

Sibelius Tools For Bagpipe Musical Notation

Bob Zawalich, January 17, 2011

Is Sibelius the appropriate tool for Bagpipe notation?

Bagpipe music notation has a number of quirks, not the least of which is the need to enter large numbers of grace note ornaments. Sibelius is not optimized for doing this, and it may be worth looking into notation programs that target bagpipe music specifically. These include Bagpipe Music Writer, PiobMaster, and CelticPipes, and you may find that using one of these will give you an easier process than using Sibelius.

Sibelius, however, is a very powerful and flexible piece of software, capable of generating truly publication quality scores, and also capable of realistic playback, and its features may well be useful enough to justify some extra work to make it handle pipe music.

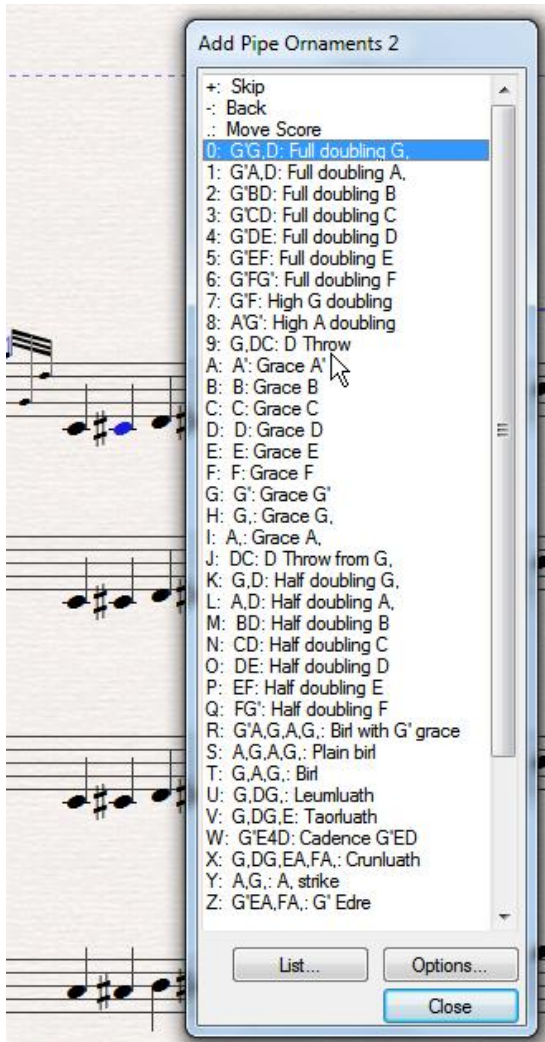
I developed some tools with pipers Janette Montague and Jim McGillivray to make it easier to produce music for the Scottish bagpipes in Sibelius (version 6 and later).

There are a number of problems associated with producing scores for Scottish Great Highland Pipes, and here are some ways we came up with to solve them, or at least minimize their effects.

These tools require Sibelius version 6 or later.

Major Tools

There are 2 plugins that I consider to be the most useful of the tools described here: *Add Pipe Ornament 2* and *Play Pipe Ornaments*.



alone.

- *Add Pipe Ornament 2* lets you add multi-note grace note ornaments with single keystrokes. To use it, you first enter all the "normal" (non-grace) notes, and then select those notes and run the plugin. It sets up a process where the plugin moves from note to note, and you type a key (0-9 or a-z) to insert a named ornament from the list in front of the selected note. You can skip over notes, and back up if you have made a mistake. There is a larger list of available ornaments, beyond the 36 on the dialog, accessible through the *List* button, and you can change which ornaments are mapped to the keys using the *Options* button, so if you commonly use an ornament not on the main list, you can replace a lesser user ornament with the one you use.
- *Add Pipe Ornament* also adds grace note ornaments, but you have to run the plugin for each ornament you want to enter, and it can be less convenient. It does allow you to define your own new ornaments, however, which could be useful, and you can assign a keyboard shortcut to the plugin so you can bring it up more easily.
- For playback, *Play Pipe Ornaments* analyzes a number of common ornaments, and sets the Live Playback data for the grace notes so the start position and duration is close to the desired timing. Some experimentation will be required to find the most desirable timing, and the results may only be useful for aural proofreading, but the results are definitely better than what you get using Sibelius

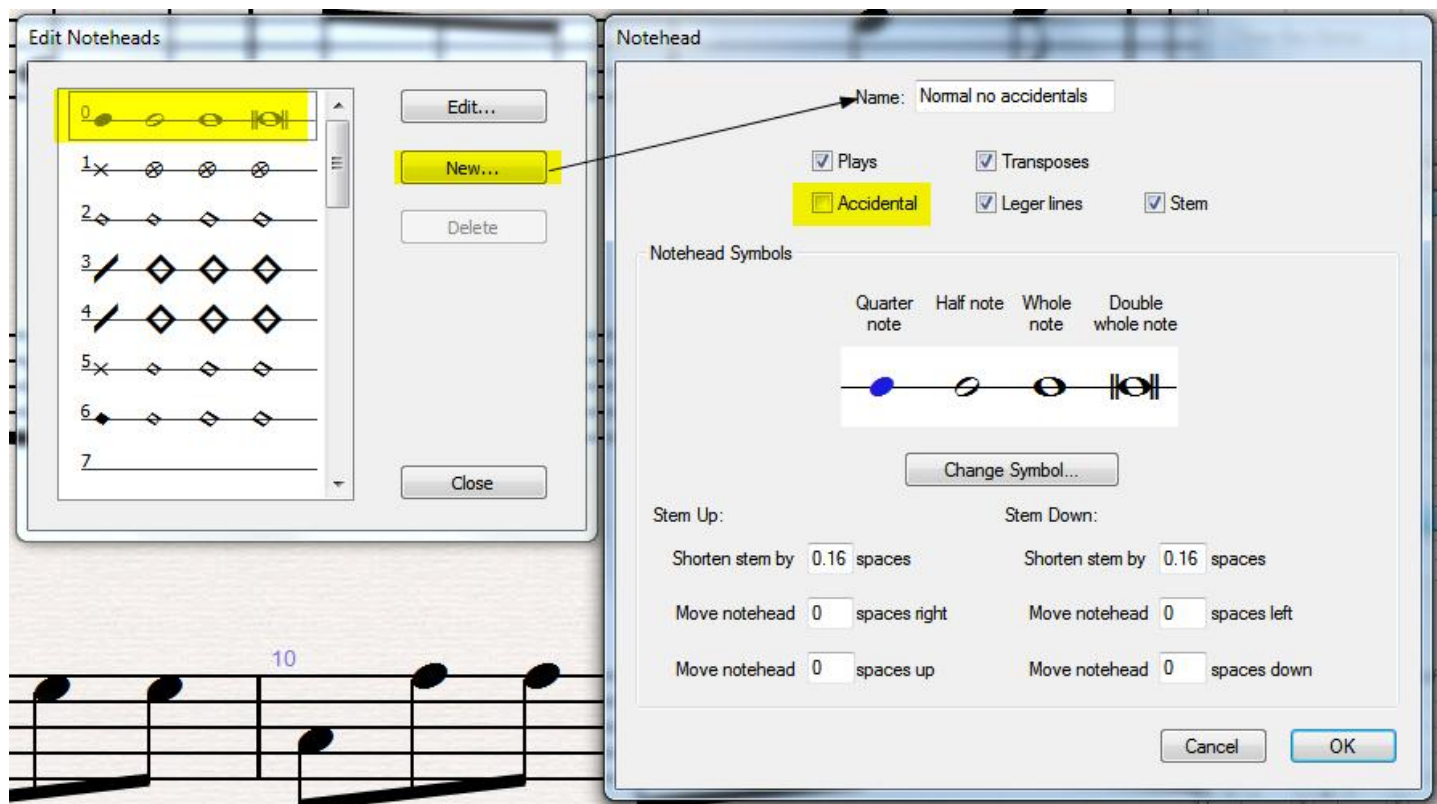
Other Notation issues

Dealing with C# as C and F# as F

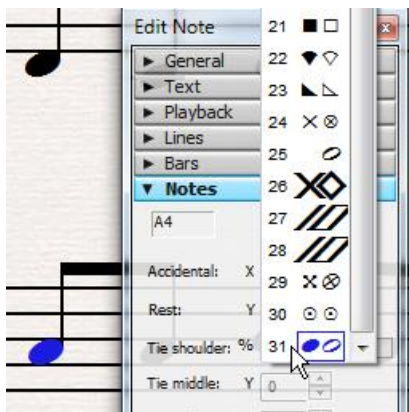
Traditionally, this music is notated with no key signature, with no accidentals for C's and F's (It is written as if in A Aeolian mode, but sounds as if in Bb Mixolydian). You can have a score in C major and enter the C's and F's as naturals if you are not concerned with playback. But if you want the program to play back at all, the C's should be entered as C#'s and the F's as F#'s.

