

# VSL Solo Strings

custom preset

## KeySwitch & Expression Map for Ableton Live

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### Violin 1

#	Articulation	Shortcut	Interval CC 3	AB-Switch CC 4	Speed / Duration / Tempo CC 6	X-Fade CC 20	Bow Position CC 9	Note / Cut Release CC 12	Key Switch
1	Legato Non Vibrato Bow Position	Leg NV Pos					X		
2	Legato Vibrato Crossfade	Leg VB XF				Vibrato			
3	Legato Vibrato	Leg VB			Regular, Fast				
4	Legato Vibrato Marcato	Leg VB Marc			Regular, Fast				
5	Legato Vibrato Progressive	Leg VB Prog							
6	Legato Vibrato Sulla Corda	Leg VB SulCor							
7	Legato Vibrato Portamento	Leg VB Portamento							
8	Legato Vibrato Zigane	Leg VB Zigane							
9	Legato Vibrato Détaché	Leg VB Det							
10	Legato Performance Trills	Leg Perf Trills							
11	Sustain Non Vibrato Bow Position	Sus NV Pos					X		
12	Sustain Non Vibrato Harmonics Artificial	Sus NV Harm Art							
13	Sustain Non Vibrato Harmonics Natural	Sus NV Harm Nat							
14	Sustain Vibrato Crossfade	Sus VB XF				Vibrato			
15	Sustain Vibrato	Sus VB							
16	Sustain Vibrato Marcato	Sus VB Marc							
17	Sustain Vibrato Espressivo	Sus VB Espr							
18	Sustain Vibrato Espressivo Marcato	Sus VB Espr Marc							
19	Sustain Vibrato Progressive	Sus VB Prog		Increasing, Decreasing					
20	Sustain Vibrato Sforzato Bow Position	Sus VB Sfz Pos					X		
21	Sustain Vibrato Fortepiano	Sus VB Fp							
22	Sustain Vibrato Sforzatissimo Bow Pos	Sus VB Sffz Pos					not Tasto		
23	Sustain Non Vibrato Dynamics Soft	Sus NV Dyn Soft		Crescendo, Diminuendo	1'5s, 3s				
24	Sustain Vibrato Dynamics Soft Crossfade	Sus VB Dyn Soft XF		Crescendo, Diminuendo	1'5s, 3s	Vibrato			
25	Sustain Vibrato Dynamics Soft	Sus VB Dyn Soft		Crescendo, Diminuendo	1'5s, 3s, 4s				
26	Sustain Vibrato Dynamics Strong	Sus VB Dyn Strong		Crescendo, Diminuendo	1'5s, 3s, 4s				
27	Sustain Vibrato Swells	Sus VB Swells			2s, 4s				
28	Détaché Non Vibrato Bow Position	Det NV Pos					X		
29	Détaché Non Vibrato Harmonics Artificial	Det NV Harm Art							
30	Détaché Non Vibrato Harmonics Natural	Det Short Harm Nat							
31	Détaché Vibrato Crossfade	Det VB XF				Vibrato			
32	Détaché Vibrato	Det VB							

#	Articulation	Shortcut	Interval CC 3	AB-Switch CC 4	Speed / Duration / Tempo CC 6	X-Fade CC 20	Bow Position CC 9	Note / Cut Release CC 12	Key Switch
33	Détaché Short	Det Short							
34	Staccato Bow Position	Stac Pos					X		
35	Staccato Harmonics Artificial	Stac Harm Art							
36	Spiccato	Spic			Regular, Fast				
37	Spiccato Harsh	Spic Harsh							
38	Pizzicato Crossfade	Pizz XF				Secco, Regular, Snap			
39	Col Legno	Col Legno							
40	Grace Notes	Grace	Half Tone, Whole Tone	Up, Down	Slow, Fast				
41	Grace Notes Zigane	Grace Zigane	Half Tone, Whole Tone, Minor 3rd, Major 3rd	Up, Down					
42	Glissando	Gliss	G, D, A, E						
43	Glissando Octave	Gliss Octa		Up, Down	Slow, Fast				
44	Glissando Harmonics Natural	Gliss Harm Nat		Up, Down					
45	Tremolo Bow Position	Trem Pos			Regular, Fast Attack		X	X	
46	Tremolo Crossfade	Trem XF			Regular, Fast Attack	Sustain, Tremolo		X	
47	Tremolo Dynamic	Trem Dyn		Crescendo, Diminuendo	1'5s, 3s				
48	Trills	Trills	Half Tone, Whole Tone					X	
49	Trills Progressive	Trills Prog	Half Tone, Whole Tone					X	
50	Trills Dynamic	Trills Dyn	Half Tone, Whole Tone	Crescendo, Diminuendo					
	Trills Progssive Dynamic	Trills Prog Dyn	Half Tone, Whole Tone	Crescendo, Diminuendo					
51	Ricochet	Ricochet			150, 160, 170, 180, 190, 210				
52	Ricochet 3 Repetitions	Ricochet 3 Rep							
53	Ricochet Progressive	Ricochet Prog		Accelerando, Ritardando					
54	Repetition Legato	Rep Leg			Slow, Fast				
55	Repetitions Portato	Rep Portato			Slow, Medium, Fast				
56	Repetitions Staccato	Rep Stac							
57	Repetitions Spiccato	Rep Spic							
58	Repetitions Spiccato Harsh	Rep Spic Harsh							
59	Repetitions No Bow Change	Rep No BC							
60	Repetitions Fast Long	Rep Fast Long			150, 160, 170, 180, 190			X	
61	Repetitions Fast Short	Rep Fast Short			150, 160, 170, 180, 190, 200			X	
62	Repetitions Fast Short Dynamic	Rep Fast Short Dyn		Crescendo, Diminuendo	150, 160, 170, 180, 190, 200				
63	Scale Runs Legato	Runs Leg Rec		Up, Down					C0 - B0
64	Scale Runs Spiccato	Runs Spic Rec	Half Tone, Whole Tone, Minor, Major	Up, Down					C0 - B0

