

Nyno 1.2

Mac



User Manual 2nd edition

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Welcome!

Toys For Theater introduces Nyno 1.2, video broadcasting application for performing arts.

We wanted Nyno 1.2 to be simple and efficient as a stand-alone application, but also open to external control such as MIDI and Art-Net.

The Mac and its inertial trackpad and Syphon capabilities stands out as the ideal platform for our application. Some features of Nyno 1.2 are specific for theater, such as the indexation of background colors on major makers filters or the supertitles generator.

Everyone though should benefit from its features in their own environment.

Also, we wanted Nyno 1.2 to be affordable, so as to make quality video broadcasting accessible for all.

Enjoy your reading.

Nicolas Barraud & Ph.Montémont

System requirements:

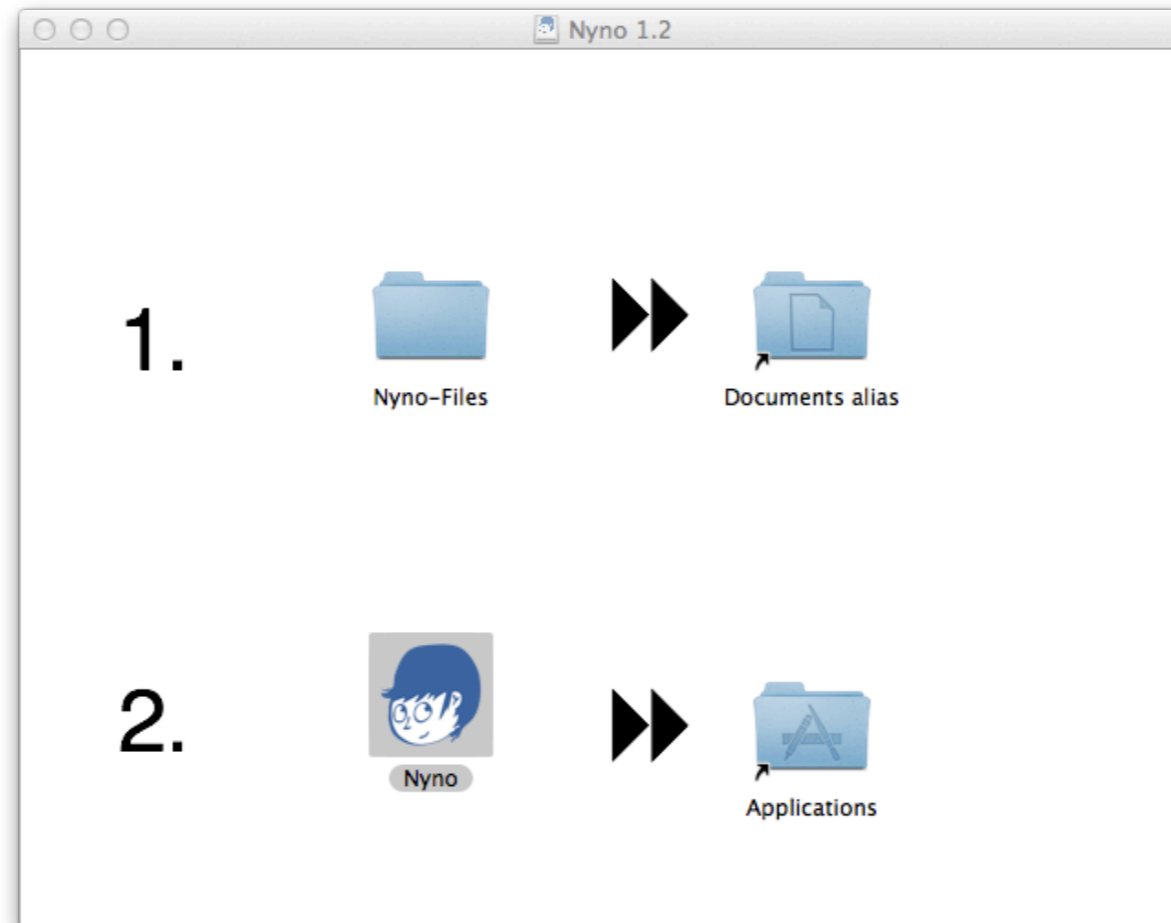
Apple Macintosh with Intel Processor. Models older than 2010 should be avoided.

Mac OS X Snow Leopard (10.6.x) at least.

For real time video, we recommand the fastest processors, the maximum RAM available and fast hard drives (7,200 rpm or SSD).

Installation

Double-click on the .dmg file, drag the Nyno-Files folder onto « Documents alias» and Nyno.app onto « Applications (alias)». The Nyno-Files folder will be installed into the Documents folder of active session. Nyno.app will be installed into the Applications folder.



Please note that you will have to install the Nyno-Files folder once. When authorized, please put a copy of this folder in a safe place.

Introduction

Above: Player A, Thumbnails ("Vignettes") & Player B

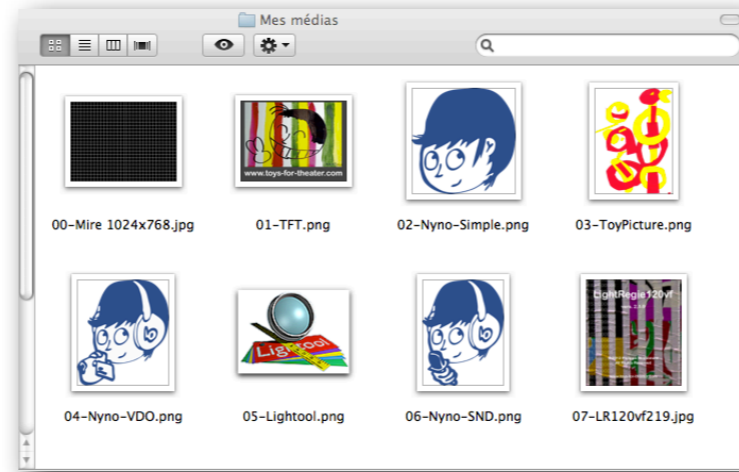


Below: Title Generator, Cyclorama, Masters and Output



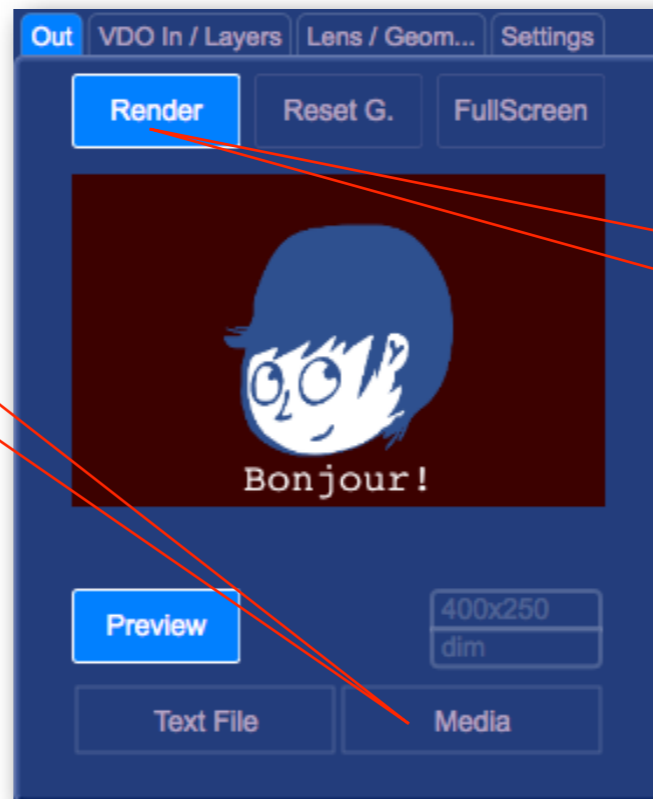
Getting Started

Create a folder containing all necessary media, i.e. images and sounds.



Files are ordered alphabetically in default settings. To bypass this, just add a number at the beginning of the name of every element (here: 00, 01...08). 64 elements maximum. Then:

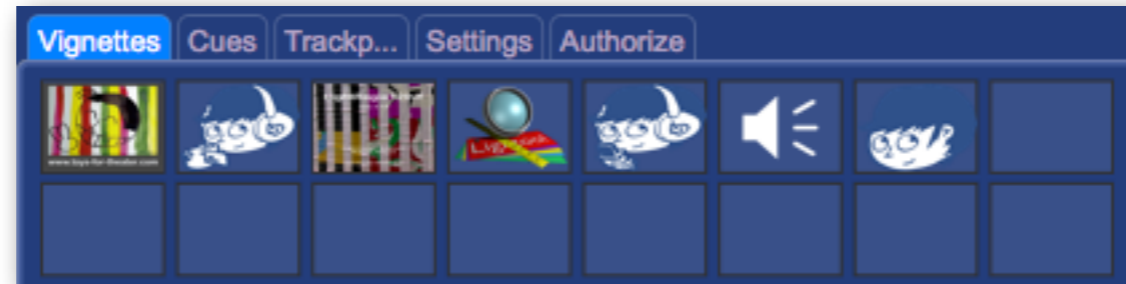
❶ Browse toward Media folder...



❷ Render is stopped in order to accelerate the uploading of Thumbnails. You will have to click here at the end of the upload process.

Then...

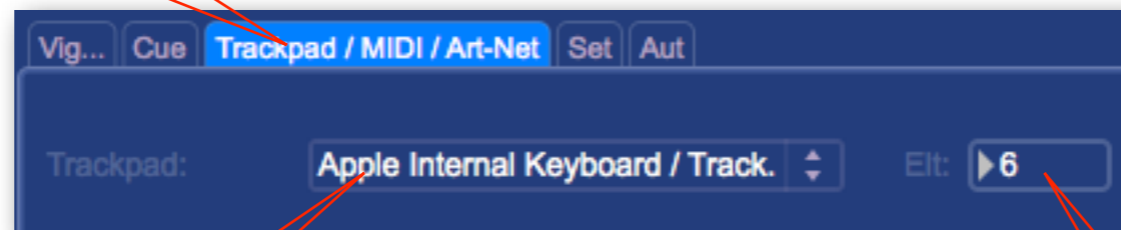
Thumbnails ("Vignettes") are updated. Click on a Thumbnail to feed Player A. In Nyno 1.2, ^-click to feed player B



You might have to configure the Trackpad data reception:

- On a MacBook Pro (Mac OSX Mountain Lion), choose "Apple Internal Keyboard/Trackpad" and element #6.
- On a MacBook Pro (Mac OSX Snow Leopard), choose "Apple Internal Keyboard/Trackpad 2" and element #6.
- On a MacBook, choose "Trackpad" and element #6.