One common approach is to enter the music as if in the key of D major. This hides the accidentals in C and F and playback works (though it should really play back a half-step higher, as addressed below). You will then need to hide the key signature, so it will really look as though it were notated in the key of C (see *Hiding the Key Signature*, below).

Another approach is to write the music in C major (so there is no key signature), entering C# and F# explicitly with accidentals, and then hide any accidentals on the C's and F's by defining a notehead style based on normal noteheads, but not showing accidentals. Use House Styles > Edit Noteheads for this, and make a new notehead style based on normal notes.



Apply this notehead style to all entered notes in the bagpipe by selecting the notes and using the noteheads dropdown on the Notes pane of the Properties window. The notehead definition will only appear in the score where it is defined unless you use House Styles > Export House Style to export a house style, and then use House Styles > Import House Style to import it into other scores, including Manuscript Papers.



This works, but it is a bit tedious to enter the accidentals for the C's and F's.

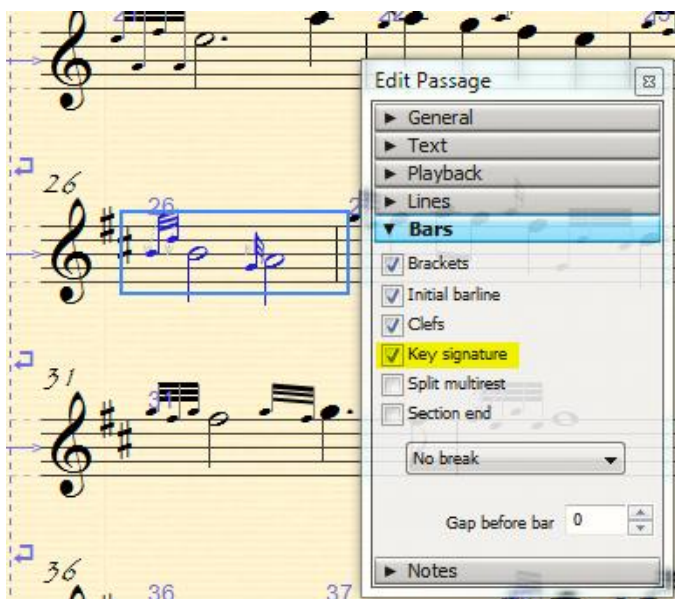
A variant of this is to use the same notehead style that has no accidentals, and enter all the notes in the key of D major (while the key signature is visible). There is an option in House Styles > Edit Instruments > Edit Staff Type > General > Other Objects to turn off "Key Signature/Tuning". If you do this after entering the notes, it will hide the key signature, and the notehead style will hide the accidentals. Don't start with an instrument with no key signature, though, or C's and F's will be entered as naturals.

Hiding the key signature

Sibelius does not make it easy to have music be in a specific key other than C major/A minor, but show no key signature.

The option in House Styles > Edit Instruments > Edit Staff Type > General > Other Objects to turn off "Key Signature/Tuning" will make any accidentals appear in the score, as if you had chosen the key of C major or the atonal key.

You can use the Bar pane in the Properties window to hide the key signature in a specific bar, which will accomplish what is needed. Select each bar that displays a key signature (usually the ones at the start of a system), and uncheck the Key Signature box in the Bar pane.

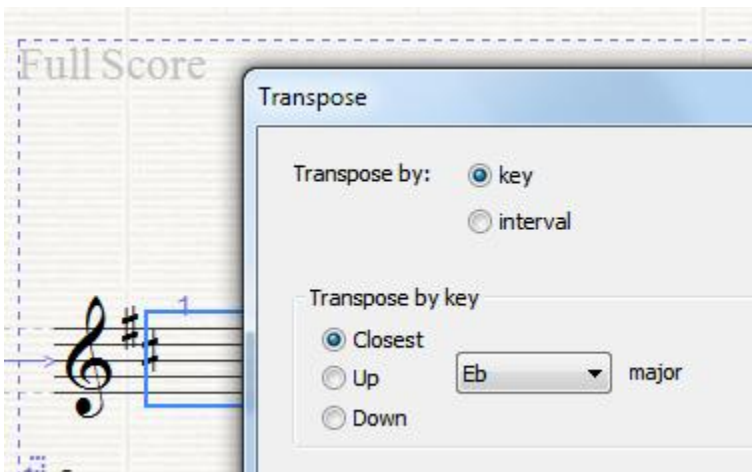


This can be tedious, as selecting several bars at once disables the Bar pane. Here is a trick I learned from music editor Jeremy Hughes: if a bar has a bar number, you can filter the bar numbers and then all the filtered bars can be changed at once in the Bar pane.

So if you are showing bar numbers at the start of each system, you can just go to Edit > Filter Bar Numbers, and then use the Bar pane.

If you are not showing bar numbers, you can go to House Styles > Engraving Rules > Bar Numbers and tell it to show bar numbers at the start of each system (or even every bar), then do the filter and hide the signatures, and then go back to Engraving Rules and turn off the bar numbers. I like to turn the property off for all the bars, because if you only do the first bars in a system and then reformat the score, you may get key signatures from the shifted bars. If this happens, repeat the process of hiding the key signatures.

How do you tell what the key signature is for the score? If you get a score like this, it can be puzzling, because it looks as though the score is in C major, but the playback suggests something different. There is nothing in Sibelius that explicitly tells you the key (normally you just look at the key signature), but here are 2 ways to see the signature. The first is to select the first bar and look in the properties Window Bar pane. If "Key signature" is unchecked, check it and you should see the key signature. (Don't forget to turn it back off). The other way is to select a bar and choose Notes > Transpose. Look at the "By key" options, which will show the current **sounding** key. This can give tricky results if you have a transposing bagpipe in a transposing score, so the written pitches are in D, but the sounding pitches are Eb, as in the example below.



If you have multiple non-pipe instruments in a score, hiding the key signature in this way will hide it for all the instruments, which is probably not what you want. So in that case, either show the key signature for all the instruments, or you can go to any parts which are only bagpipes, and hide the key signatures in the parts. That way, if you give the piper just the part, it will not have the key signatures.

Notation where there are non-pipe instruments in the score (using a bagpipe as a transposing instrument)

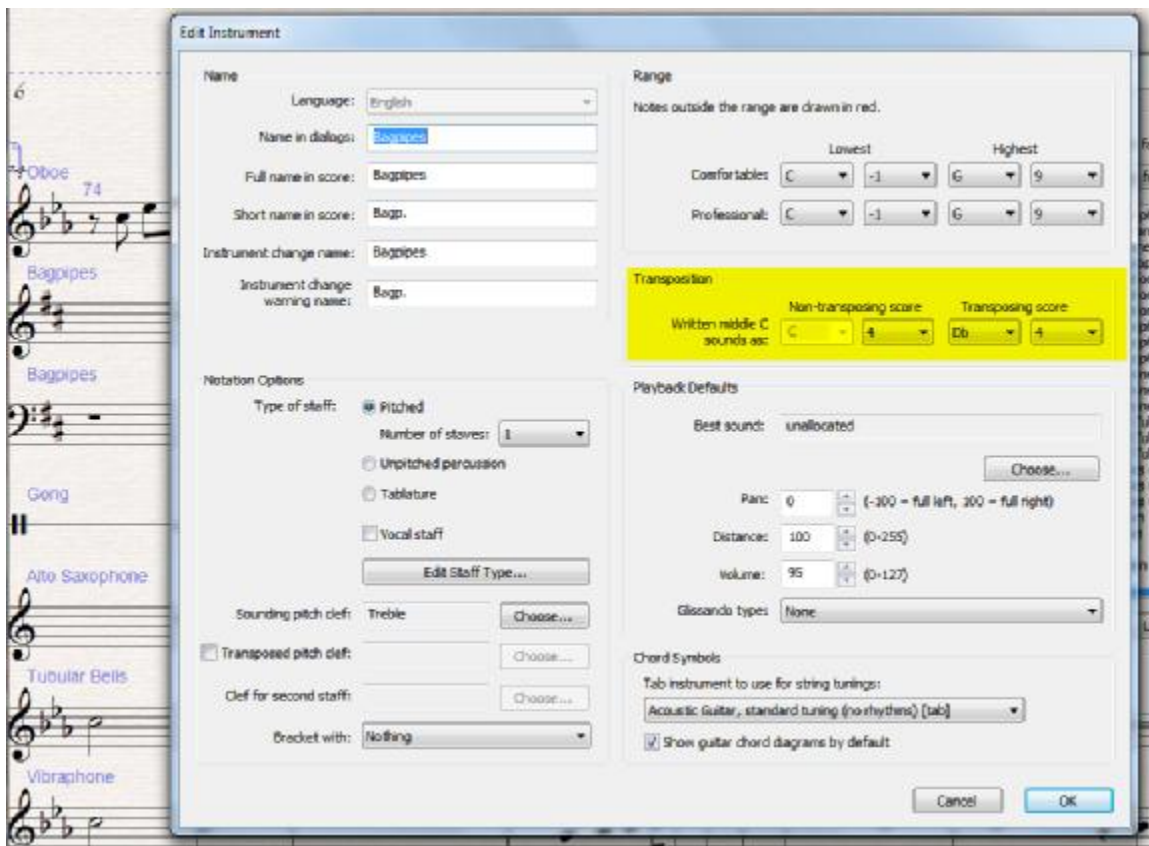
If there are other instruments in the score, they should be notated in the keys in which they sound, which is normally Eb. So the problem is what to do with the pipes.

