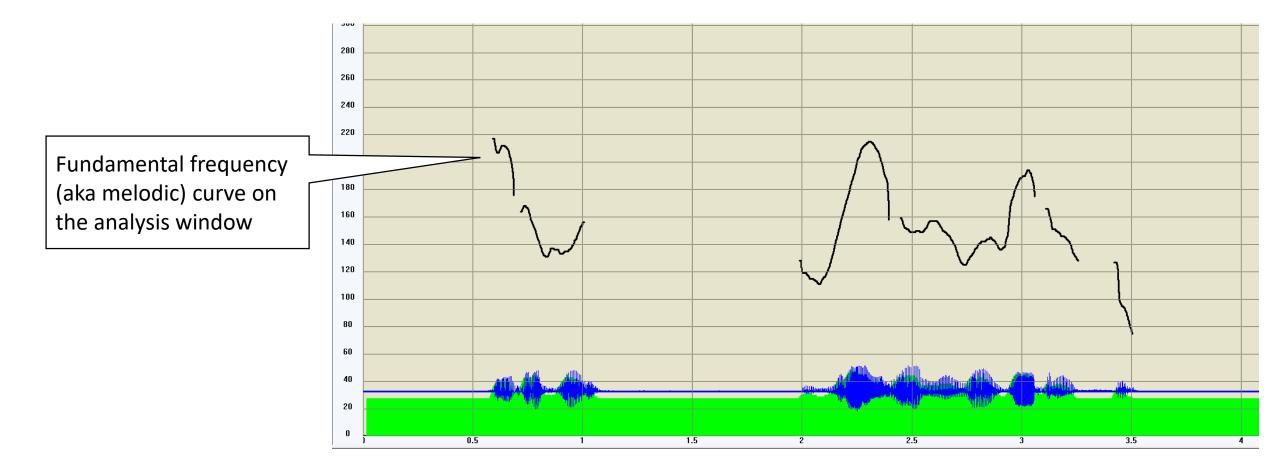
Pitch Instruments Inc.

