

Pitch Instruments Inc.

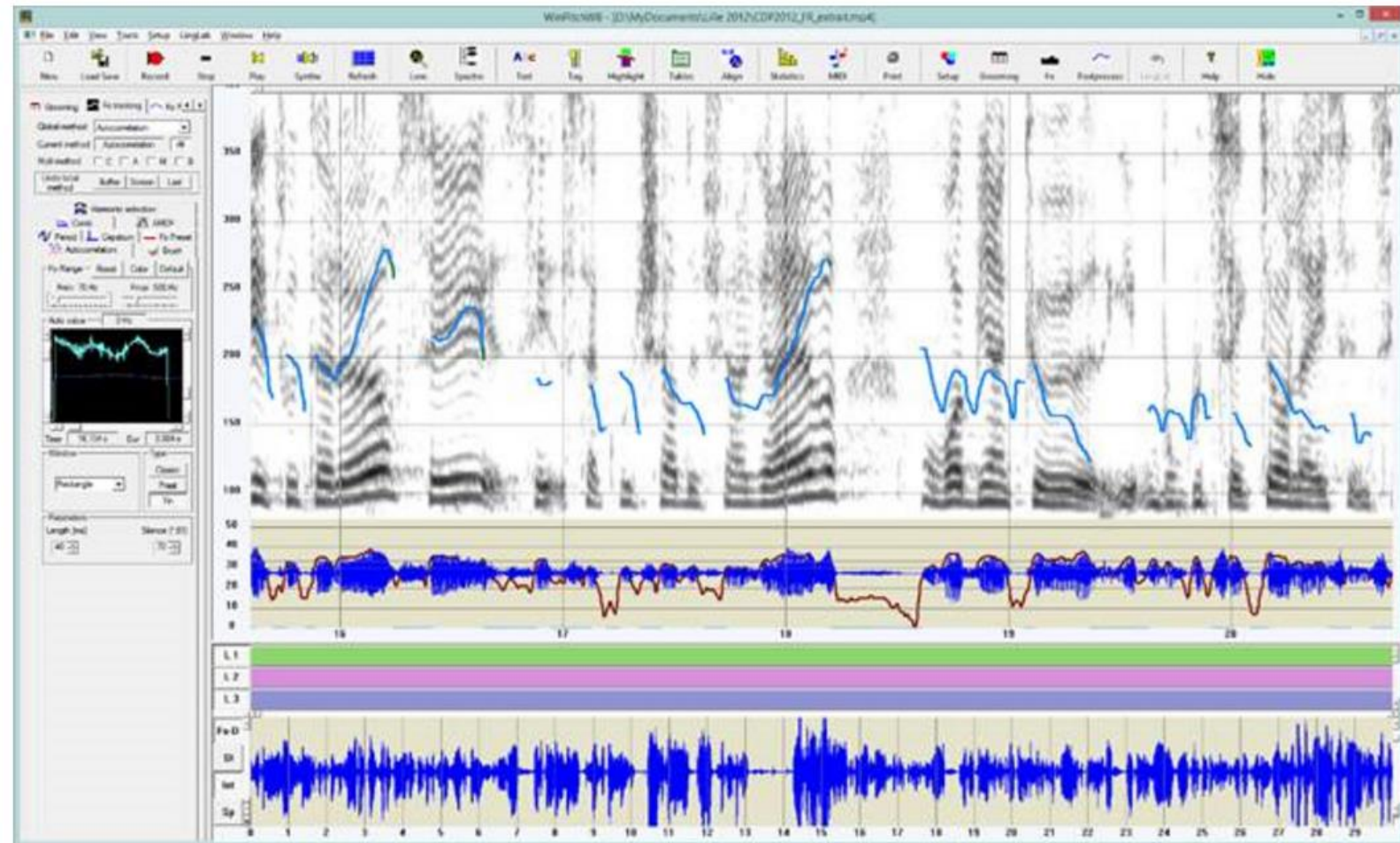
# WinPitch

## Basic user's manual

# WinPitch


by Pitch Instruments Inc.

WinPitchW10 for prosodic research, with on the fly aligner, real-time spectrograph, multi-tracking F0 analysis, video and audio analysis, and much more (Installation password required after 30 days of use).



# First use: get and enter your password

License

 WinPitchW10 <http://www.winpitch.com>  
Copyright (C) 1996-2016 Pitch Instruments Inc.

Your validation ID is: 589-73B-9Bx  
(This ID is needed to obtain your registration password)  
To get your registration password write to [info@winpitch.com](mailto:info@winpitch.com) mentioning your Validation ID

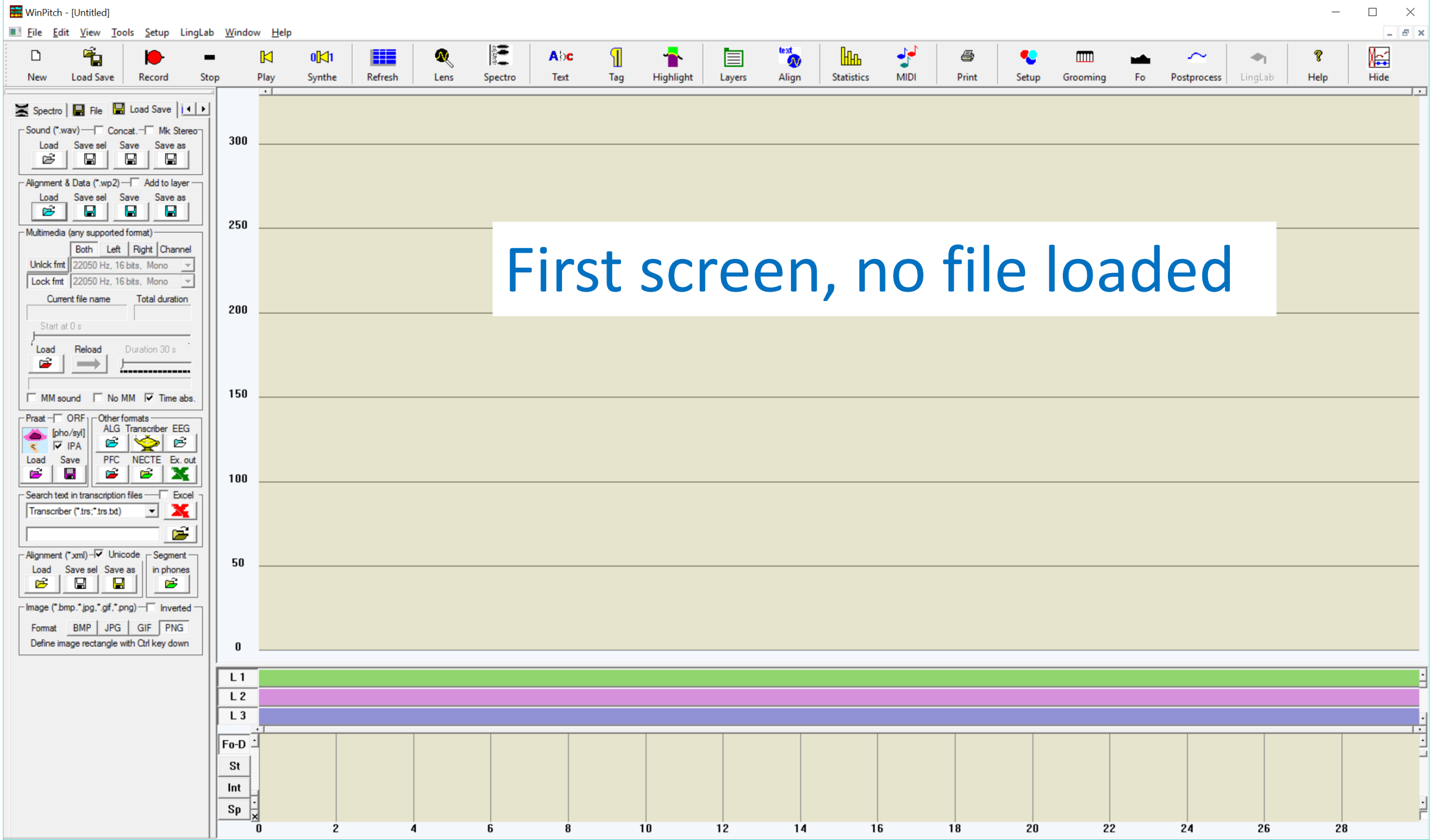
Register

13 day(s) left to use the unregistered program

To register, enter your registration password:

and click on "Register"

(You have to be logged as administrator to register)