One reasonable solution is to create a "transposing" bagpipe instrument that works like a saxophone or clarinet (among many transposing instruments). These instruments appear **as they will sound** in the concert score (in this case in the key of Eb major), and **appear as the player wants to see them** (in D major/ A mixolydian) in a transposing score or a part.



Example of transposing bagpipe. On the left, in the full concert score, the bagpipe appears in Eb major, as the other instruments do. But in the bagpipe part (in yellow, on the right), the music appears to be in the key of D major. (Score example courtesy of Janette Montague).

To create such an instrument, use House Styles > Edit Instrument, select a bagpipe instrument and choose New to make a new instrument derived from a bagpipe. Under Transposition change C4 to sound as Db4. Now create an instrument using this style, or use Create > Instrument Change to change an existing instrument. (Note that if you are notating in C rather than in D, a transposing bagpipe will have to change C4 to sound as Eb4. A number of the tools in this collection may not work for you, since they assume you are notating in the key of D)



If you do this, and want to enter the notes as if they are in the key of D, enter the pipe notes in the **transposing score** (where the key signature will appear as D major). If you enter notes in the **concert score**, you will need to enter the notes in Eb.

If you give such a score to players, either just give the parts, or warn them to look only at the transposing score. Change to the transposing score by clicking on the "flats" button in the toolbar.



You might decide to use a transposing instrument even if you have a solo bagpipe, since this solves the problem of having to raise the pitch from the key of D to Eb for playback. It adds the possibility of confusion, though, if a piper sees the concert score, or if you accidentally add notes in D when the staff is in Eb. If you are careful, though, it can work really well, and it is really the only practical solution when you have multiple instruments in a score.

The included House Styles and Manuscript Papers include definitions for transposing bagpipe instruments.

Using the Bagpipe Plugins with Transposing Bagpipe Instruments

The plugins always deal with the written pitches low G to high A, and they needed to be adapted to handle transposing instruments. This is what the plugins do, just so you won't be surprised:

Trace Pipe Ornaments will change the score to Transposing view while it generates the trace, and will restore the view at the end. If the score had been in Concert view, and the pitches were a semitone higher, the traced ornaments will have the correct names, but the pitches will be what the Transposed score would show (for example, D rather than Eb).

The *Add Pipe Ornaments* plugins will determine whether the bagpipe instruments are transposing, and whether the score is in Concert view. If that is the case, it will offer to change to Transposing view or cancel the plugin.

Bagpipe Drone offers drones in A for non transposing instruments, or Bb for transposing instruments. You need to decide which option is appropriate. For a transposing instrument, use the Bb drones regardless of whether the score is in Transposing or Concert View.

Similarly, if you are using *Bagpipe Drone* and have non transposing instruments and plan to use the *Export Bagpipe Audio* plugin, you should use the Bb drones before running the plugin (though you might want the A drones for normal playback). You can rerun *Bagpipe Drone* and it will replace existing drone text, but this combination of plugins is a bit messy, since the Drone MIDI text does not transpose.

Stems down

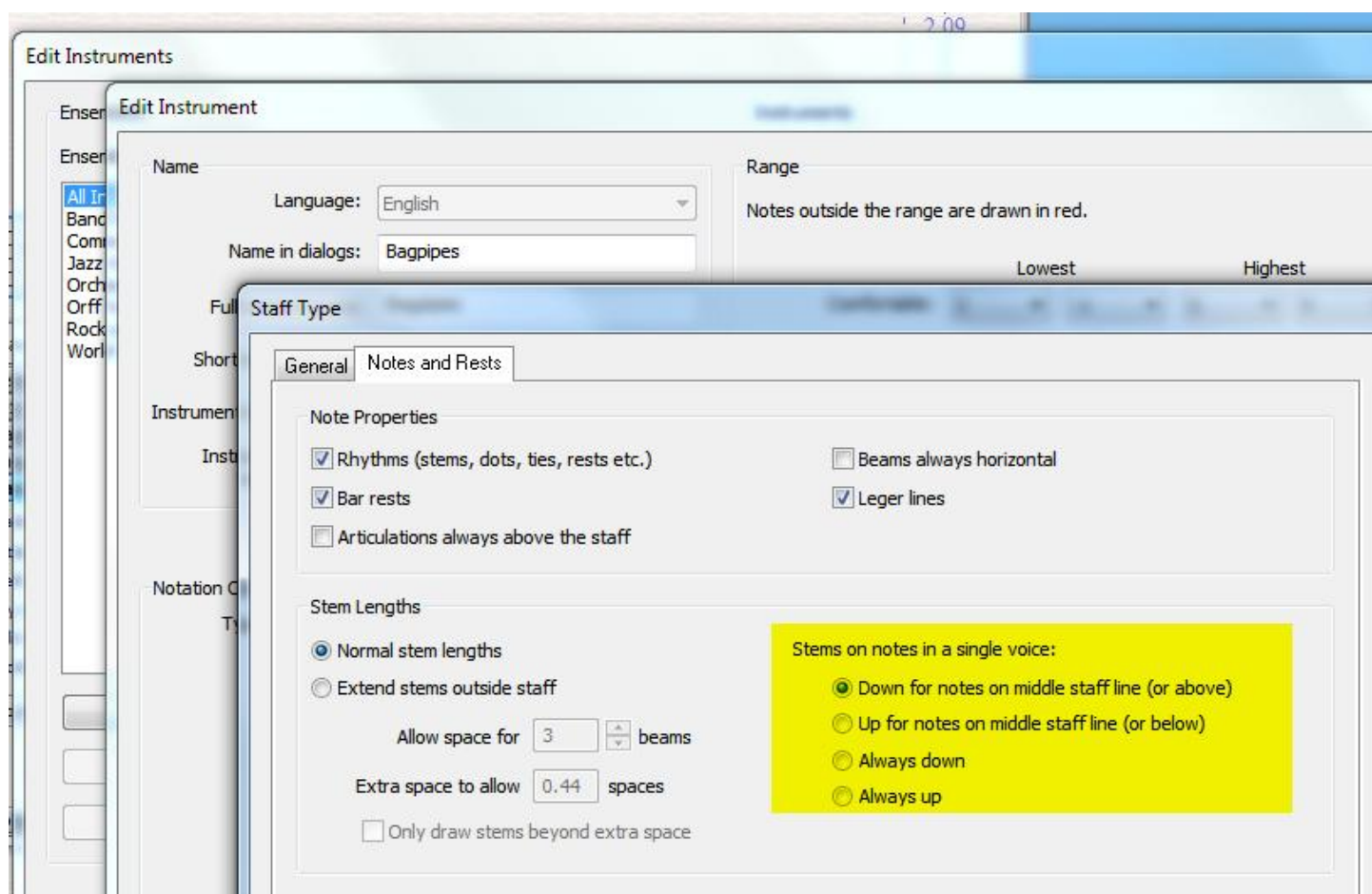
Traditionally in pipe music, non grace notes have stems pointing down, and grace notes have their stems pointing up.

