Shakes (**Sk**) in handbell notation require a bit of special handling to ensure correct specification of which notes are to be shaken. Example: In this bit of music, do we shake just the C7, or the entire chord?



This question pops up with enough frequency to send bell choir directors and festival conductors to their phones/computers to ask for clarification from the composer. It's much clearer with this notation:



For a single-note shake, the "Sk~~~~" works properly, but in general practice having the following provides for all cases:

- 1. A plain "Sk"
- 2. An "Sk" with a (preferably adjustable) squiggle.
- 3. Just a (preferably adjustable) squiggle.

The first one is easy. Just create a new playing technique as follows

н. In Write mode with the right zone displayed and Playing modo ord. ≣ Techniques selected, find the palette of playing techniques multiphonic mute off where you want to keep your Sk. non l.v. I've put mine in my **Common** mute nat. ٧Π palette, because I like being able open non vib. ord. to access it all the time. Click on the little + at the bottom of the poco vib. Locally senza sord. perties: Globa palette. 7 senza vib. vib. 0 **....** with mute  $\bigtriangledown$ + 🖉 Wind <

## Adding a Squiggle

The following dialog	Edit Playing Techniques									
will open.	Category:	Name: New Playing Technique								
	Common 🗸									
in the <b>Name</b> , field	matter mallet - lift									
	mallet - suspended General Continuation									
enter <b>Sk</b> (or <b>SK</b> , if vou	Marcato (text)									
profor all oppo) This is	mart	Category: Common								
prefer all caps). This is	mart - lift	Type: Text X Text: Playing Technique Font X								
the name of the	Multiphonic	The second								
playing technique	Mute (text)	Default placement: Above Below	¢							
playing technique	Mute Off (text)									
button that will be	Naturale (nat.)	Appearance: Same above and below Different above and below								
	New Playing Technique									
added to your palette.	Non Vibrato	Popover text:								
	Open (text)	Playback technique: Natural V Edit								
	Ordinario (ord.)									
With lext selected,	Pluck	Cues: Shown in cues Not shown in cues								
optor "Sk in the Toxt	Pluck-lift Poco Vibrato									
enter Skinthe lext.	R	Tablature: Always shown Shown if no notation staff								
field.	+⊡ ☆३章	Bowing mark								
		Cancel C								
Hit <b>Ok</b> and your new			DK PyE							
	-		_							
Sk plaving technique										
will be added										
will be aqued.										

Part 2: To be able to add a squiggle to the right of your (new) **Sk** playing technique:

In Write mode, select your **Sk** playing technique, and then click on the little pencil icon next to the + that you used to create your **Sk**. This will reopen the dialog for your **Sk** playing technique (you may have to create an **Sk** somewhere on your score to do this).

Select Continuation,	Edit Playing Techniques								
and this dialog will	Category:		Name						
pop up:	Common	~	Name.						
	matter								
Sot Continuation	mallet - lift			_					
Set Outilituation	mallet - suspended		General Continu	ation					
<b>Type</b> to <b>Line</b> . This	Marcato (text) mart		Continuation type:	Line	~				
indicates the	mart - lift								
	Modo Ordinario		Duration line:	Wiggly line			~		
continuation of your	Multiphonic	-11	Alignment above	Cantax		Deleun	Cantas		
<b>Sk</b> will be a line of	Mute (text) Mute Off (text)	-11	Alignment above:	Center	×	Belom:	Center	~	
	Naturale (nat.)	-1	Transition line	Wiggly line			~		
symbols aoina to the	Non Laissez Vibrer (non l.v.)	-1	munsicion une.	Wiggly une					
viaht	Non Vibrato		Alignment above:	Center	~	Below:	Center	~	
right.	Open (text)		, in the second s						
	Ordinario (ord.)								
	Pluck								
For Duration Line.	Pluck-lift	_							
	Poco Vibrato								
select Wiggly Line	R 								
	RI								

Then select your **Alignment Above:** value. I prefer **Center**, so that the squiggle is vertically centered on my **Sk**.