Synthesis Tables Align

Selection (Alt key to define block)  
Gliss Relative values

Fo Fo Int Speed Time Pause

Color F1 F2 F3 F4

Mode Del all Create Edit Delete

Play Stop Synthe Save MIDI

Aver. Fo Range Source  
203 100

Values at cursor  
Time Int. Fo

Formants (up down left right keys)  
Bandwidth/50 6 Intensity 40

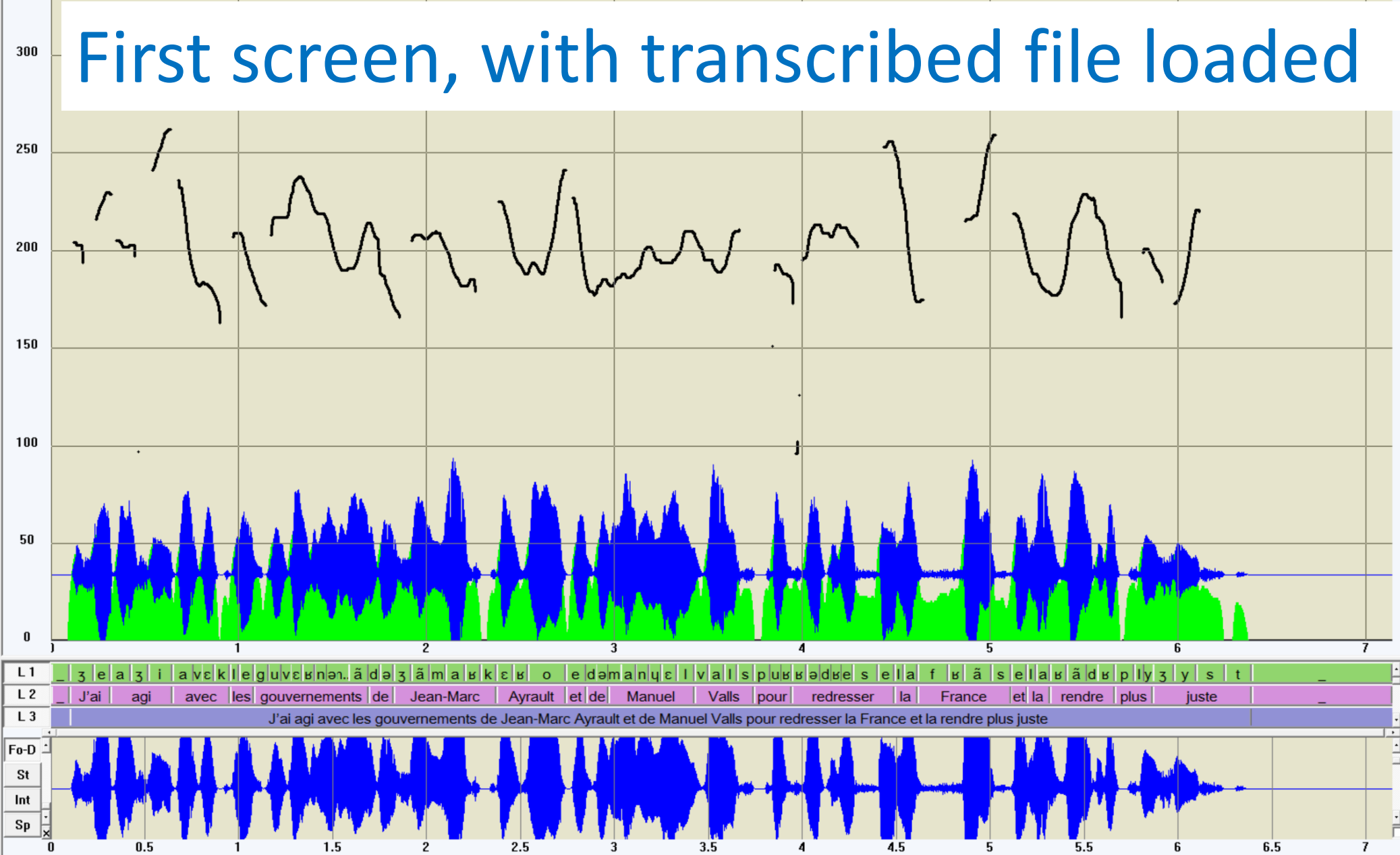
Resulting values  
Duration Intensity Fo Spectro Pause

TTS 0 abc

de Jean-Marc Ayrault et de Manuel Valls pour redresser la France et la rendre plus juste.

T...	Start	End	V1	V2

# First screen, with transcribed file loaded



## 2

## A first look

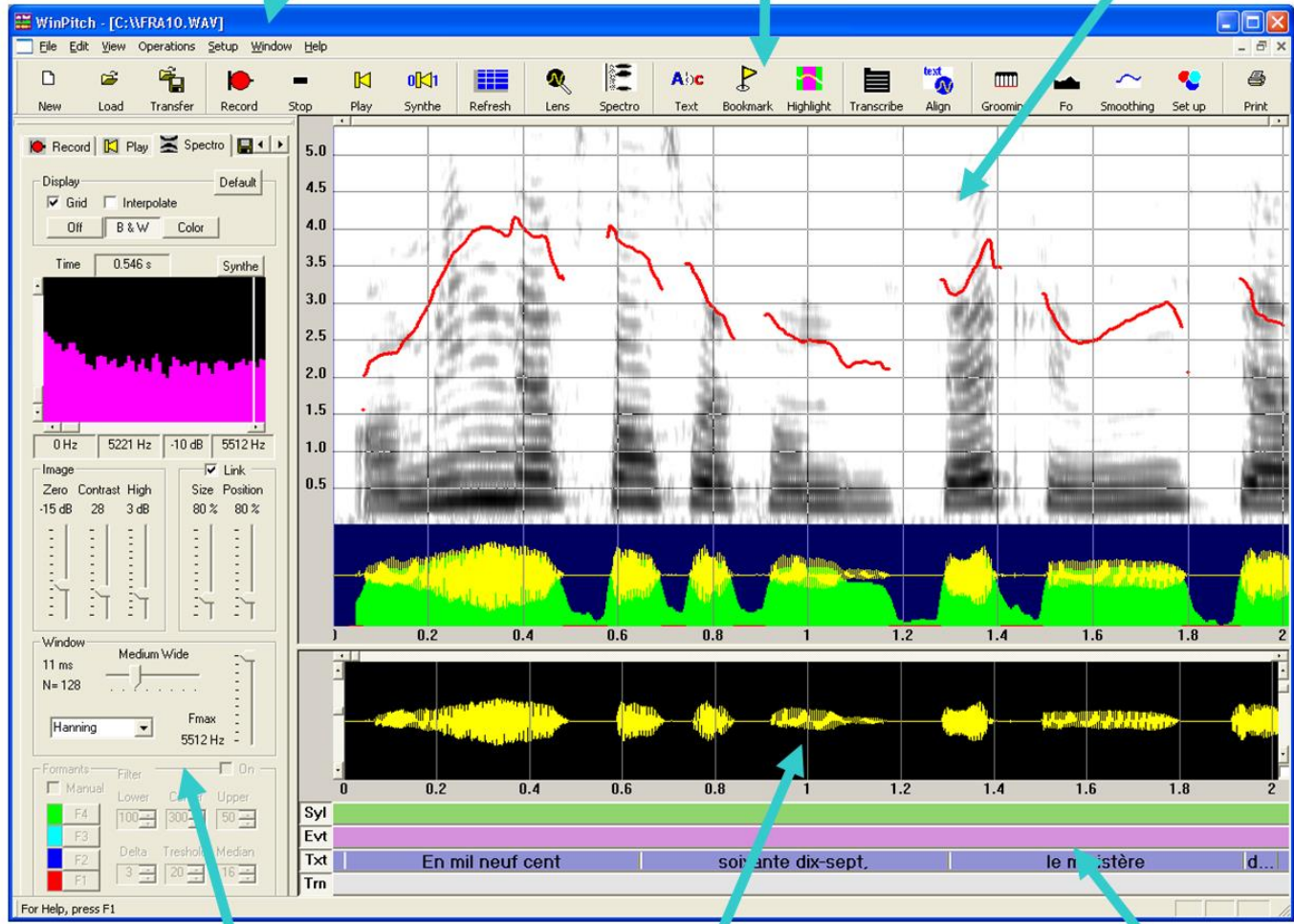
WinPitch screen is divided into the following control and display sections:

1. The menu, allowing direct commands by selecting an item in the menu;
2. The tool bar, accessing various commands by clicking on the corresponding icons;
3. The dialog bar, a set of dialog boxes grouping functions and adjustment parameters;
4. A wave window, allowing the selection of section of the signal (sound) to analyze;
5. Alignment layers, displaying aligned text;
6. An analysis window displaying the various analyses performed on the part of signal selected in the wave window.

1 Menu

2 Toolbar

6 Analysis window



3 Dialog bar

4 Wave window

5 Alignment layers

## **A** Wave window zoom and pan

By default, the wave duration displayed in the wave window is equal to the sound duration or 30 seconds, whichever is shorter (this 30 sec. value can be changed in the Setup page).

To change the duration displayed, use the wave zoom vertical slider (a). To pan the wave window along the signal, use the horizontal wave pan slider (b).

To adjust the wave amplitude displayed in the wave window, use the vertical wave amplitude slider (c).

To invert the wave phase (180 degree shift), click in the wave phase inverter check box (d).

The section of wave displayed in the wave window is re-analyzed and the analysis displayed each time you click on the Refresh icon on the tool bar. The actual display depends on the display options selected (in the illustration, the wave form, the intensity and fundamental frequency curves as well as the wide band spectrogram corresponding to the section of sound signal selected in the wave window are displayed).



# B

# Wave window block

The screenshot displays the WinPitch software interface for audio analysis. The main window shows a spectrogram with a red pitch contour overlaid. Below the spectrogram is a waveform view. The interface includes a menu bar, a toolbar, and a control panel on the left with various settings and a block list table.

**Audio parameters:** Mono, 16 bits, 11025 Hz, Volume: 70 %

**Screen zoom:** 1, **Cursor time:** 2.222 s

**Block list:**

ID	Name	Start	End
01	xxx	0.000 s	0.000 s
02	xxx	0.000 s	0.000 s
03	xxx	0.000 s	0.000 s
04	xxx	0.000 s	0.000 s
05	xxx	0.000 s	0.000 s
06	xxx	0.000 s	0.000 s
07	xxx	0.000 s	0.000 s
08	xxx	0.000 s	0.000 s
09	xxx	0.000 s	0.000 s
10	xxx	0.000 s	0.000 s
11	xxx	0.000 s	0.000 s
12	xxx	0.000 s	0.000 s
13	xxx	0.000 s	0.000 s
14	xxx	0.000 s	0.000 s
15	xxx	0.000 s	0.000 s
16	xxx	0.000 s	0.000 s

**Transcription:**

Syl | En mil ne... soixante dix... le ministère de l'Éducati... Nationale recensait cent ... établissements de ce t...

Evt |

Txt |

Trn |

## **B** Wave window block

You can also select a section of the wave form by defining a block inside the portion of signal displayed in the wave window.

To define a block, position the mouse cursor on the starting point in time of the block you want to define. Click on the mouse left button and drag the cursor to the ending time position of the block keeping the mouse left button down. Release then the mouse button. The block will be defined (in white on the figure), the analysis window (on top) will be updated to correspond to the signal section defined by the block, and the sound section will be played back (option selectable in the Setup page).

You can move the block by position the cursor about its middle position. The cursor takes then a 4 side arrow shape, indication you can drag the block by keeping the mouse left button down.

