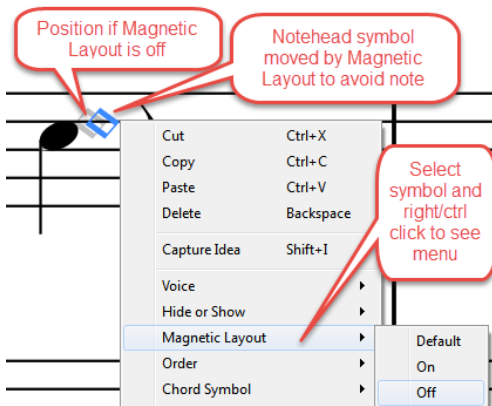
A harp instrument in *Sibelius* is, like a piano, a grand-staff instrument with a treble and bass staff. Create one with *Create>Instruments // Home>Instruments>Add or Remove*. You will find pedal harps and lever harps in the *Pitched Percussion* family, and since *Sibelius* 6, in the *Strings* family as well.

The instrument will play back with a harp sound. *Sibelius* assigns each instrument a range of pitches it can play, and it can mark out-of-range notes red so you can tell if you are writing something that cannot be played on the instrument. This is described in more detail in [Appendix 4](#).

If you attach dynamics between the staves, they will apply to both staves. If you attach them above the top staff or below the bottom, they will apply only to a single staff.

4 MAGNETIC LAYOUT

Magnetic layout was introduced in *Sibelius* 6, and it causes some objects to move out of the way when they get close to other objects. However, if you are trying to align lines or symbols close to other objects you may want to turn it off for those specific objects. Select the object and right click (ctrl-click for Mac) to see a menu with options for changing the Magnetic Layout of the object.



Layout>Magnetic Layout give you the option to turn Magnetic Layout off for the entire score, and *Layout>Magnetic Layout>Options* lets you change the settings for specific groups of objects. Usually you will want to leave Magnetic Layout on globally, and just turn it off to individual objects as needed. It is a brilliant feature and will save you lots of work.

For certain operations you will want to be able to turn Magnetic Layout off often, and I find it convenient to assign a shortcut to that command at *File>Preferences>Keyboard Shortcuts>Layout Tab>Turn off Magnetic Layout for object*.

5 NOTES AND NOTEHEADS

Notes in Sibelius are entered into a score in various ways, usually by specifying the pitches with one hand using the computer keyboard, a MIDI keyboard, or a mouse, and the durations with the other hand, using the numeric keypad. Traditionally you enter the duration first, then all the pitches at that duration, but a *Pitch before duration* option was added in Sibelius 7. It can be worthwhile re-reading the section on *Alphabetic and step-time input* in the Reference to see if you could be doing note entry more efficiently. Have a look at various importing options as well.

Notes are not merely symbols that are dragged into place onto a staff, as in a graphics program. Note objects have a pitch and a duration, and Sibelius allocates rhythmic space for them in a bar. You can transpose notes and play them back, and while you can make slight adjustments to their horizontal positions, they stay in the same rhythmic position if you reformat the score. (A rhythmic position can be thought of as the beat in a bar, so you might find a quarter note at beat 2, and it means the same location musically if there are 5 bars in a system or only 1 bar, though the physical positions will be quite different).

Sibelius allows you to use different Notehead styles, such as crosses and diamonds. You can create smaller, silent, and stemless noteheads as well. Access these by selecting notes and choosing *Properties>Notes>Noteheads // Notations>Noteheads>Type*. You can make all noteheads in a chord cue-sized (smaller) with the *Cue-size* button in the second keypad layout. You can silence chords by turning off *Play on Pass* for selected chords in the *Property Window // Inspector*. (Even if you select only 1 note, the entire chord will be silenced). Silence individual notes by using a silent Notehead style.

Notes can be given articulations from the first and 4th keypad layouts. This includes things like staccato and wedge staccato, and also harmonics indications. Articulations are attached to the notes, and move with them as their pitch changes or the spacing changes. Noteheads can be easily parenthesized (see keypad layout 2) and the accidental can be separately parenthesized (keypad layout 6).

You can create notes in up to 4 different voices in a single staff. Stem direction is different in different voices. Pair voice 1 with 2 and 3 with 4 to get opposite stems. Selected notes in different voices have different colors (1 – blue, 2 – green, 3 – yellow, 4 – pink). Apply cross-staff beaming (*Cross-staff notes*) to selected notes to move notes entered on one staff and to the other staff while still being beamed together. (There are problems with accidentals in cross-staff beaming, so check carefully if you use these).

It is fairly common in harp notation to hide rests to indicate notes that change from one hand to the other. In Sibelius it is best to hide, rather than delete rests. Use *Hide or Show* to hide or show any selected objects, including rests.

The image shows two musical staves with various annotations in red callouts:

- Special noteheads:** Points to a note with a unique head shape.
- Parentheses:** Points to a note enclosed in parentheses.
- multiple voices:** Points to a note in a different voice on the same staff.
- Articulations:** Points to a note with a specific articulation symbol.
- Hidden rests. Will not print:** Points to a rest that is hidden in the score.
- Cross-staff beaming:** Points to notes beamed across two staves.

5.1 ALTERNATE/OPTIONAL NOTES

Sometimes you want to indicate a choice of notes that could be played. You might do this so the player could avoid lever changes, or you might want to show a variation of a passage.

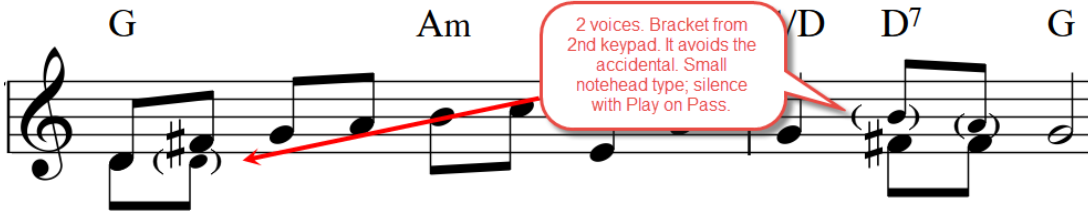
If you just want to indicate one or two notes that could be different, and it is clear that there is a single melody line, as in a lead sheet, you can just put the alternates at the same location as the original notes. Use a different voice, and hide any generated rests. For playback, you might want to silence one set of notes. You can use silent noteheads or turn off *Play on Pass* for those notes in the *Property Window//Inspector*.

The image shows a musical staff with the following chords and notes:

- G:** A chord with notes G, B, and D.
- Am:** A chord with notes A, C, and E.
- G/D:** A chord with notes G, B, and D, with a D note in the bass.
- D7:** A chord with notes D, F, A, and C.
- G:** A single note G.

You could instead add an alternate note to the same stem, in the same voice as an existing note, but make it parenthesized and silent. Use the parentheses on the second keypad layout. This will make room for nearby accidentals and remain visible. To silence the note (should you care to) you will need to use a silent notehead style, since *Play on Pass* would silence the entire chord.

You might want to make the optional note smaller, and to do that you would need a small notehead style, since setting cue note size will shrink the entire chord. You may find yourself defining a new notehead style that is both silent and small in some cases.



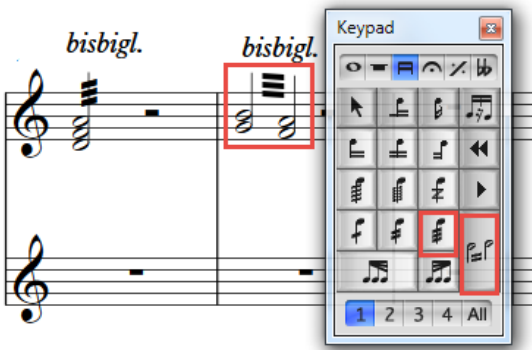
You can also put the optional notes in parentheses in a different voice as in the example above, since you can shrink and silence each voice separately.

If you want to show a longer variant passage, you can create an *ossia* staff above or below your music and put the alternative music there. See the section on *ossias* in the Sibelius References for more details.



5.2 TREMOLOS AND BISBIGLIANDO

Bisbigliandos are unmeasured rapid tremolos. You should read the section on Tremolos in the Sibelius Reference if you are going to use them. They will mostly be single-note or double-note tremolos with 3 lines, and you create these by selecting notes and going to the 3rd keypad layout:



Tremolos are tricky and personally I rarely get them right the first time. Read through the Sibelius Reference before you try this; it does a good job explaining things.

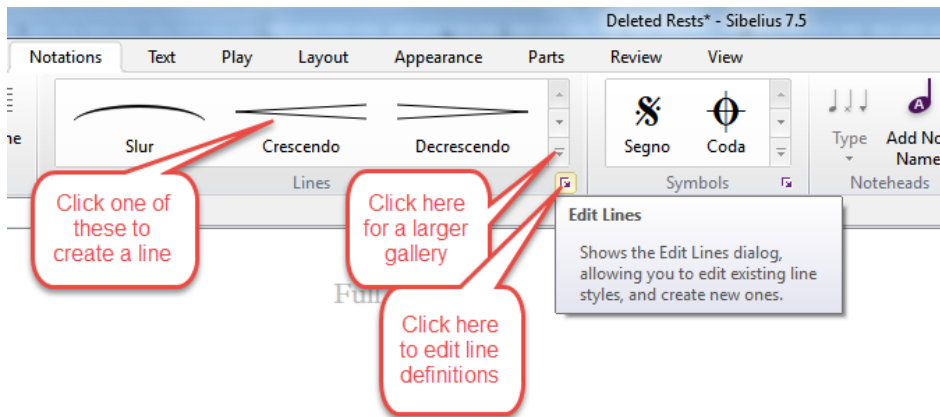
6 ADDING LINES, TEXT, AND SYMBOLS

Most things that are not staves or notes are attached to a bar, and Sibelius refers to them as *Bar Objects*. We will be most interested in *Text*, *Line*, or *Symbol* objects. These come in 2 types: *System* objects and *Staff* objects.

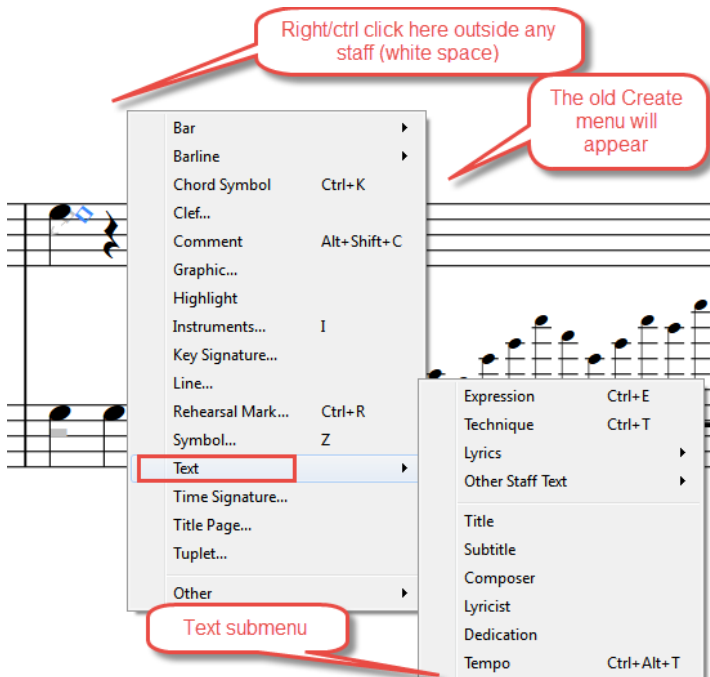
System objects apply to all the staves in a system, and include things like Titles, Tempo text, Coda symbols, Time signatures, and first and second ending lines. They can be made to appear on multiple staves and will be copied into extracted parts. *Staff* objects apply to a single staff.

When you create text, lines, and symbols be aware of whether they are *System* or *Staff* objects. The objects we will use for harp notation are *Staff* objects.

In Sibelius 7 and later, you create objects using galleries in the Ribbon in the appropriate panes, which are mostly the *Text* and *Notations* panes.



Many people prefer to use the menus that were used in Sibelius 6 and earlier, and you can still do that for the most part. Right click in the "white space" outside any staff and you will see the *Create* menu that was used in earlier Sibelius versions, and you can create objects from that menu.