Prosodic morphing with WinPitchW10

Philippe Martin

Object: modify prosodic parameters with PSOLA synthesis



Sequence of operations

1. Load the original sentence

Load speech

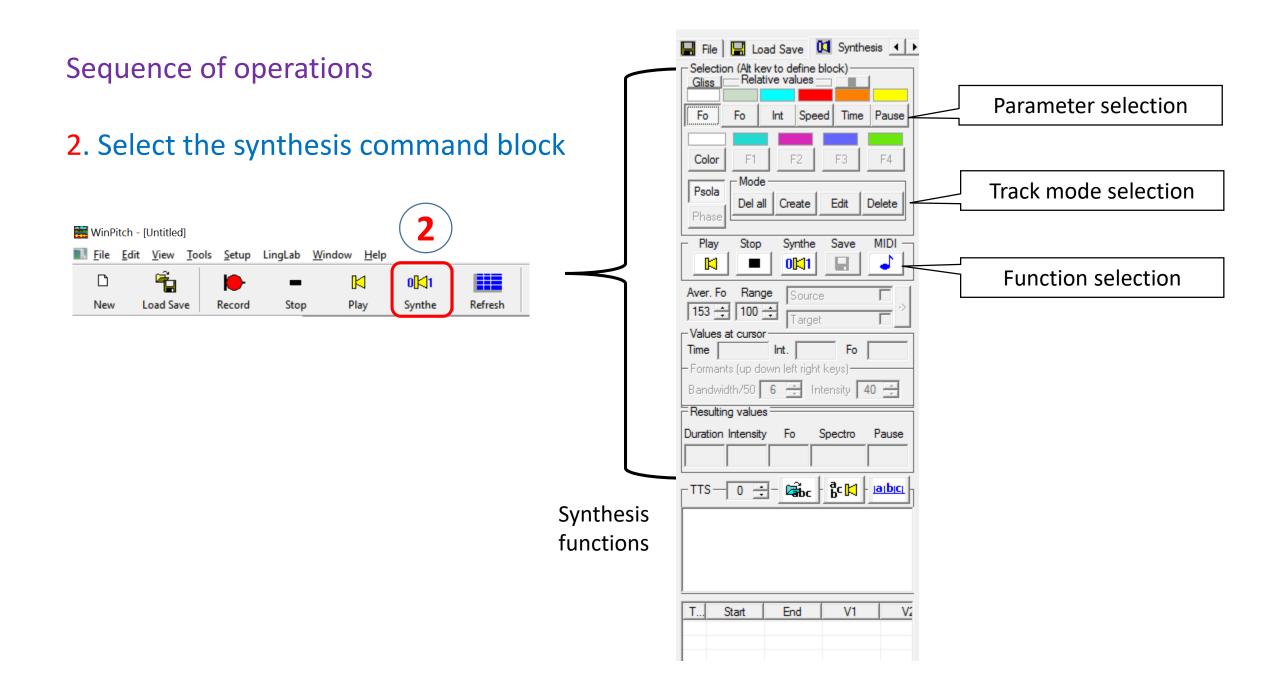
file functions

_						
1	D Coad Save Record	s				
	📕 File 🔛 Load Save 🚺 Synthesis 🔳	Þ				
	Sound (*.wav) Concat. Mk Stereo Load Save sel Save Save as					
	Alignment & Data (*.wp2) — Add to layer — Load Save sel Save Save as					
	Multimedia (any supported format) Both Left Right Channel Unlck fmt 22050 Hz, 16 bits, Mono Lock fmt 22050 Hz, 16 bits, Mono Vertical distribution of the second distribution of					
	Current file name Total duration Start at 0 s					
	✓ Load Reload Duration 30 s					
	Praat ─ ORF [pho/syl] C IPA Load Save C IPA Load Save C IPA Load Save C IPA C	3_				

Available formats:

wav

wp2 Multimedia (mp3, mp4, aiff, flv, snd, etc.) TextGrid (Praat) ALG trs (Transcriber) Necte