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### Viola

#	Articulation	Shortcut	Interval CC 3	AB-Switch CC 4	Speed / Duration / Tempo CC 6	X-Fade CC 20	Bow Position CC 9	Note / Cut Release CC 12	Key Switch
1	Legato Non Vibrato Bow Position	Leg NV Pos					X		
2	Legato Vibrato Crossfade	Leg VB XF				Vibrato			
3	Legato Vibrato	Leg VB			Regular, Fast				
4	Legato Vibrato Marcato	Leg VB Marc			Regular, Fast				
5	Legato Vibrato Progressive	Leg VB Prog							
6	Legato Vibrato Sulla Corda	Leg VB SulCor							
7	Legato Vibrato Portamento	Leg VB Portamento							
8	Legato Vibrato Zigane	Leg VB Zigane							
9	Legato Performance Trills	Leg Perf Trills							
10	Sustain Non Vibrato Bow Position	Sus NV Pos					X		
11	Sustain Non Vibrato Harmonics Artificial	Sus NV Harm Art							
12	Sustain Non Vibrato Harmonics Natural	Sus NV Harm Nat							
13	Sustain Vibrato Crossfade	Sus VB XF				Vibrato			
14	Sustain Vibrato	Sus VB							
15	Sustain Vibrato Marcato	Sus VB Marc							
16	Sustain Vibrato Espressivo	Sus VB Espr							
17	Sustain Vibrato Espressivo Marcato	Sus VB Espr Marc							
18	Sustain Vibrato Progressive	Sus VB Prog		Increasing, Decreasing					
19	Sustain Vibrato Sforzato Bow Position	Sus VB Sfz Pos					X		
20	Sustain Vibrato Fortepiano	Sus VB Fp							
21	Sustain Vibrato Sforzatissimo Bow Pos	Sus VB Sffz Pos					not Tasto		
22	Sustain Non Vibrato Dynamics Soft	Sus NV Dyn Soft		Crescendo, Diminuendo	1'5s, 3s				
23	Sustain Vibrato Dynamics Soft Crossfade	Sus VB Dyn Soft XF		Crescendo, Diminuendo	1'5s, 3s	Vibrato			
24	Sustain Vibrato Dynamics Soft	Sus VB Dyn Soft		Crescendo, Diminuendo	1'5s, 3s				
25	Sustain Vibrato Dynamics Strong	Sus VB Dyn Strong		Crescendo, Diminuendo	1'5s, 3s, 4s				
26	Sustain Vibrato Swells	Sus VB Swells			2s, 4s				
27	Détaché Non Vibrato Bow Position	Det NV Pos					X		
28	Détaché Non Vibrato Harmonics Artificial	Det NV Harm Art							
29	Détaché Non Vibrato Harmonics Natural	Det NV Harm Nat							
30	Détaché Vibrato	Det VB							
31	Détaché Short	Det Short							
32	Staccato Bow Position	Stac Pos					X		

#	Articulation	Shortcut	Interval CC 3	AB-Switch CC 4	Speed / Duration / Tempo CC 6	X-Fade CC 20	Bow Position CC 9	Note / Cut Release CC 12	Key Switch
33	Staccato Harmonics Artificial	Stac Harm Art							
34	Spiccato	Spic			Regular, Fast				
35	Spiccato Harsh	Spic Harsh							
36	Pizzicato Crossfade	Pizz XF				Regular, Snap			
37	Col Legno	Col Legno							
38	Grace Notes	Grace	Half Tone, Whole Tone	Up, Down					
39	Grace Notes Zigane	Grace Zigane	Half Tone, Whole Tone, Minor 3rd, Major 3rd	Up, Down					
40	Glissando	Gliss	C, G, D, A						
41	Glissando Octave	Gliss Octa		Up, Down	Slow, Fast				
42	Glissando Harmonics Natural	Gliss Harm Nat		Up, Down					
43	Tremolo Bow Position	Trem Pos			Regular, Fast Attack		X	X	
44	Tremolo Crossfade	Trem XF			Regular, Fast Attack	Sustain, Tremolo		X	
45	Tremolo Dynamic	Trem Dyn		Crescendo, Diminuendo	1'5s, 3s				
46	Trills	Trills	Half Tone, Whole Tone					X	
47	Trills Progressive	Trills Prog	Half Tone, Whole Tone					X	
48	Trills Dynamic	Trills Dyn	Half Tone, Whole Tone	Crescendo, Diminuendo					
49	Trills Progressive Dynamic	Trills Prog Dyn	Half Tone, Whole Tone	Crescendo, Diminuendo					
50	Ricochet	Ricochet			150, 160, 170, 180, 190, 210				
51	Ricochet 3 Repetitions	Ricochet 3 Rep							
52	Ricochet Progressive	Ricochet Prog		Accelerando, Ritardando					
53	Repetition Legato	Rep Leg			Slow, Fast				
54	Repetitions Portato	Rep Portato							
55	Repetitions Staccato	Rep Stac							
56	Repetitions Spiccato	Rep Spic							
57	Repetitions Spiccato Harsh	Rep Spic Harsh							
58	Repetitions Fast Long	Rep Fast Long			150, 160, 170, 180, 190			X	
59	Repetitions Fast Short	Rep Fast Short			150, 160, 170, 180, 190			X	
60	Repetitions Fast Short Dynamic	Rep Fast Short Dyn		Crescendo, Diminuendo	150, 160, 170, 180, 190				
61									
62									
63									
64									