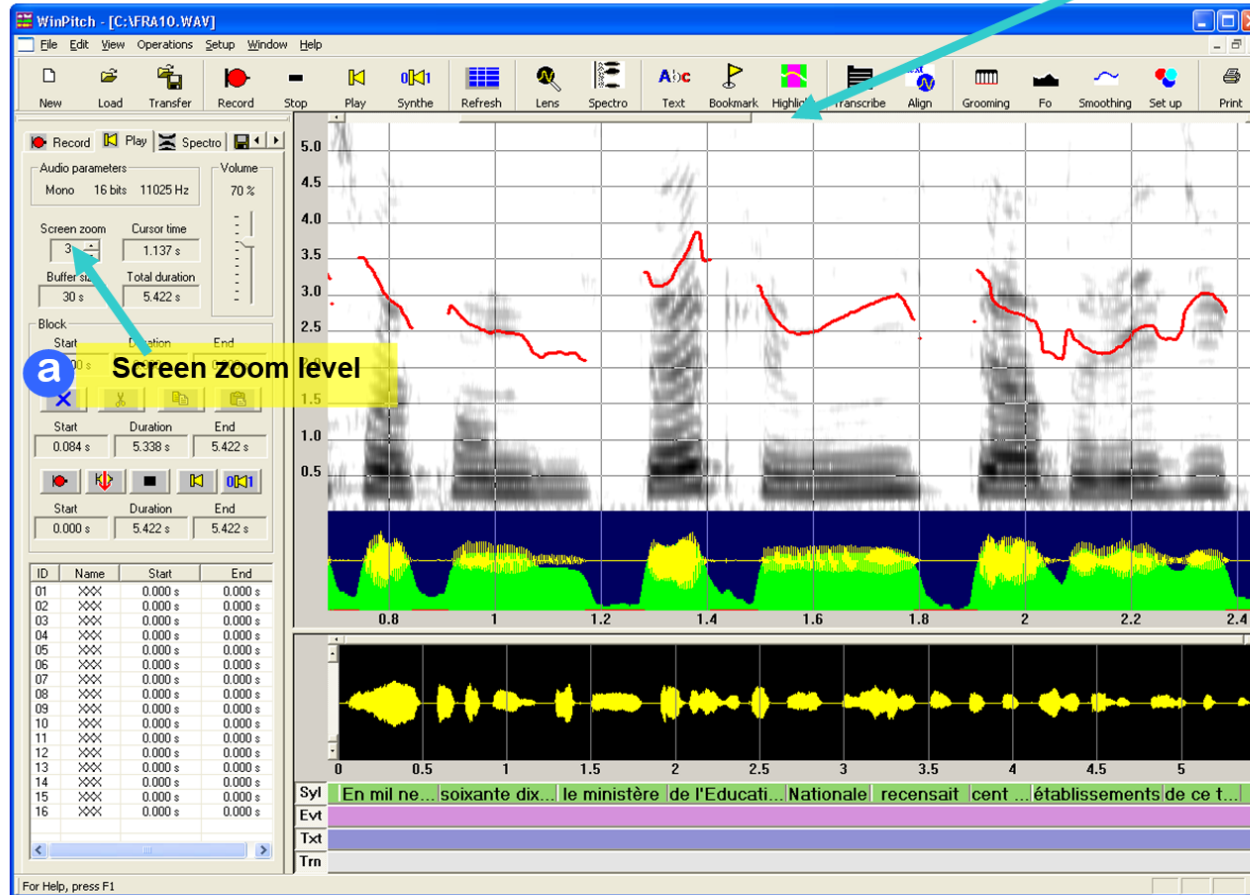
You can move the left or right edges of the block by positioning the cursor near the block edge you want to move. Press the mouse left button and drag the cursor to its new position.

For both block changes, the analysis window will be updated and the corresponding sound will be played back when you release the mouse left button.

A block can be erase by clicking outside it anywhere in the wave window, or by pressing the mouse right button.

### C Analysis window zoom level

### b Screen pan



### C Analysis window zoom level

A third zoom function is provided in WinPitch. Concurrently with the A and B signal selection processes, you can define an analysis screen zoom level (box a), which generates a virtual upper window up to 10 times its normal horizontal size. You can then pan this window along the time axis with the horizontal time slider in the analysis window (b), without the need to refresh the analysis.

### 3 WinPitch aided alignment

Alignment is a basic operation in phonetic research. Previously done manually in a transcription into an either orthographic or phonetic representation, this operation is quite time consuming and difficult to execute automatically through the use of speech recognizers.

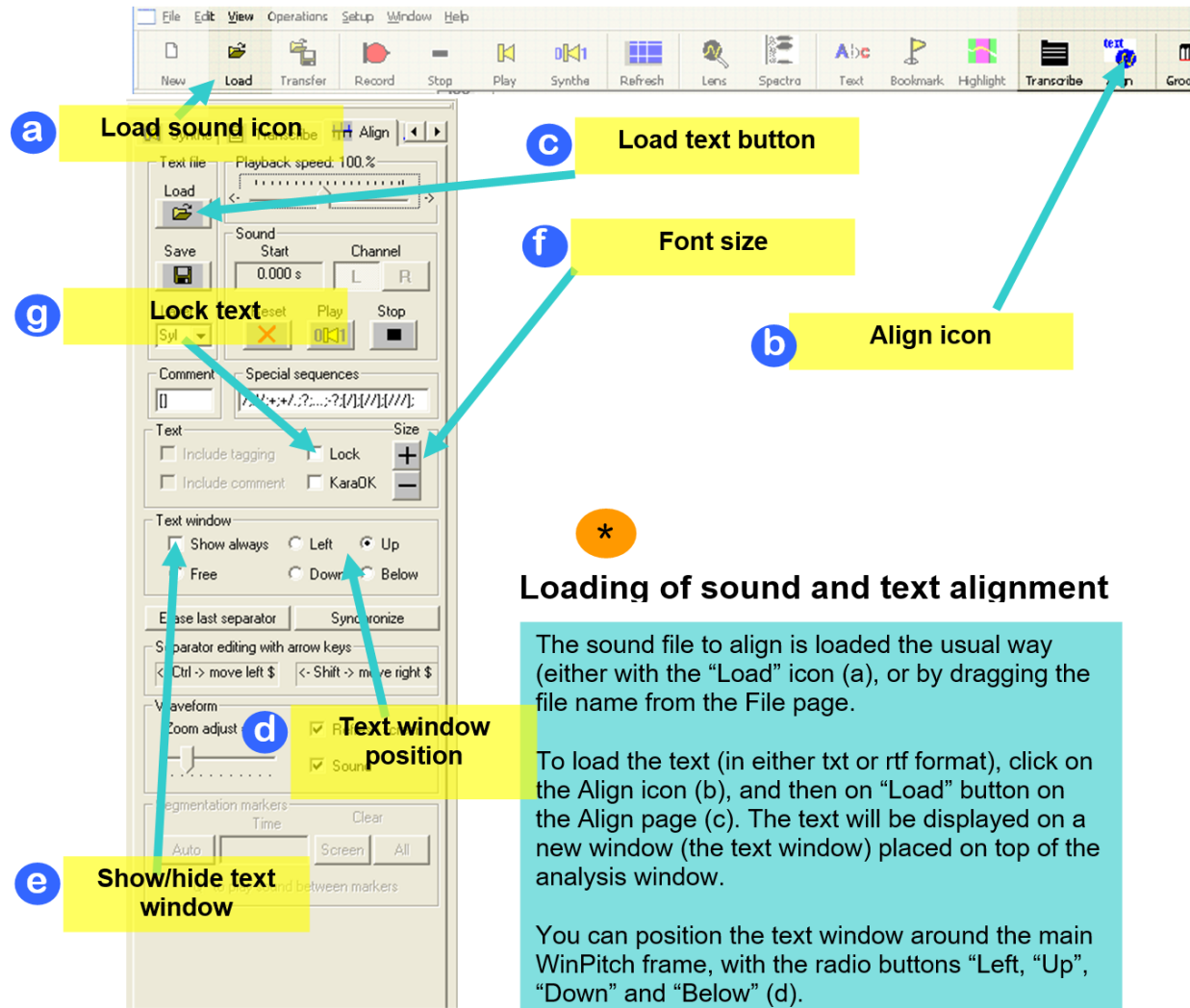
WinPitch has another approach, by allowing the user to select the graphic units as (s)he perceived them. By slowing down the speech playback rate by a selectable factor of 1 to 7, it becomes quite easy to synchronize the operator cursor positioning and mouse clicking with the perceived sound unit, be a sentence, a word or even a syllable. At each mouse click, the ending time of the current unit is automatically defined and entered in the alignment database. At any time of the process, the alignment can be verified and edited by using the karaoke playback function.

Text pre-formatted with the C-ORAL-ROM conventions will be automatically aligned in up to 8 speakers or events levels.

For ease of operation, the playback rate is dynamically adjustable by the user while the alignment process takes place. Inserted unit markers can be easily edited, and text transcription can be entered and edited as well in an alignment session.

The alignment output is generated in XML as well as Excel® formats. Various tools are provided to allow the user to navigate in the alignment database, and obtain the acoustical analysis of aligned units quickly and easily.

# A Basic operations



## \* Loading of sound and text alignment

The sound file to align is loaded the usual way (either with the "Load" icon (a), or by dragging the file name from the File page).

To load the text (in either txt or rtf format), click on the Align icon (b), and then on "Load" button on the Align page (c). The text will be displayed on a new window (the text window) placed on top of the analysis window.

You can position the text window around the main WinPitch frame, with the radio buttons "Left", "Up", "Down" and "Below" (d).

The text window is hidden when you select another dialog page, but can be set to be displayed permanently with the "Show always" check box (e).

The text font size is adjusted with the "+" and "-" buttons (f), and the text can be protected or be edited with the "Lock" check box (g).

**B**

# Alignment layers

The screenshot shows the WinPitch software interface. At the top, a red banner contains the letter 'B' and the title 'Alignment layers'. The software window has a menu bar (File, Edit, View, Operations, Setup, Window, Help) and a toolbar with various icons. A yellow box labeled 'a' highlights the 'Layer sub-page tab' in the toolbar. On the left, a settings panel includes options for 'Screen zoom' (set to 1), 'Nb Layers' (set to 4), 'Delta loc' (set to 100), and 'Default duration' (set to 30). A yellow box labeled 'a' points to the 'Nb Layers' spinner. The main window displays a spectrogram with a white waveform and a yellow waveform. Below the spectrogram, there are four horizontal alignment layers: 'Spd' (green), 'Lvt' (purple), 'Trn' (blue), and 'Sec' (grey). Below these are labels for 'Bak', 'Epi', and 'Com'. A text box in the center of the spectrogram reads: 'By default 4 alignment layers are displayed in the wave window. Their number can be adjusted (with a maximum of 8) in the Setup page, Screen sub-page (a). Their names, short names, colors and font can be edited in the Layer sub-page (click on the "Layer" tab (b) to display this sub-page).'

**b** Layer properties editing

To edit layer properties, click on the layer name in the list box (a). You can then edit the layer name and short name (3 characters), and select the color and font which will be used in the wave window (b).

Their names, short names, colors can be edited in the Layer sub-page (click on the "Layer" tab (b) to display this sub-page).