6.1 POSITIONING LINES, TEXT, AND SYMBOL OBJECTS

You should usually select a target object, such as a note, to act as an anchor location when adding one of these objects. All of these objects have default vertical and horizontal positions relative to a note or staff, which can be adjusted as a group in *Default Positions*. After the object is created, you can select it and move it with the mouse or with arrow keys.

When a staff object is selected, you can see a faint line showing which staff and bar the object is attached to (you should always enable *View > Attachment Lines*). For text such as dynamics, which affect playback, it is critical that the object is attached to the correct staff. Dragging will move the attachment point, and will sometimes cause the object to attach to a different staff.



For the most part, staff objects will stay with the bar they are attached to when the score is reformatted. Slurs are magnetic, so they will move with notes as they are transposed, and *Magnetic Layout* can adjust the position of staff objects so they are less likely to collide, but you should save the fine positioning of objects that overlap until most of the score formatting is done, or you will find yourself carefully positioning objects over and over.

In Sibelius, the command *Reset Position* will move staff objects to their default location, so be careful resetting position if you have been doing a lot of manual placement of objects. *Reset Note Spacing* is also very useful.

6.2 ADDING LINES

Lines have the ability to change size and orientation. Create them in *Create > Line // Notations > Lines > More*. If you select notes before creating lines, Sibelius will try to place the line where you would want it to go, though it is not always successful.

Arpeggios, glissandos, and brackets are particularly useful lines for harps.

After you create a line you can drag it into position by clicking somewhere in the middle of the line. For many lines you can also rotate the line by dragging on the end of the line. Some lines, like arpeggios, will always stay vertical or horizontal. If you click near the end of a line you will often but not always see a little handle:



If you click on that handle you can drag the line to change its length. If you drag it to be smaller, you can often come around to the other side and invert the direction of the line. If the handle is not visible, click at the spot where the handle should be and drag until the line changes length.

In some situations you may find yourself unable to select a line at all. If you can select a handle on either end, you can use *Alt- to move to different regions of the line, and one of these will select the line so it can be moved. Use the arrow keys to move it at that point.*

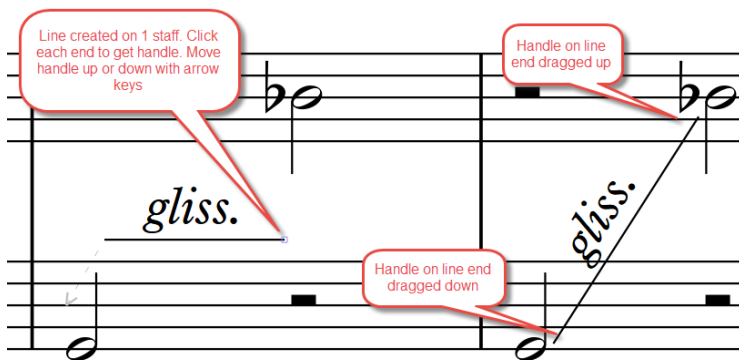
You can move lines with the arrow keys on the keyboard. Once a line is selected, you can extend it with the *Space* key, and contract it with *Shift-Space*. If the handle at the end of a line is selected, you can rotate the end using the mouse or arrow keys.

Lines are defined only for a single staff. If you want a gliss to cover both staves, select the start and end notes and create the line. It will be drawn straight on the first staff, and the ends may be far from either notehead. Now click on the end(s) of the line that need to move to get a small handle, and drag the handle to the note – the up and down arrow keys will actually do a great job for this. You will usually find that you will not need to adjust the horizontal spacing at all.

6.2.1 GLISSANDOS

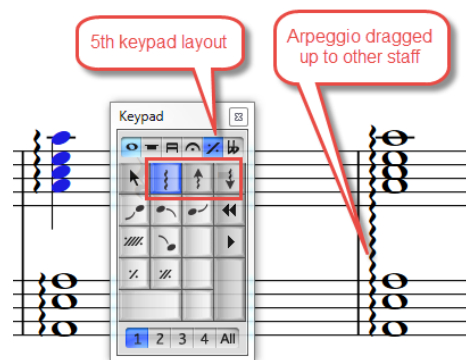
Gliss lines are notoriously hard to position. If the notes are close together, the lines jump around even if Magnetic Layout is off. Try using the *Line Between Notes* plug-in, category *Lines*, as described in the *Plug-ins* section. It will make placing lines much easier, though you may still need to adjust one end for multi-staff lines. Playback is also a problem for gliss lines, and there is a plug-in (*Harp Gliss Playback*, category *Harp*), to help with that.

In Sibelius 8.3 or later, gliss lines can be created as *Magnetic Glisses*, which automatically go from one note to the next, and are much easier to position. You can adjust properties of such lines in the Inspector. Unfortunately, playback of such lines still does not understand the tuning of a harp, and generally has to be implemented using a plugin.



6.2.2 ARPEGGIOS

Prior to Sibelius 6, arpeggios always came from the line gallery. You can still get them there, but it is now easier to use *note-attached arpeggios* which are available from the 5th keypad layout. They are easier to position than lines, match the height of the chord, and stay attached to the chord even if it moves.



If you select notes on 2 staves when adding an arpeggio, you will find you create 2 of them, one on each staff. Instead select just one staff, and after the arpeggio is created, drag the end to the other staff. Arpeggios will play back (the plain

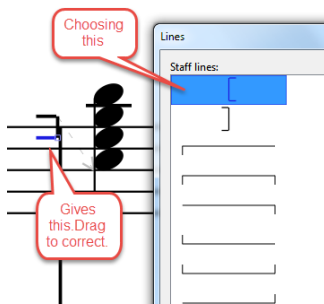
and up arrow arpeggios play upward, the down arrow plays downward), but only on one staff. If you want to get both staves to play back you will need to use a plug-in, as described in the section on playback.

6.2.3 BRACKETS

Brackets are used to indicate how fingers are placed on a series of notes. They are straightforward, though some people do not like the fact that the hooks at the ends do not stay vertical if the line is angled. The data score I describe later in this document contains definitions of the custom lines *bracket above vertical ends* and *bracket below vertical ends* that can give you angled brackets with vertical ends.

There are separate lines for brackets above or below the staff; they can be tilted to follow the notes. Magnetic Layout will keep the lines from colliding with fingering text.

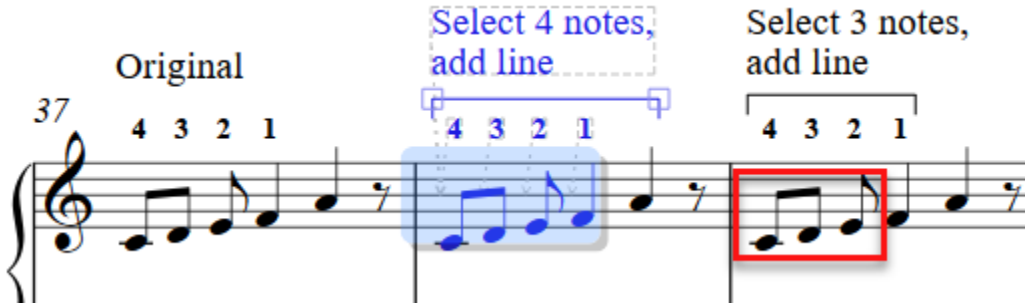
Vertical brackets, used to show non-arpeggiated chords, will appear reversed when you add them. If that happens drag one end toward the other until the hooks change direction. Adjust the length and position and right/ctrl-click to turn off Magnetic Layout off so you can get close to the notes.



For vertical brackets, you may find the downloadable plugin *Bracket Notes* (installed from the category *Lines*) useful. It lets you select blocks of chords, and it adds a vertical bracket to the left of each of them, spacing the bracket to match the number of notes in the chord, and it will turn off Magnetic Layout for the lines, which is almost always useful. One problem with vertical brackets in the staff is that Sibelius does not provide horizontal space for them, so you may need to drag notes apart (shift+alt/option+right arrow) to widen the bar. Select a note in the chord following a cramped line and the line will move with the note. The spacing will be required when brackets are added manually or with the plugin.

29 Original After Bracket Notes - spacing too tight with accidentals Select a note and use shift+alt/option+right arrow to widen the bar and make space for the bracket

For horizontal brackets, you can select a group of notes and then add the bracket line, and it will position itself pretty well, though it seems to extend the line one note further than you want. A trick that helps it to select one fewer note, and then the line will not need adjusting.



6.3 ADDING TEXT

Many harp instructions are just written out text, such as pedal changes or **P.d.l.t.**, usually using *Technique* text style. Text objects have the advantage that they can easily be resized by selecting them and changing the font size in the *Property Window // Text pane*.

6.3.1 HARP PEDAL DIAGRAMS

There are a number of ways to create harp pedal diagrams in Sibelius. If you know which characters you want, you can create a piece of *Technique* text and type **Ctrl-Alt-7/8/9/+** (on keypad) for Windows, or **Command-Option-7/8/9/+** (on keypad) for Mac.

The plug-in *Add Harp Pedaling* will generate pedal diagrams (or pitches as boxed text) from selected notes,



and the downloadable plug-in *Harp Diagram from Tuning* (category *Harp*), will let you type in a 7-note harp tuning and will create a pedal diagram or tuning text from those pitches.

6.3.2 FINGERING

The standard way to add fingering is to create text with the *Fingering* text style after selecting notes. You can type a number and then use the *Space* key to move to the next note. Type *Return* to start a new line, which will stack numbers for the notes in chords. *Fingering* text will go above the staff by default.

To have fingering below the bass staff, you can create it above the staff and drag it down or go to *Edit Text Styles* to define a new text style based on *Fingering* that goes below the staff. You might name it *Fingering Below*.

6.3.3 FINGERING SLIDES

When the same finger is used to play consecutive notes, a slur can be placed between the fingering numbers, as in the example below. In Sibelius it is tricky to draw and position these slurs. Here are a few ways to create them.

- Use an *l.v. up* or *l.v. down* symbol, as in the second example of the second bar. These are easy to add and position but hard to resize or angle.
- Create a *non-magnetic slur* from the *Line* menu when noting is selected. The first example in the 2nd bar uses a slur. These are the most flexible for changing width and angle, but they can be difficult to control.
- In Sibelius 7 and later, you can create a new Text Style that uses the Opus Special Std font, and *create text that uses the l.v. up and l.v. down symbols as text characters*. The data score described in chapter 12, **Pedal harp-specific notation features** includes some of these characters you can copy. The ones used in the first bar below were scaled in the Inspector to be wider and tilted to a 10 degree angle. You can also change the font size in the Text panel. You can use this text prior to Sibelius 7, but the scaling and angling features will not be available.

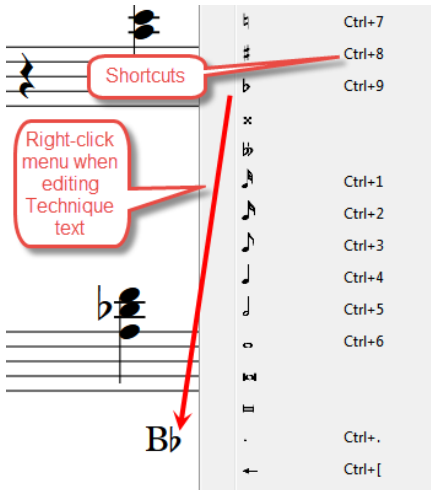
All these slurs will shift position if pitches change or the bar width changes, so add these when the format is stable if possible, and check their positions before you print.

The image shows a screenshot of the Sibelius Text Inspector on the left and a musical score on the right. The Inspector is set to the 'Text' panel with the following settings: Font: Opus Special Std, Size: 19.1, Style: T T' T T' T', Alignment: left, Vertical align: top, Spacing: 100, Angle: -10, X Scale: 170, Y Scale: 100, and Tracking: 0. The musical score shows two staves (treble and bass clef) with notes and slurs. The first bar contains text: 'text using l.v. symbols in special style, angled in Sib 7'. The second bar contains text: 'non-magnetic slur' and 'l.v. up symbol'. The score is numbered 74 at the beginning.