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### Violoncello 1

#	Articulation	Shortcut	Interval CC 3	AB-Switch CC 4	Speed / Duration / Tempo CC 6	X-Fade CC 20	Bow Position CC 9	Note / Cut Release CC 12	Key Switch
1	Legato Non Vibrato Bow Position	Leg NV Pos					X		
2	Legato Vibrato Crossfade	Leg VB XF				Vibrato			
3	Legato Vibrato	Leg VB			Regular, Fast				
4	Legato Vibrato Marcato	Leg VB Marc			Regular, Fast				
5	Legato Vibrato Progressive	Leg VB Prog							
6	Legato Vibrato Sulla Corda	Leg VB SulCor							
7	Legato Vibrato Portamento	Leg VB Portamento							
8	Legato Vibrato Zigane	Leg VB Zigane							
9	Legato Performance Trills	Leg Perf Trills							
10	Sustain Non Vibrato Bow Position	Sus NV Pos					X		
11	Sustain Non Vibrato Harmonics Artificial	Sus NV Harm Art							
12	Sustain Non Vibrato Harmonics Natural	Sus NV Harm Nat							
13	Sustain Vibrato Crossfade	Sus VB XF				Vibrato			
14	Sustain Vibrato	Sus VB							
15	Sustain Vibrato Marcato	Sus VB Marc							
16	Sustain Vibrato Espressivo	Sus VB Espr							
17	Sustain Vibrato Espressivo Marcato	Sus VB Espr Marc							
18	Sustain Vibrato Progressive	Sus VB Prog		Increasing, Decreasing					
19	Sustain Vibrato Sforzato Bow Position	Sus VB Sfz Pos					X		
20	Sustain Vibrato Fortepiano	Sus VB Fp							
21	Sustain Vibrato Sforzatissimo Bow Pos	Sus VB Sffz Pos					not Tasto		
22	Sustain Non Vibrato Dynamics Soft	Sus NV Dyn Soft		Crescendo, Diminuendo	1'5s, 3s				
23	Sustain Vibrato Dynamics Soft Crossfade	Sus VB Dyn Soft XF		Crescendo, Diminuendo	1'5s, 3s	Vibrato			
24	Sustain Vibrato Dynamics Soft	Sus VB Dyn Soft		Crescendo, Diminuendo	1'5s, 3s				
25	Sustain Vibrato Dynamics Strong	Sus VB Dyn Strong		Crescendo, Diminuendo	1'5s, 3s, 4s				
26	Sustain Vibrato Swells	Sus VB Swells			2s, 4s				
27	Détaché Non Vibrato Bow Position	Det NV Pos					X		
28	Détaché Non Vibrato Harmonics Artificial	Det NV Harm Art							
29	Détaché Non Vibrato Harmonics Nat	Det NV Harm Nat							
30	Détaché Vibrato	Det VB							
31	Détaché Short	Det Short							
32	Staccato Bow Position	Stac Pos					X		

#	Articulation	Shortcut	Interval CC 3	AB-Switch CC 4	Speed / Duration / Tempo CC 6	X-Fade CC 20	Bow Position CC 9	Note / Cut Release CC 12	Key Switch
33	Staccato Harmonics Artificial	Stac Harm Art							
34	Spiccato	Spic			Regular, Fast				
35	Spiccato Harsh	Spic Harsh							
36	Pizzicato Crossfade	Pizz XF				Secco, Regular, Snap			
37	Col Legno	Col Legno							
38	Grace Notes	Grace	Half Tone, Whole Tone	Up, Down					
39	Grace Notes Zigane	Grace Zigane	Half Tone, Whole Tone, Minor 3rd, Major 3rd	Up, Down					
40	Glissando	Gliss	C, G, D, A						
41	Glissando Octave	Gliss Octa		Up, Down	Slow, Fast				
42	Glissando Harmonics Natural	Gliss Harm Nat		Up, Down					
43	Tremolo Bow Position	Trem Pos			Regular, Fast Attack		X	X	
44	Tremolo Crossfade	Trem XF			Regular, Fast Attack	Sustain, Tremolo		X	
45	Tremolo Dynamic	Trem Dyn		Crescendo, Diminuendo	1'5s, 3s				
46	Trills	Trills	Half Tone, Whole Tone					X	
47	Trills Progressive	Trills Prog	Half Tone, Whole Tone					X	
48	Trills Dynamic	Trills Dyn	Half Tone, Whole Tone	Crescendo, Diminuendo					
49	Trills Progressive Dynamic	Trills Prog Dyn	Half Tone, Whole Tone	Crescendo, Diminuendo					
50	Ricochet	Ricochet			150, 160, 170, 180, 190, 210				
51	Ricochet 3 Repetitions	Ricochet 3 Rep							
52	Ricochet Progressive	Ricochet Prog		Accelerando, Ritardando					
53	Repetition Legato	Rep Leg			Slow, Fast				
54	Repetitions Portato	Rep Portato							
55	Repetitions Staccato	Rep Stac							
56	Repetitions Spiccato	Rep Spic							
57	Repetitions Spiccato Harsh	Rep Spic Harsh							
58	Repetitions Fast Long	Rep Fast Long			150, 160, 170, 180, 190			X	
59	Repetitions Fast Short	Rep Fast Short			140, 150, 160, 170, 180			X	
60	Repetitions Fast Short Dynamic	Rep Fast Short Dyn		Crescendo, Diminuendo	140, 150, 160, 170, 180				
61									
62									
63									
64									