The standard bagpipe instrument in Sibelius will have stems down for non grace notes on the middle staff line or above, and stems up otherwise.

What people usually do is enter the notes however they go in, and then select any notes with stems up and use X to flip the stems. This certainly works but it is easy to miss a few notes.

There is another approach, but it requires some changes to your input process, and some extra steps to remember. But here is a method which uses Sibelius's ability to define a staff whose note stems always point up or always point down:

You can change the way stems point in House Styles > Edit Instruments (Bagpipe) > Edit > Edit Staff Type > Notes and Rests, so they are always down.

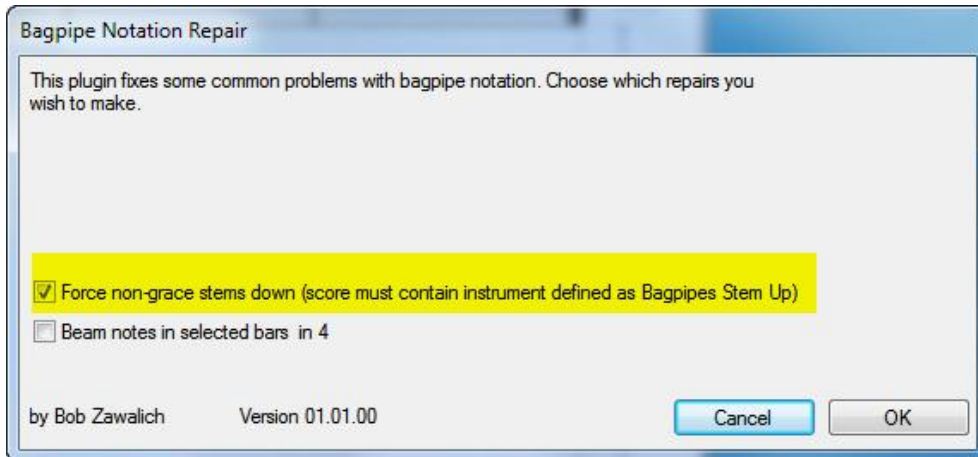


Ideally, this would be all you would have to do. Unfortunately, if you do this and have any dotted notes on staff lines, the dots appear below the staff line, when they really should go above the line. However, if you choose a staff type that is always up, then select all the notes and flip them, the dots will be in the correct place.

We can take advantage of that.

The included Manuscript Papers and House Styles have some instrument definitions that use the always up and always down properties. One way to use them is to start a score with instruments that are always stems down, and ignore the fact that any dots are in the wrong place. Enter all your notes, and things will mostly look OK, and then you can run the plugin *Bagpipe Notation Repair*. This has an option that will change the selected bagpipe instruments to use the style Bagpipe Stems Up, and it will then flip the non-grace notes, so the dots will be in the right place.

If you start with a Stems Down instrument, be sure to run the plugin at the end, or your rhythm dots will be wrong.



Other Plugins to aid in notation

Notation from Live Playback is a proofreading plugin. I have used it after running *Play Pipe Ornaments*. It adds a staff filled with notes derived from the live playback data. So it provides a way of seeing "what the sound looks like".

Trace Pipe Ornaments is another proofreading plugin. It creates a list of the ornaments it finds in the score with their names and location in the score. It is handy for someone like me who is not familiar with the ornaments, and can also be used to catch note misspellings after a score is completed.

Playback issues

There are 4 main classes of issues here.

The first is that grace notes as played back in Sibelius do not start and end where they should for pipe music, and we would like more control over the duration of grace notes, which are typically notated as 32nd notes, but should play back as shorter durations.

The second is that pipe music notated in D major should play back as if notated in Eb major, that is, one major second/semitone higher.

The third is that there should be a continuous drone when pipe music is playing.

The fourth is that it is desirable to have a good bagpipe instrument sound.

One solution for the second, third and fourth problem is to acquire a sound library that is set up to work with pipes. Some of these have the ability to toggle a drone on and off, and also the ability to transpose the output in playback, so that music can be notated as if in D major and sound as if in Eb major. This will be discussed below.

Correct timing of playback for grace note ornaments/ornaments

One of our original goals was to make pipe ornaments play back correctly. We put in a considerable amount of effort to be able to specify the start time and duration of grace notes in pipe ornaments/embellishments, and the plugin *Play Pipe Ornaments* is the primary result of that work. It analyzes a number of common ornaments, and sets the Live Playback data for the grace notes so they sound at least closer to the desired timing. Some experimentation will be required to find the most desirable timing, and the results may not be good enough for anything but aural proofreading, but the results are definitely better than what you get using Sibelius alone.

Bagpipe Sound Libraries

The standard Sibelius libraries are not particularly bagpipe friendly. Sibelius Essentials substitutes a clarinet for the bagpipe sound. I suggest using the General MIDI (Enhanced) playback configuration if you have no better library. It has a bagpipe sound, and it is a sound library that can use File > Export > Audio, so you can record the output of scores to audio files.

There are some libraries designed specifically for bagpipes, and some general sound libraries that have pipe samples. Some of these have options to transpose the notation up by a semitone.

We tried several of these but never ended up with any that worked for us.

This is what we tried:

Pipes only libraries

Universal Piper (Mac and Windows)
Studio Pipes (Windows only)

General sound libraries

These are fairly expensive if you are only using them for the bagpipe sounds, but they can be useful if you need sound libraries for orchestral or other kinds of music (or you already have them).

Kontakt 4 (note that there is a free player (Factory selection) that includes Uilleann Pipes, but not the Highland Pipes. The full Kontakt 4 library includes Uilleann Pipes, Highland Pipes and Tulum. If you have Sibelius 6, you can get a crossgrade to The Kontakt 4 Factory Library. See <http://www.native-instruments.com/#/en/products/producer/kontakt-4/?page=1140>

EastWest RA rare and ethnic instruments. See: http://www.eastwestsamples.com/details.php?cd_index=962

Playback where D should sound as Eb (or C should sound as Eb)

Bagpipe only scores

There are at least 2 ways to deal with this. If your score **only includes bagpipes** and they are notated in the key of D, you can just play them back in D, which is probably OK as long as a piper does not want to play along with the score.

To get playback in Eb when the score is written in D, you can

- Use a sound library that allows you to transpose an individual instrument by a semitone. All who play the score will need to have a transposing library for this to work.
- Create audio scores (Export > Audio) and transpose up a semitone before writing the audio score. The plugin *Export Bagpipe Audio* will transpose, write out an audio file, and transpose back.

You can also use the transposing instruments described above, which will play back in Eb and display in D in the transposing score and parts.

If you decided to notate in C rather than D, then adjust the descriptions accordingly. For a transposing bagpipe, C4 should sound as Eb4, and *Export Bagpipe Audio* will not work, so you will have to transpose by hand up a minor 3rd, and then export as audio. Most of the tools were developed for people notating in D.

Scores with instruments other than bagpipes

If there are other instruments in the score, they should be notated in the keys in which they sound, which is normally Eb. So the problem is what to do with the pipes.

Probably the best solution is to create a "transposing" bagpipe instrument that works like a saxophone or clarinet (among many transposing instruments). These instruments appear as they will sound in the concert score, and appear as the player wants to see them in a transposing score or a part. This is discussed above in the section on notating multiple instruments.

If you do this, and want to enter the notes as if they are in the key of D, enter the pipe notes in the transposing score (where the key signature will appear as D major). If you enter notes in the concert score, you will need to enter the notes in Eb.

If you give such a score to players, either just give the parts or tell them to use the transposing score (this is less of a problem if you distribute written parts than if you distribute the Sibelius score file).

Drones

The plugin *Bagpipe Drone* adds some MIDI Note On messages to a score that will produce the A (or Bb) drone notes without having to significantly modify the notation.

You can also create a hidden staff that just contains tied drone notes. There are some problems with playback of long strings of tied notes, and if you have a long score you may find this to be a problem. The MIDI messages solution avoids this and is less disruptive to the score.

This plugin is not needed if you have a sound library that can produce drones. We were not able to get any such library working in the time we worked on this project.