6.3.4 PEDAL CHANGES

Pedal changes are typically entered as *Technique* text with a note name and an accidental for each changed pedal, attached to the bottom staff, so they will appear between staves, or dragged below the bottom staff if there is more space.

To get professional-looking accidentals, right click (ctrl-click on Mac) to get a context menu that include accidentals.



Sometimes you will see pedal glisses notated like $C\#-b$. You can do this as a single text object using right click to get both the sharp and natural signs, and also find the em-dash or en-dash for the separator. In some fonts, the separator will be too close to the sharp sign, and the easiest fix is to add a space before and after the separator. If you need multiple separators in a continuous line, use em-dashes from the right-click menu, then (in Sibelius 7 and later) go to the Inspector and select each pair of dashes and adjust Tracking until the gap disappears.

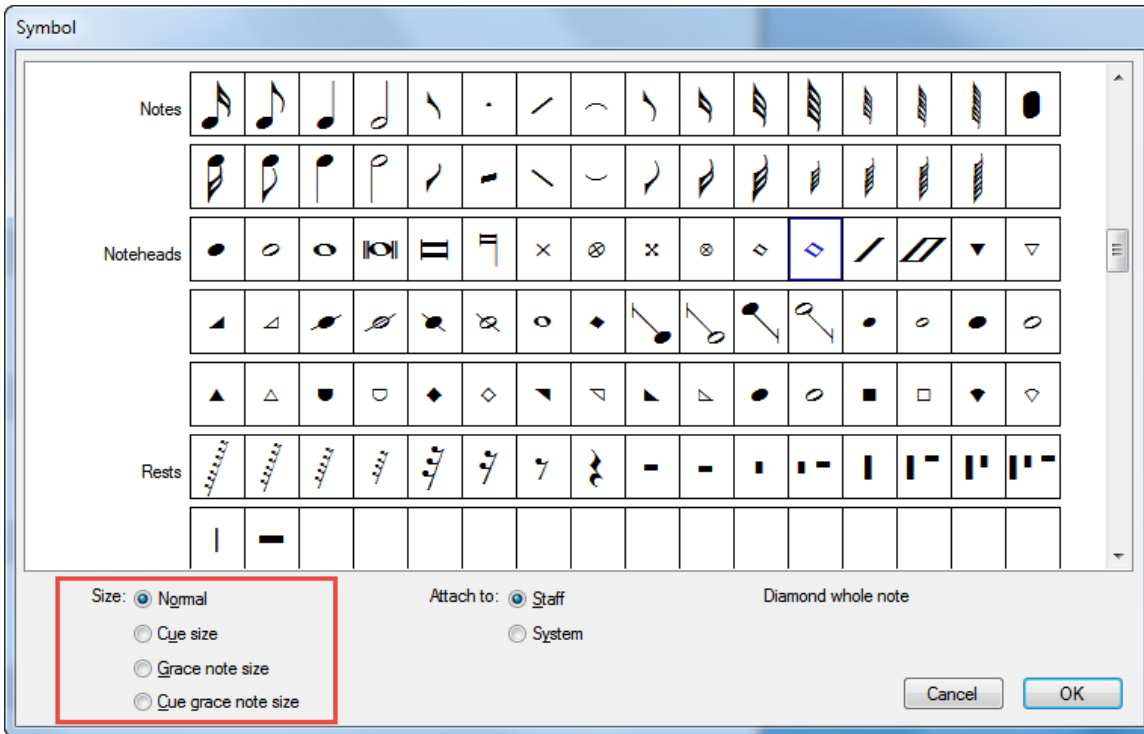
Lever changes for lever harps can be implemented in a similar way. A pedal change affects all strings with the same note name, but lever changes only affect one string at a time, so the octave will have to be indicated in lever changes. This is discussed in the section on lever harp notation. Lever changes are typically entered between staves.

6.4 ADDING SYMBOLS

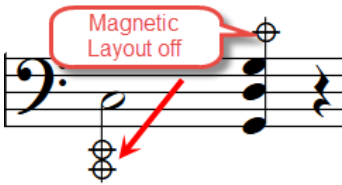
6.4.1 SYMBOL OBJECTS IN SIBELIUS

Symbols are single characters (*glyphs*) that are added in *Create>Symbol // Notations>Symbols>More*. They can be placed anywhere in the score, including within the staff. Sibelius provides hundreds of standard symbols, which can make finding the one you want tricky, and you can also combine existing symbols to make your own composites, or make symbols from an appropriate font. In Sibelius 7 and later you can create symbols from SVG graphics files. Symbols can be combined with lines or other symbols so they remain attached when the line or symbol is repositioned.

Symbols typically have a fixed size, and when you insert one you have a choice of the normal size or a few smaller variants. You can get other sizes but you need to create a new symbol in a somewhat complex process. See the *Scoring Notes* post [How to enlarge symbols in Sibelius](#) for the details.



Symbols or text objects are used to indicate muffling or fingernail sounds, and in many other places where a single character is needed. Symbols can be placed outside the staff, or can overlap notes. Doing so will not affect playback. You may need to disable Magnetic Layout if you want symbols to overlap other objects.



6.4.2 TEXT VS. SYMBOLS

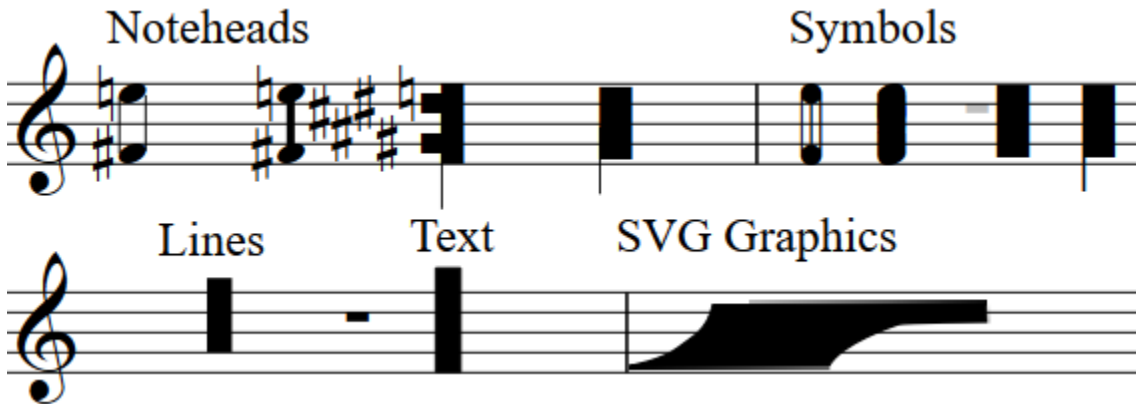
A symbol and a single text character can look the same. Sometimes using a text character will be more convenient if you need a specific size, because you can easily change the font size. Finding a symbol to add is usually simpler than finding the desired text character and applying formatting, but the ability to change size can be a big plus for Text objects.

6.4.3 TONE CLUSTERS

Tone clusters, also called note clusters, or just clusters, are a shorthand notation for several adjacent notes played at once. Groups of notes like this can be difficult to read, and in many cases specific pitches are not required.



Sibelius can represent clusters in several ways, each of which has issues that can make them awkward to use. Here are some examples of clusters represented by different objects.



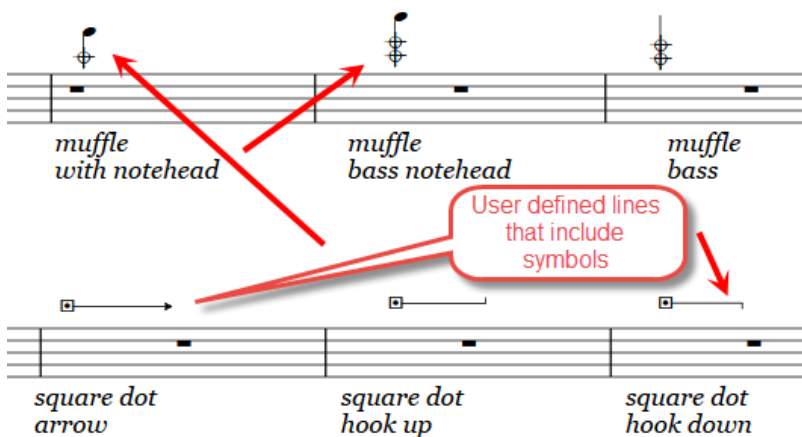
You can find a detailed writeup on using tone clusters in Sibelius [here](#).

7 CUSTOMIZATION: USER-DEFINED TEXT STYLES, SYMBOLS, NOTEHEADS, AND LINES

7.1 MAKING YOUR OWN OBJECTS

While Sibelius provides a large number of objects built-in, and has mechanisms for importing objects that someone else has created, it also provides mechanisms for creating custom staff objects of your own. These objects can either be variations of existing objects or completely new objects. You can combine symbols into composite symbols and then use those symbols in lines.

Composite lines



This is a powerful mechanism allowing you to change the appearance of a score.

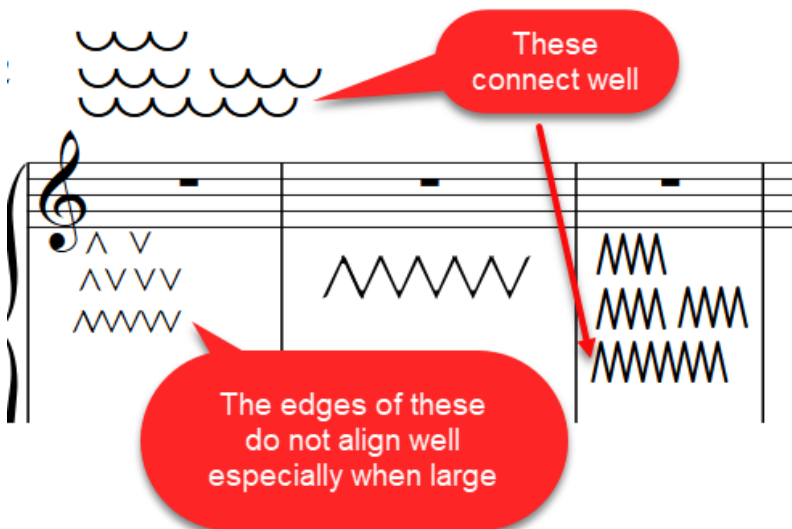
If you are only using certain constructs occasionally, it is often faster to insert, for example, a symbol followed by a line, rather than creating a composite line. Be aware, though, that separate objects are easily misaligned when layout changes, and copying and pasting multiple objects can cause misplacement.

Daniel Spreadbury, the former Sibelius product manager, did a wonderful video tutorial on this subject, showing how to create composite symbols and then use them with lines. You will learn a lot by looking at [Creating composite symbols in Sibelius](#).

7.2 LINES MADE OF ADJACENT SYMBOLS

Sometimes you need a line which is not available, and you can construct one from adjacent symbols. Add symbols to the score, select them, and use *Appearance>Align>Align* in a row to put them on the same baseline, then use the left and right arrow keys to connect them. Using a high *View>Zoom* factor makes this easier.

Some symbols join better than others. In the examples below, the first symbol (*Oboic flux*) joins well to make a line. In the second example, I tried combining up and down arrowheads, and this would not be good enough for professional engraving. I would need to find some other “v” symbols, or possibly find a font with a simpler non-serif V and make a symbols from that font. The example is here to show that not all symbols combine well, and sometimes it takes a long time to get combinations that work. The 3rd example joins well but may be too jagged for its intended use.



7.3 SYMBOLS AS FONT CHARACTERS OR GRAPHICS

In *Edit > Symbol*, you can create new symbols, finding the “glyphs” in the various music fonts available, or, as of Sibelius 7, creating a symbol from an SVG graphics file. Philip Rothman has a useful *Scoring Notes* post called [Use graphics as symbols in Sibelius 7, and define them as custom articulations](#).

You can get additional symbols by acquiring a new font in the proper format, or, if you have Sibelius 7 or later, you can create symbols in a graphics editor and turn them into Sibelius symbols.

8 PLAYBACK

Sounds are determined by the Playback Configuration (*Play>Playback Devices // Play>Setup >Configuration*), and can be modified in the mixer. You can find more details in the Sibelius Reference. The Playback Dictionary can be set up to change playback results for things like shaped noteheads, articulations (like harmonics) and text.