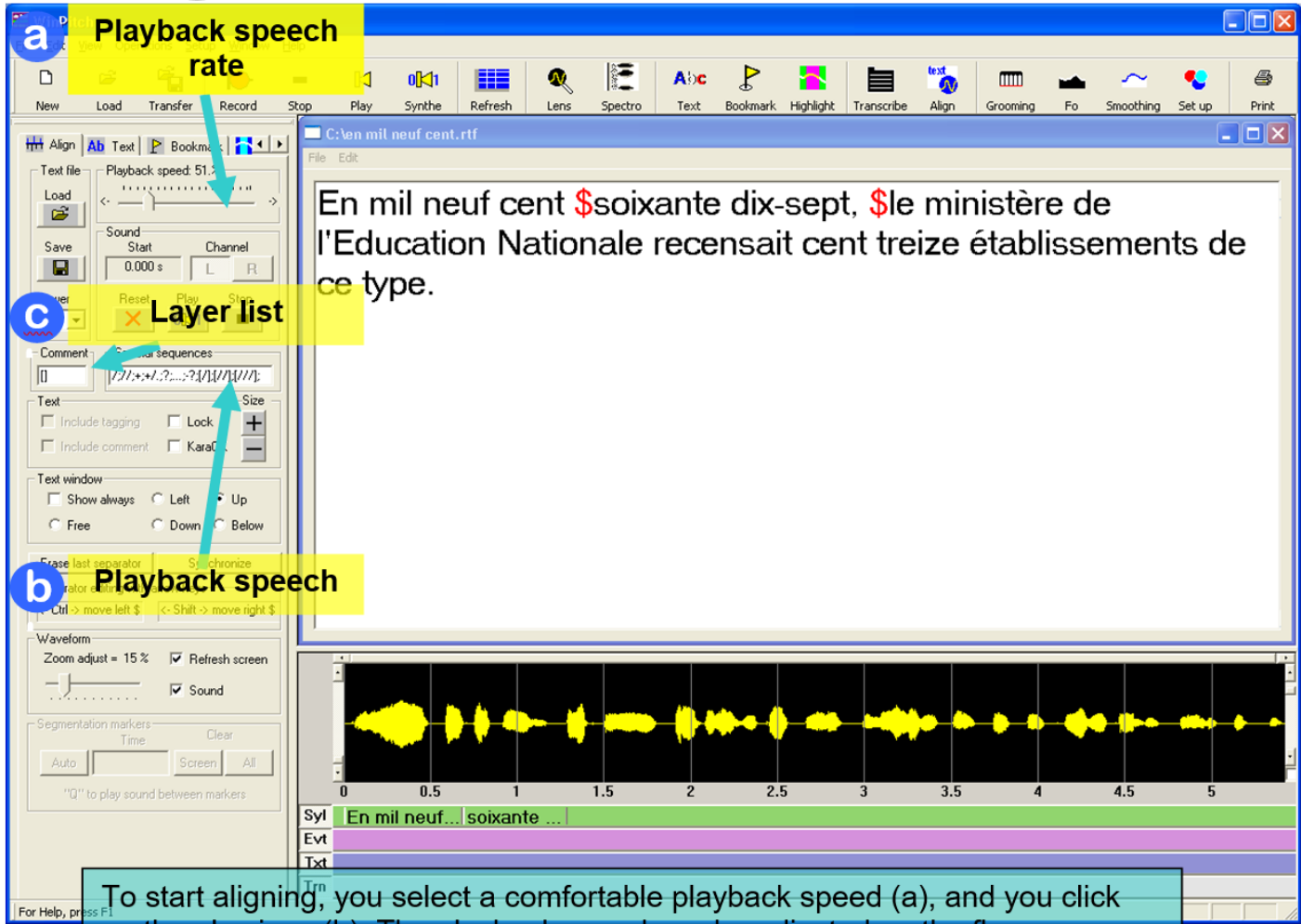
**a** Layer selection

The screenshot shows the WinPitch interface. On the left, there is a 'Layer' sub-page with a table of layers. A yellow box labeled 'a' highlights the table, and a blue arrow points from it to the 'Text' layer in the table. Another yellow box labeled 'b' highlights the 'Layer' sub-page controls, and a blue arrow points from it to the 'Text' layer's properties. The main window displays a spectrogram, a waveform, and a timeline with colored bars for each layer.

L...	Title	ID	S...
1	Syllabe	syllabe	Syl
2	Event	desc	Evt
3	Text	text	Txt
4	Turn	speaker	Trn
5	Section	type	Sec
6	Background	backgrou...	Bak
7	Episode	episode	Epi
8	Comment	comm	Com

For Help, press F1

# C Semi automatic alignment



To start aligning, you select a comfortable playback speed (a), and you click on the play icon (b). The playback speed can be adjusted on the fly. For each unit you want to align, you position the mouse cursor on the last graphic part of the text unit (be a sentence, a word or a syllable), and you click on the mouse left button when you are about to hear the END of the corresponding sound. The unit ending time defined by your mouse click will be automatically entered in the alignment layer selected in the Layer list (c), and a separation sign (a red "\$" here) will be inserted in the text.



**D**

# Transcribe page

**a** Load and save alignment files (\*.alg)

**b** Segment navigation

**c** Delete selected segment

Aligned units are also entered in list tables (one per layer) together with their starting and ending time in seconds. The results are saved in XML format by clicking the “Save” button (a), and can be re-loaded with the “Load” button (a).

Clicking on an aligned unit in one layer list will display the corresponding part of sound in the wave window, and its analysis on the analysis window (unless the text window has been made permanent). Clicking on a unit in the text window or in the wave window will have the same effect.

You can also navigate through the list of aligned units with the “Selected segment” buttons (b). A selected segment can be deleted with the (c) button.

syllabe	Start	End
En mil neuf ...	0.000	0.688
soixante dix...	0.688	1.294

Syl | En mil neuf cent | soixante dix-sept.

Evt

Txt

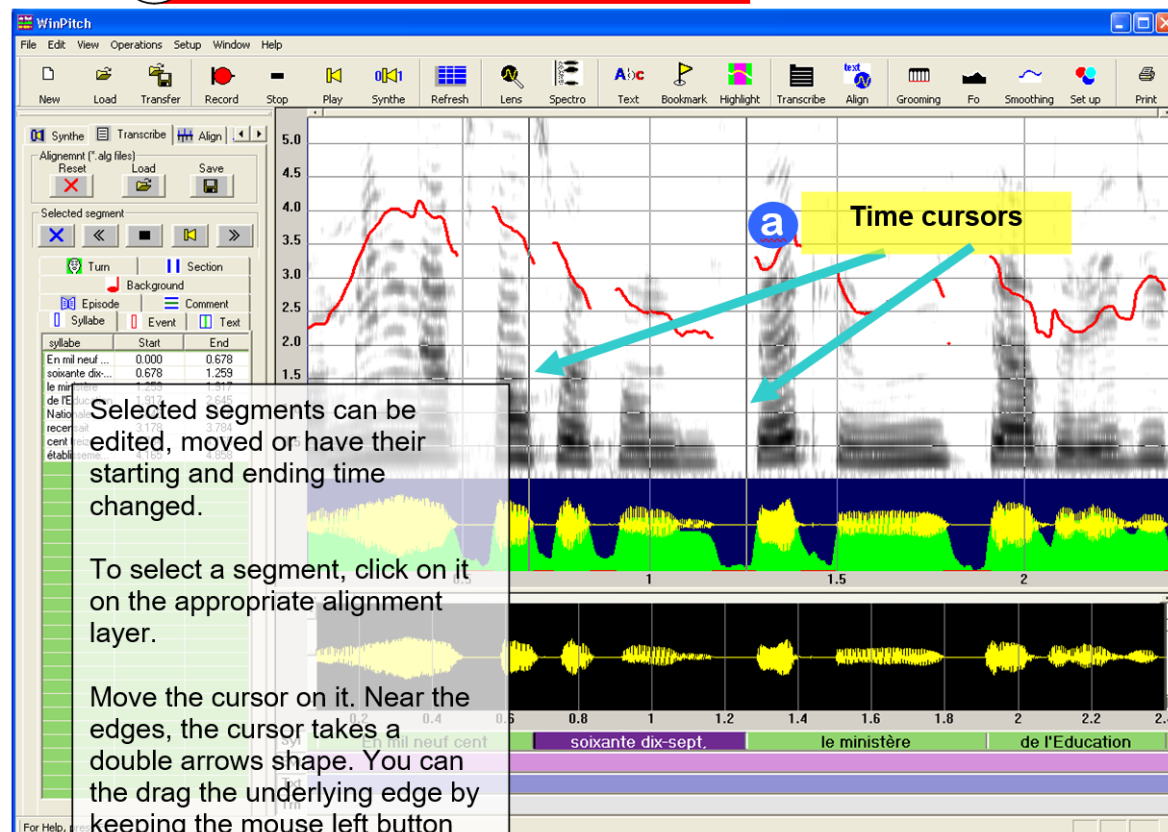
Trn

For Help, press F1



## F

## Editing segments



Selected segments can be edited, moved or have their starting and ending time changed.

To select a segment, click on it on the appropriate alignment layer.

Move the cursor on it. Near the edges, the cursor takes a double arrows shape. You can then drag the underlying edge by keeping the mouse left button down. When the cursor is positioned near the middle of the segment, it takes the shape of a quadruple arrow. You can then move the entire segment without changing its size.

For all the operations, one or two cursors will appear on the analysis window (a), allowing you to achieve a precise alignment if for instance the spectrogram display option is on for the analysis window.

# G Layer hierarchy

Changing the edge position of a segment would update segment edges synchronized with it (a).