Making audio recordings

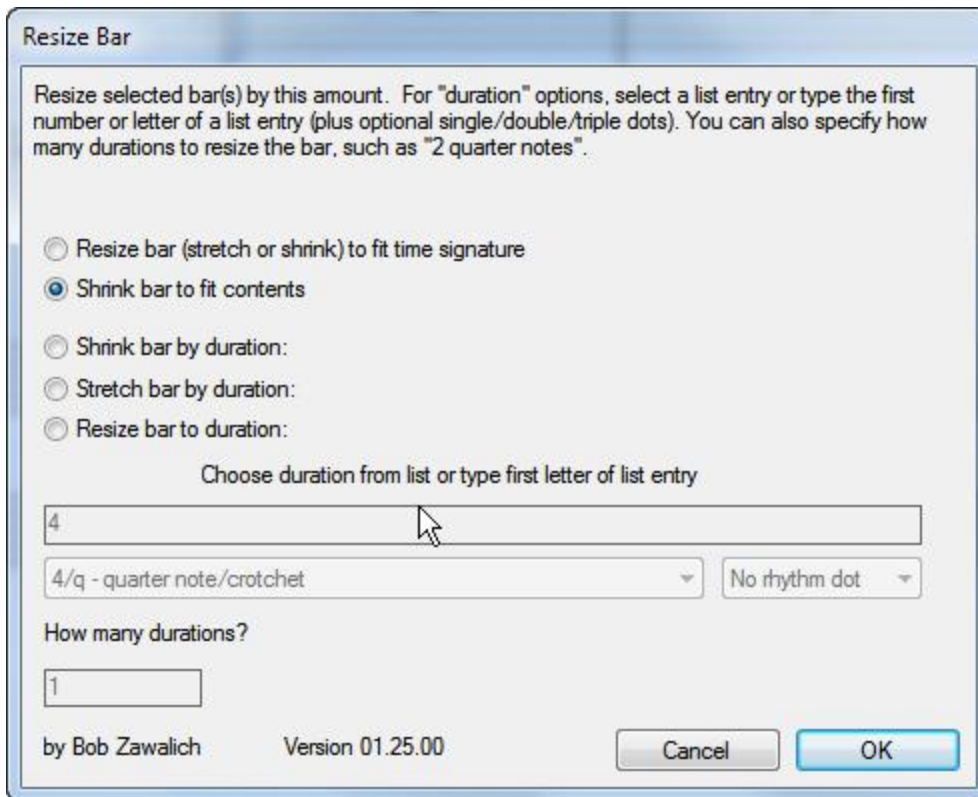
If your playback configuration (in Play > Playback devices) uses "virtual instruments", then you can make recordings using File > Export > Audio. Most playback configurations other than General MIDI (basic) will use virtual instruments.

Export Audio will produce .wav files in Windows or .aiff files in OSX. If you want .mp3 files, you need to convert the .wav or .aiff files. I use the free Audacity program to do this; I understand that iTunes can also do this.

The plugin *Export Bagpipe Audio* will transpose a score up a semitone and use File > Export > Audio on the transposed score. You will need to create mp3 files as a separate step.

More Plugins

Resize Bar is not bagpipe-specific, but it is useful for creating variable size bars for pickups and shortened bars at the end of a tune section, which is common in bagpipe music. If you add the pickup notes to the left side of a full-size bar, and run *Resize Bar* with the *Shrink bar to fit contents* option, the bar will be easily resized to the pickup notes. *Resize Bar* is not included in the zip file, but can be downloaded for free from www.sibelius.com/download/plugins/index.html?plugin=238.



House styles

Bagpipes Landscape and Bagpipes Portrait contain several instrument definitions:

- Bagpipes Stems Down (change names, staff type stems down)

- Bagpipes Stems Up (change names, staff type stems up)

- Bagpipes Transposing Stems Down (change names, staff type stems down, transpose from D to Eb)

- Bagpipes Transposing Stems Up (change names, staff type stems up, transpose from D to Eb)

The instrument definitions are also used in the manuscript papers to allow various transposing bagpipe instruments and to give an effective mechanism to get the main notes to have stems facing down but have rhythm dots be above the staff lines the notes are on.

The House Styles were also modified to prevent the instrument names from showing (as set in House Styles > Engraving Rules > Instruments), so the actual names of the instruments do not need to be deleted.

The manuscript papers were all set up using these House Style.

Manuscript Papers

These are the manuscript papers included:

Bagpipe Landscape Down

Bagpipe Landscape Up Down

Bagpipe Landscape Transpose Down

Bagpipe Landscape Transpose Up Down

Bagpipe Landscape KS Transpose Down (key signatures are shown in bagpipe instrument)

Bagpipe Landscape KS Transpose Up Down

Bagpipe Portrait Down

Bagpipe Portrait Up Down

Bagpipe Portrait Transpose Down

Bagpipe Portrait Transpose Up Down

Bagpipe Portrait KS Transpose Down

Bagpipe Portrait KS Transpose Up Down

There are Landscape and Portrait papers. There are also papers that have default note stem direction set up in different ways, and ones that support transposing instruments (only for D to Eb, not for C to Eb).

The manuscript papers were set up to deal with some common problems.

1. We wanted to deal with common bagpipe setup issues. So the scores are set up to be in the key of D major, but the key signatures are hidden.
2. We wanted to find a way to have the main note stems point down, with the rhythm dots appearing about the staff line the notes were on, while the grace notes stems pointed up.

For each variation of manuscript papers (Portrait, Landscape, Transposing, KS transposing) there are 2 variants:

- *Up Down* has stems that point down for notes on the middle staff line or above, which is the normal Sibelius default.
- *Down* has stems that always point down.

The use of these variants is discussed above, under *Stems Down*.

The manuscript papers (other than the ones marked KS Transposing) are set up so all the initial bars have the Key Signature property turned off. If you add new bars, you may need to go to the Properties Window Bar pane and uncheck the Key Signature box.

Transposing Manuscript Papers

The manuscript papers marked Transposing or KS Transposing are set to use transposing bagpipe instruments, which appear in the key of Eb in the concert score and D in the transposing score. The ones marked KS show the key signature, and are intended for scores to which other instruments will be added. The non KS papers are for solo bagpipes that use transposing instruments but do not show key signatures.

These scores are in the concert key of Eb major, rather than D as the other papers are, and they start out as transposing scores. If you enter notes into the transposing score, you should enter the notes as if you were in the key of D major. This might require a bit of thinking before you start...

Installation

House styles, Manuscript Papers and Plugins should all be copied to subfolders of the Sibelius 6 user folder. The root of this folder differs by Operating system:

Windows XP: C:\Documents and Settings\username\Application Data\Sibelius Software\Sibelius 6\

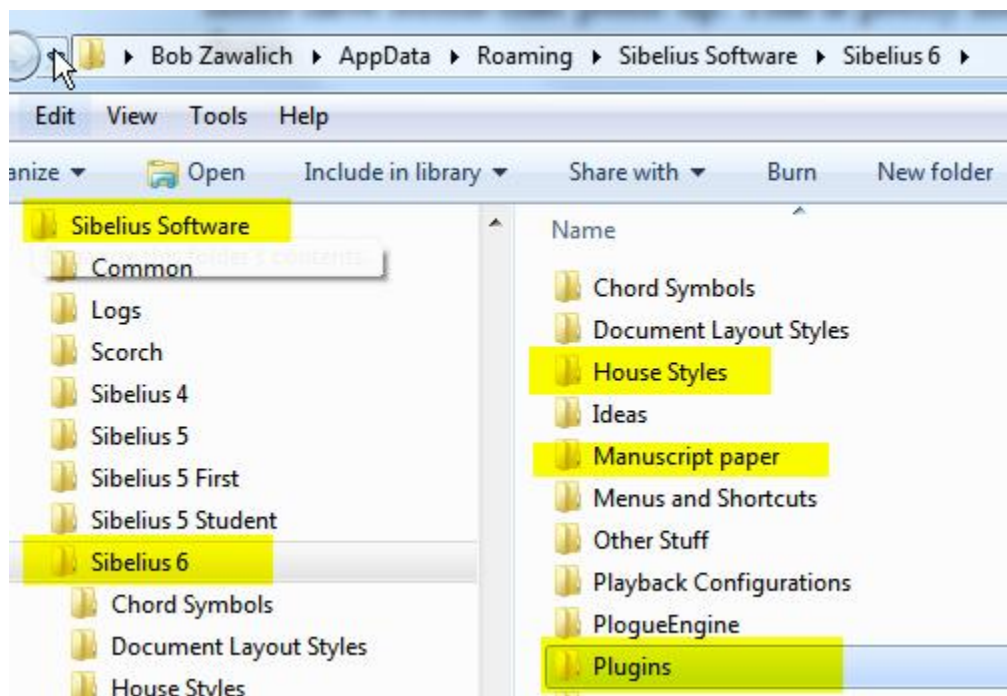
Window Vista and Windows 7: C:\Users\username\AppData\Roaming\Sibelius Software\Sibelius 6\

OSX: /Users/username/Library/Application Support/Sibelius Software/Sibelius 6/

You will need to create the subfolders *House Styles*, *Manuscript paper*, and *Plugins* if they do not exist.