Here are some details about sounds that should be of interest to harp players.

8.1 NOTES

If you have created a *Harp* instrument, the notes will play back sounding like a harp. Different sound libraries will have different qualities, but I find that most harp sounds are good enough at least for demos.

8.2 HARMONICS

You can use the *Harmonics* articulation in the 4th keypad layout to notate octave harmonics. By default the articulation makes a “+harmonic” sound id change in the Playback Dictionary, which is supported by some sound libraries. I had not

encountered any sound libraries that supported this until the Sibelius 7 sounds, so such marked notes might sound just like normal notes.

In Sibelius 7 and later, using Sibelius 7 Sounds, the timbre of the notes with harmonics articulations on a harp changes but the pitch is not raised. Curiously, for a guitar, the pitch is raised and the timbre changed, and for a solo violin, no sound changes are made.

One fairly painless approach that will work to raise the pitch an octave it is to add a hidden *8va* line above the music. This will only work if all the notes under the line need to be raised.



For non-octave harmonics, you can use the plugin *String Harmonics* to add diamond noteheads to a note at the proper interval for the common artificial harmonics.

The plugin *Harmonics Playback* can add MIDI messages to produce pitches for artificial harmonics, but it does not deal with octave harmonics.

Harmonics Playback silences the actual noteheads and generates sound by inserting hidden MIDI Note On and Note Off messages to produce the sound. The sound will be a normal tone at a higher pitch, and will not have the bell-like tone of an actual harmonic.

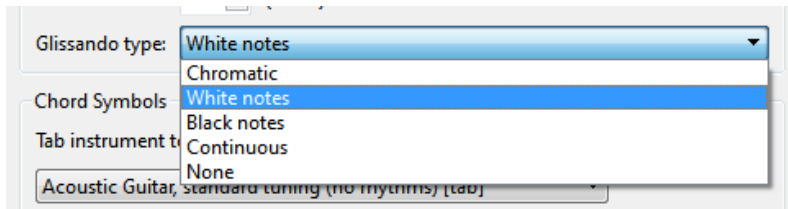
You can use the *String Harmonics* plugin to generate and place the diamond noteheads, and use other mechanisms to provide playback, so there may be some way to provide both a different pitch and timbre, but this would probably involve adding hidden notes in other voices, and hiding rests, and will generally be a lot of work.

Once you have diamond noteheads in place, the plugin *String Harmonics Sounding Pitch* can be used to generate a parenthesized note at the sounding pitch if you want that; there are various playback options for this. The image below shows some results of these plugins.

The screenshot shows the Sibelius String Harmonics plugin window overlaid on a musical staff. The staff contains three notes with diamond-shaped heads, each preceded by a tilde (~) and a MIDI message (e.g., ~N9Q01). A callout box on the left states: "Hidden MIDI messages produce the sound". A callout box on the right states: "Output of plugin String Harmonics Sounding Pitch". The plugin window itself contains the following text: "This plugin adds a diamond-head note above each selected single note that has a normal notehead to notate string harmonics. For octave harmonics, just use the small o articulation. You can optionally call the Harmonics Playback plugin to set up playback for these notes. If you do not call Harmonics Playback, both the diamond note and the normal note will be silenced." Below this text are three radio button options: "1/3 Harmonic: adds a note a Perfect fifth above (sounds an octave and a fifth above the lower note)", "1/4 Harmonic: adds a note a Perfect fourth above (sounds two octaves above the lower note)", and "1/5 Harmonic: adds a note a Major 3rd above (sounds two octaves and a major third above the lower note)". The "1/5 Harmonic" option is selected. There is also a checked checkbox for "Run Harmonics Playback plugin at completion". A callout box points to this checkbox, stating: "This generates the MIDI messages". At the bottom of the window are "Cancel" and "OK" buttons. The footer of the window reads "by Bob Zawalich Version 01.05.00".

8.3 GLISS LINES

The “instrument default” playback of a gliss line in a harp instrument is *White notes*. This is set in *Edit Instrument*, and the available options are



White notes plays a C major scale and *Black notes* plays a “black keys on the piano” pentatonic scale, regardless of the key of the piece. These settings might work on a piano (or a cross-strung harp), but they are not very useful for most harps. *Unless you are in the key of C/Am, the playback will always be wrong for harp glissandos!* Also, gliss lines that cross staves do not play back at all in Sibelius, nor do gliss lines for notes that are not adjacent.

The downloadable plug-in *Harp Gliss Playback* is the preferred workaround if you want gliss playback.

It will generate MIDI Note On and Note Off messages that are equivalent to a harp glissando using the notes of the tuning. After running the plugin you will see a “cloud” of messages if you are showing hidden objects. Here is an example, including a tracing of the generated MIDI messages.

The image shows a music software interface with three main components:

- MIDI Piano Roll:** A staff with a glissando line. Two notes are selected, and a dense cluster of MIDI messages is visible above the staff.
- Harp Gliss Playback Dialog:** A window for configuring the glissando playback. It includes options for calculating or typing in tuning, a tuning text input field (set to 'CDEFGAb'), and checkboxes for various playback options like 'Play last note' and 'Process harp instruments only'. A red callout points to the 'Type in tuning' option with the text 'Tuning for F major'.
- Plug-in Trace Window:** A window showing the MIDI data generated by the plugin. It lists MIDI text with staff, bar, position, and voice information. A red callout points to the first few lines of text, stating 'trace of selected notes and tuning'. Another red callout points to the entire list of MIDI text, stating 'Trace of MIDI cloud'.

When played back, the MIDI messages generate the desired pitches in the desired order and timing.

8.4 ARPEGGIOS

If you use *Note Attached arpeggios* from the 4th keypad layout, they will play back if the notes are all on one staff. You can drag the arpeggio from one staff to an adjacent staff, so it will look right, but the notes in the dragged-to staff will not play any differently. The notes will play back with the low note starting on the beat, whereas harp players usually start an arpeggio before the beat and end it on the beat.

Arpeggio lines of either type have 3 playback problems:

1. Arpeggio lines only work in a single voice
2. Arpeggio lines only affect one staff
3. The playback starts on the beat, but harpists always want to end on the beat

If you want arpeggios to end on the beat, or chords on 2 staves with a single arpeggio line to play back as if you rolled the notes from the lowest note up through the notes in the lower staff, then up through the notes in the higher staff, or play back chords in more than one voice, select the notes in the chord (on one or 2 staves) and run the downloadable *Harp Arpeggio* plug-in. You will have to run the plugin on each chord you want to play back correctly.

This plug-in adjusts the *Live Playback > Live start positions* of each note starts a little later. You can adjust the gap between notes, but the default (8), which is equivalent to starting each note a 128th note apart, works well in most cases. 16 units gives a bit more time spread, though.

9 SOUND LIBRARIES, EXPORTING TO AUDIO, CREATING MP3 FILES

This is a big topic, and I will only touch on a few issues here. You should read the sections in the Sibelius Reference on *Playback Devices*, *File > Export > Audio*, and *Playback and Video* (in Sibelius 6) or the *Play Tab* (in Sibelius 7 and later).

Sibelius provides sound libraries that produce good quality audio, but the libraries are large and using them can make your computer run slowly, so you need to have the libraries set up properly to be able to use them. You can also buy external sound libraries and integrate them with Sibelius.

There are a number of 3rd party sound libraries that can be used with Sibelius, but Sibelius requires a “soundset” to integrate with a sound library. A number of soundsets are offered for sale at <http://www.soundsetproject.com/soundsets/>. You should check whether there is a sound set available before purchasing one to use with Sibelius.

One relatively inexpensive sound library is Note Performer, which you can check out at <https://www.noteperformer.com/>. It produces good sounds without needing a lot of tinkering, and it can play things like harmonics better than the Sibelius sound libraries do. It is worth looking at if you plan to produce sound files.

To produce an audio file of a score, you could use an external recorder, including your phone. Start the recorder, then start playback in Sibelius and get an audio file of your score, which is typically in MP3 format. Even MP3 files are large, and you may need to use something besides email to send an audio file to someone else. You could use a wave editing program like *Audacity* (which is free) to trim the ends of the recording.

In Sibelius itself, you can use *File > Export Audio* to create an audio file from your score. You must use a sound configuration that uses virtual instruments to have this work, which means you need to use something other than *General MIDI*. The Reference explains this.

Sibelius 8.1 offers MP3 as an export format, but prior to 8.1, Sibelius only offered WAV format for Windows and AIFF format for OSX. These are high quality but very large formats, and you will often want to convert the file to MP3. The Sibelius Reference discusses this, and you will need something like *iTunes* or *Audacity* to convert your files to MP3.

10 ENSEMBLE PIECES, DYNAMIC PARTS, AND THE REHEARSAL RECORDINGS PLUG-IN

If your score includes several instruments you may want to produce parts for each player, showing only the music for that player. Sibelius has a great feature called *Dynamic Parts*, and you should read about it in the Sibelius Reference. You can change the score and the changes will be reflected in the part, so you can change things up to the last minute and still be able to produce parts quickly.

The *Rehearsal Recordings* plug-in can generate audio files for each instrument in a score with the other instruments muted or quieted, to help individual players learn their parts. Install it from category *Playback* in Sibelius 6. It ships with Sibelius 7 and later and you can find it at *Home > Plug-ins > Batch Processing > Rehearsal Recordings*. Search for *Rehearsal Recordings* in the *Reference* for more details.

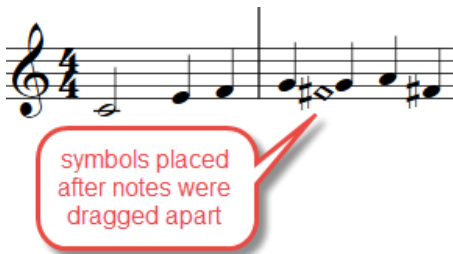
You should also check out the plug-ins *Export Each Staff As Audio*, *Export Audio Score and Parts*, *Export Selection As Audio*, *Export Audio With Count-in*, and *Export Midi or Audio with Standardised Settings*.

11 LEVER HARP-SPECIFIC NOTATION FEATURES

Indications of lever changes are the distinctive lever harp feature. If levers are set at the start of the score, match the key signature, and do not change, no specific instructions are required. If any levers do not match the key signature at the start of the score, provide text instructions describing which levers need to be set initially.

If levers are changed within the piece, you should mark the time when the levers are changed, and the pitch they should be set to. This can be done with a text instruction between the staves with the pitch name, accidental, and an octave indicator, written in *Technique* text.

Lever changes can also be indicated by putting a diamond notehead in the staff at the desired pitch and location. The simplest way to accomplish this is to add symbols for an accidental and a diamond notehead, and turn off Magnetic Layout. You will then need to drag the existing notes horizontally to make room for the symbols (*shift+alt+arrow/shift+option+arrow* will precisely drag a selected note), and drag the symbols into their desired position.



This works well, but be aware that if you reset note spacing, the positioning will be lost. You can see a tutorial on different ways to implement lever changes in the Scoring Notes blog article [Notating lever changes for lever harps in Sibelius](#).

12 PEDAL HARP-SPECIFIC NOTATION FEATURES

12.1 OVERVIEW

There are a number of symbols specific to pedal harp notation, many originating in Carlos Salzedo's *Modern Study of the Harp*. Using these in Sibelius required a font that includes these characters.

Most 3rd-party fonts cannot be used to create symbols in Sibelius version 7 and later, so my colleagues Robin Walker, Philip Rothman, and I have built a font that contains harp-specific symbols taken from the free, open-source *Bravura* font, in a format that will allow us to create both Text objects and Symbol objects in Sibelius. The rest of this section will describe how to set up the font and how to use Symbols, Text objects, and Lines that use characters from this font.

12.2 FONTS AND OTHER SUPPORT FILES

The new font is called *Norfolk Harp Std*, and is distributed as part of the *Norfolk* font set. You can read about *Norfolk Harp Std* in *Scoring Notes* at <https://www.scoringnotes.com/news/norfolk-harp/>. To install this set of fonts, go to Philip Rothman's [NYC Music Services Resources Page](#). This will give you a link to download the font and instructions to install it and integrate the font with Sibelius.