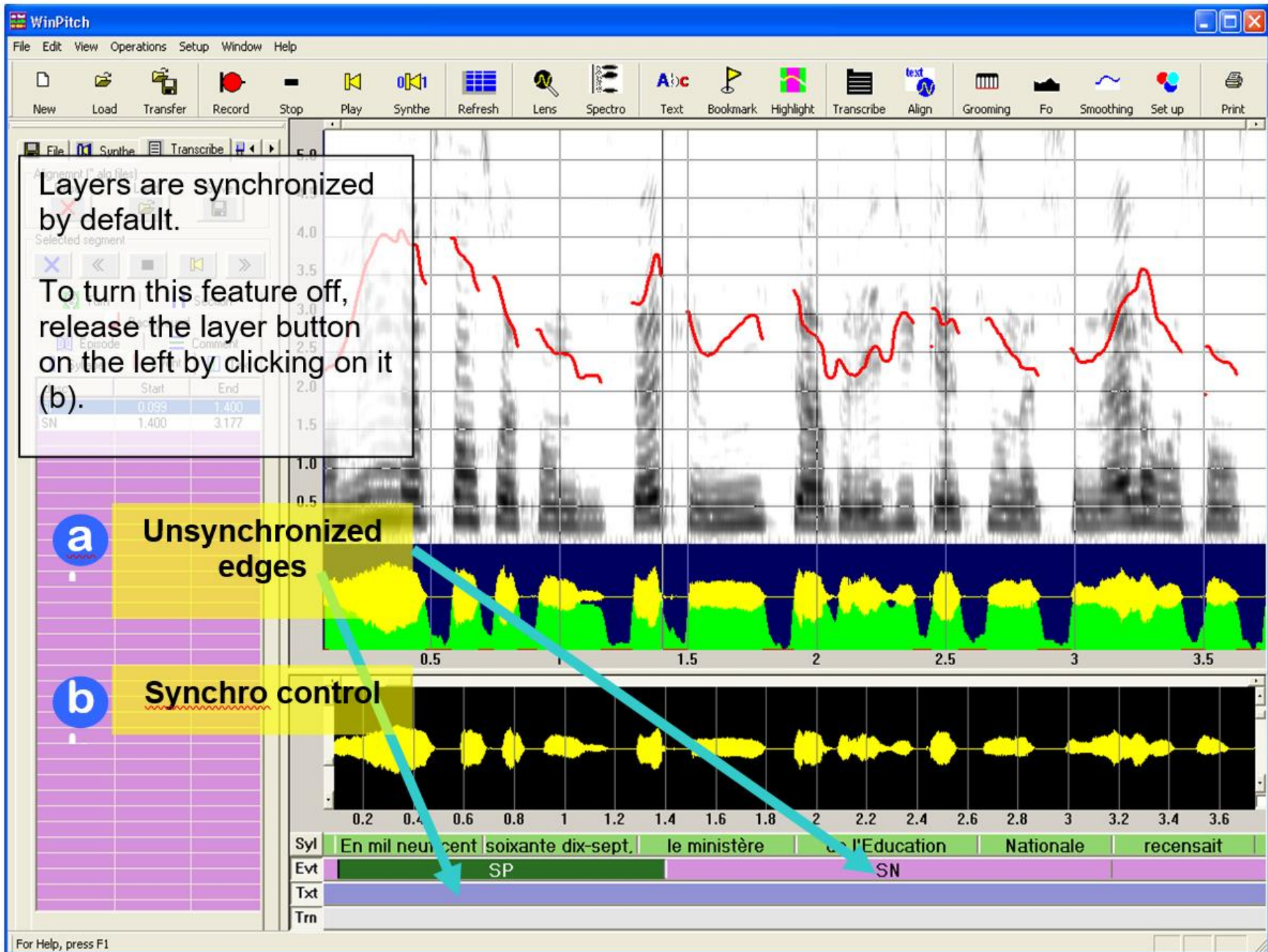
In the example on the right, moving the edge between SP and SN on layer Evt did move the corresponding edge between "...dix-sept" and "le ministère..."

**a** Time cursors

**a** Synchronized edges

**b** Synchronization control

WinPitch  
File Edit View Operations Setup Window Help  
Stop Play Synthe Refresh Lens Spectro Text Bookmark Highlight Transcribe Align Grooming Fo Smoothing Set up Print  
5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5  
0.5 1 1.5 2 2.5 3 3.5  
0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6  
Syl En mil neuf cent soixante dix-sept le ministère de l'Education Nationale recensait  
Evt SP SN  
Ext  
Tm  
For Help, press F1





## Output XML format

```
<?xml version="1.0" encoding="iso-8859-1" ?>
<!DOCTYPE Alignment (View Source for full doctype...)>
- <Alignment>
  <TimeStamp Value="Thursday, May 30, 2002 time 00h 10m 04s" />
  <WinPitch Program="Aligner" Version="1.0" />
  <Trans version="1.0" creationDate="Thursday, May 30, 2002 time 00h 10m 04s" audioFilename="C:\\FRA10.WAV" textFilename="C:\\en mil
    neuf cent.rtf" />
  <Layer1 Name="Syllabe" ID="syllabe" Short="Syl" Color="RGB(145,213,110)" />
  <Layer2 Name="Event" ID="desc" Short="Evt" Color="RGB(213,145,220)" />
  <Layer3 Name="Text" ID="text" Short="Txt" Color="RGB(145,145,213)" />
  <Layer4 Name="Turn" ID="speaker" Short="Trn" Color="RGB(228,228,228)" />
  <Layer5 Name="Section" ID="type" Short="Sec" Color="RGB(200,213,180)" />
  <Layer6 Name="Background" ID="background" Short="Bak" Color="RGB(213,222,140)" />
  <Layer7 Name="Episode" ID="episode" Short="Epi" Color="RGB(120,195,200)" />
  <Layer8 Name="Comment" ID="comment" Short="Com" Color="RGB(255,228,255)" />
  <UNIT speaker="Syllabe" startTime="0.000" endTime="1.244" Channel="M">En mil neuf cent soixante dix-sept,</UNIT>
  <UNIT speaker="Syllabe" startTime="1.244" endTime="3.137" Channel="M">le ministère de l'Education Nationale</UNIT>
  <UNIT speaker="Syllabe" startTime="3.137" endTime="3.648" Channel="M">recensait</UNIT>
  <UNIT speaker="Syllabe" startTime="3.648" endTime="4.100" Channel="M">cent treize</UNIT>
  <UNIT speaker="Syllabe" startTime="4.100" endTime="4.921" Channel="M">établissements</UNIT>
  <UNIT speaker="Syllabe" startTime="4.921" endTime="5.399" Channel="M">de ce type.</UNIT>
</Alignment>
```