① Trackpad tab



② Select the Trackpad

③ Element

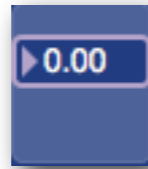
Et voilà!



Controllers

Nyno 1.2 features two sorts of controllers:

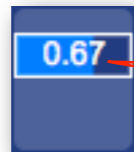
Jog Wheel:



Click-and-drag to the value to increase/decrease it.

The triangle becomes red or the box becomes white.

You may also click and then type a value directly from the pad. Press Tab (→) to deselect the Jog Wheel.

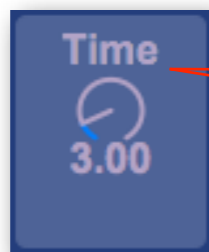


For this kind of Jog Wheel, please type ▲ et ▼ to increase and decrease values...

Fader:



Click-and-Drag within the Fader to increase/decrease the value.

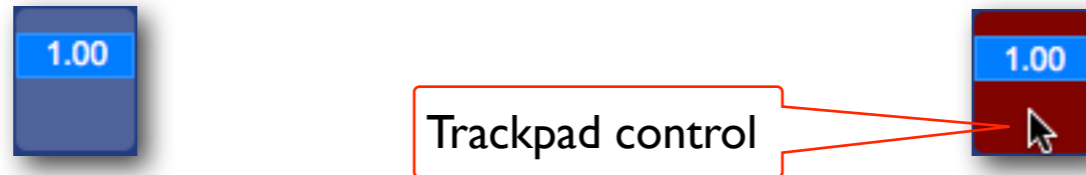


For this kind of fader, keys ▲ et ▼ increase and decrease the value. One may also click and then type a value directly from the pad. Press Tab (→) to deselect the Fader.

Controllers

All controllers can be managed through the Two Finger Trackpad, with or without inertia.

Place the pointer on the tactile zone, which becomes red to indicate that it's now commanded by the Trackpad.



If you press $\bar{\square}$ continuously, the tuning gets more precise.

If you click on the tactile zone, it becomes yellow and gives an initialization value. This is an easy way to put yourself back in position.



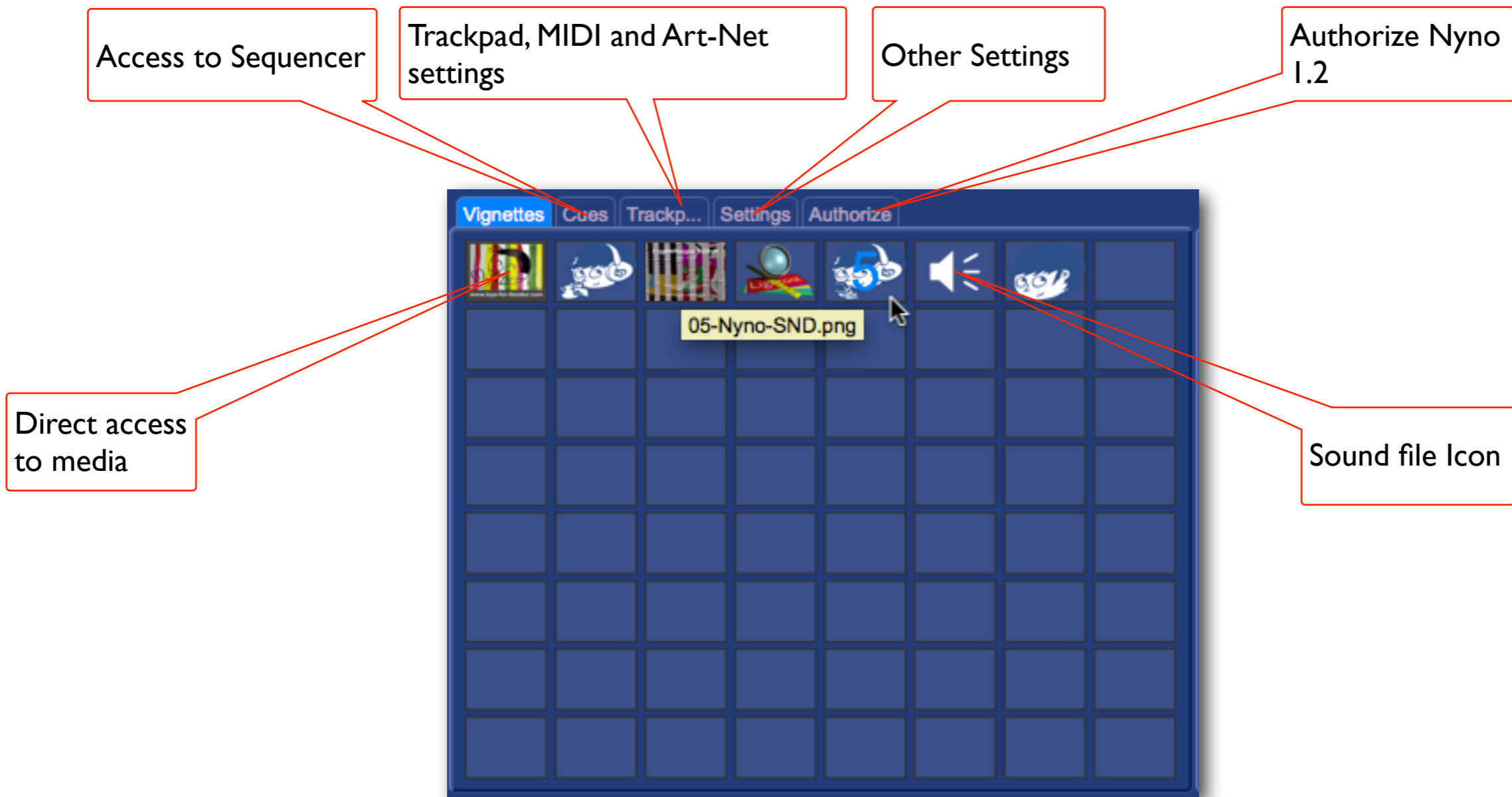
Controllers of players A, B have additional features:

If you press $\hat{\square}$, any command will apply to both players in same direction, no matter which player you were using.

If you press continuously $\hat{\square} + \hat{\square}$, any command will be active in both players in opposite directions. Fine tuning with $\bar{\square}$ also works with these keyboard shortcuts.

Thumbnails

Click on a thumbnail to load Player A, ^-click to load Player B. File names now appear under the pointer.



Every thumbnail shows the first image of the selected file. Sound files are identified by this icon: 

Thumbnails

This is where you interact with Nyno 1.2 using the Trackpad or external controllers.

The screenshot shows the 'Trackpad / MIDI / Art-Net' settings window in Nyno 1.2. The window has a dark blue background and several sections:

- Trackpad settings:** A dropdown menu set to 'Apple Internal Keyboard / Track.' and an 'Elt:' field with a value of '6'.
- MIDI / Art-Net In:** Four directional arrow buttons (↔, ←, ↔, ←) and a 'Refresh' button.
- Art-Net settings:** 'Art-Net Universe' set to '0' and 'Art-Net Start Address' set to '1'.
- MIDI settings:** 'MIDI In' set to 'nanoKONTROL SLIDER/KNOB' and 'MIDI Out' set to 'nanoKONTROL CTRL'. A 'Smooth' field is set to '2'.

Callouts point to various elements:

- 'Trackpad settings' points to the Trackpad dropdown.
- 'Art-Net settings' points to the Art-Net Universe and Start Address fields.
- 'MIDI settings' points to the MIDI In and Out dropdowns.
- 'Selection of the external controller:' points to the MIDI / Art-Net In buttons, with a list: - Off, - MIDI In (NanoKontrol), - Midi In & Out (BCF2000), - Art-Net In.
- 'Update MIDI Ins & Outs' points to the Refresh button.
- 'Smooth MIDI & Art-Net data' points to the Smooth field.