Click Ok to close the Edit Playing Technique dialog.

To satisfy yourself that this works, select an **Sk** on your score (or make one), and then Shift-Option/Alt right-arrow to display the continuation line. The more times you press the arrow key, the longer the continuation line will be.

Part 3: Making just a squiggle that you can extend to the right:

Create a new playing technique, and give it name like ~ (tilde). This will serve as a reminder of what it is. If another name works better for you, use that instead.

If you've looked closely at the tilde character, however, it isn't the same as the bits that make up a **Wiggly Line**. The reason for this is that the wiggle line is composed of repetitions of a special not-very-typeable character that's somewhere far afield in the Unicode character set. The chunk of smaller-font words following is a description of Unicode; if you don't want to read it right now, go ahead and skip it, and come back later if you're so inclined.

In the early days of the computer era, the developers needed a numerically-based way to represent the characters that they used in their machines. One of the first as ASCII (American Standard Code for Information Interchange, pronounced "ask-ee"). As it was still a Wild West environment, there were other competing arrangements such as EBCDIC. These were eight-bit character sets, which meant they could contain a maximum of 256 characters.

Although ASCII represented <u>American</u> English characters adequately, it didn't have enough space to account for characters that were normal to European languages such as Spanish and French. Then, of course, there were languages with different alphabets (Russian, Bengali, Eritrean), and ideographic language (Chinese, Japanese). So ASCII's 256-character capacity just wasn't enough.

After enough time, the world agree on the Unicode Standard. Unicode represents each character as a value of four hexadecimal digits = 16 bits. This allows for a set of 2^16, or 65,536 possible characters, more than adequate for all of the world's languages to have their own separate, well-defined space. Well, we hope!

With all those slots available the Unicode Standard now has allocations for practically anything you can imagine, such as emojis, symbols, pictographs. The Klingon Language Institute has even applied for an allocation for Klingon script.

The Unicode subspaces of interest to Dorico users contain musical symbols. For our purposes, they're called glyphs (probably because they aren't actual letters).

It turns out that the musical symbols on our scores are glyphs. If you haven't come across this word before, just think of a glyph as a little picture. The glyphs that make up a Wiggly Line are different from the tilde character, so to make our extendable squiggle, we need to use the right glyph. The reason for this is that you can't make a playing technique that's just a continuation; it needs a starting point from which to continue. So our best choice would be the one that's used in a Wiggly Line. That glyph has the Unicode address **U+EAA4** (in binary 1110 1010 1010 0100 - if you like ones and zeroes).

Here's how to define your squiggle:

(You've already created a playing technique and named it  $\sim$ ).



Note that the tilde character is displayed. That's because Dorico took your playing technique name and put it there in case you want to use it.

There's a tiny trash bin to the right of **Zoom** and **Select**. Click it, and the tilde will be removed.

Now to add the wiggly line glyph. You'll notice the **SMuFL** and **Unicode** on the right side of the dialog. **SMuFL** (Standard Music Font Layout) contains the

## Adding a Squiggle

wiggly line glyph, but you have to find the correct **Range**, because Dorico arranges SMuFL glyphs in logical subsets. Click on the popup menu button to the right of **Range:**, and you'll see a huge selection of ranges.



Now configure the continuation for your playing technique as you did for Sk.

There are a few caveats with this squiggle:

Dorico adds your squiggle directly above/below the note to which you've added it.

Adjusting the length of the continuation is done in Write mode.

To adjust your squiggle's position, drag it **by the left-hand anchor glyph** to where it's supposed to be. This must be done in Engrave mode.

The continuation wiggly line is displayed to the right the anchor glyph, with a bit of intervening space. To move it to the left so it overlaps the anchor glyph nicely, go to Engrave mode, select the continuation **only**, and then nudge it to the left.

Note: Attempts to adjust multiple squiggles simultaneously can produce rather weird results, so moving them one at a time probably is best.