## More details: the Tool bar



**New:** create new analysis window

**Load Save:** load and save files in various formats

**Record:** access to recording functions

**Stop:** stop playback and recording

**Play:** access to playback and sound editing functions

**Synthe:** access to speech synthesis and prosodic morphing functions

**Refresh:** rewrite screen

**Lens:** access to detailed waveform, Fourier, LPC and wavelet at cursor position

**Spectro:** access to spectrogram functions

**Text:** access to text functions

## Tool bar



Tag: add on screen tags for comments

Highlight: access to highlight screen sections functions

Layers: access to layers (= tiers) functions

Align: access to transcription and (semi)automatic align functions

Statistics: access to data and statistical analysis function

MIDI: access to filtering and MIDI playback functions

Print: access to print graphic data functions

Setup: access to display setup functions

Grooming: select spectral parameters for F0 analysis

Fo: select F0 tracking method, parameters and annotation

Postprocess: select F0 curve smoothing parameters



Select Load/Save functions

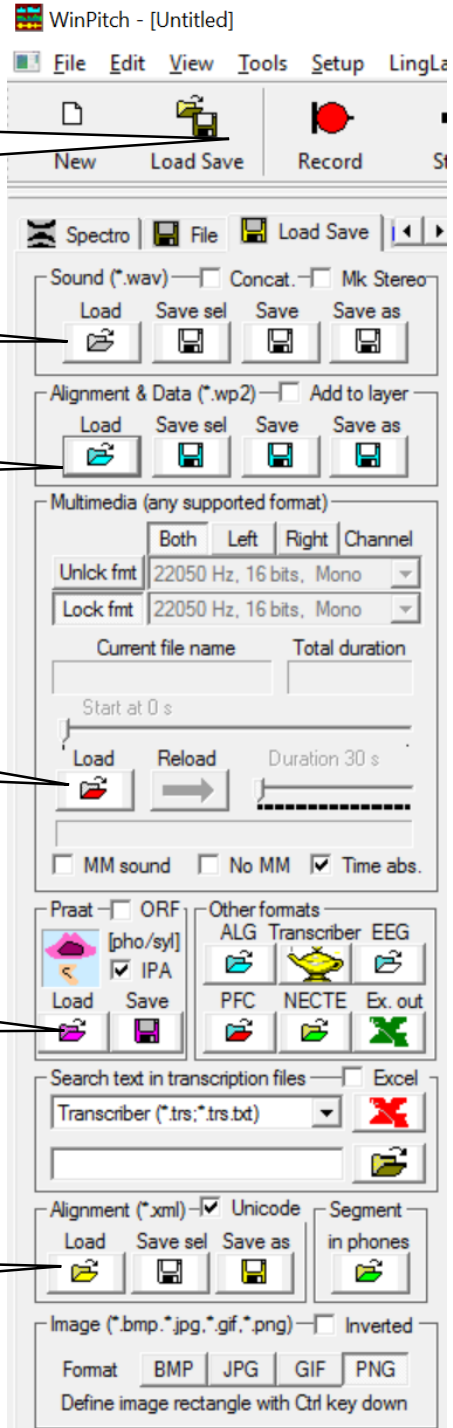
wav files

wp2 files

multimedia files

Praat TextGrid files

xml files



# Load and Save functions

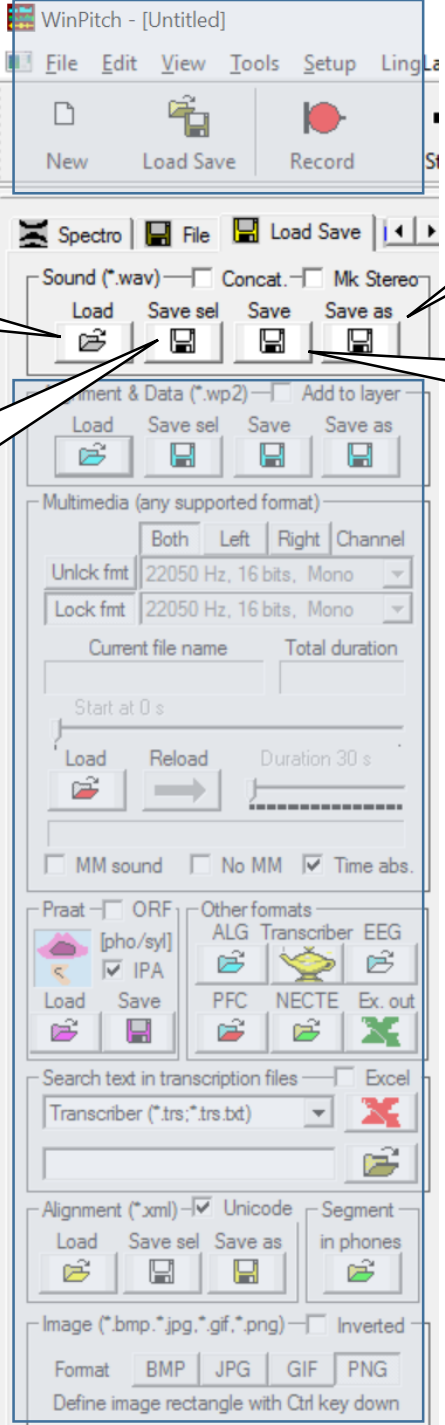
# Load and Save functions

Load wav file

Save the current selection of wav file with current name

Save wav file with a new name

Save wav file with current name



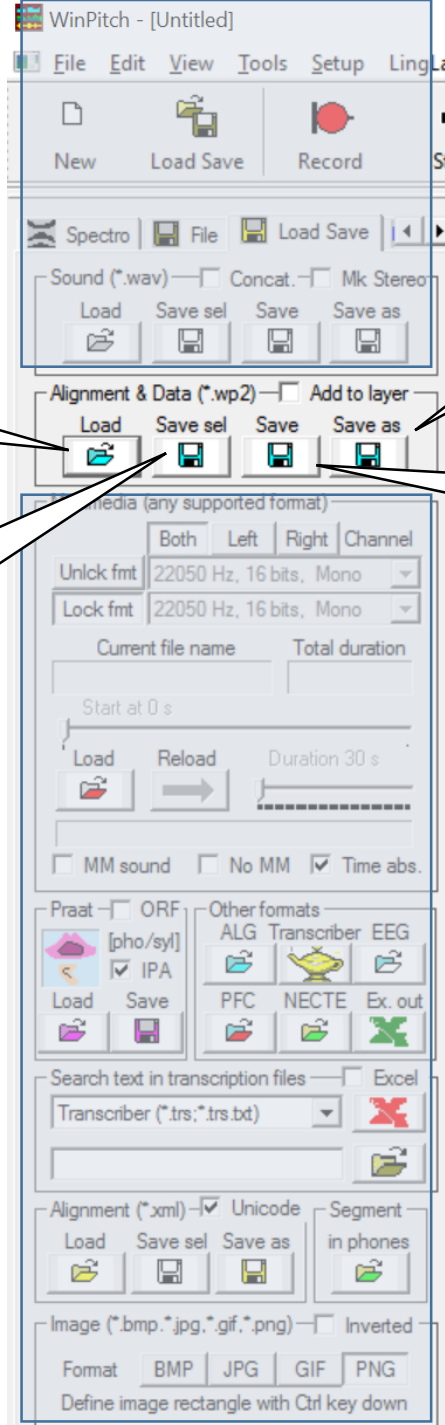
# Load and Save functions

Load wp2 file

Save the current selection of wp2 file with current name

Save wp2 file with a new name

Save wp2 file with current name



Wp2 file is a text file which includes information added to the sound file (text, highlight, annotation, transcription, etc.)

# Wp2 file is a text file which includes information added to the sound file (text, highlight, annotation, transcription, etc.)

<WinPitchW10 Output file - Version 1.0/>

<Date date="Wednesday, February 22, 2017 time 17h 45m 28s"/>

<audioFilename>Redresser la France synthe.wav</audioFilename>

<videoFilename></videoFilename>

<TimeStamp Value="Wednesday, February 22, 2017 time 17h 45m 28s"/>

<WinPitch Program="Corpus" Version="Version U2.00"/>

<Trans version="1.0" creationDate="Wednesday, February 22, 2017 time 17h 45m 28s" audioFilename="Redresser la France synthe.wav" videoFilename="" textFilename="Redresser la France synthe.rtf"/>

<Layer1 Name="Layer 1" ID="Layer1" Short="L 1" TagName="" TagSet="" Color="RGB(145,213,110)"/>

<Layer2 Name="Layer 2" ID="Layer2" Short="L 2" TagName="" TagSet="" Color="RGB(213,145,220)"/>

<Layer3 Name="Layer 3" ID="Layer3" Short="L 3" TagName="" TagSet="" Color="RGB(145,145,213)"/>

<UNIT speaker="Layer 1" startTime="0.000" endTime="0.100" Channel="M" Tag="" Rank="1">\_</UNIT>

<UNIT speaker="Layer 2" startTime="0.000" endTime="0.100" Channel="M" Tag="" Rank="2">\_</UNIT>

<UNIT speaker="Layer 1" startTime="0.100" endTime="0.230" Channel="M" Tag="" Rank="3">\_</UNIT>

<UNIT speaker="Layer 2" startTime="0.100" endTime="0.320" Channel="M" Tag="" Rank="4">J'ai</UNIT>

<UNIT speaker="Layer 3" startTime="0.100" endTime="6.394" Channel="M" Tag="" Rank="">J'ai agi avec les gouvernements de Jean-Marc Ayrault et de Manuel Valls pour redresser la France et la rendre plus juste </UNIT>

<UNIT speaker="Layer 1" startTime="0.230" endTime="0.320" Channel="M" Tag="" Rank="5">e</UNIT>

<UNIT speaker="Layer 1" startTime="0.320" endTime="0.425" Channel="M" Tag="" Rank="6">a</UNIT>

<UNIT speaker="Layer 2" startTime="0.320" endTime="0.650" Channel="M" Tag="" Rank="7">agi</UNIT>

<UNIT speaker="Layer 1" startTime="0.425" endTime="0.520" Channel="M" Tag="" Rank="8">\_</UNIT>

<UNIT speaker="Layer 1" startTime="0.520" endTime="0.650" Channel="M" Tag="" Rank="9">i</UNIT>

<UNIT speaker="Layer 1" startTime="0.650" endTime="0.760" Channel="M" Tag="" Rank="10">a</UNIT>

<UNIT speaker="Layer 2" startTime="0.650" endTime="0.955" Channel="M" Tag="" Rank="11">avec</UNIT>

<UNIT speaker="Layer 1" startTime="0.760" endTime="0.805" Channel="M" Tag="" Rank="12">v</UNIT>

<UNIT speaker="Layer 1" startTime="0.805" endTime="0.870" Channel="M" Tag="" Rank="13">e</UNIT>

<UNIT speaker="Layer 1" startTime="0.870" endTime="0.955" Channel="M" Tag="" Rank="14">k</UNIT>

<UNIT speaker="Layer 1" startTime="0.955" endTime="1.004" Channel="M" Tag="" Rank="15">I</UNIT>

<UNIT speaker="Layer 2" startTime="0.955" endTime="1.080" Channel="M" Tag="" Rank="16">les</UNIT>

<UNIT speaker="Layer 1" startTime="1.004" endTime="1.080" Channel="M" Tag="" Rank="17">e</UNIT>

<UNIT speaker="Layer 1" startTime="1.080" endTime="1.160" Channel="M" Tag="" Rank="18">g</UNIT>

<UNIT speaker="Layer 2" startTime="1.080" endTime="1.695" Channel="M" Tag="" Rank="19">

gouvernements</UNIT>

Any supported media files can be loaded (depending on installed Codecs, ex. **K-Lite Codec Pack Full**).

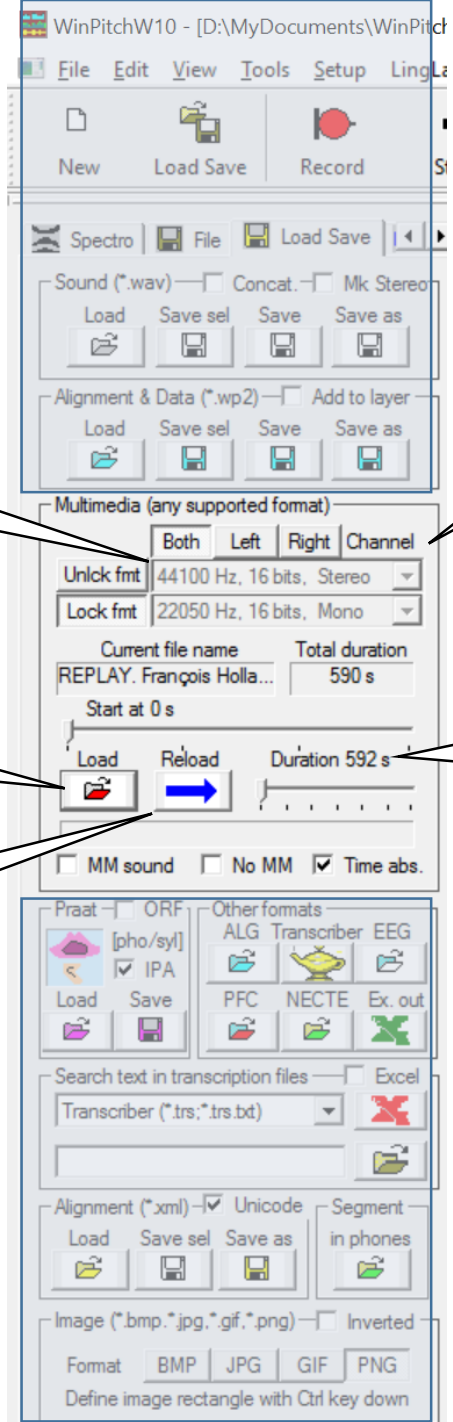
Select automatic conversion format

Load multimedia file

Reload multimedia file

Select stereo channel

Select a time window in very large files (ex. DVD film)



Load and Save functions

## Other formats:

Praat (TextGrid load and save)

ALG (GARS)

Transcriber (trs, tag)

PFC (Variant of TextGrid)

NECTE

EEG (brain waves)

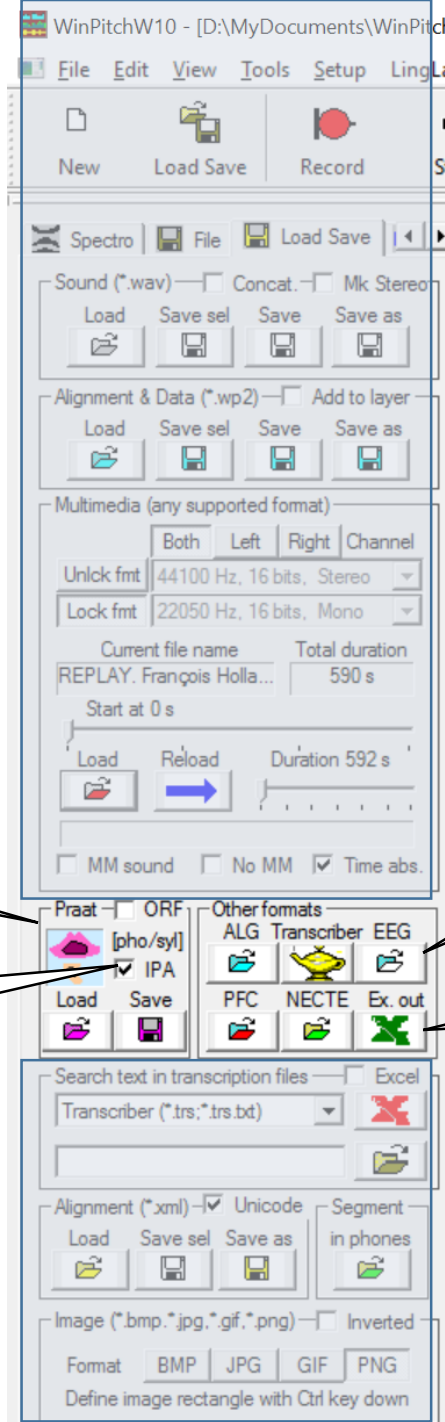
## Load and Save functions

Praat TextGrid

Convert SAMPA to IPA

Brain waves EEG

Transfer to Excel



# Integrated Concordancer

## Transcription formats:

WinPitch (wp2, xml)

Transcriber (trs, trs.txt, tag)

Praat (TextGrid, TextGrid.txt)