If you want to be able to use the Norfolk fonts as a full music font, follow all the installation instructions. You can, however, just unzip the Norfolk download and install the *Norfolk Harp Std* font on your machine and then copy characters from *Harp techniques transfer document.sib* as described below. This could be all you will need to do to take advantage of this font.

12.3 ADDING SPECIAL CHARACTERS TO A SIBELIUS SCORE.

The Norfolk package includes a score in Sibelius 6 format called *Harp techniques transfer document.sib*, which contains symbols created from the characters in the *Norfolk Harp* font. You can select and copy symbols from that score and paste them into your own score. This is what the transfer document looks like:

Harp Techniques transfer document for Norfolk Harp Std 2019-03-28

Each bar has a Symbol object for each character.

Copy symbols from this source document and paste into your destination document.

9	♭	♮	♯	♀
<i>Snap pizzicato below</i>	<i>Snap pizzicato above</i>	<i>Buzz pizzicato</i>	<i>Left-hand pizzicato</i>	<i>Snap pizzicato below (German)</i>
6	♭			□
<i>Snap pizzicato above (German)</i>	<i>Arpeggiato up</i>	<i>Arpeggiato down</i>	<i>Breath mark (Salzedo)</i>	<i>Isolated sounds (Salzedo)</i>
11	♭	♮	♯	MMM
<i>With fingernails</i>	<i>Fingernail flick</i>	<i>Fingernails (beater)</i>	<i>Plectrum</i>	<i>Play at upper end of strings (Salzedo)</i>
16	♯	⊕	⊕	⊕⊕
<i>Damp</i>	<i>Damp all</i>	<i>Damp for stem</i>	<i>Damp only low strings (Salzedo)</i>	<i>Damp with both hands (Salzedo)</i>
21	⊕	⊕	⊕	⊕
<i>Damp below (Salzedo)</i>	<i>Damp above (Salzedo)</i>	<i>Muffle totally (Salzedo)</i>	<i>Tam-tam sounds (Salzedo)</i>	<i>Timpanic sounds (Salzedo)</i>
26	♯	♯	♯	⚡
<i>Harp pedal raised (flat)</i>	<i>Harp pedal centered (natural)</i>	<i>Harp pedal lowered (sharp)</i>	<i>Harp pedal divider</i>	<i>Combining string noise for stem</i>
31	⚡	⚡	⚡	⚡
<i>Oboic flux (Salzedo)</i>	<i>Thunder effect (Salzedo)</i>	<i>Whistling sounds (Salzedo)</i>	<i>Metallic sounds (Salzedo)</i>	<i>Metallic sounds, one string (Salzedo)</i>
36	♭	♮	♯	⚡
<i>Slide with suppleness (Salzedo)</i>	<i>Fluidic sounds, left hand (Salzedo)</i>	<i>Fluidic sounds, right hand (Salzedo)</i>	<i>Metal rod pictogram</i>	<i>Metal rod pictogram (alternate)</i>
41	♯	♯	♯	♯
<i>Tuning key pictogram</i>	<i>Use handle of tuning key pictogram</i>	<i>Use shank of tuning key pictogram</i>	<i>Retune strings for glissando</i>	<i>Tuning key pictogram (alternate)</i>
46	♭	♮	♯	♯
<i>Snare drum effect (Salzedo)</i>	<i>Ascending aeolian chords (Salzedo)</i>	<i>Descending aeolian chords (Salzedo)</i>	<i>Cluster notehead white (square)</i>	<i>Cluster notehead black (square)</i>

This is really all you need to make use of the font. However, I have also made some extra files available on my website.

The [Harp Notation Support Files](#) web page includes extended data scores in Sibelius 5, 6, and 7 formats. These scores contain additional characters and lines. The file names are:

Harp Technique Opus Norfolk Harp (v5).sib

Harp Technique Opus Norfolk Harp (v6).sib

Harp Technique Opus Norfolk Harp (v7).sib

I will refer to any of these files as the *data score*.

The data score will contain both Text objects and Symbol objects for each character in the *Norfolk Harp Std* font. It will also contain some symbols from standard Sibelius fonts and some composite symbols and lines.

You will need to have the *Norfolk Harp Std* font installed before you can see the characters in the source or destination scores, *and the special characters will only be visible on machines that have the fonts installed*.

If you create PDF files with embedded fonts, all users will be able to see the characters in those PDF files.

12.4 WHERE TO KEEP THE DATA SCORE

If you put the data score in your default *Scores* folder it will be easy to find using *File > Open*.

12.5 USING THE DATA SCORE

The data score contains Symbol objects and Text objects that use the *Norfolk Harp Std* font, as well as some composite symbols and lines. Copy an object to the clipboard and then go to your own score and paste it. The object will be created in your score, and its text style, line style, or music font will be defined in your score as well.

The size of Text objects can be easily adjusted by changing the font size; pasted symbol objects will have a fixed size.

The objects in the data score will usually have Magnetic Layout turned on. When you paste characters that will overlay other objects you may want to right/ctrl click the object and turn its Magnetic Layout off.

12.6 IMPORTING ALL THE NORFOLK HARP CHARACTERS INTO A SCORE

Rather than opening the data score and copying each time you want an object, you can import all the symbols and lines at once, and then use *Create > Symbol* or *Create > Line* to add an object to your score. [Appendix 3](#) discusses ways to import all the *Norfolk Harp* characters into a score at once, including creating a new Manuscript Paper from the support file *Opus Norfolk Harp.sib*.

12.7 WHAT DO THESE HARP SYMBOLS MEAN?

If you have need of these symbols you more than likely know what they mean. If not, you can find descriptions in Salzedo's *Modern Study of the Harp*, or in Gould's *Behind Bars* or Stone's *Music Notation in the Twentieth Century*. There is a list of these references in [Appendix 1](#).

12.8 HOW TO DO MORE COMPLEX THINGS.

Some of the Salzedo notations require variable-sized objects. You will probably find *Line* objects useful quite often. The data score contains some composite symbols and lines that I assembled.

Note that you cannot make *Text* objects using composite symbols, as only *Symbol* objects have the ability to fix the positions of multiple characters. Lines can include text or symbols, but the text or symbols will be of a fixed size.

2

Some useful symbols and noteheads using the current Sibelius fonts

51

Fingernail Anvil Fingernails Claves Damp 3

56

Snap 1 Snap 2 Round half notehead lines White diamond notehead Black diamond notehead

61

Cross notehead Diamond Stemless Silent Notestyle Cluster Block Notestyle Ledger lines l.v. up l.v. down

Composite symbols

67

Pause comma down Pause comma up Mallets Mallets 2 Mallets 3

72

Square with dot small muffle bass Cluster black quarter down Cluster white quarter down Cluster black quarter up Cluster white quarter up

Composite lines

78

muffle muffle with arrow muffle with notehead muffle bass notehead muffle bass

83

muffle hook up muffle hook down square dot arrow square dot hook up square dot hook down

88

2 round noteheads 2 noteheads bracket above vertical ends bracket below vertical ends

Useful text styles and text to copy

95

Fingering_Below (Symbol Text Opus Special) Text symbols (lv up and lv down for fingering slides (Sib 7 or later) level, up, down level, up, down

Many of the lines could be reproduced by creating separate symbols and lines, then positioning them carefully, but if you find you are using some combinations often it will be much easier to place a combined object. You can also add more objects to your copy of the data score, or modify the existing ones.

Here are step by step instructions for creating some pedal harp notations, including some of the Salzedo notations. There are many ways these could be implemented, so what I offer here is merely one way to create them. This is only a small subset of all the Salzedo notations, but hopefully it will give you an idea of how to accomplish other notations.

You can find a Sibelius score that contains the notation for the following examples on the [Harp Notation Support Files](#) web page.

These notations will most likely either not play back, or will play back in some way you do not want them to. You will probably need to turn off Play on Pass for most of the elements to avoid strange playback. If you actually need playback you will probably need to be quite creative!

12.9 CREATING AN OCTAVE OF SMALL NOTES FOR A GLISSANDO USING GRACE NOTES.

1. Enter grace notes from the 2nd keypad layout. Add non diatonic accidentals

2. Fill in all accidentals by hand or with the plugin Add Accidentals To All Notes

3. Change notehead types to Stemless. Silence by turning off Play on Pass in the Inspector or Property Window.

4. Add parentheses as symbols and position by hand. Hide and silence main note if desired.

This sort of notation is usually done for the conductor in an orchestral piece, not for a harpist, since they know from the pedals what the pitches will be. There are a number of ways to do this, but they all have something quirky about them. You can use regular notes in an unused voice that use a custom small silenced stemless notehead (which you will have to create), and hide rests. I used grace notes for the above example; grace notes can be quirky, but they make certain things easy.

Grace notes attach to the *left side* of a note or rest, so select a note and then enable grace notes in the 2nd keypad layout. Enter the pitches you want; Apply explicit accidentals for each note, or wait and run the *Add Accidentals to All Notes plugin to all the notes (step 2)*.

Select each grace note (ctrl/cmd-click each note until it changes color). Change the notehead type to *Stemless*, then bring up the *Inspector* or *Property Window* and turn off *Play on Pass* for the grace notes to silence them. Add symbols for parentheses as desired.

You may find you will need to change these notes to another voice if there will be other notes in the bar, and hide and silence the main note, and hide rests generated for the new voice.

Here is an example of entering the grace notes in voice 3 when glissing between two notes in voice 1. This process is automated by the downloadable plugin *Harp Gliss and Octave Notes* in category *Harp*.

I created a rest in voice 3 at the same position and duration as the first voice 1 note. I then split that rest in half, and attached the grace notes to the 2nd eighth rest. What that does is separate the first grace note from the first note, and the last grace note from the second note, so all the grace notes are visible and there is room for the gliss line.

5 Added rests in voice 3. Split first quarter rest into 2 eighths. Attached grace notes to 2nd eighth rest. This gives space after first note and before second.

Grace notes are silenced. Line from last grace note is also silenced.

Generated voice 3 rests are hidden

When this bar is not selected the colors are black. Hidden rests are invisible or gray. Everything prints black.

None of this will play back. Select the two voice 1 quarter notes, then run the Harp Gliss plugin for playback.

To get grace notes to be on the *right side* of a note, attach them to the following beat. If there is no following beat, at the end of a bar, create them to the *left* of the note you want them to follow, then drag the grace notes with the mouse to the desired position, past the last note. Sibelius lets dragged notes at the end of a bar attach to the barline.

The colors in the example above are only visible when the bar is selected. Everything will print in black.

12.10 NOTATING THE SALZEDO “METALLIC SOUNDS” EFFECT

Metallic Sounds
Produced by holding
the pedal halfway
between two notches

16 17 18

Ab 1/2
Db 1/2

You can see the individual steps I took to create the notation above in the score [Examples of Pedal Harp Techniques](#), a support file on the *Harp Notation* web page.

1. Enter all the notes. I could have doubled the time signature and entered quarter, eighth, and half notes, but I kept the time signature and put eighth notes in bar 17 treble, 16ths in bar 18, and quarters in bar 17 bass.
2. Select all beams and hide them.
3. Create a notehead style based on Normal notes but with a half note symbol instead of the black note, and apply the notehead style to the notes in bar 17 bass so they look like half notes. Add ties for bar 17 bass, dragging the right ends of the ties to the desired notes. At this point it looks like this:

6 7

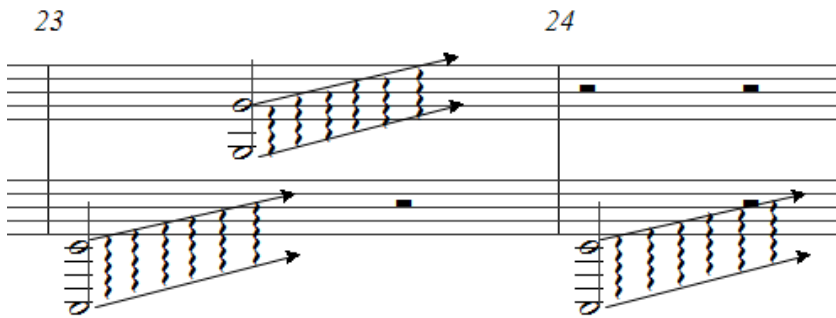
4. We could make the upside down “v” from 2 lines, but the Guitar Bend line can be used with less positioning. Select a pair of notes, then create a Guitar Bend line. Align it with the note stems. For the “handle”, I used the vertical line symbol from the Guitar row, and moved it into place. I copied these inverted Ys to the other notes. For the 8th note flag, I used the cue grace sized *Eighth flag up* symbol from the Noteheads row. That looked like this:

15

The rest was fairly easy. The “Muffle totally” and “Metallic sounds” symbols came from the data score. The straight lines were *Line* objects, and the $A\flat \frac{1}{2} \sharp$ text was Technique text. The accidentals came from the right/ctrl-click menu, and the $\frac{1}{2}$ from the character map for the Times New Roman font. It took some tinkering.