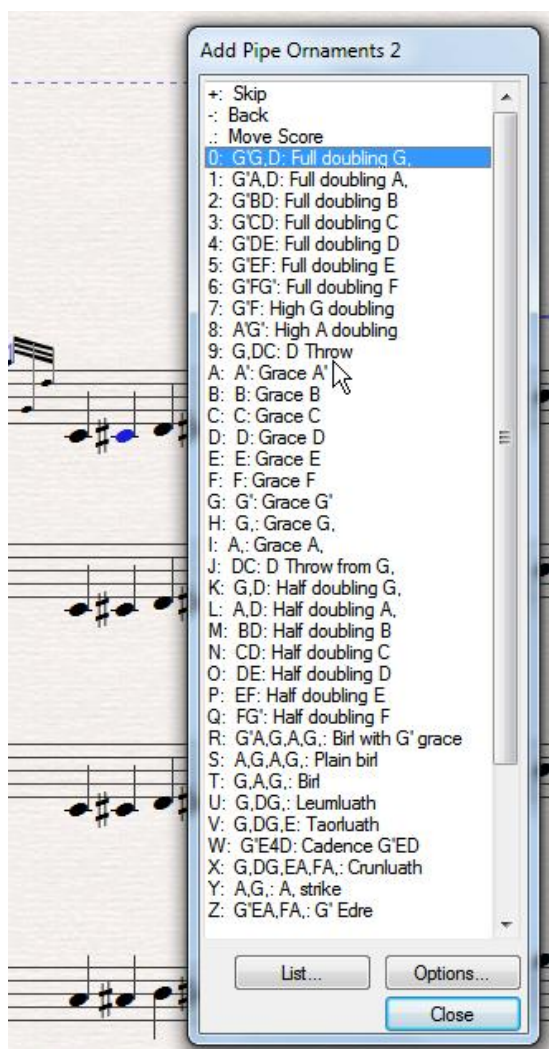
Copy the .lib files into the *House Styles* folder, the .sib files to *Manuscript paper*, and the .plg files to *Plugins*. Restart Sibelius after you copy the files so Sibelius can read them.

My Windows 7 folders look like this:



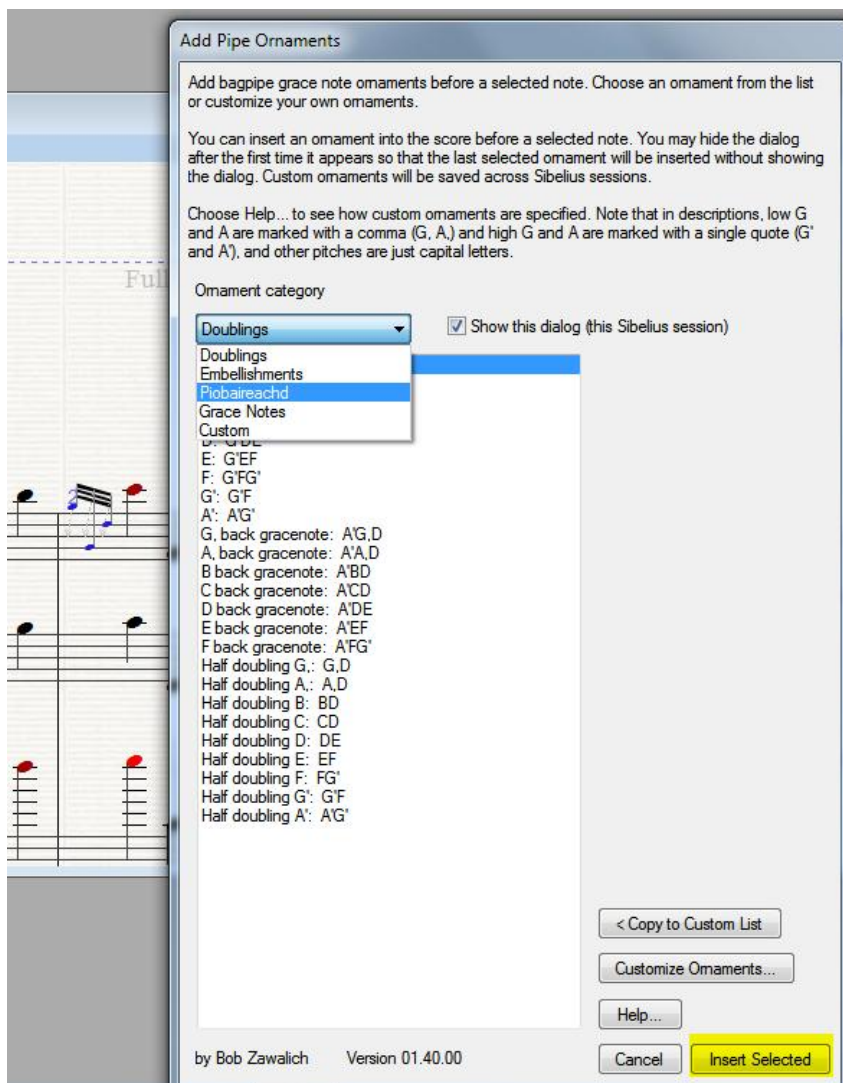
Using the plugins

Add Pipe Ornament 2



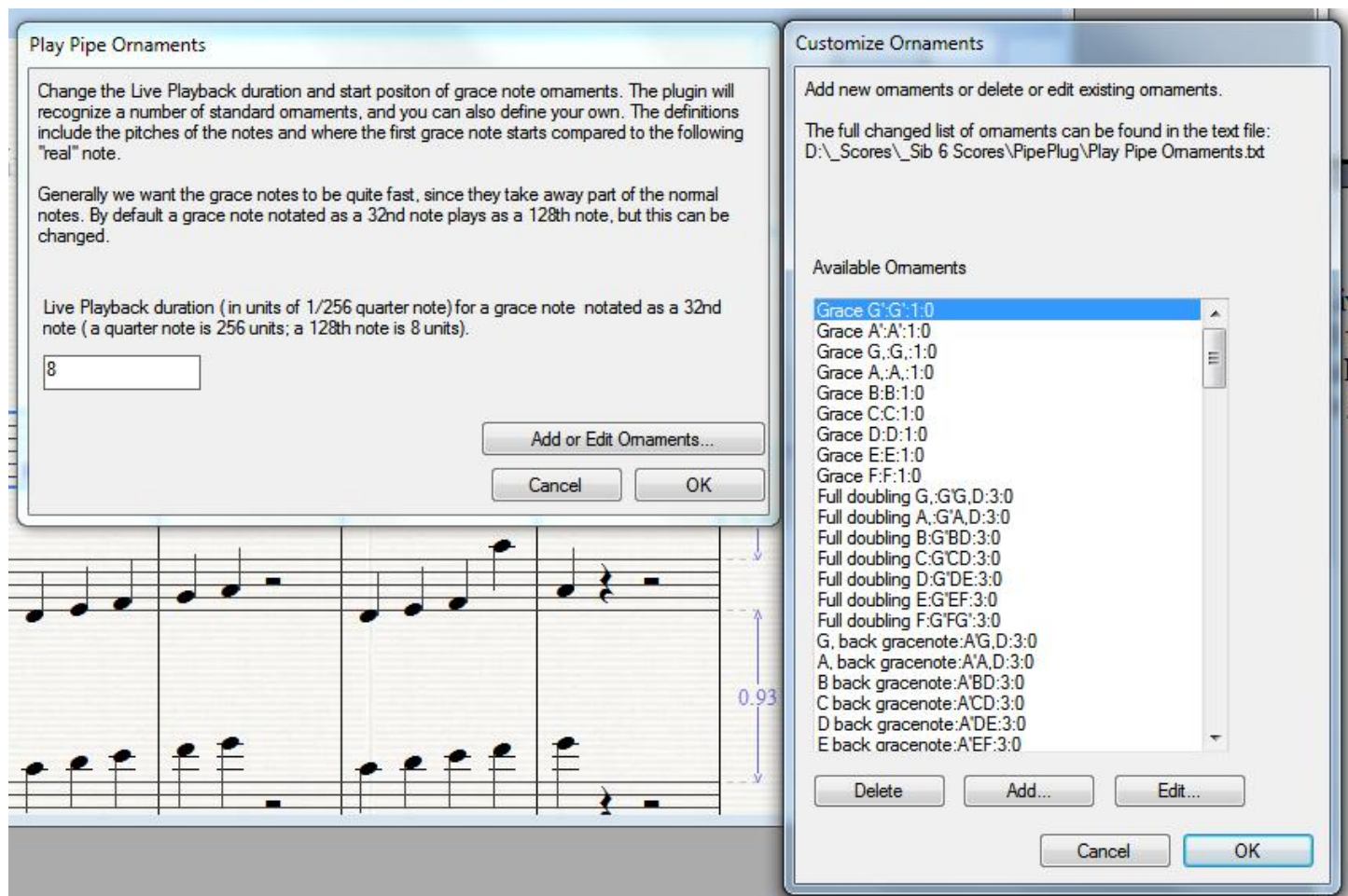
- *Add Pipe Ornament 2* lets you add multi-note grace note ornaments with single keystrokes. To use it, you first enter all the "normal" (non-grace) notes, and then select those notes and run the plugin. It sets up a process where the plugin moves from note to note, *and you type a key (0-9 or a-z) to insert a named ornament from the list* in front of the selected note. You can skip over notes, and back up if you have made a mistake. There is a larger list of available ornaments, beyond the 36 on the dialog, accessible through the *List* button, and you can change which ornaments are mapped to the keys using the *Options* button, so if you commonly use an ornament not on the main list, you can replace a lesser user ornament with the one you use.