CRF-ALG (txt)

NECTE (xml)

Text (text, rtf)

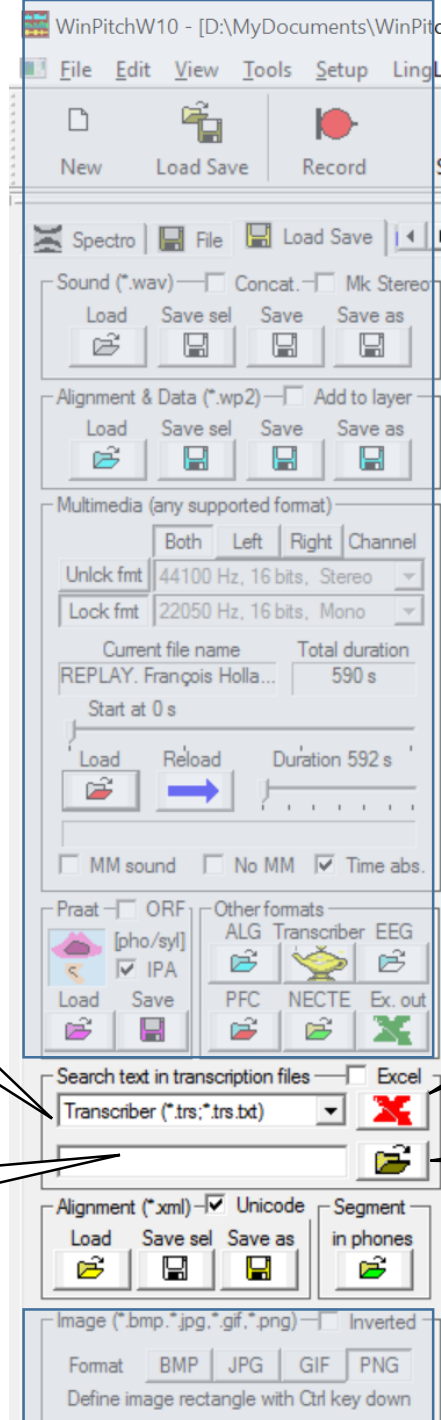
# Load and Save functions

Select searched transcription format

Words searched

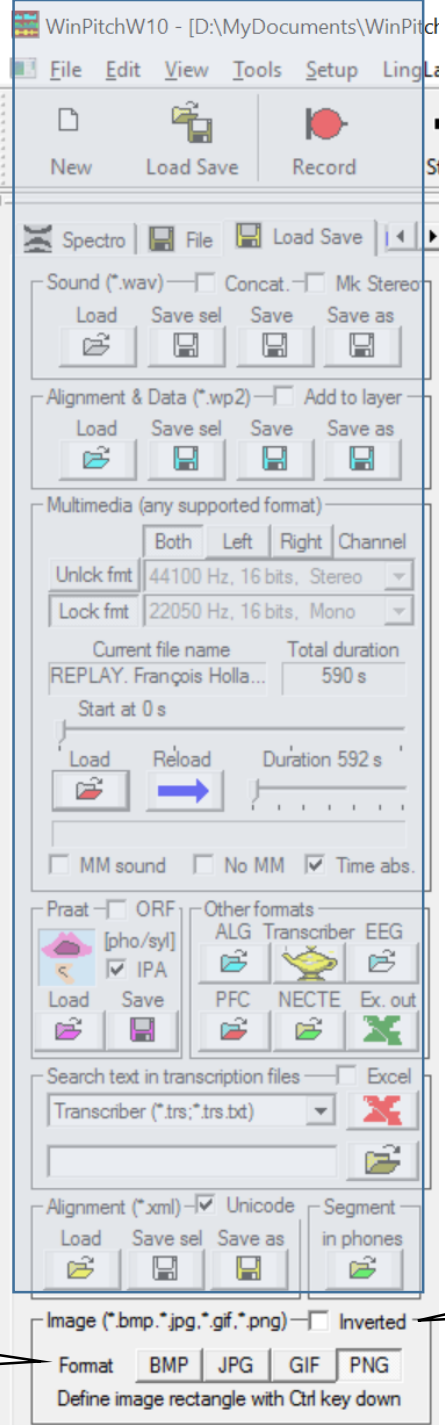
Load existing concordancer Excel file

Load group of searched files



Copy selected screen window  
Formats: bmp, jpg, gif, png

Load and Save functions



Select image format

Invert colors



Select sound card

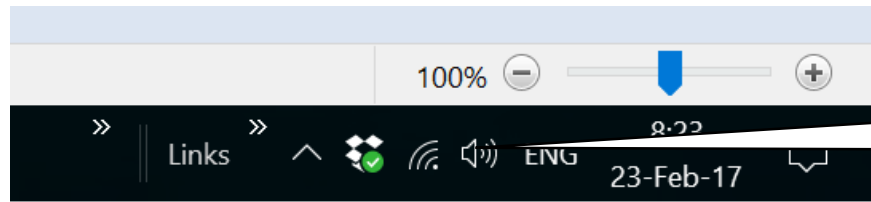
Select recording format

Select input device

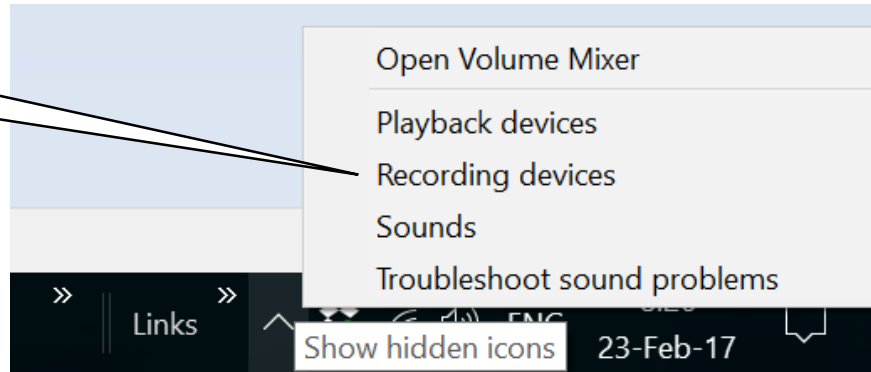
The screenshot shows a recording software interface with the following sections and settings:

- Input selection:** Device: Default device; Format: 22050 Hz, 16 bits, Mono; Input: Microphone (Realtek High L); Volume: 70%.
- Level:** L, R.
- Recording:** Record, Pause, Stop, Play, Save buttons.
- Record mode:** Stop after -> 1000 second(s); Loop after -> ; Stream to disk: C:\.
- Maximum recording time:** 667 h 23 m 4 s.
- Buffer size:** 44100000 Bytes.
- Real time:** Length.
- Real-time display:** Duration: 3 second(s); Channel: L, R; Wave, Intensity, Fo checkboxes are checked.
- Spectrogram:** Medium Wide; Off, B & W, Color options.
- Real time adjust:** One shot checkbox is unchecked; 256.