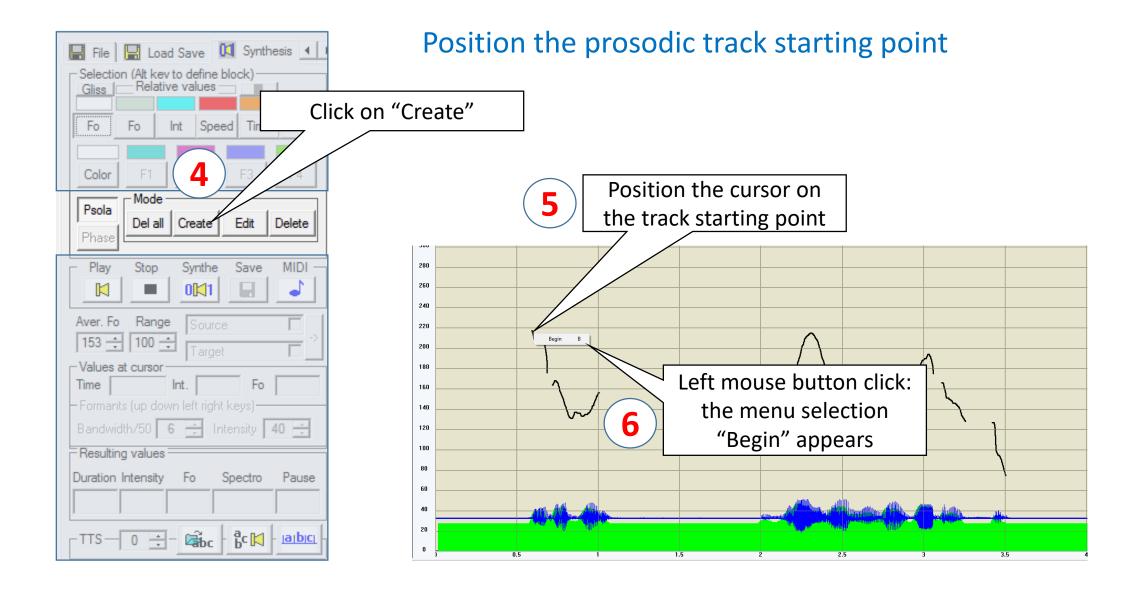




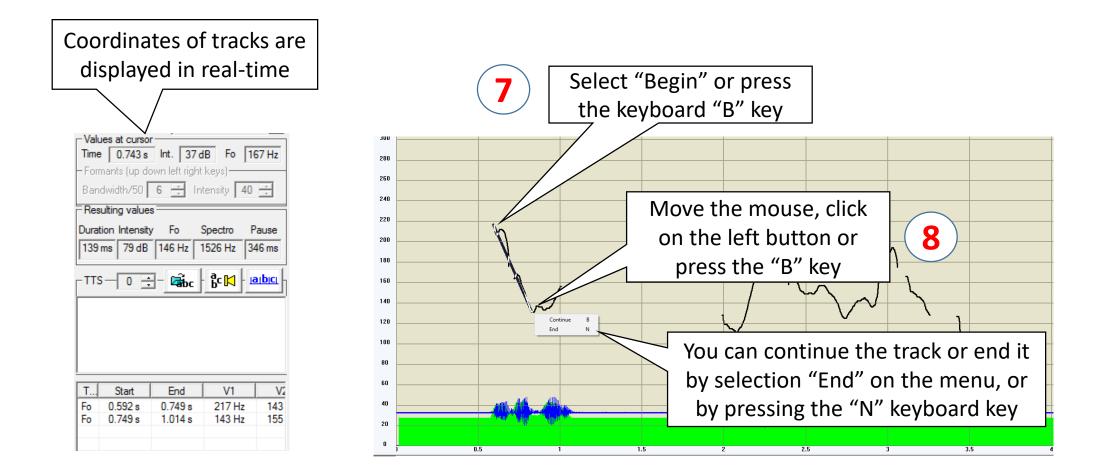
🔚 File 🔛 Load Save 🚺 Synthesis 🔳								
Selection (Alt kev to define block)								
Fo	Fo	Int	Spee	d Time	e Pause			
Color	F1		F2	F3	F4			
Psola Phase	Mode	e —						
	Del a	II Cre	eate	Edit	Delete			
Play	Stop		nthe	Save	MIDI -			
			K 1		-			
Aver. Fo Range Source								
153 ÷ 100 ÷ Target →								
Values at cursor								
Time Int. Fo Formants (up down left right keys)								
Bandwidth/50 6 + Intensity 40 +								
Resulting values								
Duration Intensity Fo Spectro Pause								
1		_			1 . 1			
TTS-	0 -	30	abc	^b c ⊠	- <u>iaibici</u> -			

3. Select the prosodic parameter

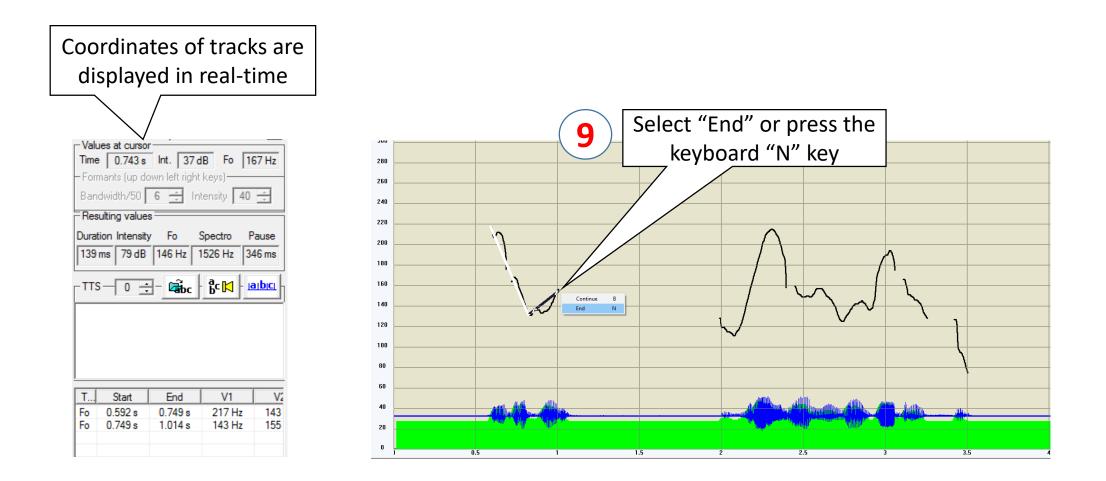
Fo absolute fundamental frequency Fo relative fundamental frequency Int Relative Intensity Speed Playback relative speed Time Absolute duration Pause Pause insertion