- It is easy to unsettle something like this by reformatting the score, so do not even consider doing it until the layout is mostly done.

12.11 NOTATING THE SALZEDO “AEOLIAN RUSTLING” EFFECT



This is straightforward but tedious. Since the spacing between the lines can vary according to the notes in the chord, everything is a line. In each unit, there are 2 lines with arrowheads, and 6 arpeggio lines. Create one of each and copy and paste the rest. You need to position every one of the lines by hand. Once you have a full set, you can select the whole thing and copy it, but in my experience, the lines get totally out of alignment when copied, and you will have to reposition everything again. Zoom way in for best results. Avoid reformatting the score once these lines are set up or you will have to position them again.

This may be a good subject for converting to a graphic, though it may be tricky to scale the graphic to the desired size.

12.12 NOTATING THE SALZEDO “MUFFLING” EFFECTS

To avoid interfering with playback, use lines and symbols, or possibly silenced grace notes when you can.

In this case, I pasted lines in bar 33 – *Muffle with notehead* in the treble, and *2 noteheads and muffle* for the bass. I positioned the last 2 lines together. In bar 35, there were no other notes so I just added some “normal” cross staff cue-sized 8th notes and silenced them with Play On Pass. I pasted in the *Damp for Stem* symbol, but it was too big. But now its definition was in the score so I could find it in *Create Symbol*. I inserted a cue sized version from there, turned off Magnetic Layout, made 3 copies, and dragged them into place while zoom was turned up.

12.13 HOW TO GET ADDITIONAL SYMBOLS

You can create new symbols by generating them from characters in an existing font, or getting and installing another font that contains the desired glyphs, or, in Sibelius 7 or later, creating the symbols as SVG graphics from a vector graphics program like *Illustrator* or the free *Inkscape*. This ability to create new symbols without needing to design a font can be a strong motivation for upgrading to Sibelius 7 or later.

In this document, the section [Symbols as font characters or graphics](#) discusses how to create new symbols from graphics files.

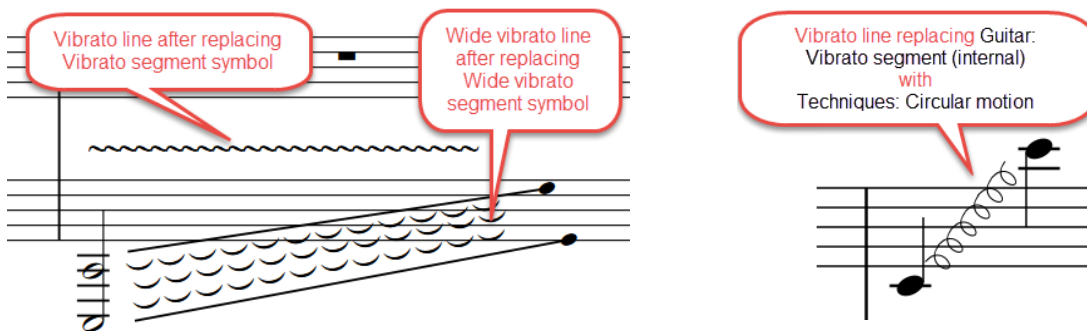
In some cases you may use special characters enough that you can justify having a custom font designed, or create graphics-based symbols.

Since Sibelius 7.0, and up to at least version 2019.1, there has been an unintended limitation on 3rd party symbol fonts, so they need to restrict themselves to font character codes 33 to 127 inclusive, limiting the font to about 95 symbols. So be sure you understand these limits if you plan to create a new font.

You can also combine individual characters from the same font to make composite symbols, where you can position each component symbol to your liking.

12.14 SOME OTHER TECHNIQUES FOR LINES

You might want to create a new line that is made up of repeating shapes, such as



You cannot really do this in Sibelius, but there is a trick you can occasionally use to reuse some existing lines. **The disadvantage of this scheme is that you will lose the original use of the line in this score.**

There are 4 built-in lines that are built from repeating segments, where each segment is a symbol. The process of changing the lines to use different symbols is explained in the *Scoring Notes* post [Create custom line shapes using font characters in Sibelius](#).

The lines and the symbol each uses for a segment are

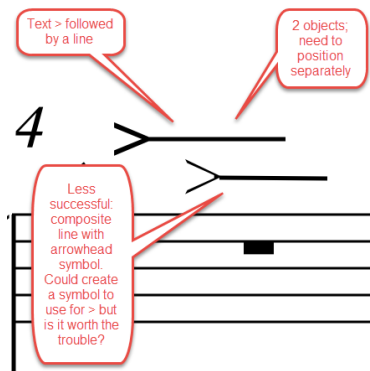
- *Trill* (symbol Ornaments: Trill segment (internal))
- *Arpeggio* (symbol Ornaments: Arpeggio segment (internal))
- *Vibrato* (symbol Guitar: Vibrato segment (internal))
- *Wide Vibrato* (symbol Guitar: Wide vibrato segment (internal))

You are likely to need the trill and arpeggio lines in your score, but you might not have a need for the vibrato and wide vibrato lines, so they could be available for reuse.

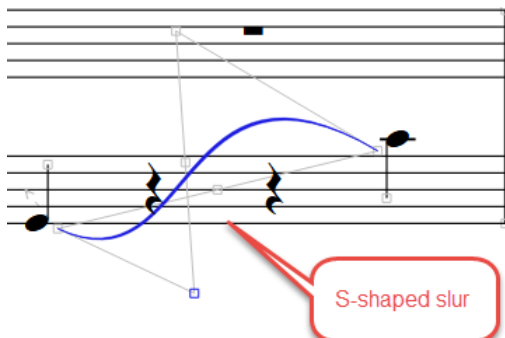
In the example above I went to *Edit > Symbol* and replaced the character used by *Guitar: Wide vibrato segment (internal)* with a *Notes: lv down* symbol, and *Guitar: Vibrato segment (internal)* with a tilde (~). You could use any symbols you want. I edited the line and turned off *Horizontal* so I could change the angle.

I note that such modified lines can be very hard to select. One way to select one is to use *View > Invisibles > Handles* to show the handles at the ends of the line. Click on the left handle to select it, then use *Alt-<left or right arrow>*, which should select the line. You can then move it with the arrow keys.

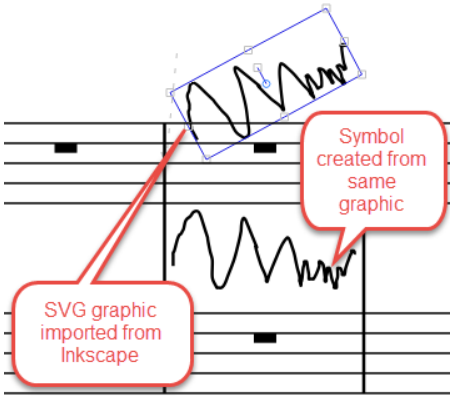
Sometimes you can make a new line by typing a symbol or a text character then adding a line and positioning them. These can be tricky to position, so you might want to make a composite line. Sometimes, though, it is a lot of work to find complementary symbols and in such cases moving 2 objects does not seem so bad. You need to choose when to make the effort.



Some simple curves can be made with S-shaped or multi-arc slurs. Check these out in the Sibelius Reference.



Finally, if all else fails create a shape in a graphics editor (such as *Illustrator* or the free *Inkscape*), and import it into Sibelius. The graphic can be scaled and rotated. This is easier in Sibelius 7 or later since it supports many graphics formats and even lets you create a symbol from a graphic file. Prior to Sibelius 7 all imported graphics must be in TIF format.



13 USING PLUG-INS

Sibelius plug-ins are extra features created using a programming language called ManuScript. Sibelius ships with about 150 plug-ins and there are another 500 available for free download on the [Sibelius Plugin Download Page](#). I have written a large number of the shipping and downloadable plug-ins.

The shipping plug-ins are documented in the Sibelius Reference, and the downloadable plug-ins are described on the download page. Most of the plug-ins discussed here will require Sibelius 6 or later, some can be run in Sibelius 5, and very few will run in earlier versions of Sibelius.

Plug-ins can automate many of the same kinds of things that built-in Sibelius commands do, and can often streamline your workflow. In some cases, as with plug-in that handle playback for arpeggios across staves, or correct playback of glissandos that are not in the key of C major/A minor, a plug-in is the only reasonable way to accomplish your task.

You can run plug-ins from the Plug-ins menu in Sibelius 6 and earlier, or from plug-in galleries present in most of the tabs in the Sibelius 7+ Ribbon.

13.1 AN EXAMPLE OF A PLUGIN THAT SAVES WORK

Adding a Gliss Line by Hand



1. Select both notes, type L and add gliss line

2. Use down arrow to drag one line end close to its note

3. Drag the other line end close to its note

4. Adjust to taste. Higher zoom can be useful here

Adding a Gliss Line with the Line Between Notes plugin



1. Select both notes and run plugin

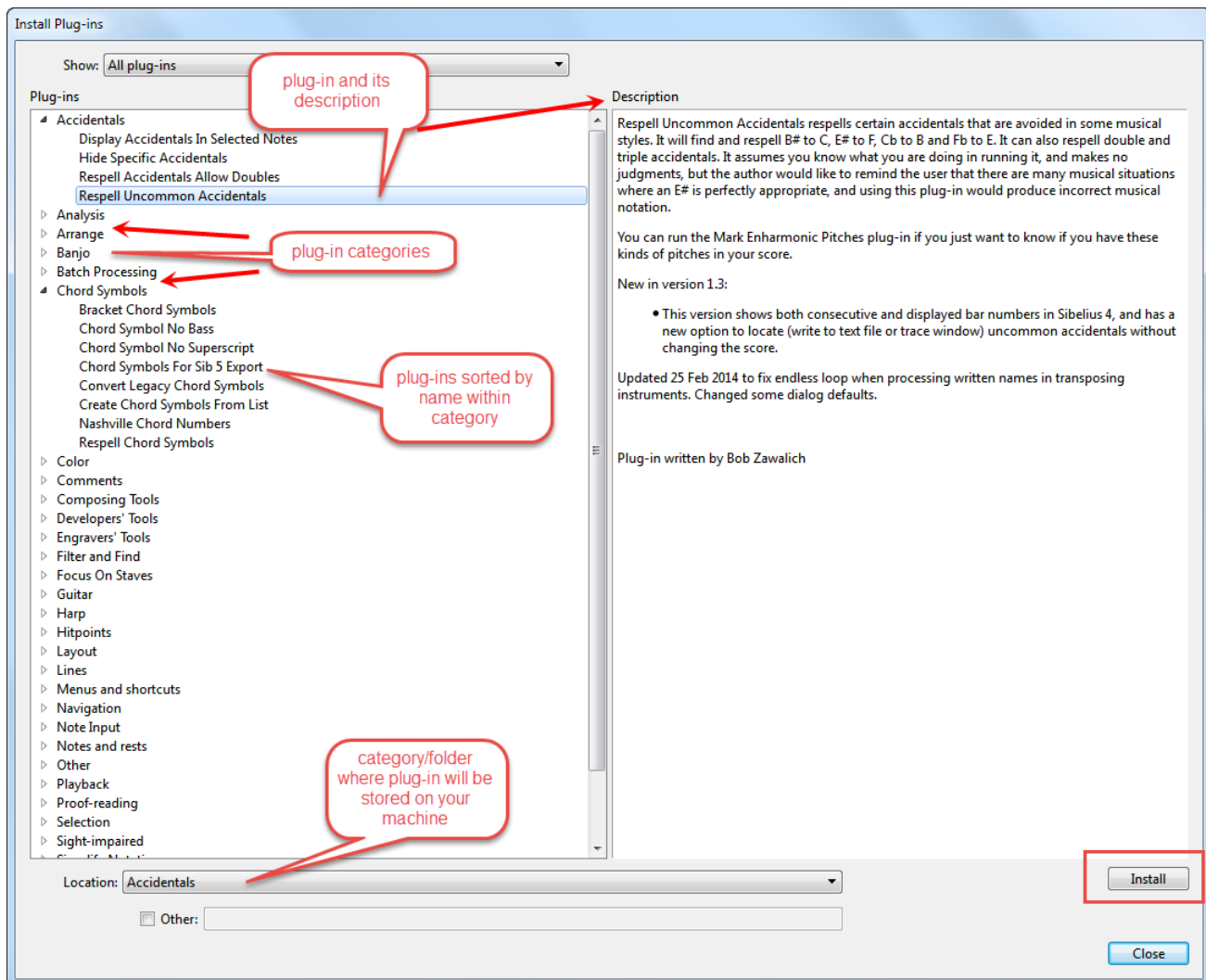
13.2 INSTALLING DOWNLOADABLE PLUG-INS

Plug-ins from the Sibelius plug-in download page need to be installed in order to be run. Prior to Sibelius 7, you would have to go to the plug-in download page, download and unzip the file for the plug-in you wanted, and copy the unzipped file to an appropriate user plug-in folder. Instructions for finding that folder and for installing plug-ins are in the [Need Help article How to install plug-ins](#) on the download page.