Add Pipe Ornament



- Add bagpipe grace note ornaments before a selected note. Choose a named ornament from a list (Doublings, Embellishments, Piobaireachd, Grace Notes, Custom) or customize your own ornaments. Customized ornaments are saved across Sibelius sessions.
- You will run this plugin again each time you need to insert an ornament. It is probably useful to assign a keyboard shortcut, and it is probably most efficient to enter all ornaments of a given type, then all the examples of another ornament, so you do not have to keep selecting a new ornament each time the plugin runs.

Play Pipe Ornaments



Play Pipe Ornaments analyzes a number of common ornaments, and sets the Live Playback data for the grace notes so the start position and duration is close to the desired timing. Some experimentation will be required to find the most desirable timing, and the results may only be useful for aural proofreading, but the results are definitely better than what you get using Sibelius alone.

Choose a duration to represent the time spent by a note that is notated as a 32nd note. If it really took up a 32nd note duration, there would be no time for most real notes to be played! The default is 8/256 of a quarter note, which is equivalent to a 128th note. So double it to 16 for a 64th note, and so on. You can edit the descriptions and timing of the ornaments, and create new ornament descriptions. Follow the instructions in the edit dialog. If you want the ornament to start before the beat of the following note, tell it how many notes in the ornament should play before the beat.

In the descriptions in the dialog above, you will see 2 numbers following the description. The first is the number of pitches in the ornament, and it is added automatically by the plugin. You can edit the name, pitches, and the final number, which is the number of pitches before the beat.

Add or Edit Ornaments

An ornament description is a string of letters (ABCDEFGG) and octave designators (, and ') describing the pitches. C represents C# and F represents F#, and all other pitches are the natural pitch.

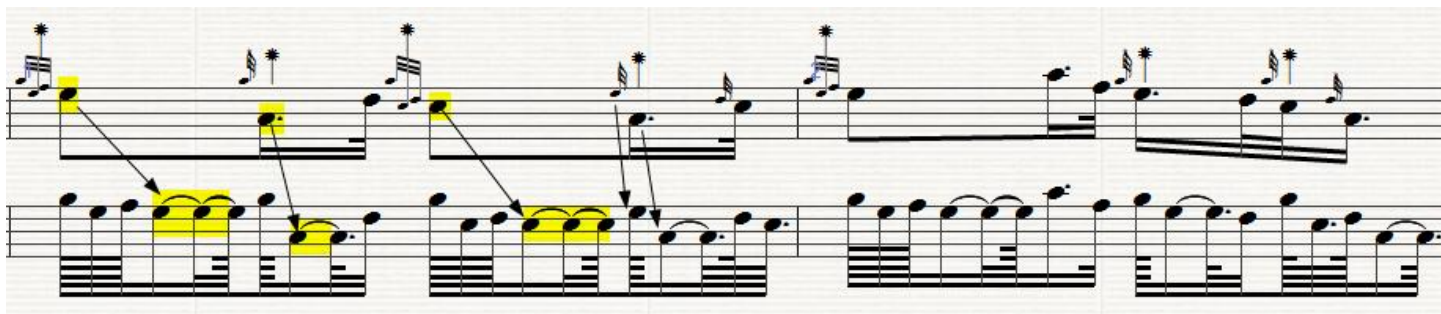
The notes G and A need octave designators. Use a following comma for low G and A (G, and A,), and a following single quote for high G and A (G' and A'). The full highland pipe scale would be shown as G,A,BCDEFG'A'.

The duration is by default 32nd notes (demisemiquavers). To change a note duration place a multiplier number after the note. A 2 will double the duration, which will make a 32nd note a 16th, and a 4 will make the 32nd an 8th.

So for, example, G'E4D describes a 32nd note high G followed by an 8th note E, then a 32nd note D.

Ornament name	Ornament description:	Number of notes in ornament before the beat
<input type="text" value="Full doubling G,"/>	<input type="text" value="G'G,D"/>	<input type="text" value="0"/>

Notation from Live Playback is a proofreading plugin. I have used it after running *Play Pipe Ornaments*. It adds a staff filled with notes derived from the live playback data. So it provides a way of seeing "what the sound looks like". Select the notes you want to analyze, and the plugin will add a new staff with those notes. It is best to run on a copy of the score, or to run it on a saved score, so you can close without saving after seeing what you want to see.



Trace Pipe Ornaments is another proofreading plugin. It creates a list of the ornaments it finds in the score with their names and location in the score. It is handy for someone like me who is not familiar with the ornaments, and can also be used to catch note misspellings after a score is completed. Select some notes, run the plugin, and see the results in the trace window.

Full Score

Plug-in Trace

Ornament name; pitches; bar; voice; staff:

```

Full doubling E; G'EF; 1; 1; 1
Grace G'; G'; 1; 1; 1
Full doubling C; G'CD; 1; 1; 1
Grace E; E; 1; 1; 1
Grace D; D; 1; 1; 1
Full doubling E; G'EF; 2; 1; 1
Grace G'; G'; 2; 1; 1
Grace G'; G'; 2; 1; 1
Grace D; D; 2; 1; 1
D Throw; G,DC; 3; 1; 1
Grace E; E; 3; 1; 1
Full doubling B; G'BD; 3; 1; 1
Grace E; E; 3; 1; 1
D Throw; G,DC; 4; 1; 1
Grace G'; G'; 4; 1; 1
Full doubling E; G'EF; 4; 1; 1

```

Bagpipe Drone

Bagpipe Drone adds some MIDI Note On messages to the start of a score that will produce the A (or Bb) drone notes without having to significantly modify the notation

Full Score Strathspey

Bagpipe Drone

This plugin will add or remove Note On MIDI messages for a bagpipe drone to the start of the selection or the start of the first staff in the score if there is no selection.

This will cause a drone (one A2 and two A3 notes) (or one Bb2 and two Bb3 notes) to play as long as playback starts at or before the location of the MIDI text. Use A drones unless you are using a transposing bagpipe (that sounds in Eb rather than D); in that case use Bb drones. Do not use this plugin if the score is in D major and you plan to transpose it to Eb major, as the MIDI messages do not transpose.

It will only play back as a drone if the instrument is a sustaining instrument (such as a bagpipe, but not a piano).