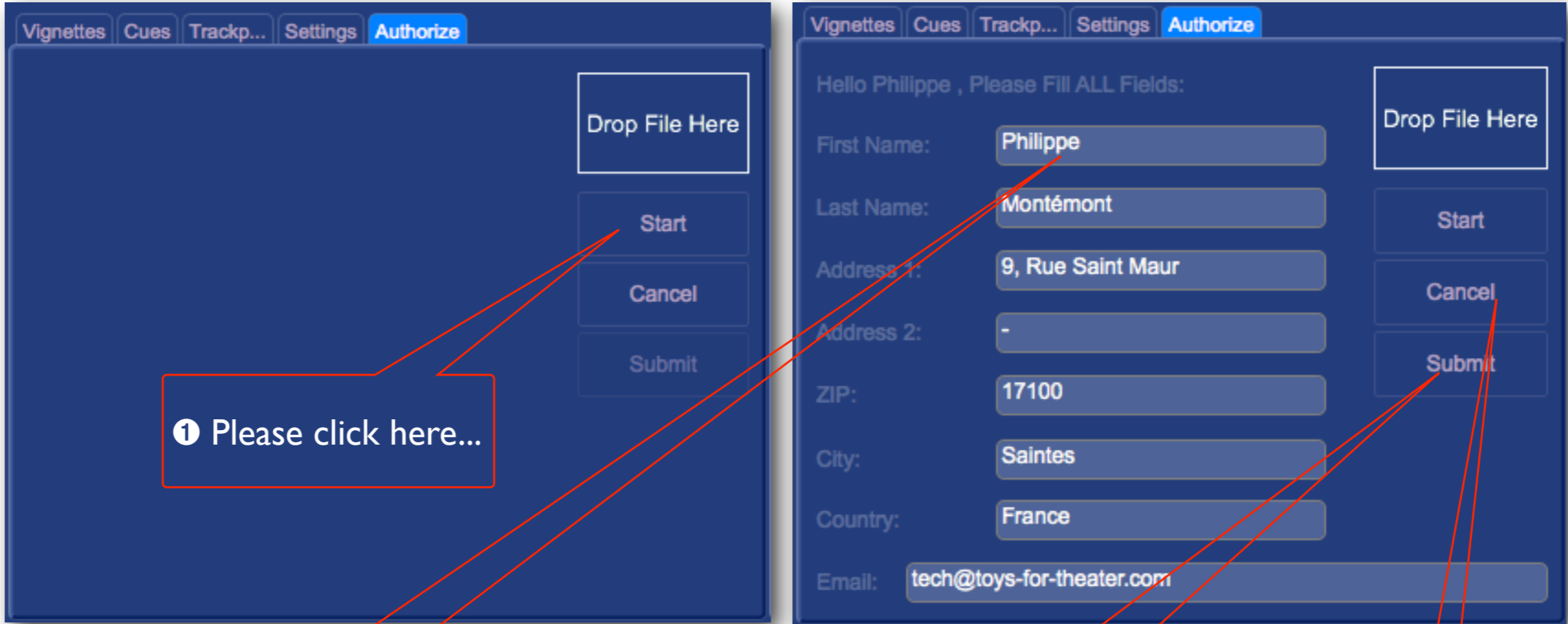
You will find the HiTester utility in the "Ajouts" folder located into Nyno-Files. It will make the identification of your Mac's Trackpad features easier.

MIDI controllers must be connected to the Mac and started before the launching of the application. You will find in the "Ajouts" folder in the download archive the configuration files of Korg NanoKontrol 1&2 and a SysEx for Behringer's BCF2000.

Smooth allows interpolation between integer values of incoming MIDI or DMX512 streams. This function should be tested before use.

Authorizing Nyno 1.2.

Once you've bought a licence, press Start to initiate the authorization.

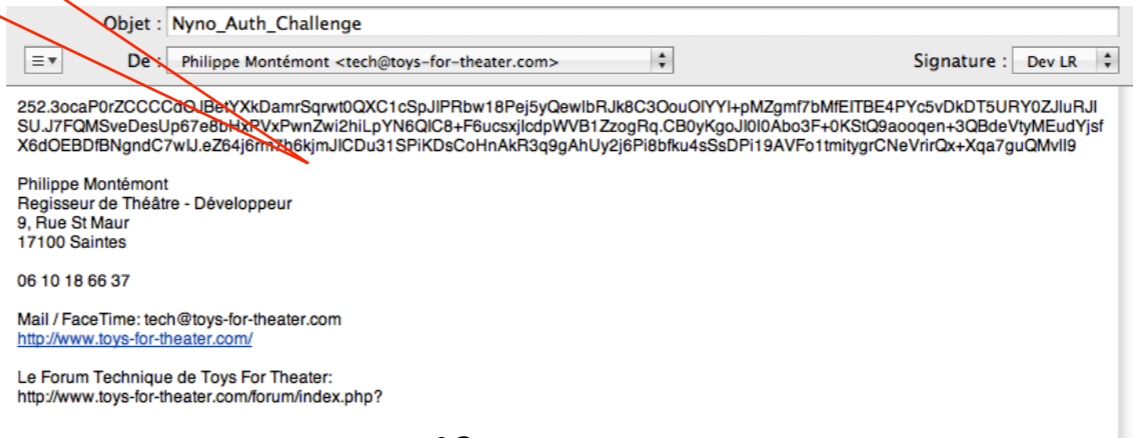


2 Fill the boxes, use → to navigate...

3 Click Submit...

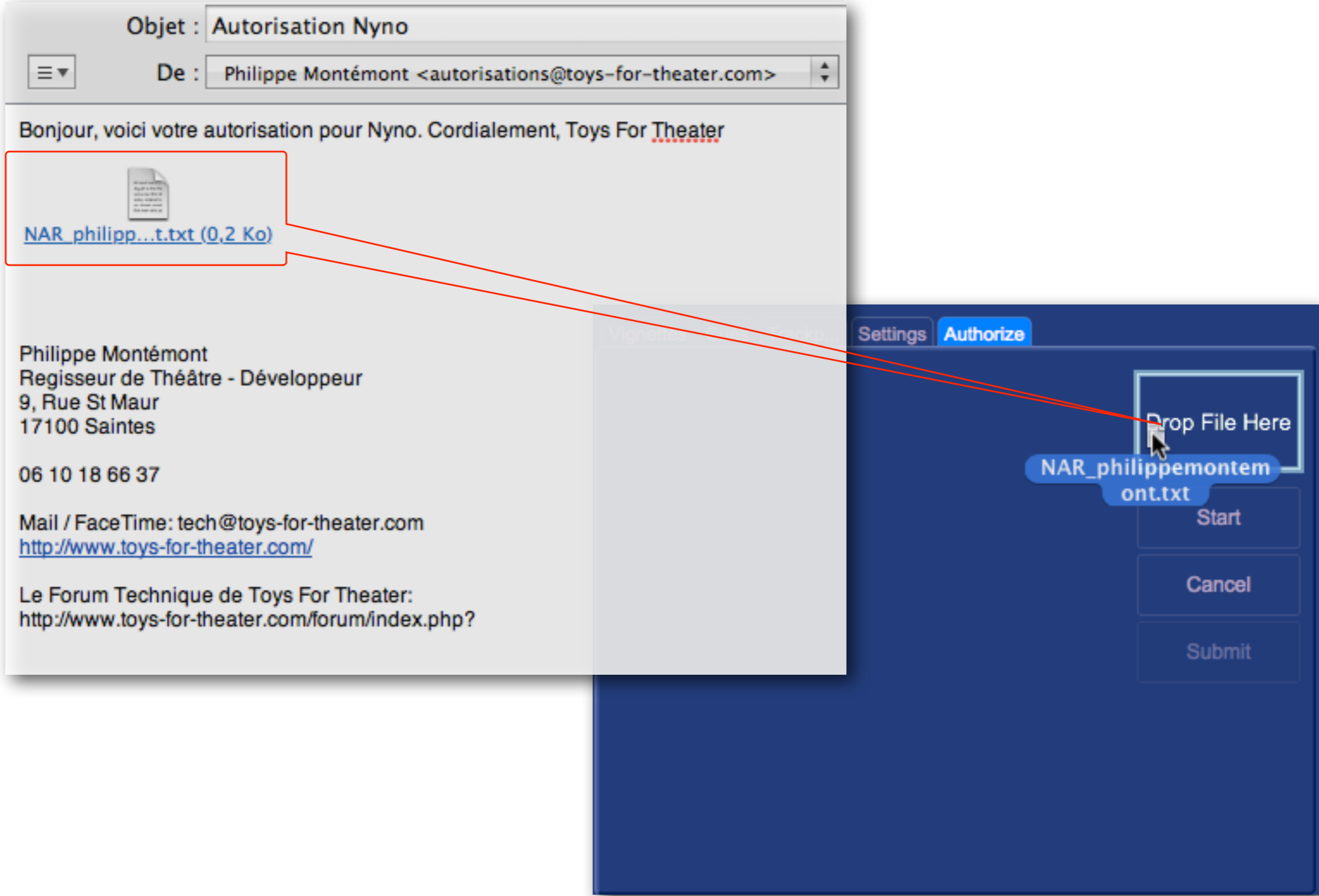
4 Send the automatically generated e-mail

Cancel here...



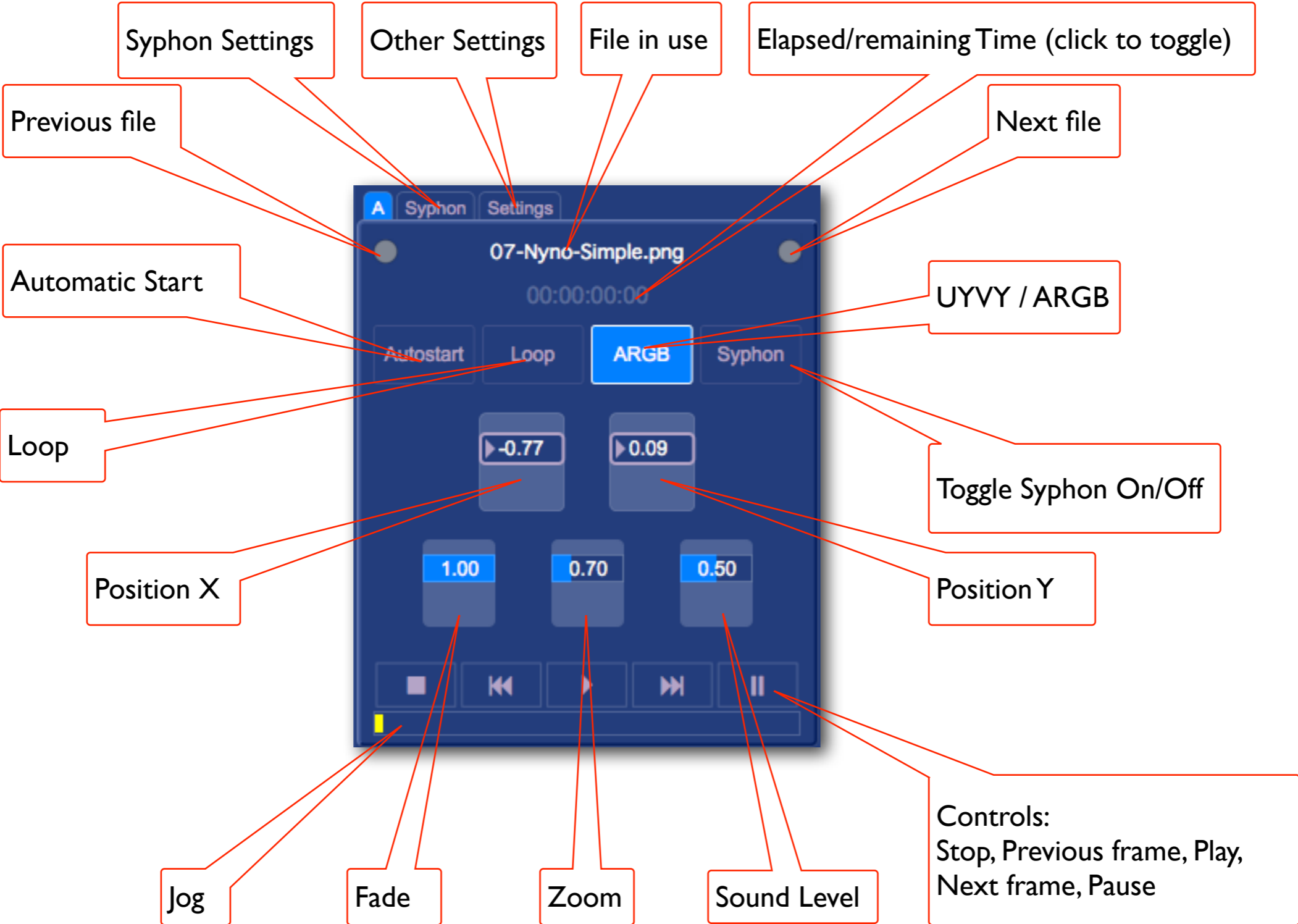
Authorizing Nyno 1.2.