You may find it easier to install plug-ins in Sibelius 6 by first installing the *Install New Plugin* plug-in, and running it to install other plug-ins after you download and unzip plug-in files.

Once a plug-in is installed, you will need to close and restart Sibelius in order to use the new plug-in.

Sibelius 7 provided a plug-in installer for downloadable plug-ins at *File > Plug-ins > Install Plug-ins*. If you know the name of the plug-in and its category, you can select it from the list of plug-ins and install it. Plug-ins installed this way can be run immediately, without closing and restarting Sibelius.



The Sibelius Plug-in installer will only work for plug-ins on the download page. If you write your own plug-ins, or get plug-ins from another user, you will need to copy them manually to an appropriate user plug-in subfolder, using the same techniques that were used prior to Sibelius 7.

Finding a plug-in to install from the download page can be tricky; you will need to know the name and category of plug-ins you want to install. Philip Rothman maintains a [list of plugins sorted by name](#), hosted on the *Scoring Notes* blog, which tell the name and category, and the Sibelius versions supported. Each entry links to the description in the plugin download page. As of *Sibelius Ultimate version 2019.4*, there is a *Find* box in the plugin installer, and you can type in all or part of a plugin name to quickly find it.

13.3 SOME IMPORTANT PLUG-INS

Here is a [blog post in the Scoring Notes website](#) that talks about plug-ins for the harp.

Here are a few out of the 650 or so shipping and downloadable plugins that I often use. There are lots more, but this is a start. Plug-ins that will run in Sibelius 5 are indicated by a superscript 5.

You will probably want these.

- SHIPPING PLUG-INS
 - Add Harp Pedal Diagrams (category Other) (ships with Sibelius.)
 - Harmonics Playback (category Playback) (ships with Sibelius. Only for non-octave harmonics)
- DOWNLOADABLE PLUG-INS
 - Add Pickup Bar ⁵ (category Composing Tools)
 - Bracket Notes (category Lines)
 - Harp Gliss Playback (category Harp)
 - Harp Arpeggio ⁵ (category Harp)
 - Line Between Notes ⁵ (category Lines) (very useful for glissando lines)
 - String Harmonics (category Notes and Rests) For non-octave harmonics.
 - String Harmonics Sounding Pitch (category Notes and Rests) For non-octave harmonics.

13.4 OTHER USEFUL SHIPPING PLUG-INS (DO NOT NEED TO BE INSTALLED)

You can find descriptions of these plug-ins in the Sibelius Reference.

- Add Chord Symbols (category Chord Symbols)
- Add Fingering To Notes (category Text)
- Calculate Statistics (category Batch Processing)
- Change Dynamics (category Text)
- Change Split Point (category Simplify Notation)
- Combine Tied Notes and Rests (category Simplify Notation)
- Compare Staves (category Analysis)
- Convert Legacy Chord Symbols (category Chord Symbols)
- Double Note Values (category Transformations)
- Draw Free Rhythm Barline (category Composing Tools)
- Find and Replace Text (category Text)
- Halve Note Values (category Transformations)
- Realize Chord Symbols (category Chord Symbols)
- Renotate Performance (category Simplify Notation)
- Respell Flats as Sharps (category Accidentals)
- Respell Sharps as Flats (category Accidentals)
- Retrograde (category Transformations)
- Scales and Arpeggios (category Other)
- Simplify Accidentals (category Accidentals)
- Tidy Appended Score (category Layout)
- What Is Where (category Proof-reading)

13.5 SOME NON-HARP-SPECIFIC PLUG-INS

- DOWNLOADABLE PLUG-INS
 - Bookmark ⁵ (category Navigation)
 - Delete Rests Empty Voices ⁵ (category Notes and rests)
 - Dot Undot Rhythm
 - Go To ⁵ (category Navigation)
 - Hide Duplicate Rests ⁵ (category Notes and rests)

- Hide Rests In Voice ⁵ (category Notes and rests)
- Resize Bar (category Layout)
- Add LV Symbols to Notes (category Engravers' Tools) (Sibelius 7 or later)
- Scale Notehead Sizes (category Notes and rests) (Sibelius 7 or later)
- Shift Horizontal (category Composing Tools)

13.6 SOME HARP-SPECIFIC PLUG-INS

PLAYBACK

- Harp Gliss From Pedal Diagram ⁵ (category Harp)
- (see also *Harp Gliss Playback* and *Harp Arpeggio*, mentioned earlier)

NOTATION

- SHIPPING PLUG-INS
 - Add Harp Pedal Diagrams (category Other)
 - Check Harp Pedaling (category Proof-reading)
- DOWNLOADABLE PLUG-INS
 - Alternate Harp Pedaling (category Harp)
 - Change Text Accidental Size (category Harp)
 - Color Harp Strings ⁵ (category Harp) (works best in Sibelius 8.3 or later)
 - Colored Noteheads On Harp Strings
 - Included in zip file for Colored Notehead Styles (category Color) (Requires Sibelius 7 or later)
 - Filter Harp Pedal Changes (category Harp)
 - Filter Harp Pedal Diagrams (category Harp)
 - Harp Diagram from Tuning (category Harp)
 - Harp Gliss and Octave Notes (category Harp)
 - Harp Gliss Pitches (category Harp)
 - Label Harp Diagrams (category Harp)

14 ABOUT THE AUTHOR

Bob Zawalich (www.bobzawalich.com) is a composer, guitarist, and software designer. He has studied computer science and music composition, and wrote software professionally for over 20 years. He has used Sibelius daily for over 15 years, and has published over 400 of plugins for Sibelius, including a number of harp-specific plugins. He has published numerous guest posts in the *Sibelius Blog/Scoring Notes* and *Of Note* blogs.

Bob has composed and arranged music for the lever harp, and occasionally plays a Dusty Strings FH26 in walnut and maple. He is currently the webmaster for [Harp Spectrum](http://HarpSpectrum.com).

15 APPENDIX 1: HARP NOTATION– REFERENCES

Composing for the Harp

www.harpspectrum.org/harpworks/composing_for_harp/composing_for_harp.shtml

Harp Scoring, Stanley Chaloupka

www.halleonard.com/product/viewproduct.action?itemid=121113&

The Pocket Guide to Harp Composing, Darhon Rees-Rohrbacher

www.vanderbiltmusic.com/product/R60.html

Writing for the Pedal Harp, Ruth K. Inglefield and Lou Anne Neill

www.vanderbiltmusic.com/product/I15.html

Behind Bars, Elaine Gould

www.amazon.com/Behind-Bars-Definitive-Guide-Notation/dp/0571514561

Music Notation in the Twentieth Century, Kurt Stone

www.amazon.com/Music-Notation-Twentieth-Century-Practical/dp/0393950530

Modern Study of the Harp, Carlos Salzedo

www.amazon.com/Modern-Study-LEtude-Moderne-Harpe/dp/0793555671

Harp Notation website with videos by Gunnhildur Einarsdóttir

<http://sites.siba.fi/en/web/harpnotation/home>

16 APPENDIX 2: GETTING ANSWERS TO SIBELIUS QUESTIONS

16.1 WHERE TO FIND ANSWERS

The best place to get answers to specific Sibelius questions is the [Sibelius tech support forum](#).

Questions are answered by knowledgeable users, and occasionally by Avid employees, and no one will talk down to you if you are a beginner. If you are a registered user you can post questions, but anyone can search and look at previous questions.

The Facebook forums *Avid Sibelius Users* and *Sibelius Power Users* are also good places to ask questions.

[Scoring Notes](#), run by Philip Rothman, and [Of Note](#), run by Robert Puff, are good sources of tutorials and tips for Sibelius and Finale.

Of Note has a [Sibelius Resources](#) page, which provides links to tutorials (in the section **SIBELIUS VIDEO TUTORIALS & WRITTEN TUTORIALS**) and other resources.

16.2 TUTORIALS ON SPECIFIC TOPICS IN *SCORING NOTES* AND *OF NOTE*

[Harp support in Sibelius](#)

[Lines between notes in Sibelius](#)

[Creating composite symbols in Sibelius](#)

[How to enlarge symbols in Sibelius](#)

[Create custom line shapes using font characters in Sibelius](#)

[Modify the default position of lines, and create new ones](#)

[Laissez \(les bon temps\) vibrer](#) (using laissez vibrer symbols)

[Make certain noteheads smaller or larger in Finale or Sibelius](#)

[New plug-in: Dangling Ties to Slurs](#)

[Swap the contents of two staves in Sibelius or Finale](#)

[Expanded Graphics Import and Export in Sibelius 7](#)

[Use Slurs to Create Straight, Note-attached Lines in Sibelius](#)

[Easy Automated Arpeggios in Sibelius 6 & 7](#)

[Make a New Instrument or Text Style Available to All Your Scores in Sibelius](#)

[Sibelius – How to type in Harp Pedal Markings As Text](#)

17 APPENDIX 3: IMPORTING MULTIPLE *NORFOLK HARP* CHARACTERS INTO A SCORE

Rather than finding and opening the data file and copying objects from it, you can import a number of *Norfolk Harp* characters into your score at once. There are at least 3 ways that symbols and lines can be imported into another score. You can export a house style, then import that into another score, you can create a manuscript paper that includes the objects, and then use *File > New* with that manuscript paper, or you can copy multiple objects in one score and paste them into another score.

Importing symbols from a house style can import more than we want, and can cause unwanted layout changes, so we will not discuss that option in detail. If you really want to have a House Style that contains the *Norfolk Harp* symbols you can install one of the House Styles that comes with the *Norfolk* fonts (these will use the *Norfolk* font for noteheads) or open one of the Manuscript Paper scores below, which use the *Opus* font for notes, and export a house style from that score.

17.1 CREATING A MANUSCRIPT PAPER

I provide scores suitable for easy export as manuscript paper. The files are on the [Harp Notation Support Files](#) web page, and the file names are:

Opus Norfolk Harp(v5).sib

Opus Norfolk Harp(v6).sib

Opus Norfolk Harp(v7).sib

In all versions of Sibelius you can open the appropriate score, then use *File > Export > Manuscript Paper* to create a manuscript paper. After creating the manuscript paper, go to *File > New*, and choose the new manuscript paper name

from the list. You will see a preview of a score with 8 bars of a single instrument. This score will contain all the *Norfolk Harp* symbols and lines.

In *File > New*, you can choose a different House Style when you are creating your score. The new score will then have the properties of that House Style plus it will contain the *Norfolk Harp* symbols.

Using a manuscript paper in this way is a convenient way to define all the harp symbols at one time if you are creating a new score; you can then add symbol objects to your score by using *Create > Symbols* rather than copying from the data score.