# VSL Solo Strings

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### Double Bass

#	Articulation	Shortcut	Interval CC 3	AB-Switch CC 4	Speed / Duration / Tempo CC 6	X-Fade CC 20	Bow Position CC 9	Note / Cut Release CC 12	Key Switch
1	Legato Non Vibrato Bow Position	Leg NV Pos					X		
2	Legato Vibrato	Leg VB			Regular, Fast				
3	Legato Vibrato Marcato	Leg VB Marc			Regular, Fast				
4	Legato Vibrato Portamento	Leg VB Portamento							
5	Legato Performance Trills	Leg Perf Trills							
6	Sustain Non Vibrato Bow Position	Sus NV Pos					X		
7	Sustain Non Vibrato Harmonics Artificial	Sus NV Harm Art							
8	Sustain Non Vibrato Harmonics Natural	Sus NV Harm Nat							
9	Sustain Vibrato Crossfade	Sus VB XF				Vibrato			
10	Sustain Vibrato	Sus VB							
11	Sustain Vibrato Marcato	Sus VB Marc							
12	Sustain Vibrato Progressive	Sus VB Prog		Increasing, Decreasing					
13	Sustain Vibrato Sforzato Bow Position	Sus VB Sfz Pos					X		
14	Sustain Vibrato Fortepiano	Sus VB Fp							
15	Sustain Vibrato Sforzatissimo Bow Pos	Sus VB Sffz Pos					not Tasto		
16	Sustain Non Vibrato Dynamics Soft	Sus NV Dyn Soft		Crescendo, Diminuendo	1'5s, 3s				
17	Sustain Vibrato Dynamics Strong	Sus VB Dyn Strong		Crescendo, Diminuendo	1'5s, 3s, 4s				
18	Sustain Vibrato Swells	Sus VB Swells			2s, 4s				
19	Détaché Non Vibrato Bow Position	Det NV Pos					X		
20	Détaché Non Vibrato Harmonics Artificial	Det NV Harm Art							
21	Détaché Non Vibrato Harmonics Natural	Det NV Harm Nat							
22	Détaché Vibrato	Det VB							
23	Détaché Short	Det Short							
24	Staccato Bow Position	Stac Pos					X		
25	Staccato Ring	Stac Ring							
26	Staccato Harmonics Artificial	Stac Harm Art							
27	Spiccato	Spic			Regular, Fast				
28	Spiccato Harsh	Spic Harsh							
29	Pizzicato Crossfade	Pizz XF				Secco, Regular, Snap			
30	Col Legno	Col Legno							
31	Glissando	Gliss							
32	Glissando Octave	Gliss Octa		Up, Down	Slow, Fast				

Double Bass

#	Articulation	Shortcut	Interval CC 3	AB-Switch CC 4	Speed / Duration / Tempo CC 6	X-Fade CC 20	Bow Position CC 9	Note / Cut Release CC 12	Key Switch
33	Glissando Harmonics Natural	Gliss Harm Nat		Up, Down					
34	Tremolo Bow Position	Trem Pos			Regular, Fast Attack		X	X	
35	Tremolo Crossfade	Trem XF			Regular, Fast Attack	Sustain, Tremolo		X	
36	Trills	Trills	Half Tone, Whole Tone					X	
37	Trills Dynamic	Trills Dyn	Half Tone, Whole Tone	Crescendo, Diminuendo					
38	Repetition Legato	Rep Leg			Slow, Fast				
39	Repetitions Portato	Rep Portato							
40	Repetitions Staccato	Rep Stac							
41	Repetitions Spiccato	Rep Spic							
42	Repetitions Spiccato Harsh	Rep Spic Harsh							
43	Repetitions Fast Long	Rep Fast Long			150, 160, 170, 180, 190			X	
44									
45									
46									
47									
48									
49									
50									
51									
52									
53									
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62									
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### Violin 2