When you receive the answer file (store it in a safe place)...



Players A & B

By default, A is rendered in front of B. They work exactly the same way.

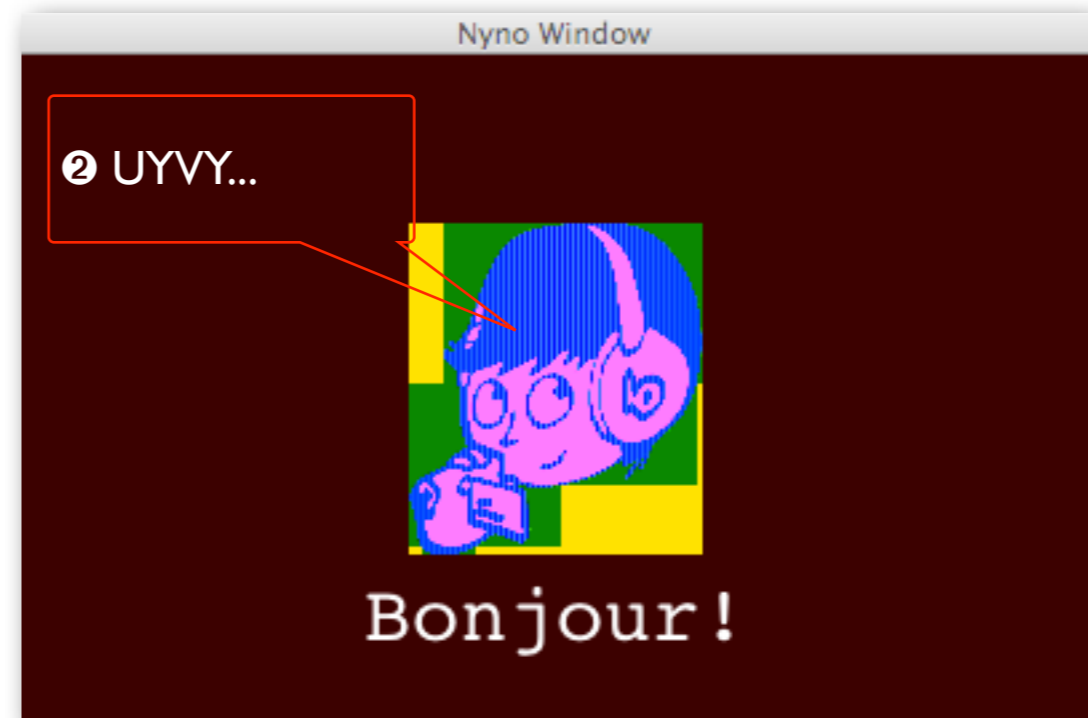
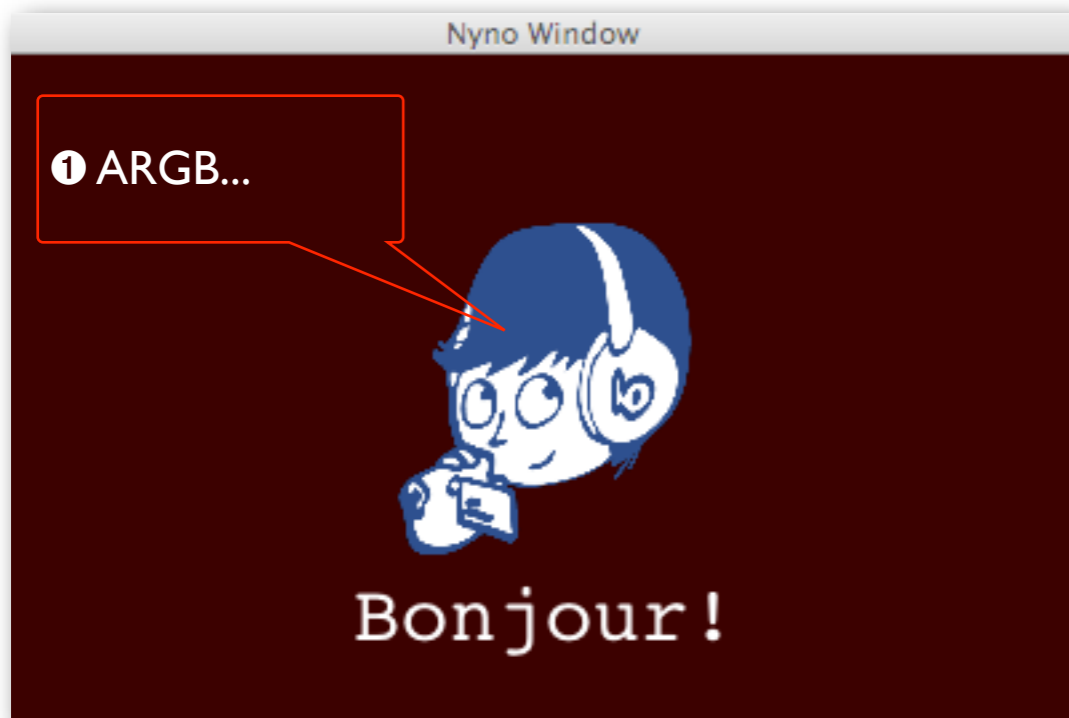


Players A & B

Click on the time counter to change from elapsed time to remaining time.

Zoom operates from 0. to 2.55. 1.00 is the native size of the image.

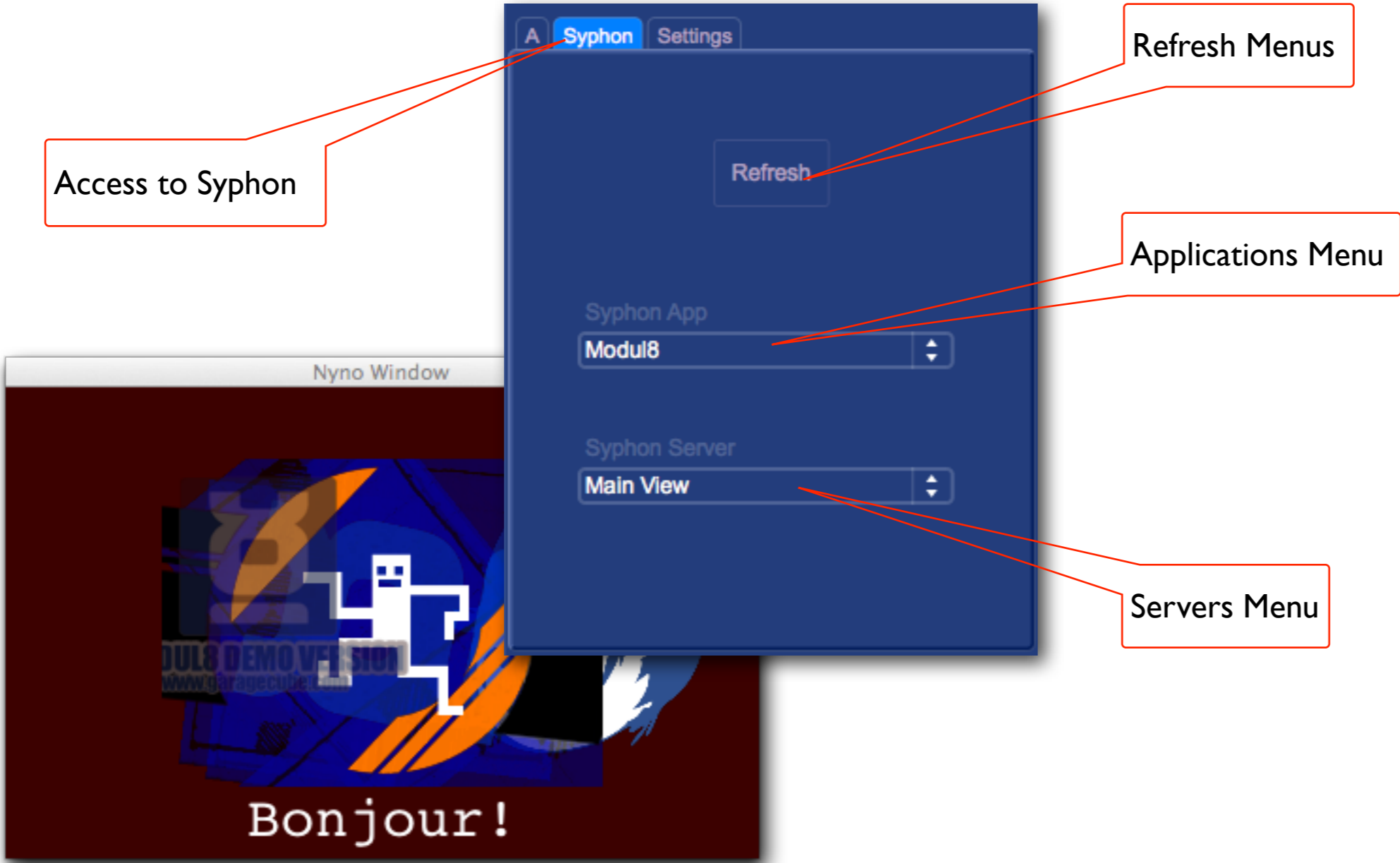
You should rather use UYVY mode which is notably faster for playing HD media. For media with a transparent background, you should use ARGB for a correct management of the Alpha layer:



Players A & B

Local Apps using Syphon* may send or receive video streams directly from the Graphic Card & Open GL. Emitters are called « Servers», receptors are called « Clients».