17.2 PASTING MULTIPLE OBJECTS FROM THE DATA SCORE

If you already have a score, you can copy several objects from the data score and paste all of them into another score at once. Even if you delete all the objects after you paste them their definitions remain in your score, so you will be able to use *Create > Symbol* or *Create > Line* to add these objects into you score. This mechanism lets you import a number of symbol or line definitions at once without experiencing format changes that can occur when importing a house style.

The length of the bars in the data score is intentionally small, so if you select multiple objects from the data score and copy them, they will likely be pasted with the range of 1 or 2 normal-sized bars.

There is a section of the data score called the *Block Copy Area*. Copying from this area will add all symbol and line definitions into your score at once.

Select all the bars containing symbols or lines and copy them to the clipboard.

Block Copy Area.

Copy and Paste to define a number of symbols or lines in your score at once.

Select the next 3 systems of lines and symbols, then copy and paste into your score.

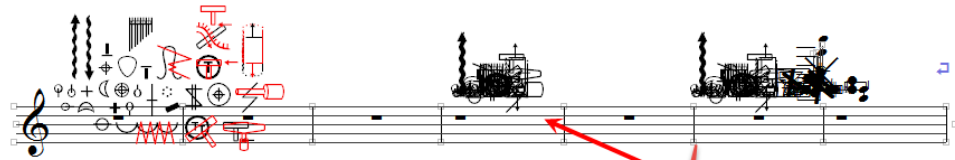
These are 1/64 bars and each system will paste into a single 4/4 bar.

Paste these into empty bars equivalent to 2-4/4 bars. It will make a mess!

Select and delete what you pasted, and the symbols and lines will be available

in Create Symbol and Create Line in the target score

In your destination score, add 2 empty bars to the end of your score, select those bars and paste. You will see a blob of symbols all crowded together. This is fine.

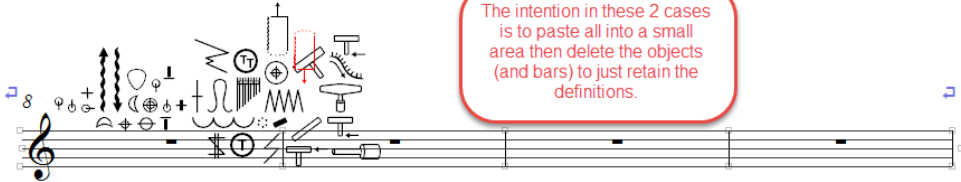


Above: selected Norfolk Harp symbols from page 1. ML on; Fits in two 4/4 bars.

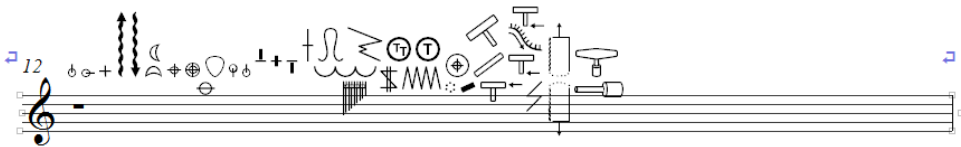
Above: Block Copy area Norfolk Harp symbols ML off;

Above: Block Copy area Norfolk Harp symbols, other symbols and lines ML off; Fits in two 4/4 bars.

The intention in these 2 cases is to paste all into a small area then delete the objects (and bars) to just retain the definitions.



Above: selected Norfolk Harp symbols from page 1. ML on; Fits in two 4/4 bars.



Above: Block Copy area Norfolk Harp Text objects ML on; Fits in one 4/4 bar. Make bar wide to spread objects out to be accessible.

Examples of multiple objects being pasted into a score. You should delete the Block Copy area objects after you paste.

Now you can delete the empty bars you pasted the objects into, which will delete the blob. The definitions for all these symbols and lines will now be part of your score, and you will be able to create symbols and lines from the *Create* menu without needing to go back to the data score.

If you copy Text objects, do not immediately delete them. You can keep them in an empty bar and copy from that bar to other locations, and then delete the pasted objects when you are done.

18 APPENDIX 4: MARKING OUT-OF-RANGE NOTES

View > Note Colors > Notes Out of Range automatically reddens notes that are too high or low for an instrument to play. Notes that are uncomfortable but playable by professionals are shown in dark red. The coloring appears on-screen only; it does not print. Each instrument is assigned a range of pitches, and you can modify the range in *Edit > Instruments*.

Harp instruments default to the range Cb1 to G#7, where C4 is middle C, which is the range of a 47 string pedal harp, and this will work well for many pedal harps.

Lever harp instruments default to the range C2 to G#6, which is the range of a 33-string harp, tuned in C, with its upper lever engaged. These days 36-string lever harps are quite common, as are 26-, 29-, 34-, or 32-string harps. The default range will not be correct for any of these harps.

A 26-stringed lever harp tuned in C will go from C3 to G#6 with the top lever engaged, so you could be off an octave in the bass before notes would be reddened.

You can adjust the range in *Edit Instruments*. Select some bars in your instrument and choose *Edit Instruments*. Select your instrument in the list, then choose *Edit Instrument*. In *Range*, choose the pitches you want, then Sibelius will color notes outside that range. You can even choose separate “Comfortable” and “Professional” ranges that are different if you want to be warned when the notes are out of the best range for this harp. This is what you will see if you adjust the range for a 26-string lever harp to be C3 to G#6.

The image shows a musical score for a harp instrument. The score is divided into two systems. The first system contains notes from C6 to G6. The second system contains notes from G#6 to Eb7. Notes outside the range C3 to G#6 are shown in red. Below the score is the 'Edit Instrument' dialog box. The 'Name' field is 'Lever Harp'. The 'Range' section shows 'Notes outside the range are drawn in red.' and 'Lowest' and 'Highest' settings. The 'Comfortable' range is set to C3 to G#6, and the 'Professional' range is also set to C3 to G#6. Red arrows point from the 'Lowest' and 'Highest' settings in the dialog box to the corresponding notes in the score.

Range	Lowest	Highest
Comfortable	C	G#/Ab
Professional	C	G#/Ab

19 APPENDIX 5: HOW TO FIND SIBELIUS USER FOLDERS MANUALLY

You can install plug-ins, house styles, or manuscript papers by copying files of the appropriate type to the appropriate user folders. There are often more automatic ways to install these files, but if they are not available, here is how to find the folders to install into.

For more about user folders, check out the *Scoring Notes* post [User folders and user-editable files in Sibelius](#)

In the instructions below, replace *<type folder name>* with

Plugins for plug-ins

House Styles for house styles

Manuscript paper for manuscript papers in Sibelius 6 or earlier

Manuscript Paper for manuscript papers in Sibelius 7 or later

Plug-ins should not be copied into the *Plugins* folder itself, but into one of its subfolders, which you may need to create. The subfolder name serves as the plug-in's category.

Mac OSX:

~/Library/Application Support/Avid/Sibelius/*<type folder name>* (for Sibelius 8 or higher)

~/Library/Application Support/Avid/Sibelius 7.5/*<type folder name>* (for Sibelius 7.5)

~/Library/Application Support/Avid/Sibelius 7/*<type folder name>* (for Sibelius 7)

~/Library/Application Support/Sibelius Software/Sibelius 6/*<type folder name>* (for Sibelius 6)

Windows:

%appdata%\Avid\Sibelius*<type folder name>* (for Sibelius 8 or higher)

%appdata%\Avid\Sibelius 7.5*<type folder name>* (for Sibelius 7.5)

%appdata%\Avid\Sibelius 7*<type folder name>* (for Sibelius 7)

%appdata%\Sibelius Software\Sibelius 6*<type folder name>* (for Sibelius 6)

If the *<type folder name>* folder does not exist at this location, create it yourself.

Mac users may need to go to the Finder's Go menu and hold down \sphericalangle to access the *Library* folder.

20 APPENDIX 6: SIBELIUS VERSIONS AND OTHER NOTATION PROGRAMS

20.1 VERSIONS OF SIBELIUS

There is a “full” Sibelius version, called *Sibelius Ultimate*, which has all the features, and a “cut-down” version called *Sibelius*, which is the same software as the full version with some features removed or downgraded. There is also an even more limited version called *Sibelius First*, which is free.

Be careful that you know which version is being referred to. Prior to 2018, the full version was called *Sibelius* and the cut-down version was *Sibelius First*. The rebranding used the same names to refer to different versions, which can be very confusing.

Sibelius and *Sibelius First* can be useful, but among their limitations is the inability to run any plugins except a small number that it ships with. I recommend getting the full version if you can.

In Sibelius 7 and later, Sibelius changed from using a menu-based user interface to one that uses a *Ribbon*. The underlying functionality and most of the keyboard shortcuts are much the same as in version 6, but there is definitely a learning curve to conquer if you are used to an earlier version.

Upgrades from any earlier Sibelius version to the latest version have traditionally cost \$149 USD. Sibelius has now gone to a subscription model, where you pay \$89 every year to upgrade and keep the right to upgrade at a preferred price. You can only upgrade to the latest version of Sibelius, which is currently Sibelius 2019.4, officially referred to as “*Sibelius Ultimate*”.

Here is a link to an Avid FAQ that discusses the subscription model and the minimum system requirements for the current version of Sibelius: http://avid.force.com/pkb/articles/en_US/faq/Sibelius-FAQ.

Sibelius Ultimate may not run on your machine. It requires a 64-bit operating system (Windows 7 Sp1 or later, Mac OS X 10.9 or later). If you want to upgrade but cannot run *Sibelius Ultimate*, you should contact Avid tech support before you upgrade. They may allow you to download an earlier version that you can run, but this is handled on a case-by-case basis, and there is no formal process for such an upgrade.

As of July 2016, if you have a version of Sibelius prior to version 8 and have not upgraded, you will be “out of subscription”, and to upgrade you will have to pay \$199 until the end of 2016, and \$299 thereafter, or subscribe to one of the monthly or annual subscription plans.

If you want to upgrade later, it might still be a bit cheaper to crossgrade – at present you can crossgrade from Sibelius to Notion for \$69 USD, and then crossgrade from Notion to Sibelius to \$199. These details may change, but you should be able to find a legal way to upgrade at less than \$299.

If you qualify for an educational discount (see <http://www.avid.com/academic-eligibility>), you will be able to upgrade for \$89 at any time.

You can continue to use the version you have on your current hardware and operating system, or an equivalent system, even if you do not upgrade. Your support options will be comparable to what was available prior to the subscription model.

20.2 FINALE

Finale is another professional-grade notation program. If you have it and are interested in notating harp music, I strongly recommend buying the Finale Productivity from NPC Imaging (<http://www.npcimaging.com/books/BillDuncan.htm>). This costs \$150 USD, but it includes the amazing *Salzedo* font, which has characters similar to the ones in *Norfolk Harp Std*, and is designed to work in Finale. The jewel in this crown, though, is the book that comes with it that has a section on using the *Salzedo* font to create the music in Salzedo’s *Modern Study of the Harp*. The author shows many excerpts from Salzedo’s book and then explains how to create the same music in Finale, and it is great! The *Norfolk Harp Std* font will probably work in Finale, though I have not tested it.

20.3 MUSESCORE

MuseScore (<https://musescore.org/>) is a free, open-source program that is currently under active development. Its user interface and general behavior is similar to that of Sibelius, and its output quality is excellent. It can use the *Bravura* font, from which *Norfolk Harp Std* is derived, so the Salzedo symbols should be accessible. I have only used it to produce very simple harp music, so I cannot say how hard it would be to produce more complex music. But it is free, and it supports MusicXML import and export, so if you decide you do not like it you can export what you have done to MusicXML format which can be read by many other programs, including Sibelius. MuseScore is currently what I recommend for people new to notation software.

21 APPENDIX 7: OTHER HARP FONTS

These were designed to be used in Finale and cannot be used to create symbols in Sibelius 7 or later, but you could use them to create text objects in Sibelius. They provide pedal harp characters similar to those in *Norfolk Harp Std*.

The *Salzedo* font is available only as part of the Finale productivity packages from NPC Imaging (<http://www.npcimaging.com/books/BillDuncan.htm>). It costs \$150 USD and has some characters not present in *Norfolk Harp Std*.

The *Toccatà* font is available as shareware from <http://members.efn.org/~bch/AboutFonts.html>, and it includes a number of the Salzedo characters. You can try it out for free.