Script Syntax in FonaDyn v3.1.0

FonaDyn 3.1.0 script syntax

Everything in a FonaDyn script file is case sensitive.

Command Argument				
//	Anything after a double slash is a comment.			
	Always use forward slashes / in path names.			
LOAD "full/path/to/file.csv"	to/file.csv" Load a *_cEGG.csv, *_cPhon.csv, or *_VRP.csv file (include the "quotes" and the file type extension)			
LOAD <str-expr></str-expr>	As above; <str-expr> is any SC code that evaluates to the pathname of an existing file</str-expr>			
HOLD	Pause the reading of the script and wait for the user to press START			
	When the input file has been processed, STOP analysing and continue reading the script			
RUN	Pause the reading of the script, and START the analysis			
	When the input file has been processed, STOP analysing and continue reading the script			
SAVE "full/path/to/file_ <type>.csv"</type>	Save the NOW map to a *_VRP.csv file (include the "quotes" and the file type extension)			
	If the file name ends in *_S_VRP.csv, the NOW map is smoothed before it is saved.			
	or, save the cluster centroids to a *_cEGG.csv or *_cPhon.csv file. Include the "quotes" and the file type extension.			
	The <type> ending of the file name controls which data to save.</type>			
SAVE <str-expr></str-expr>	As above; <str-expr> is any SC code that evaluates to a valid pathname of a file</str-expr>			
EVAL <single-line expression=""></single-line>	<expression> is any SC code that evaluates correctly in the command window (Ctrl-E) when FonaDyn is running.</expression>			
	This can be used to get or set global variables (az, ~). Line breaks are not allowed.			
	Use EVAL only if you know what you are doing.			

(no space before the .period)

Class	Method	=value of type	Meaning, example
Input and outp	ut		
io	.filePathInput	"string"	The file to analyse: "drive:/full/pathname/to/the/input/file/<*>_Voice_EGG.wav"
io	.keepInputName	false true	false: create a time-stamped filename for output files;
			true: keep the <*> part of the input file name
io	.keepData	false true	false: clear the current voice map and the cluster data before starting; true: don't
io	.enabledWriteLog	false true	true: while running, save a _Log.aiff file in the Output directory
io	.writeLogFrameRate	number: 0 50 100 300	0: log on every EGG cycle; else log at one of the rates given, in Hz.
io	.arrayRecordInputs	[inputVoice , inputEGG ,]	Specifies from which inputs to record to "<*>_Voice_EGG.wav"
io	.arrayRecordExtraInputs	[n,]	Specifies from which inputs to record to "<*>_Extra.wav"
io	.rateExtraInputs	1500	Slow sampling rate for the Extra channels, in Hz. Use only integer divisors of 44100
io	.enabledEcho	false true	True if audio should be played back on the speakers
io	.enabledEGGlisten	false true	True to play the EGG signal on the second output; and to display it in the signal window

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Cycle-rate sample entropy estimation					
sampen .amplitudeWindowSize	120				
sampen .amplitudeHarmonics	120				
sampen .amplitudeSequenceLength	120				
sampen .amplitudeTolerance	0.010				
sampen .phaseWindowSize	120				
sampen .phaseHarmonics	120				
sampen .phaseSequenceLength	120				
sampen .phaseTolerance	0.010				
The check boxes that turn on time plots					
sampen .bDrawQci	false true	true: checks the corresponding check box in the Plots panel; false: unchecks			
sampen .bDrawDEGGmax	false true	(same as Qdelta)			
sampen .bDrawCPP	false true				
sampen .bDrawSpecBal	false true				
sampen .bDrawSampEn	false true				
sampen .isVisible	false true	hide/show the Plots panel			
EGG clustering settings					
cluster .nHarmonics	220				
cluster .nClusters	220				
cluster .initialize	false true	false: Relearn; true: Pre-learned			
cluster .learn	false true	false: classify; true: perform clustering			
cluster .reset	false true	false: disallow resetting the clusters while running			
cluster .autoReset	false true	true: automatically reset the clustering after first onset of phonation			
cluster .iFramesToReset	integer (default=5)	# of frames (at 24 Hz) to wait after phonation onset before resetting the cluster data			
cluster .suppressGibbs	false true	true: hide the ripple in resynthesized EGG wave shapes			
cluster .isVisible	false true	hide/show the EGG clusters panel			
Phonation type clustering settings					
clusterPhon .nClusters	210				
clusterPhon .initialize	false true	false: Relearn; true: Pre-learned			
clusterPhon .learn	false true	false: classify; true: perform clustering			
clusterPhon .reset	false true	false: disallow resetting the clusters while running			
clusterPhon .autoReset	false true	true: automatically reset the clustering after first onset of phonation			
clusterPhon .iFramesToReset	integer (default=5)	# of frames (at 24 Hz) to wait after phonation onset before resetting the cluster data			
clusterPhon .isVisible	false true	hide/show the phonation clusters panel			
Other phonation-type settings	Other phonation-type settings (metrics, labels, ranges) are set by loading a prepared _cPhon.csv file				

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Sundry			
vrp	.clarityThreshold	0.0 1.0	default: 0.96, maybe reduce to 0.9 or less for running speech or pathological voices
vrp	.bHzGrid	false true	true: plot voice map x axes in Hz (default: MIDI semitones)
vrp	.isVisible	false true	hide/show the voice map(s) panel
vrp	.wantsContextSave	false true	enable auto-saving of context with Save Map
scope	.duration	1.0 10.0	seconds on the time axis of plots
scope	.normalize	false true	amplitude-normalize the moving EGG scope and the clustered EGG waveforms
scope	.noiseThreshold	0.0 5.0	set a spectral threshold for suppressing wide-band noise in the EGG
scope	.isVisible	false true	hide/show the moving EGG scope
general	.output_directory	"/full/path"	where to store recordings and other output files