Players A & B are clients. Nyno's embarked digitizer is a server. Since the same application may contain several servers, one should inform Nyno 1.2 about chosen App & server:

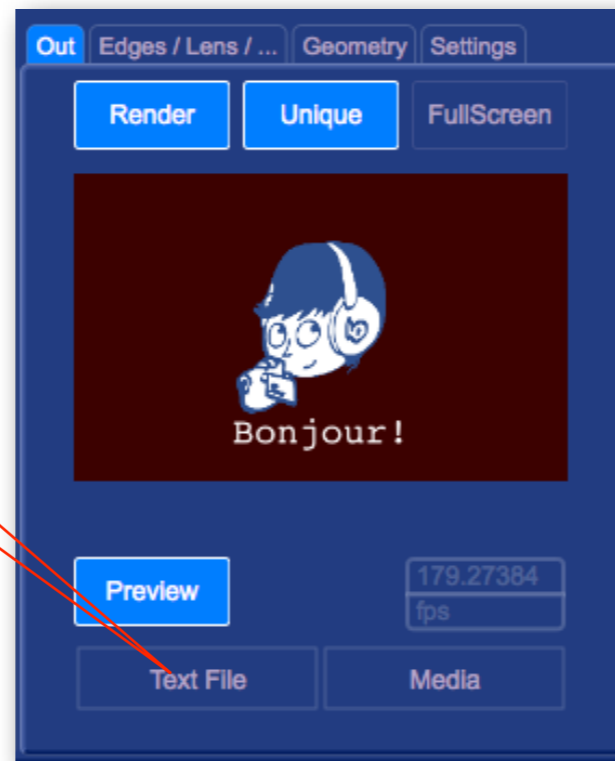


* Syphon.framework, test suite, and initial implementations are written by [Tom Butterworth](#) and [Anton Marini](#). Licensed under a [Simplified BSD software license](#).

Title generator

The Title generator is always at the front.

Browse to your text file



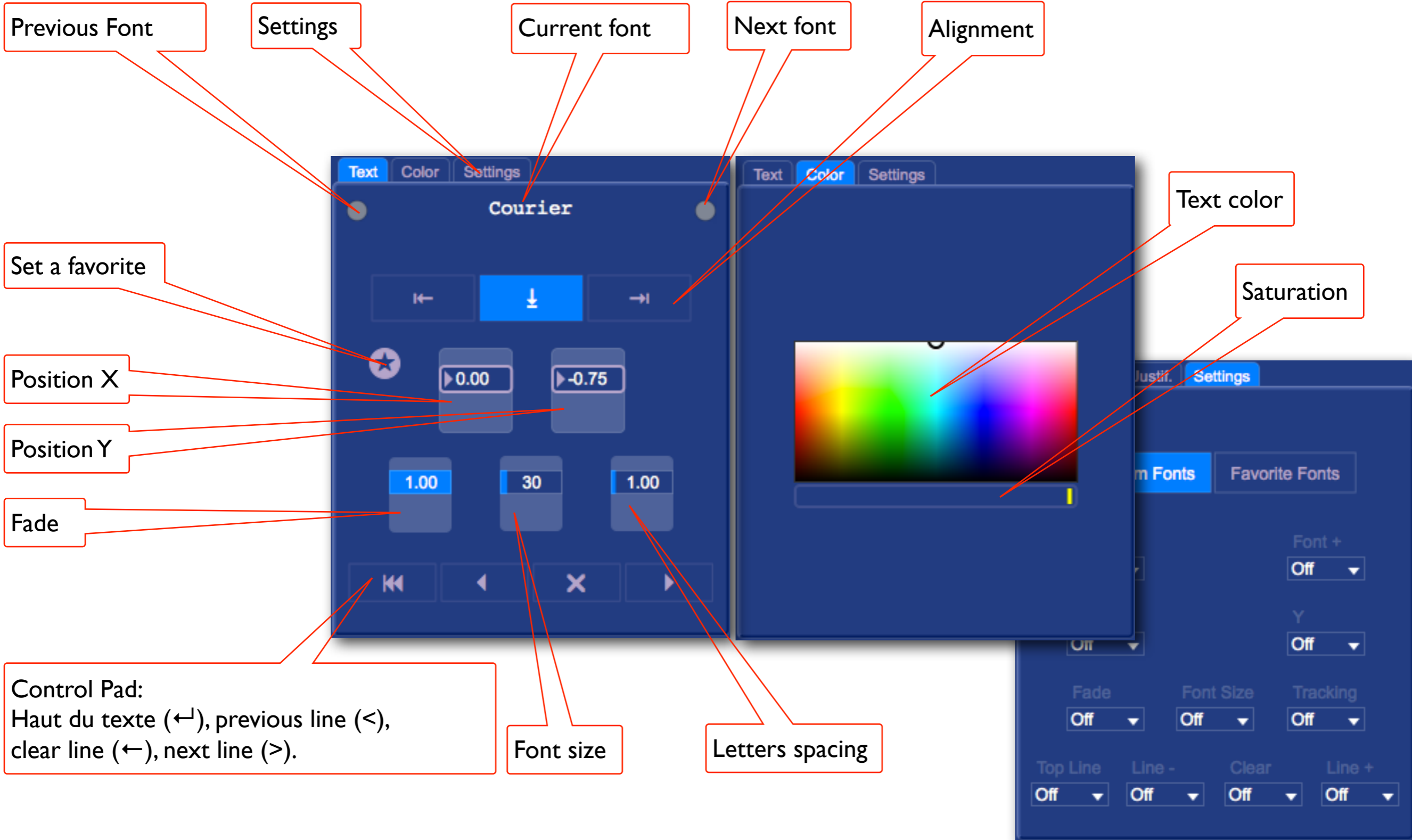
How to make your title file:

The file should be a simple text: ".txt"

You might have to modify it as the "," and ";" signs cannot be read directly. You will have to put a backslash before them: "\", and "\";

A word processor will easily search and replace all these elements.

Title generator



Control Pad:
Haut du texte (↵), previous line (<),
clear line (←), next line (>).

« Favorites Fonts » allows to reduce a Font List to necessary...

Cyclorama

The Cyclorama is always in the background. Les, Gam and Rosco filter values are from the Lightool library.

The image shows two screenshots of the Cyclorama software interface. The left screenshot displays a grid of filter references and control buttons. The right screenshot shows the library selection and filter settings.

Indexed filter list. Use the Trackpad to scroll the references. (Callout pointing to the grid of filter references)

Blackout	L002	L003	L004	L007
L008	L009	L010	L013	L015
L017	L019	L020	L021	L022
L024	L025	L026	L027	L029
L035	L036	L039	L046	L048

Settings (Callout pointing to the Settings tab)

Select the active library (Callout pointing to the library selection buttons)

Set a favorite (Callout pointing to the star icon)

Previous filter (Callout pointing to the left navigation button)

Current filter (Callout pointing to the 1.00 button)

Fade (Callout pointing to the Fade dropdown menu)

Transition time (0. à 12.7 sec) (Callout pointing to the 3.00 button)

Next filter (Callout pointing to the right navigation button)

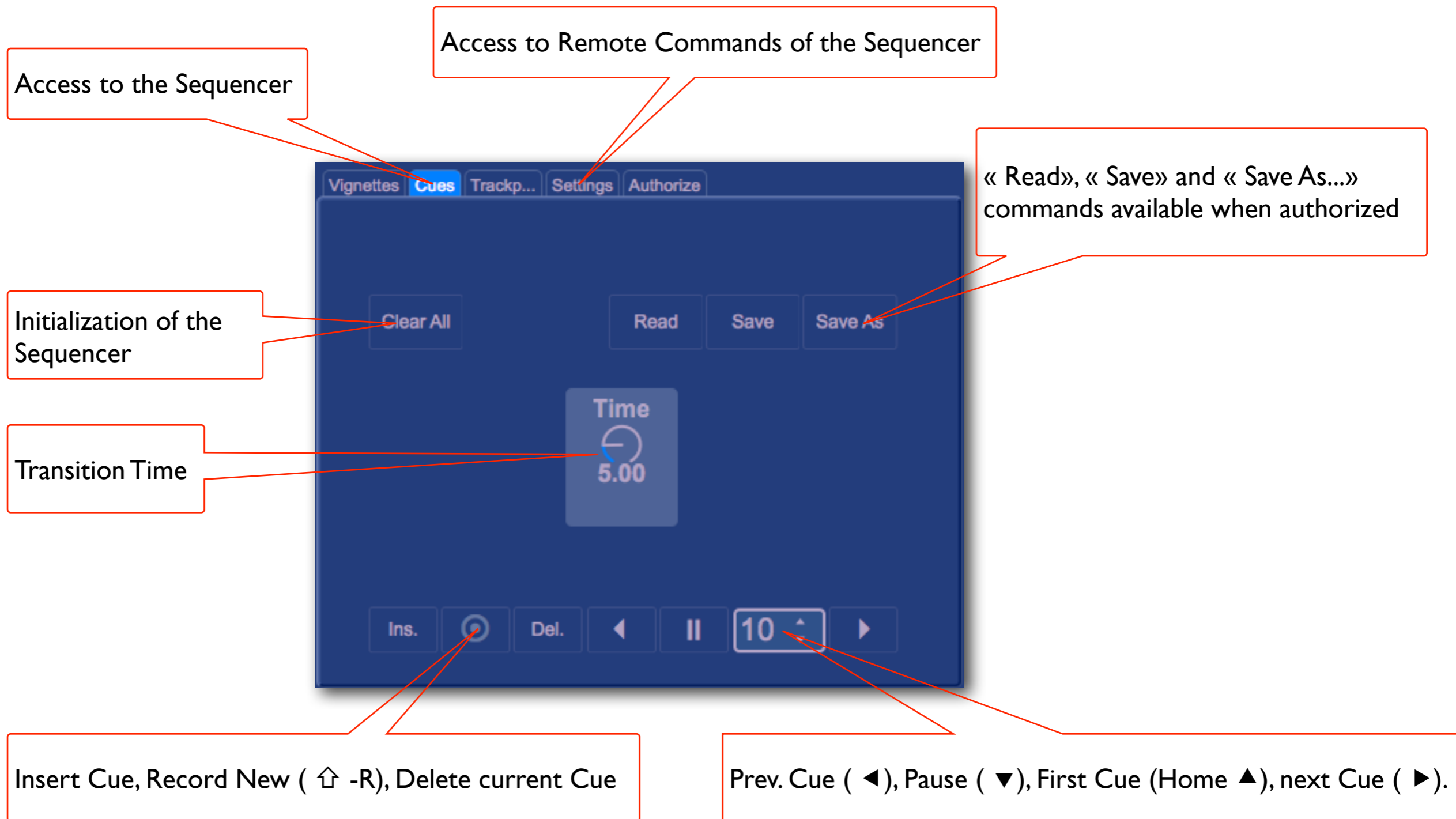
Library selection: GAM, LEE, ROSCO, FAVORITES