#	Articulation	Shortcut	AB-Switch CC 4	Open Strings CC 9	Duration / Tempo CC 6	X-Fade CC 20
1	Legato Non Vibrato	Leg NV				
2	Legato Vibrato Crossfade	Leg VB XF				Vibrato
3	Legato Vibrato	Leg VB				
4	Legato Vibrato Progressive	Leg VB Prog				
5	Legato Non Vibrato Portamento	Leg NV Portamento				
6	Legato Vibrato Portamento Crossfade	Leg VB Portamento XF				Vibrato
7	Legato Vibrato Portamento	Leg VB Portamento				
8	Legato Vibrato Portamento Progressive	Leg VB Portamento Prog				
9	Legato Performance Trills	Leg Perf Trills				
10	Sustain Non Vibrato	Sus NV		X		
11	Sustain Vibrato Crossfade	Sus VB XF		X		Vibrato
12	Sustain Vibrato	Sus VB		X		
13	Sustain Vibrato Progressive	Sus VB Prog		X		
14	Sustain Non Vibrato Sforzato	Sus NV Sfz		X		
15	Sustain Vibrato Sforzato Crossfade	Sus VB Sfz XF		X		Vibrato
16	Sustain Vibrato Sforzato	Sus VB Sfz		X		
17	Sustain Non Vibrato Fortepiano	Sus NV Fp		X		
18	Sustain Vibrato Fortepiano Crossfade	Sus VB Fp XF		X		Vibrato
19	Sustain Vibrato Fortepiano	Sus VB Fp		X		
20	Sustain Non Vibrato Sforzatissimo	Sus NV Sffz		X		
21	Sustain Vibrato Sforzatissimo Crossfade	Sus VB Sffz XF		X		Vibrato
22	Sustain Vibrato Sforzatissimo	Sus VB Sffz		X		
23	Sustain Non Vibrato Sforzato Crescendo *	Sus NV Sfz Cres *		X		
24	Sustain Vibrato Sforzato Crescendo *	Sus VB Sfz Cres *		X		
25	Sustain Non Vibrato Fortepiano Crescendo *	Sus NV Fp Cres *		X		
26	Sustain Vibrato Fortepiano Crescendo *	Sus VB Fp Cres *		X		
27	Sustain Non Vibrato Dynamics Soft	Sus NV Dyn Soft	Crescendo, Diminuendo	X	2s. 3s, 4s	
28	Sustain Vibrato Dynamics Soft Crossfade	Sus VB Dyn Soft XF	Crescendo, Diminuendo	X	2s. 3s, 4s	Vibrato
29	Sustain Vibrato Dynamics Soft	Sus VB Dyn Soft	Crescendo, Diminuendo	X	2s. 3s, 4s	
30	Sustain Non Vibrato Dynamics Strong	Sus NV Dyn Strong	Crescendo, Diminuendo	X	2s. 3s, 4s	
31	Sustain Vibrato Dynamics Strong Crossfade	Sus VB Dyn Strong XF	Crescendo, Diminuendo	X	2s. 3s, 4s	Vibrato
32	Sustain Vibrato Dynamics Strong	Sus VB Dyn Strong	Crescendo, Diminuendo	X	2s. 3s, 4s	

\* These Crescendos are only layered samples and not recorded.

#	Articulation	Shortcut	AB-Switch CC 4	Open Strings CC 9	Duration / Tempo CC 6	X-Fade CC 20
33	Sustain Non Vibrato Swells	Sus NV Swells		X	2s, 4s, 6s	
34	Sustain Vibrato Swells Crossfade	Sus VB Swells XF		X	2s, 4s, 6s	Vibrato
35	Sustain Vibrato Swells	Sus VB Swells		X	2s, 4s, 6s	
36	Détaché Long	Det Long NV		X		
37	Détaché Vibrato Crossfade	Det Long VB XF		X		Vibrato
38	Détaché Long Vibrato	Det Long VB		X		
39	Détaché Short	Det Short NV		X		
40	Staccato	Stac		X		
41	Pizzicato	Pizz		X		
42	Tremolo	Trem		X		
43	Tremolo Crossfade	Trem XF		X		Sustain, Tremolo
44	Repetition Non Vibrato Legato	Rep NV Leg		X		
45	Repetition Vibrato Legato Crossfade	Rep VB Leg XF		X		Vibrato
46	Repetition Vibrato Legato	Rep VB Leg		X		
47	Repetitions Portato	Rep Portato		X		
48	Repetitions Staccato	Rep Stac		X		
49	Repetitions Fast	Rep Fast		X	140, 150, 160, 170, 180, 200	
50						
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### Violoncello 2

#	Articulation	Shortcut	AB-Switch CC 4	Open Strings CC 9	Duration / Tempo CC 6	X-Fade CC 20
1	Legato Non Vibrato	Leg NV				
2	Legato Vibrato Crossfade	Leg VB XF				Vibrato
3	Legato Vibrato	Leg VB				
4	Legato Vibrato Progressive	Leg VB Prog				
5	Legato Non Vibrato Portamento	Leg NV Portamento				
6	Legato Vibrato Portamento Crossfade	Leg VB Portamento XF				Vibrato
7	Legato Vibrato Portamento	Leg VB Portamento				
8	Legato Vibrato Portamento Progressive	Leg VB Portamento Prog				
9	Legato Performance Trills	Leg Perf Trills				
10	Sustain Non Vibrato	Sus NV		X		
11	Sustain Vibrato Crossfade	Sus VB XF		X		Vibrato
12	Sustain Vibrato	Sus VB		X		
13	Sustain Vibrato Progressive	Sus VB Prog		X		
14	Sustain Non Vibrato Sforzato	Sus NV Sfz		X		
15	Sustain Vibrato Sforzato Crossfade	Sus VB Sfz XF		X		Vibrato
16	Sustain Vibrato Sforzato	Sus VB Sfz		X		
17	Sustain Non Vibrato Fortepiano	Sus NV Fp		X		
18	Sustain Vibrato Fortepiano Crossfade	Sus VB Fp XF		X		Vibrato
19	Sustain Vibrato Fortepiano	Sus VB Fp		X		
20	Sustain Non Vibrato Sforzatissimo	Sus NV Sffz		X		
21	Sustain Vibrato Sforzatissimo Crossfade	Sus VB Sffz XF		X		Vibrato
22	Sustain Vibrato Sforzatissimo	Sus VB Sffz		X		
23	Sustain Non Vibrato Sforzato Crescendo *	Sus NV Sfz Cres *		X		
24	Sustain Vibrato Sforzato Crescendo *	Sus VB Sfz Cres *		X		
25	Sustain Non Vibrato Fortepiano Crescendo *	Sus NV Fp Cres *		X		
26	Sustain Vibrato Fortepiano Crescendo *	Sus VB Fp Cres *		X		
27	Sustain Non Vibrato Dynamics Soft	Sus NV Dyn Soft	Crescendo, Diminuendo	X	2s, 3s, 4s	
28	Sustain Vibrato Dynamics Soft Crossfade	Sus VB Dyn Soft XF	Crescendo, Diminuendo	X	2s, 3s, 4s	Vibrato
29	Sustain Vibrato Dynamics Soft	Sus VB Dyn Soft	Crescendo, Diminuendo	X	2s, 3s, 4s	
30	Sustain Non Vibrato Dynamics Strong	Sus NV Dyn Strong	Crescendo, Diminuendo	X	2s, 3s, 4s	
31	Sustain Vibrato Dynamics Strong Crossfade	Sus VB Dyn Strong XF	Crescendo, Diminuendo	X	2s, 3s, 4s	Vibrato
32	Sustain Vibrato Dynamics Strong	Sus VB Dyn Strong	Crescendo, Diminuendo	X	2s, 3s, 4s	