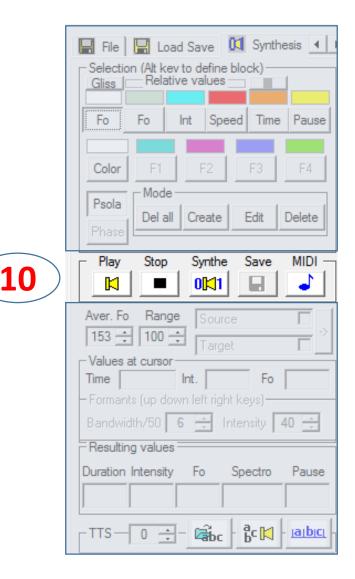


Continue the prosodic track



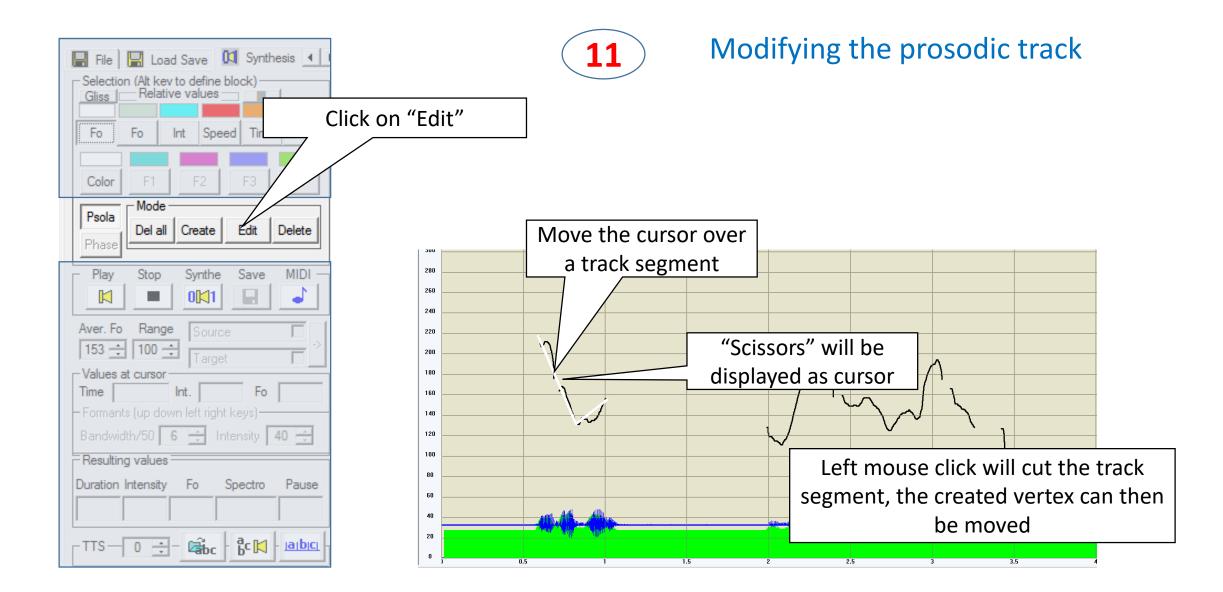
Ending the prosodic track



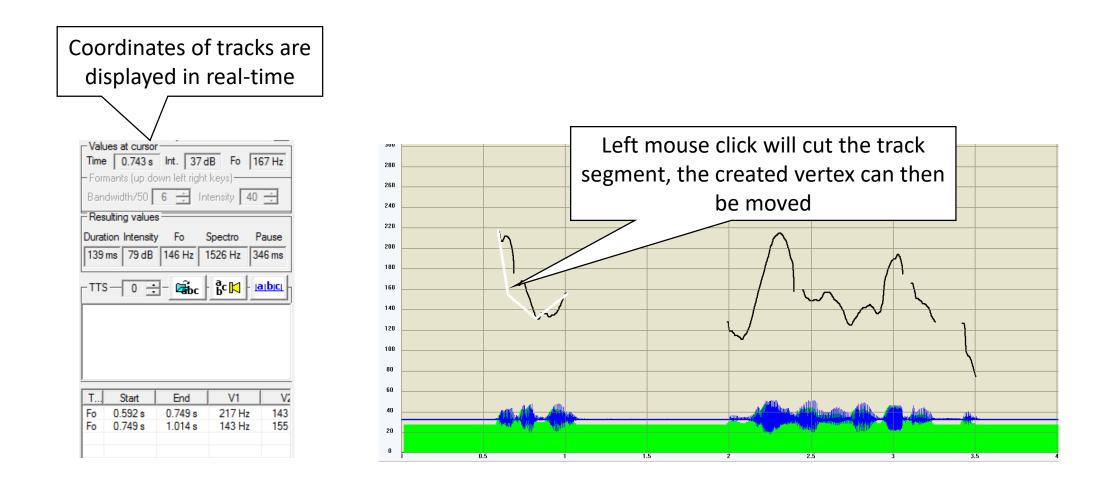


10. Playback of the prosodically morphed speech