Filter settings: Filter - Off, Filter + Off, Fade Off, Time Off

« Favorites » allows to compose a library with references from all other ones...

Sequencer

The sequencer allows to create up to 999 « Cues» for a temporized restitution. Most of parameters are recorded. Time may vary between 0.1 and 25.5 seconds. One may delete current cue or insert at current Cuelist position. One may overwrite a Cue. Once authorized, one may save/read the whole project to/from disk . Keyboard shortcuts allow to manipulate Sequencer commands even if not apparent.



Sequencer

The Sequencer may be controlled *via* Flexcom with MIDI or Art-Net. Nyno 1.2 may also be controlled by any LightRegie I 20vf, local or distant, *via* the COM* Network. In the case of several instances of Nyno 1.2 to be controlled *via* LightRegie I 20vf, the « VF Address» concatenated to the word « nyno» allows to access a specific instance, as seen below « nyno5». The word « nyno» with no specific address routes the message to all instances.



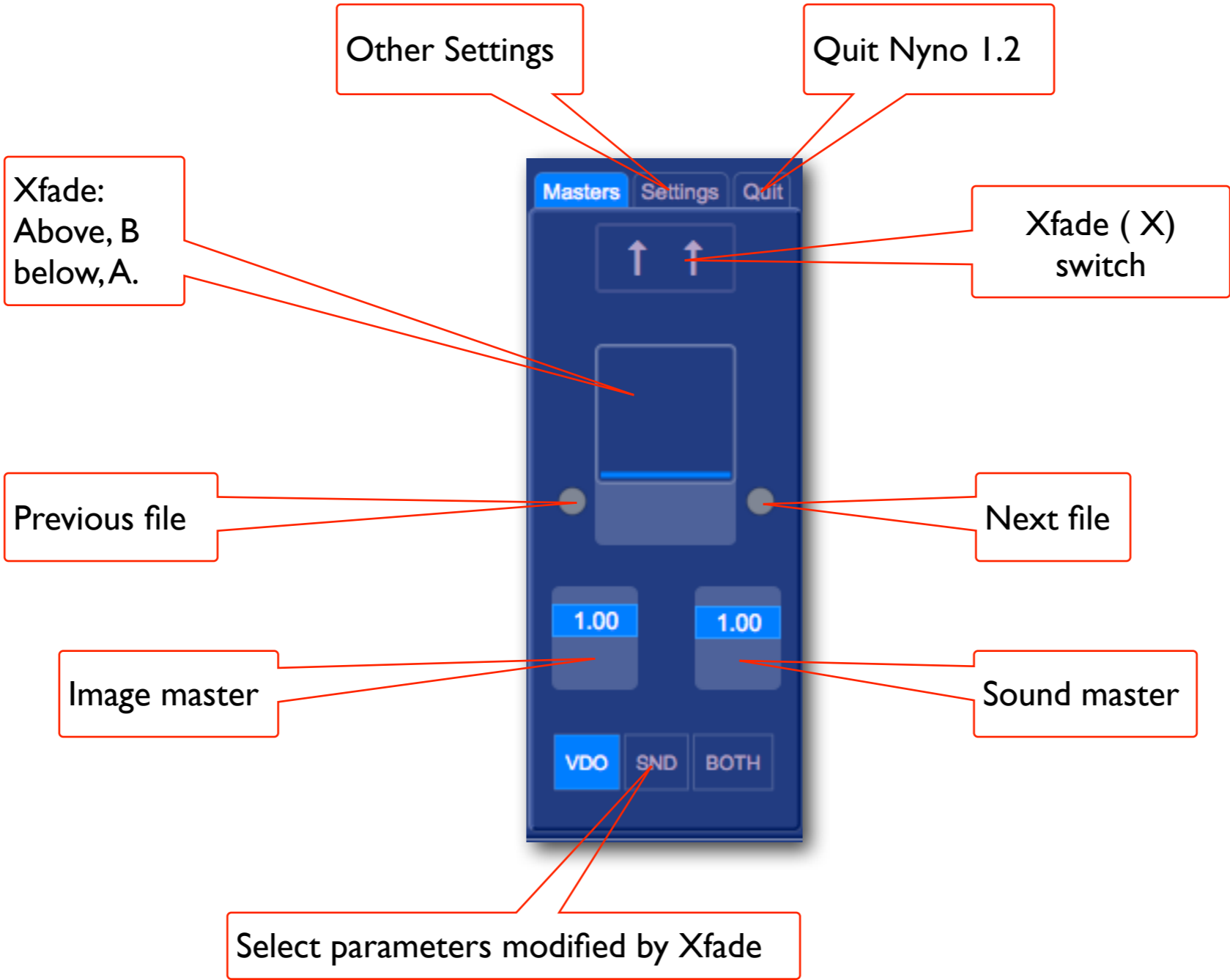
Commands recognized by Nyno 1.2:

- < COM nyno home >, back to first Cue (Top);
- < COM nyno prev >, previous Cue;
- < COM nyno next >, next Cue;
- < COM nyno goto nn >, goto Cue nn.

*COM: UDP Multicast. IP: 225.8.5.8, port 3988. Please note that Max-MSP, Quartz Composer or Isadora, among other softwares, may send commands to Nyno 1.2

Masters

In addition to video and audio Masters, you will find here a Crossfade. In Nyno 1.2, you can choose whether the Xfade is on the image, or the sound, or both.



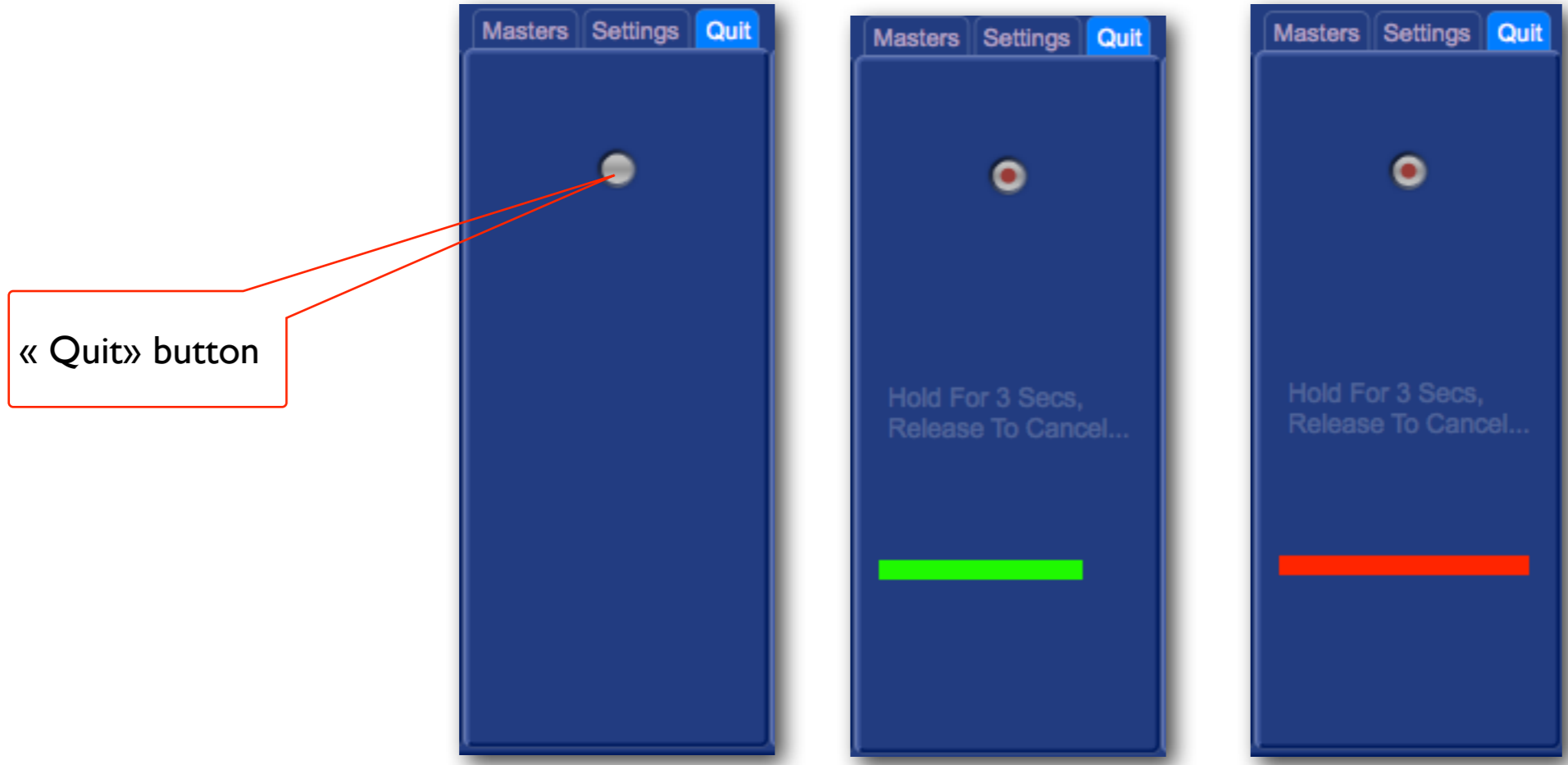
"Next file" and "Previous file" buttons load the available player.