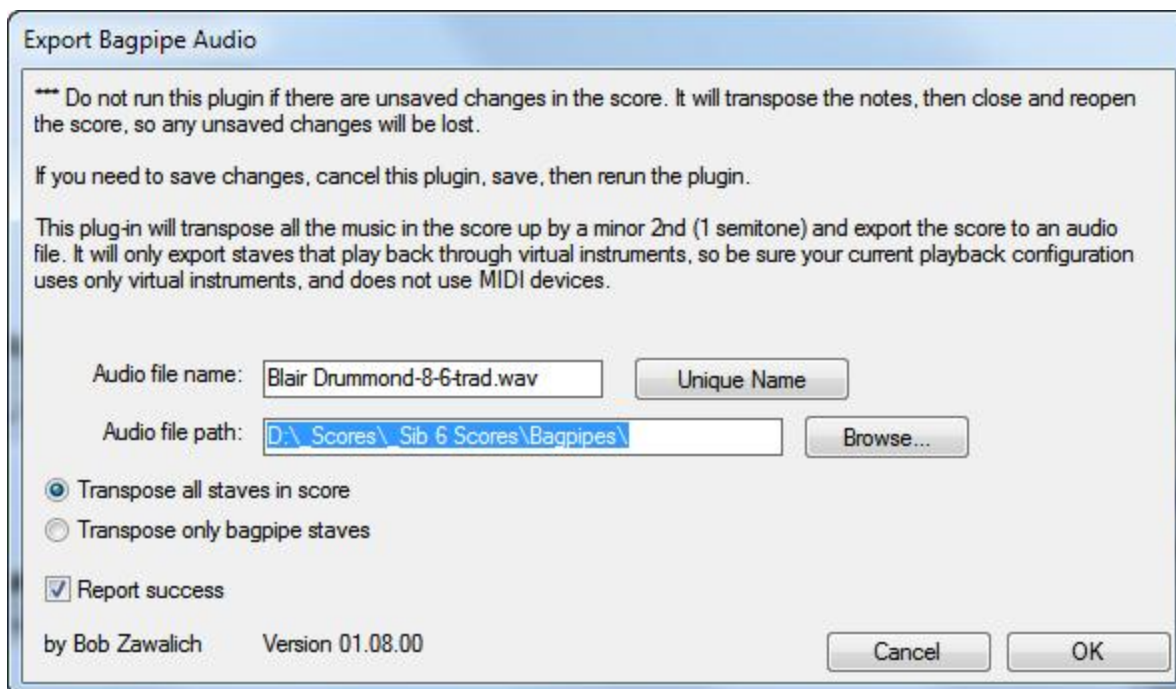
MIDI Note On messages

☒ Add A drones
☐ Add Bb drones
☐ Delete drone text

by Bob Zawalich Version 01.03.00

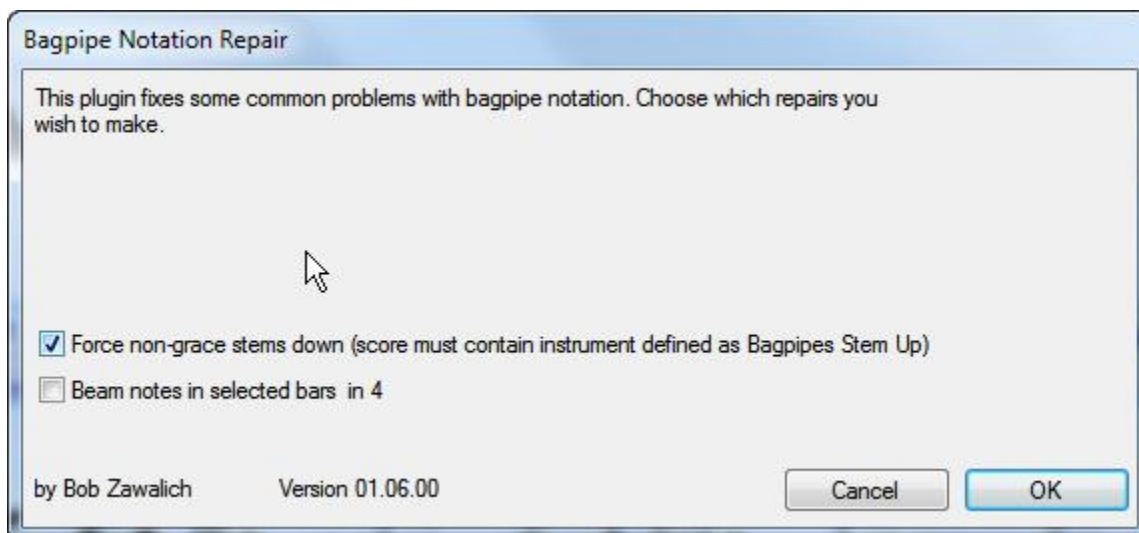
Cancel OK

Export Bagpipe Audio will transpose a score up a semitone and use File > Export > Audio on the transposed score. You will need to create mp3 files as a separate step.



Bagpipe Notation Repair has an option to flip note stems (useful if you have entered notes using a stems down manuscript paper), causing an unstrument changes to an instrument with stems up, and then flipping the stems of all non-grace notes. The motivation for this is explained above.

It also has another option to rebeam notes in a non-standard way for reels. It will beam together groups of 8th notes or dotted 8ths and 16ths that Sibelius beams separately.



Appendix A: Ornament descriptions

An ornament description, as used in several of the bagpipe plugins, is a string of letters (ABCDEFGF) and octave designators (, and ') describing the pitches available for Great Highland Bagpipes. C represents C# and F represents F#, and all other pitches are the natural pitch.

The notes G and A need octave designators. Use a following comma for low G and A (G, and A,), and a following single quote for high G and A (G' and A'). The full highland pipe scale would be shown as G,A,BCDEFG'A'. G and A without an octave designator will not be recognized.

The duration is by default 32nd notes (demisemiquavers). To change a note's duration place a multiplier number after the note. A 2 will double the duration, which will make a 32nd note a 16th, and a 4 will make the 32nd an 8th.
























So for, example, G'E4D describes a 32nd note high G followed by an 8th note E, then a 32nd note D.

Since a plugin cannot show graphics for the ornaments (as some pipe-only programs do), you will need to identify the ornaments you want either by a name or the pitches use. So you might see "Full doubling G,:G'G,D" in a list, and it represents the 32nd notes High G, Low G, and D.



Appendix 2: Included files

The following files are included in Bagpipes.zip:

Name	Date modified	Type	Size
 Bagpipes Landscape.lib	12/29/2010 2:28 PM	Finale Library File	91 KB
 Bagpipes Portrait.lib	12/29/2010 1:59 PM	Finale Library File	91 KB
 Sibelius Tools For Bagpipe Music.pdf	12/29/2010 6:40 PM	PDF File	666 KB
 AddPipeOrnaments.plg	12/1/2010 3:09 PM	PLG File	69 KB
 AddPipeOrnaments2.plg	12/1/2010 12:58 AM	PLG File	122 KB
 BagpipeDrone.plg	11/30/2010 5:34 PM	PLG File	23 KB
 BagpipeNotationRepair.plg	12/8/2010 3:25 PM	PLG File	34 KB
 ExportBagpipeAudio.plg	11/26/2010 12:25 ...	PLG File	61 KB
 NotationFromLivePlayback.plg	12/12/2010 5:30 PM	PLG File	40 KB
 PlayPipeOrnaments.plg	11/30/2010 10:14 ...	PLG File	163 KB
 TracePipeOrnaments.plg	11/29/2010 8:56 PM	PLG File	55 KB
 Bagpipe Landscape Down.sib	12/29/2010 2:30 PM	Sibelius Score	38 KB
 Bagpipe Landscape KS Transposing Up Down.sib	12/29/2010 2:35 PM	Sibelius Score	38 KB
 Bagpipe Landscape KS Transposing Down.sib	12/29/2010 2:36 PM	Sibelius Score	38 KB
 Bagpipe Landscape Transposing Up Down.sib	12/29/2010 2:33 PM	Sibelius Score	38 KB
 Bagpipe Landscape Transposing Down.sib	12/29/2010 2:32 PM	Sibelius Score	38 KB
 Bagpipe Landscape Up Down.sib	12/29/2010 2:27 PM	Sibelius Score	38 KB
 Bagpipe Portrait Down.sib	12/29/2010 2:02 PM	Sibelius Score	38 KB
 Bagpipe Portrait KS Transposing Down.sib	12/29/2010 2:23 PM	Sibelius Score	38 KB
 Bagpipe Portrait KS Transposing Up Down.sib	12/29/2010 2:24 PM	Sibelius Score	38 KB
 Bagpipe Portrait Transposing Down.sib	12/29/2010 2:22 PM	Sibelius Score	38 KB
 Bagpipe Portrait Transposing Up Down.sib	12/29/2010 2:23 PM	Sibelius Score	38 KB
 Bagpipe Portrait Up Down.sib	12/29/2010 2:01 PM	Sibelius Score	38 KB

These include Manuscript Papers (yellow), plugins (green), house styles (magenta) and a PDF of a Word document (cyan).