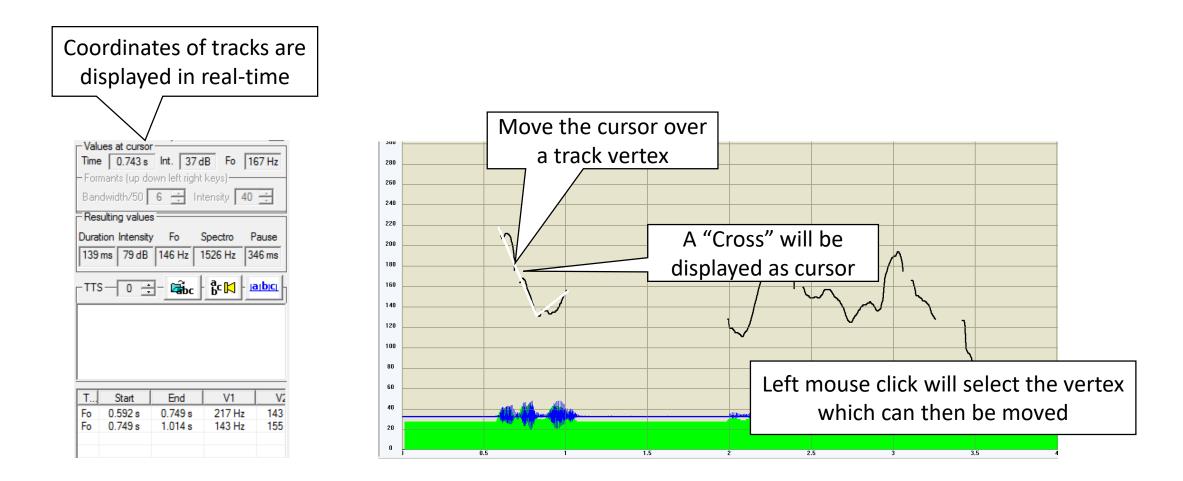
Play Playback the original speech Stop Stop playback Synthe Playback the synthesized speech Save Save the synthesized speech MIDI Goto to MIDI functions