\* These Crescendos are only layered samples and not recorded.

Violoncello 2

#	Articulation	Shortcut	AB-Switch CC 4	Open Strings CC 9	Duration / Tempo CC 6	X-Fade CC 20
33	Sustain Non Vibrato Swells	Sus NV Swells		X	2s, 4s, 6s	
34	Sustain Vibrato Swells Crossfade	Sus VB Swells XF		X	2s, 4s, 6s	Vibrato
35	Sustain Vibrato Swells	Sus VB Swells		X	2s, 4s, 6s	
36	Détaché Long	Det NV Long		X		
37	Détaché Vibrato Crossfade	Det VB Long XF		X		Vibrato
38	Détaché Long Vibrato	Det VB Long		X		
39	Détaché Short	Det Short NV		X		
40	Staccato	Stac		X		
41	Pizzicato	Pizz		X		
42	Tremolo	Trem		X		
43	Tremolo Crossfade	Trem XF		X		Sustain, Tremolo
44	Repetition Non Vibrato Legato	Rep NV Leg		X		
45	Repetition Vibrato Legato Crossfade	Rep VB Leg XF		X		Vibrato
46	Repetition Vibrato Legato	Rep VB Leg		X		
47	Repetitions Portato	Rep Portato		X		
48	Repetitions Staccato	Rep Stac		X		
49	Repetitions Fast	Rep Fast		X	140, 150, 160, 170, 180, 200	
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# VSL Solo Strings

custom preset

## KeySwitch & Expression Map for Ableton Live

[www.swub.de](http://www.swub.de)

### CCs

CC	Name	Description	Custom Bank *
1	Velocity XF	There are two vsynpresets in the folders. While the _sus preset controls only the dynamic of long articulations with Velocity XF, the other one disables the keystroke velocity for short articulations, too.	X
3	Interval	The trills can be played in half or whole tones with this controller. Furthermore, you can determine the scale of runs or grace notes with it.	X
4	AB-Switch	Switch between crescendo or diminuendo dynamics. Play runs, glissandos and grace notes up or down. Increase or decrease a progressive vibrato. Choose between accelerando or ritardando for ricochets.	X
6	Speed / Duration / Tempo	Some articulations let you choose between slow, regular or fast samples (e.g. legato transmission). Additionally, you can adjust the BPM of fast repetitions or the duration of a crescendo / diminuendo / swells.	X
7	Master Volume	Use the master volume only to adjust the volume of the track in the overall mix.	
8	Timbre Adjust	The string can be played with more or less pressure / slower or faster. Not only the volume changes, but also the timbre. This controller lets you additionally change the timbre by applying synthetic filters.	
9	Bow Position (1st instr.)	Some patches offer different samples with the bow played either ponticello (close to the bridge), regular (middle) or tasto (close to the fingerboard). That influences the sound of the note.	X
9	Open String (2nd instr.)	If you play a G1 on the cello not on the C string in the seventh fret, but on the empty G string, then no vibrato is possible and the sound is louder and more "metallic".	X
11	Expression	Use expression to influence the volume while playing.	X
12	Cut / Note Release	You can select whether the trills are played with the release sample of the root note or not. This can be handy if you play several trills with different notes in succession. The same for fast repetitions or ricochets.	
14	Reverb Level	More or less reverb.	
15	Reverb On / Off	Turn on or off the reverb.	
18	Timbre Adjust On / Off	Turn on or off the timbre adjust (see also CC 8).	
20	Crossfade	Cross-fade between non vibrato or vibrato, sustain or tremolo and pizzicato secco, regular or snap.	
22	Attack	Adjust the attack time.	
23	Release	Adjust the release time.	
24	Filter	Apply more or less the player's filter.	
25	Humanize Delay Scale	It affects the precision in the timing of notes.	
26	Humanize Tuning	You can influence how accurately the tone is played in the attack of the note.	
27	Humanize Amount	Control how much the two settings above should have an effect.	
33	Legato Blur	It sculpts the legato transitions.	
34	Stretch Factor	Time-stretch feature for changing for example the duration of a staccato note in real time so that it fits to your song's tempo.	
41- 52	Mix Volume	Control the sliders in the mix tab remotely.	