Saving and quitting.

To quit Nyno 1.2, click continuously the "Quit" button.

An automatic backup is then made. The red line indicates an imminent closure. Please note that the Cmd-Q shortcut does not initiate any backup.

The automatic backup allows you to find Nyno 1.2 almost exactly like it was the day before.

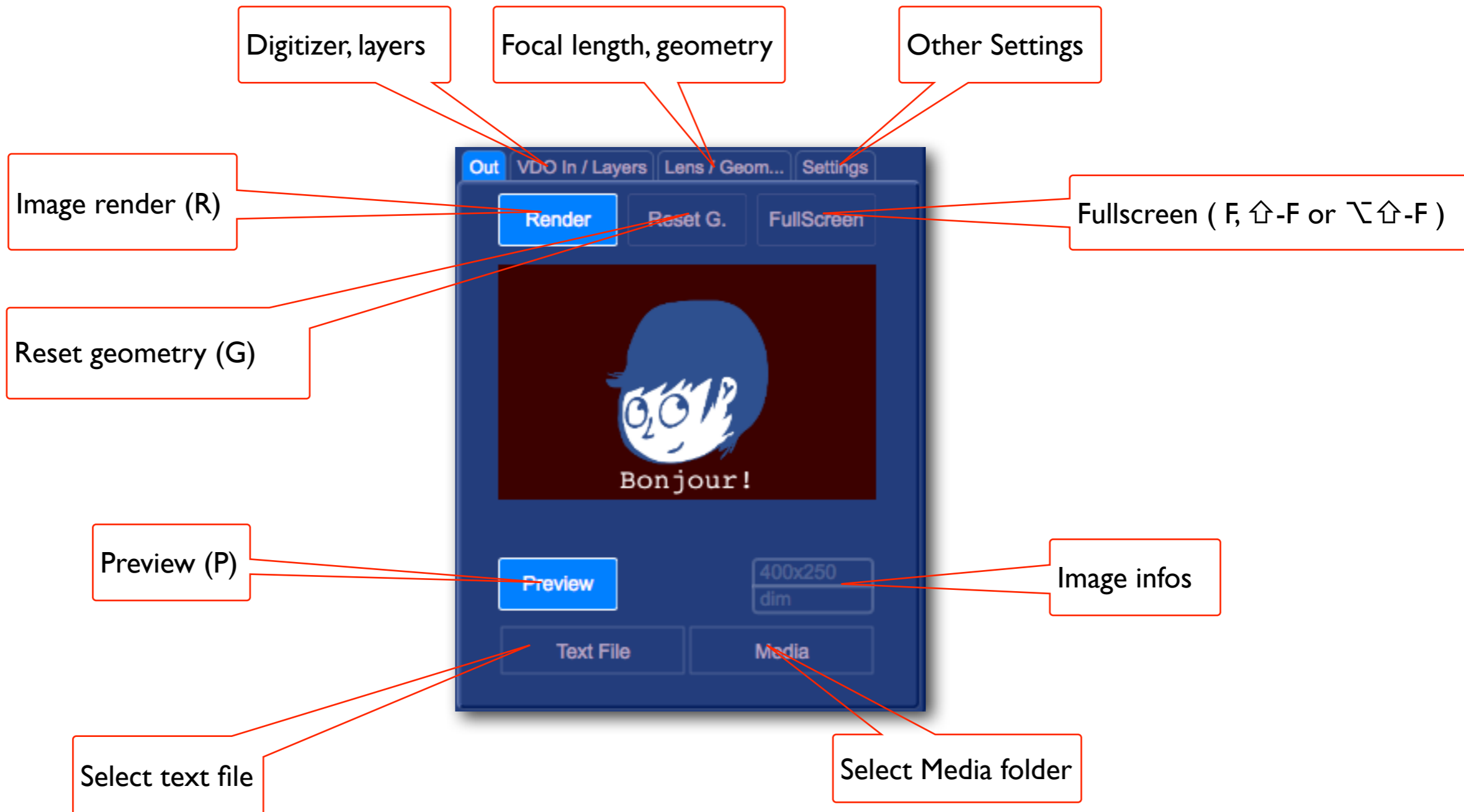


The automatic backup is only available once the application has been authorized.

Output

You will find here all the final cut settings.

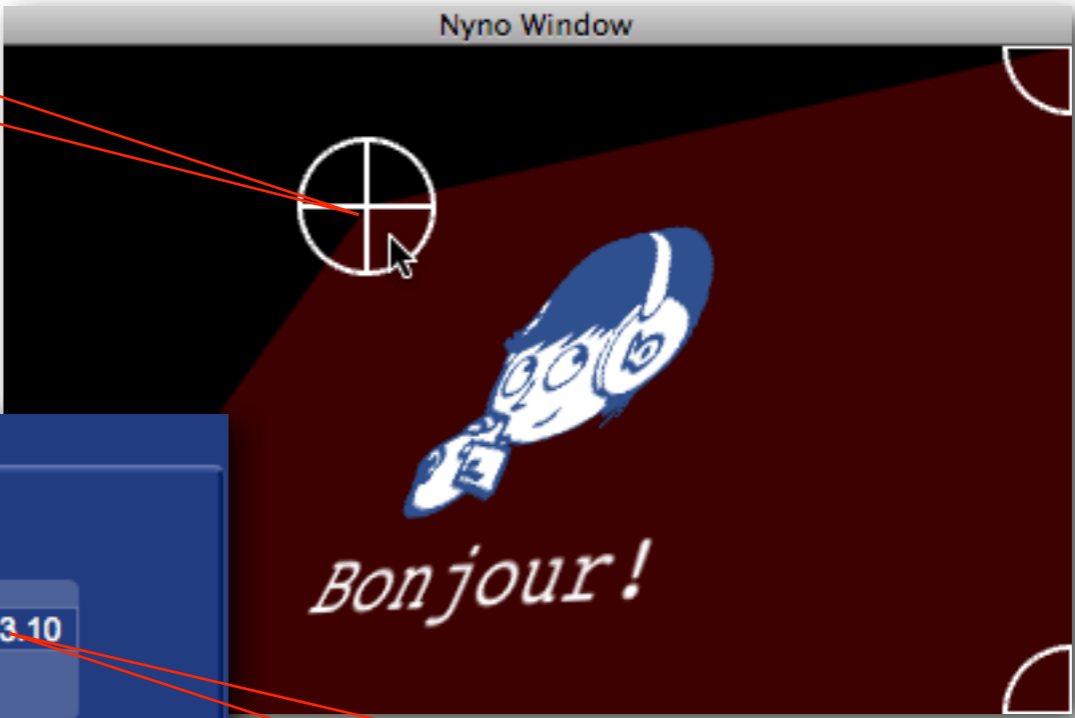
The $\text{⌘} \uparrow$ -F shortcut will provide a complete local fullscreen hiding the menu bar and the pointer. The \uparrow -F shortcut will provide a local fullscreen, leaving pointer visible for geometry settings. The F shortcut is suited for an external monitor or video-projector fullscreen. Leave all modes by typing "F".



Output, geometry and focal length

These settings modify the whole final cut.

Click on the screen to reveal the cornerpins...



... Or modify digitally the location of the handles.

Out **Lens / Geometry**

Lens
Off

53.10

upper_left 0 0	upper_right 400 0
lower_left 0 250	lower_right 400 250

Store G. Recall G.