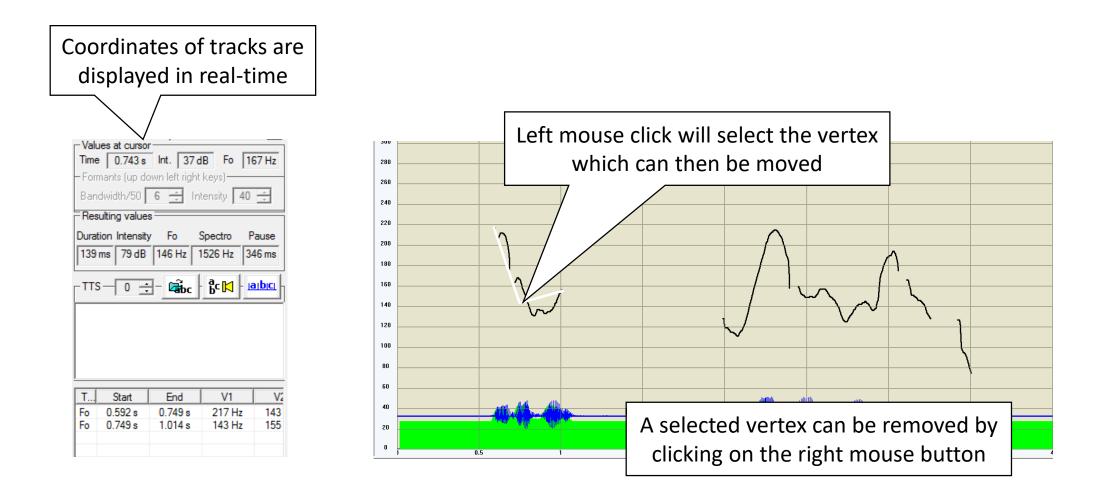


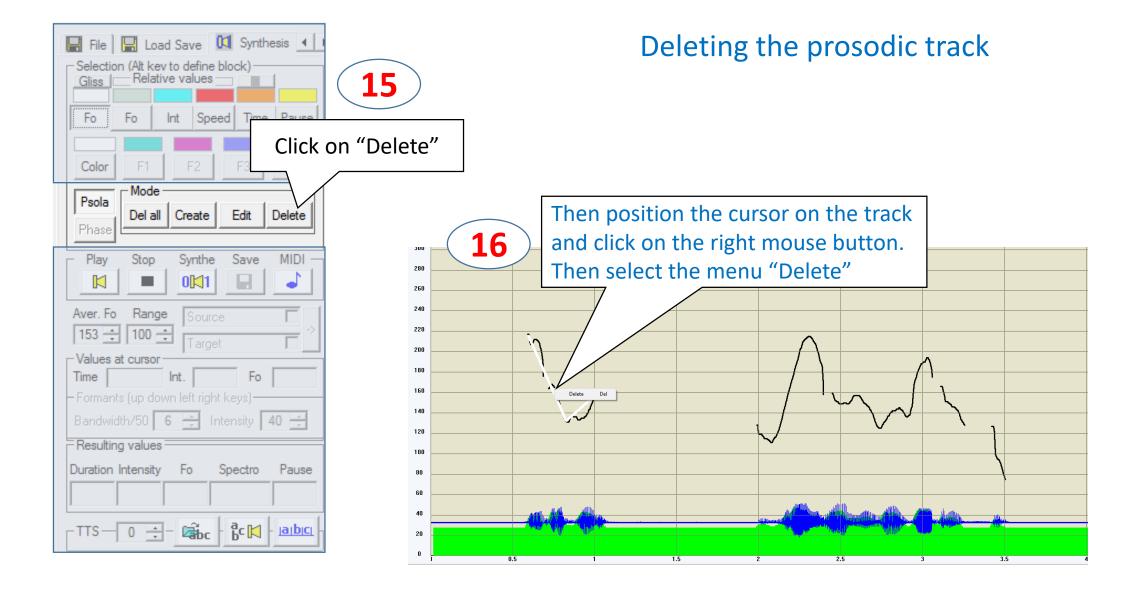












Sequence of operations...

Morphed speech can be saved clicking on the "Save" button

All tracks are saved in wp2 format using the "Save" button in the "Load Save" command box