\* This is only the default. Of course you can choose yourself which CCs make the most sense in your setup. The same for the XY-Pad in the display of the KSEM. By default is X = AB-Switch and Y = Velocity XF.

# VSL Solo Strings

## KeySwitch & Expression Map for Ableton Live

[www.swub.de](http://www.swub.de)

### Content and consistency of the library

Articulation	Violin 1	Violin 2 *	Viola	Cello 1	Cello 2 *	Bass
Leg NV						
Leg NV Ponticello						
Leg NV Tasto						
Leg VB XF						
Leg VB	Regular, Fast	Regular	Regular, Fast	Regular, Fast	Regular	Regular, Fast
Leg VB Marc	Regular, Fast		Regular, Fast	Regular, Fast		Regular, Fast
Leg VB Prog						
Leg VB SulCor						
Leg NV Portamento						
Leg VB Portamento XF						
Leg VB Portamento						
Leg VB Portamento Prog						
Leg VB Zigane						
Leg VB Det						
Leg Perf Trills						
Sus NV		Open Strings Option			Open Strings Option	
Sus NV Ponticello						
Sus NV Tasto						
Sus NV Harm Art						
Sus NV Harm Nat						
Sus VB XF		Open Strings Option			Open Strings Option	
Sus VB		Open Strings Option			Open Strings Option	
Sus VB Marc						
Sus VB Espr						
Sus VB Espr Marc						
Sus VB Prog	Increasing, Decreasing	Increasing Open Strings Option	Increasing, Decreasing	Increasing, Decreasing	Increasing Open Strings Option	Increasing, Decreasing
Sus NV Sfz		Open Strings Option			Open Strings Option	
Sus VB Sfz XF		Open Strings Option			Open Strings Option	
Sus VB Sfz		Open Strings Option			Open Strings Option	
Sus VB Sfz Ponticello						
Sus VB Sfz Tasto						
Sus NV Fp		Open Strings Option			Open Strings Option	
Sus VB Fp XF		Open Strings Option			Open Strings Option	
Sus VB Fp						
Sus NV Sffz		Open Strings Option			Open Strings Option	
Sus VB Sffz XF		Open Strings Option			Open Strings Option	
Sus VB Sffz		Open Strings Option			Open Strings Option	
Sus VB Sffz Ponticello						

Articulation	Violin 1	Violin 2 *	Viola	Cello 1	Cello 2 *	Bass
Sus NV Sfz Cres		Open Strings Option			Open Strings Option	
Sus VB Sfz Cres		Open Strings Option			Open Strings Option	
Sus NV Fp Cres		Open Strings Option			Open Strings Option	
Sus VB Fp Cres		Open Strings Option			Open Strings Option	
Sus NV Dyn Soft	1'5s, 3s Crescendo / Diminuendo	2s, 3s, 4s Crescendo / Diminuendo Open Strings Option	1'5s, 3s Crescendo / Diminuendo	1'5s, 3s Crescendo / Diminuendo	2s, 3s, 4s Crescendo / Diminuendo Open Strings Option	1'5s, 3s Crescendo / Diminuendo
Sus VB Dyn Soft XF	1'5s, 3s Crescendo / Diminuendo	2s, 3s, 4s Crescendo / Diminuendo Open Strings Option	1'5s, 3s Crescendo / Diminuendo	1'5s, 3s Crescendo / Diminuendo	2s, 3s, 4s Crescendo / Diminuendo Open Strings Option	
Sus VB Dyn Soft	1'5s, 3s, 4s Crescendo / Diminuendo	2s, 3s, 4s Crescendo / Diminuendo Open Strings Option	1'5s, 3s Crescendo / Diminuendo	1'5s, 3s Crescendo / Diminuendo	2s, 3s, 4s Crescendo / Diminuendo Open Strings Option	
Su NV Syn Strong		2s, 3s, 4s Crescendo / Diminuendo Open Strings Option			2s, 3s, 4s Crescendo / Diminuendo Open Strings Option	
Sus VB Dyn Strong XF		2s, 3s, 4s Crescendo / Diminuendo Open Strings Option			2s, 3s, 4s Crescendo / Diminuendo Open Strings Option	
Sus VB Dyn Strong	1'5s, 3s, 4s Crescendo / Diminuendo	2s, 3s, 4s Crescendo / Diminuendo Open Strings Option	1'5s, 3s, 4s Crescendo / Diminuendo	1'5s, 3s, 4s Crescendo / Diminuendo	2s, 3s, 4s Crescendo / Diminuendo Open Strings Option	1'5s, 3s, 4s Crescendo / Diminuendo
Sus NV Swells		2s, 4s, 6s Open Strings Option			2s, 4s, 6s Open Strings Option	
Sus VB Swells XF		2s, 4s, 6s Open Strings Option			2s, 4s, 6s Open Strings Option	
Sus VB Swells	2s, 4s	2s, 4s, 6s Open Strings Option	2s, 4s	2s, 4s	2s, 4s, 6s Open Strings Option	2s, 4s
Det NV Long						
Det NV Ponticello						
Det NV Tasto						
Det NV Harm Art						
Det NV Harm Nat						
Det VB Long XF		Open Strings Option			Open Strings Option	
Det VB Long		Open Strings Option			Open Strings Option	
Det NV Short		Open Strings Option			Open Strings Option	
Stac		Open Strings Option			Open Strings Option	
Stac Ponticello						
Stac Tasto						
Stac Harm Art						
Spic	Regular, Fast		Regular, Fast	Regular, Fast		Regular, Fast
Spic Harsh						
Pizz		Open Strings Option			Open Strings Option	
Pizz Sec						
Pizz Snap						
Col Legno						
Grace	Slow, Fast Up / Down Half / Whole Tone		Slow Up / Down Half / Whole Tone	Slow Up / Down Half / Whole Tone		
Grace Zigane	Up / Down Half / Whole Tone, Minor / Major 3rd		Up / Down Half / Whole Tone, Minor / Major 3rd	Up / Down Half / Whole Tone, Minor / Major 3rd		
Gliss	G, D, A, E		C, G, D, A	C, G, D, A		Automatic (max 1 Octave)