Focal length

Store geometry settings

Recall geometry settings

Digitizer, layers

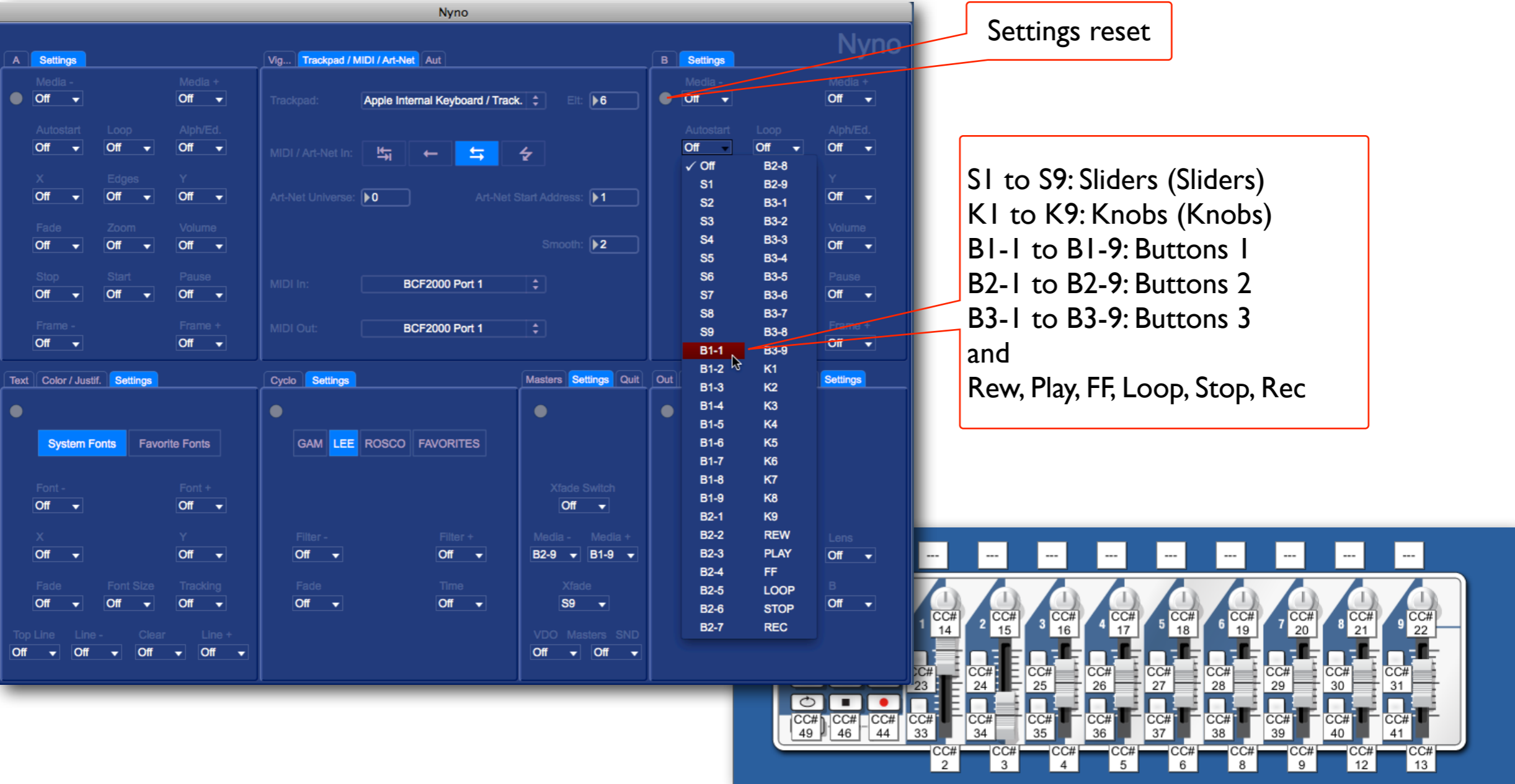
The Digitizer is directly connected to Syphon, becoming a server, available to any Syphon client. Remember, Player A & B are Syphon clients...

One may swivel layers of 180° on Y axis (⤴-A et ⤴-B). Layer B may be drawn in front of layer A (⤴-L, toggle)

The image shows a software interface for digitizing video. The interface is dark blue with white text and buttons. At the top, there are tabs: 'Out', 'VDO In / Layers', 'Lens / Geom...', and 'Settings'. Below the tabs, there is a 'Built-in iSight' section with a dropdown arrow. A blue button labeled 'VDO In' is on the left, and a 'Settings' button is on the right. Below this, the resolution '1024 x 768 • XGA' is displayed with a dropdown arrow. The central part of the interface is a video preview window showing a man's face. At the bottom, there are three buttons: 'A Flip', 'A in Front', and 'B Flip'. Red callout boxes with lines pointing to these elements contain the following text: 'Start Digitizer (⤴-O)' points to the 'VDO In' button; 'Digitizing size' points to the resolution text; 'Source' points to the 'Built-in iSight' dropdown; 'Source Settings (QuickTime)' points to the 'Settings' button; 'Flip layer A (⤴- A)' points to the 'A Flip' button; 'Flip layer B (⤴- B)' points to the 'B Flip' button; and 'Toggle layers priority (⤴ -L)' points to the 'A in Front' button.

Complex

The Complex system allows you to move control data between all settings sharing the same address, whichever setting is modified. The architecture of the system is based on that of the cheap NanoKontrol I by Korg.



External controller optional. MIDI ports "to Nyno" and "from Nyno" already allow the Complex to work "internally"!

Complex / MIDI / Art-Net

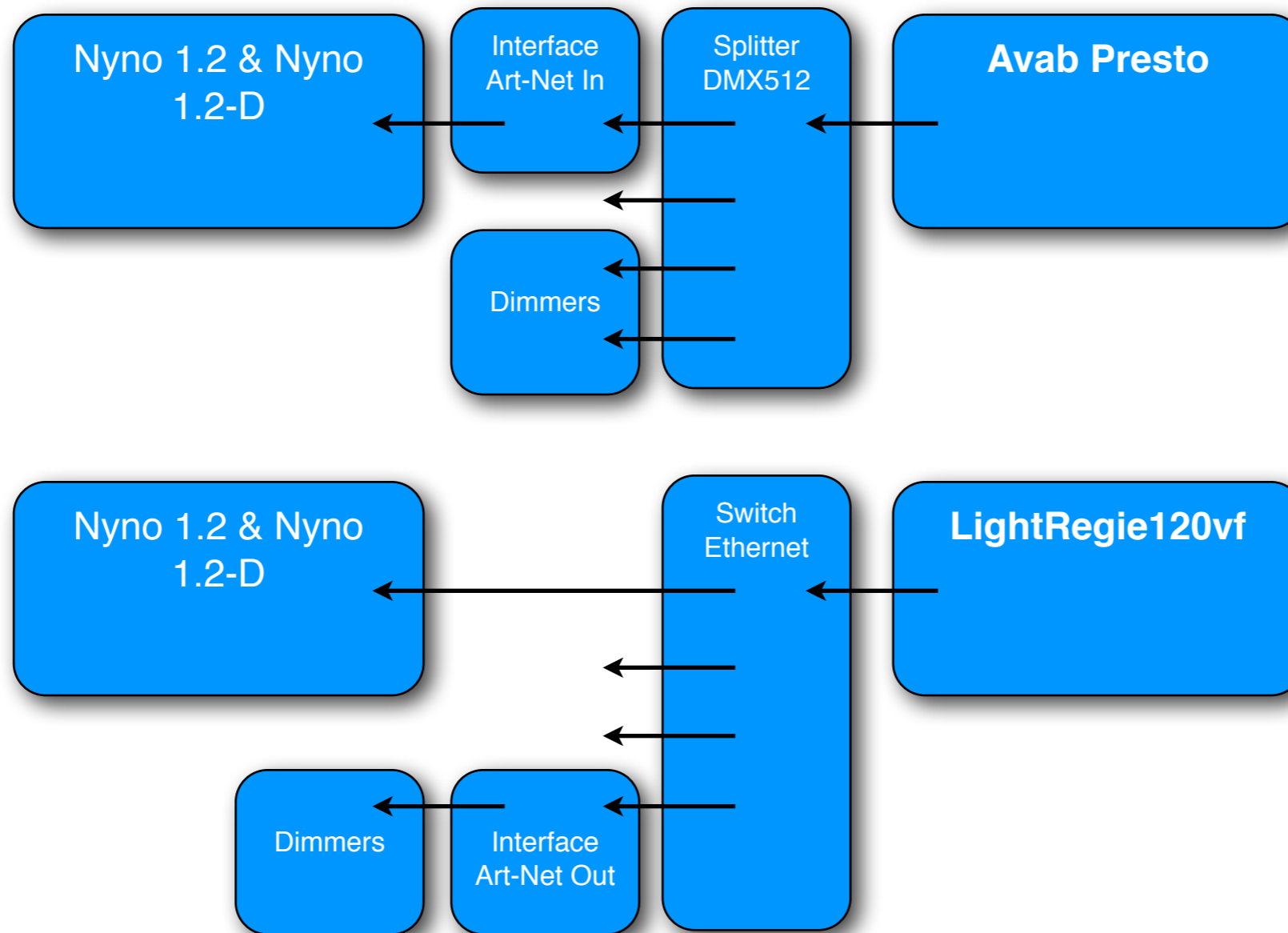
Complex, MIDI, DMX512 correspondence. MIDI chh cannot be modified in Nyno 1.2. MIDI is active on channel 1.

Nyno 1.2	MIDI	DMX512	Nyno 1.2	MIDI	DMX512	Nyno 1.2	MIDI	DMX512
S1	2	1	B2-1	33	19	K1	14	37
S2	3	2	B2-2	34	20	K2	15	38
S3	4	3	B2-3	35	21	K3	16	39
S4	5	4	B2-4	36	22	K4	17	40
S5	6	5	B2-5	37	23	K5	18	41
S6	8	6	B2-6	38	24	K6	19	42
S7	9	7	B2-7	39	25	K7	20	43
S8	12	8	B2-8	40	26	K8	21	44
S9	13	9	B2-9	41	27	K9	22	45
B1-1	23	10	B3-1	53	28	REW	47	46
B1-2	24	11	B3-2	54	29	PLAY	45	47
B1-3	25	12	B3-3	55	30	FF	48	48
B1-4	26	13	B3-4	56	31			
B1-5	27	14	B3-5	57	32	LOOP	49	49
B1-6	28	15	B3-6	58	33	STOP	46	50
B1-7	29	16	B3-7	59	34	REC	44	51
B1-8	30	17	B3-8	60	35	-		
B1-9	31	18	B3-9	61	36	-		

Attention: in DMX512, channel 1 is the channel defined by the « Art-Net Start Address » !

Art-Net

Attention: in DMX512, channel 1 is the channel defined by the « Art-Net Start Address » !



Nyno 1.2 shortcuts

Title Generator:			VDO / Layers:	
Next line	>		A Flip	⇧-A
Previous line	<		B Flip	⇧-B
Clear current line	←		A/B Front	⇧-L
Top of text file	⇧←		Start/Stop Digitizer	⇧-O
Masters:			Sequencer	
Xfade	X		Home	▲
Vidéo Xfade only	V		Pause	▼
Sound Xfade only	S		Next Cue	▶
Vidéo & Sound Xfade	B		Previous Cue	◀
Output:			Record New Cue	⇧-R
Render	R		Trackpad:	
Reset Geometry	G		Fine tune	⌘
External Fullscreen	F		A & B, sync param.	(⌘) ⇧
Local Fullscreen (On / Off)	F / ⇧-F / ⌘⇧-F		A & B, inverted sync param.	(⌘) ^-⇧
Preview	P			

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Anatole Montémont
created the Nyno 1.2
character...