Script Syntax in FonaDyn v3.1.2

FonaDyn 3.1.2 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"	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 will be 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	Notes
Input and output			
io .filePathInput	"string"	The file to analyse: "drive:/full/pathname/to/the/input/file/<*>_Voice_EGG.wav"	(1)
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; otherwise 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 samp	le entropy estimation			
sampen .	.amplitudeWindowSize	120		
sampen .	.amplitude Harmonics	120		(2)
sampen .	.amplitudeSequenceLength	120		
sampen .	.amplitudeTolerance	0.010		
sampen .	.phaseWindowSize	120		
sampen .	.phaseHarmonics	120		(2)
sampen .	.phaseSequenceLength	120		
sampen .	.phaseTolerance	0.010		
The check boxes	s 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 s	settings			
cluster .	.nHarmonics	220		(3)
cluster .	.nClusters	220		(3)
cluster .	.initialize	false true	false: Relearn; true: Pre-learned	(3)
cluster .	.learn	false true	false: classify; true: perform clustering	(3)
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		(4)
clusterPhon .	.initialize	false true	false: Relearn; true: Pre-learned	(4)
clusterPhon .	.learn	false true	false: classify; true: perform clustering	(4)
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 (metrics, labels, ranges) are set	t 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
checkClusterFileMods("/full/path/to/*_VRP.csv")		Checks that the loaded _cEGG.csv and _cPhon.csv files are older than the given map file; warns if not

NOTES

- (1) In scripts, only one input signal file at a time can be given batch mode can not be invoked from here
- (2) This number must not exceed cluster.nHarmonics
- (3) These values are also set when you LOAD a _cEGG.csv file
- (4) These values are also set when you LOAD a _cPhon.csv file