Articulation	Violin 1	Violin 2 *	Viola	Cello 1	Cello 2 *	Bass
Gliss Octa	Slow, Fast Up / Down		Slow, Fast Up / Down	Slow, Fast Up / Down		Slow, Fast Up / Down
Gliss Harm Nat	Up / Down		Up / Down	Up / Down		Up / Down
Trem	Regular, Fast Attack Note / Cut Release	Open Strings Option	Regular, Fast Attack Note / Cut Release	Regular, Fast Attack Note / Cut Release	Open Strings Option	Regular, Fast Attack Note / Cut Release
Trem Ponticello	Regular, Fast Attack Note / Cut Release		Regular, Fast Attack Note / Cut Release	Regular, Fast Attack Note / Cut Release		Regular, Fast Attack Note / Cut Release
Trem Tasto	Regular, Fast Attack Note / Cut Release		Regular, Fast Attack Note / Cut Release	Regular, Fast Attack Note / Cut Release		Regular, Fast Attack Note / Cut Release
Trem XF	Regular, Fast Attack Note / Cut Release	Open Strings Option	Regular, Fast Attack Note / Cut Release	Regular, Fast Attack Note / Cut Release	Open Strings Option	Regular, Fast Attack Note / Cut Release
Trem Dyn	1'5s, 3s Crescendo / Diminuendo		1'5s, 3s Crescendo / Diminuendo	1'5s, 3s Crescendo / Diminuendo		
Trills	Half / Whole Tone Note / Cut Release		Half / Whole Tone Note / Cut Release	Half / Whole Tone Note / Cut Release		Half / Whole Tone Note / Cut Release
Trills Prog	Crescendo / Diminuendo Half / Whole Tone Note / Cut Release		Crescendo / Diminuendo Half / Whole Tone Note / Cut Release	Crescendo / Diminuendo Half / Whole Tone Note / Cut Release		
Trills Dyn	Crescendo / Diminuendo Half / Whole Tone		Crescendo / Diminuendo Half / Whole Tone	Crescendo / Diminuendo Half / Whole Tone		Crescendo / Diminuendo Half / Whole Tone
Trills Prog Dyn	Crescendo / Diminuendo Half / Whole Tone		Crescendo / Diminuendo Half / Whole Tone	Crescendo / Diminuendo Half / Whole Tone		
Ricochet	150, 160, 170, 180, 190, 210 Note / Cut Release		150, 160, 170, 180, 190, 210 Note / Cut Release	150, 160, 170, 180, 190, 210 Note / Cut Release		
Ricochet 3 Rep						
Ricochet Prog	Accelerado, Ritardando					
Rep NV Leg		Slow Open Strings Option			Slow Open Strings Option	
Rep VB Leg XF		Slow Open Strings Option			Slow Open Strings Option	
Rep VB Leg	Slow, Fast 5, 5 Dynamic Layers	Slow Open Strings Option	Slow, Fast 5, 5 Dynamic Layers	Slow, Fast 5, 5 Dynamic Layers	Slow Open Strings Option	Slow, Fast 5, 5 Dynamic Layers
Rep Portato	Slow, Medium, Fast 5, 5, 9 Dynamic Layers	Fast Open Strings Option	Fast 9 Dynamic Layers	Fast 9 Dynamic Layers	Fast Open Strings Option	Fast 9 Dynamic Layers
Rep Stac	9 Dynamic Layers	Open Strings Option	9 Dynamic Layers	9 Dynamic Layers	Open Strings Option	9 Dynamic Layers
Rep Spic	9 Dynamic Layers		9 Dynamic Layers	9 Dynamic Layers		9 Dynamic Layers
Rep Spic Harsh	9 Dynamic Layers		? Dynamic Layers	9 Dynamic Layers		9 Dynamic Layers
Rep No BC	? Dynamic Layers					
Rep Fast Long	150, 160, 170, 180, 190 Note / Cut Release	140, 150, 160, 170, 180, 200 Note / Cut Release Open Strings Option	150, 160, 170, 180, 190 Note / Cut Release	150, 160, 170, 180, 190 Note / Cut Release	140, 150, 160, 170, 180, 200 Note / Cut Release Open Strings Option	150, 160, 170, 180, 190 Note / Cut Release
Rep Fast Short	150, 160, 170, 180, 190, 200 Note / Cut Release		150, 160, 170, 180, 190 Note / Cut Release	140, 150, 160, 170, 180 Note / Cut Release		
Rep Fast Short Dyn	150, 160, 170, 180, 190, 200 Crescendo / Diminuendo Note / Cut Release		150, 160, 170, 180, 190 Note / Cut Release	140, 150, 160, 170, 180 Note / Cut Release		
Scale Runs Legato	Half / Whole Tone, Minor / Major Up / Down					
Scale Runs Spiccato	Half / Whole Tone, Minor / Major Up / Down					