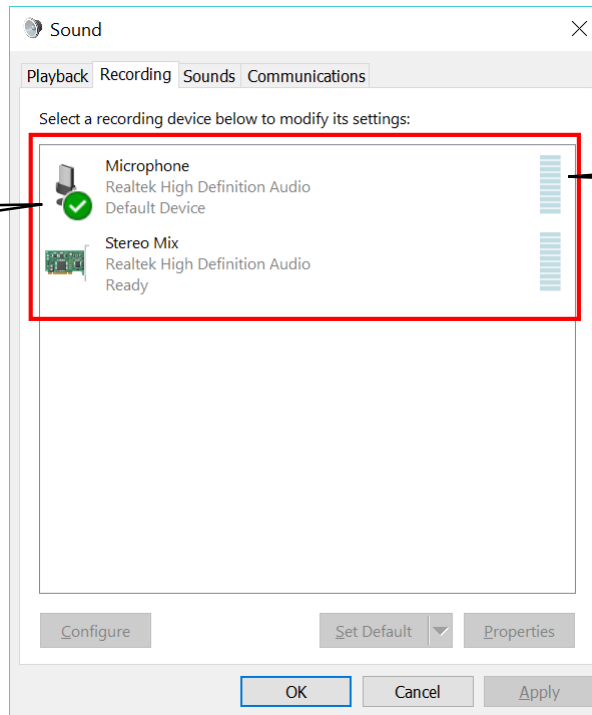
# Record functions



1 Right click (screen right lower loudspeaker icon)



2 Select Recording devices box

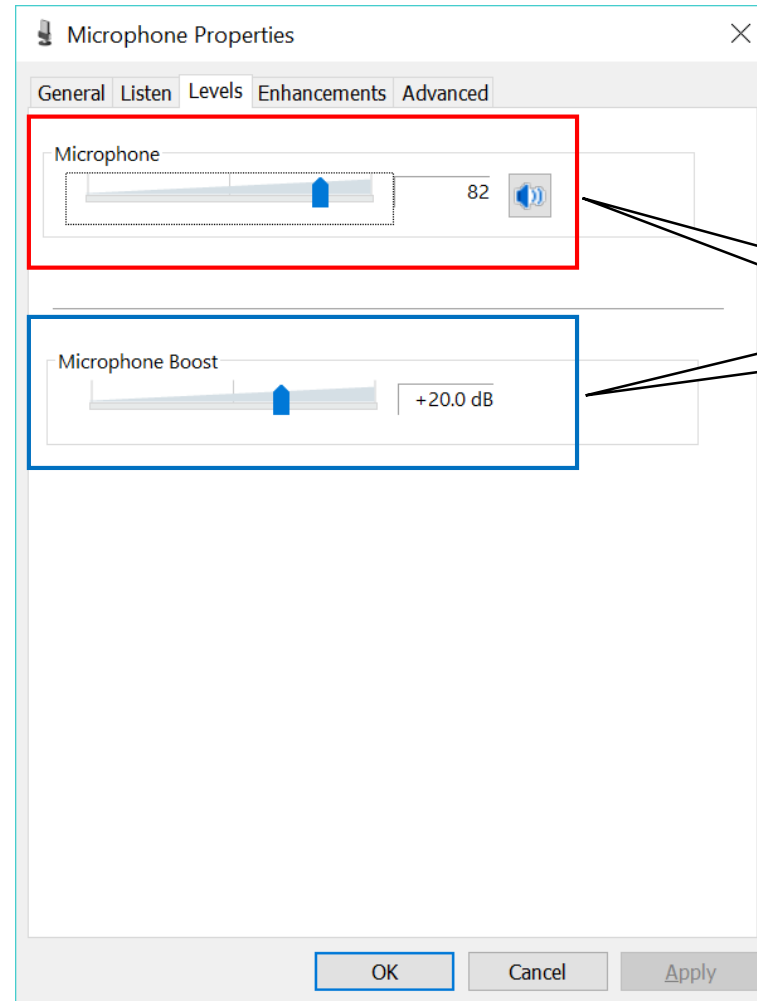


3 Select microphone

4 Check microphone level

Microphone level setup in Windows

# Windows recording



5 Adjust microphone level

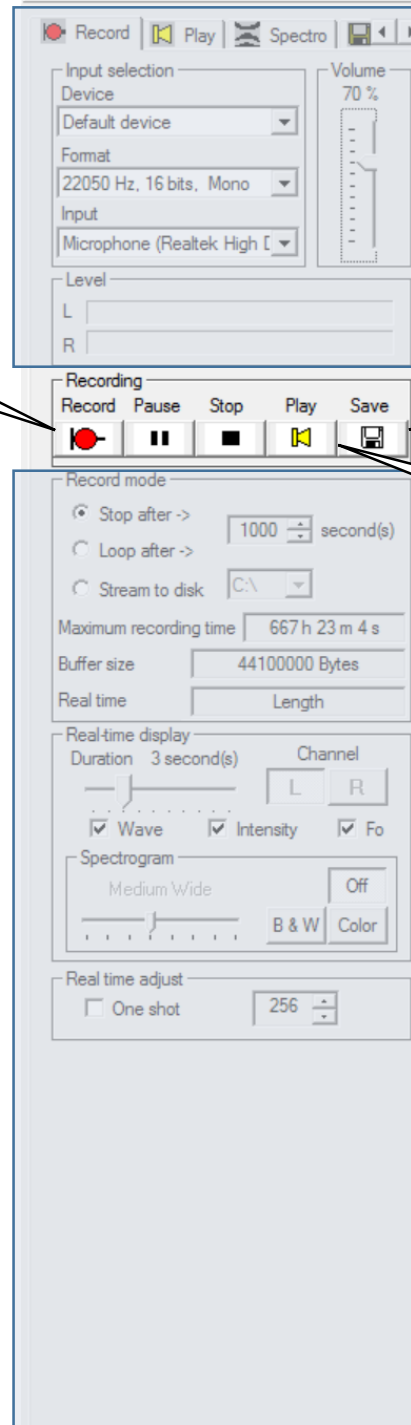
Select recording format

Recording level

Select input device

The image shows a screenshot of a recording software interface. At the top, there are buttons for 'Record', 'Play', and 'Spectro'. Below these are several control panels. The 'Input selection' panel includes a 'Device' dropdown menu set to 'Default device', a 'Format' dropdown menu set to '22050 Hz, 16 bits, Mono', and an 'Input' dropdown menu set to 'Microphone (Realtek High L)'. To the right of this panel is a 'Volume' slider set to '70 %'. Below the input selection is a 'Level' section with 'L' and 'R' channels. The 'Recording' panel is highlighted with a blue border and contains buttons for 'Record', 'Pause', 'Stop', 'Play', and 'Save'. It also includes a 'Record mode' section with radio buttons for 'Stop after ->' (set to 1000 second(s)), 'Loop after ->', and 'Stream to disk' (set to C:\). Other settings include 'Maximum recording time' (667 h 23 m 4 s), 'Buffer size' (44100000 Bytes), and 'Real time' (Length). The 'Real-time display' section has a 'Duration' of 3 second(s), 'Channel' buttons for 'L' and 'R', and checkboxes for 'Wave', 'Intensity', and 'Fo'. The 'Spectrogram' section has a 'Medium Wide' setting, a 'Spectrogram' slider, and buttons for 'Off', 'B & W', and 'Color'. The 'Real time adjust' section has a checkbox for 'One shot' and a value of 256.

# Record functions

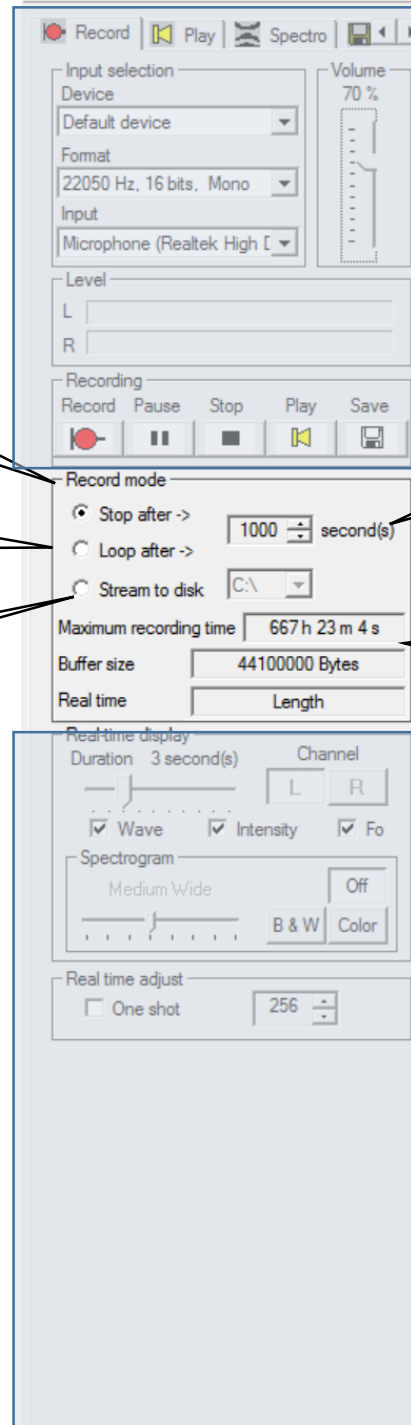


Record / Pause /  
Stop

Save recording

Playback  
recording

# Record functions



Stop after selected max time

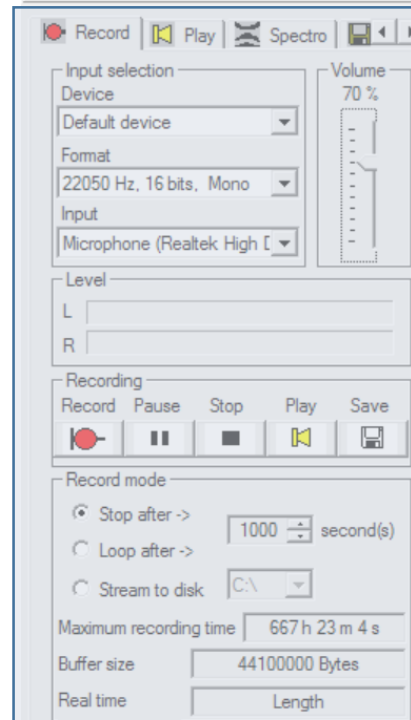
Loop after selected max time

Record on disk

Force maximum recording time

Maximum allowed recording time on disk

## Record functions



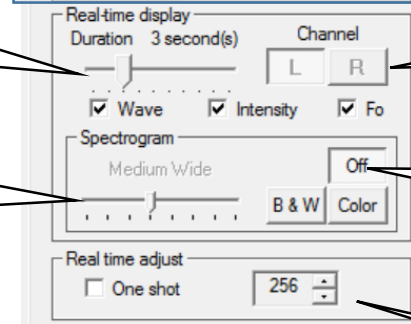
Screen duration for real time display

Spectrogram bandwidth for real time display

Select channel display in stereo mode

Select spectrogram display mode

Stop after one screen display



# Record functions

The screenshot shows an audio software interface with several key sections and callouts:

- Audio parameters:** Device: Speakers (Realtek High Def), Mono, 16 bits, 22050 Hz.
- Screen zoom:** A callout points to the 'Screen zoom' field, which is set to 1.
- Cursor time:** Set to 1.758 s.
- Buffer size:** Set to 1000 s.
- Total duration:** Set to 0.000 s. A callout points to this field.
- Volume:** Set to 70%.
- Channel selection:** Callouts point to the 'Channel' section, which has checkboxes for 'L' and 'R'.
- Playback controls:** Includes 'Record', 'Play', 'Spectro', and 'RTime' buttons.
- Analysis window:** A table with columns 'Start', 'Duration', and 'End', all showing 0.000 s.
- Navigation window:** A table with columns 'Start', 'Duration', and 'End', showing 0.000 s, 30.000 s, and 30.000 s respectively.
- Selected block(s):** A table with columns 'Name', 'ID', 'Start', and 'End'. It contains 28 rows, each with '...' in the Name column, an ID from 1 to 28, and 0.000 in both Start and End columns.

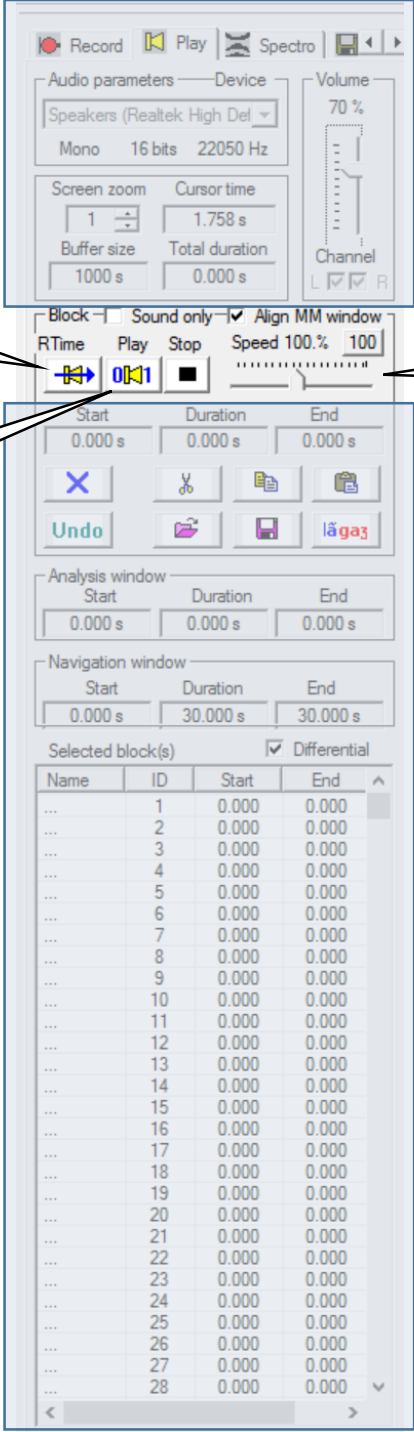
# Playback functions



Playback and display in real time

Playback at various speed

Playback speed selection



# Playback functions

# Playback functions

The screenshot shows an audio software interface with several callout boxes pointing to specific features:

- Playback and display in real time:** Points to the playback controls at the top, including Record, Play, and Spectro buttons, and the RTime, Play, and Stop buttons below.
- Sound block time parameters:** Points to the Start, Duration, and End time fields in the top section.
- Sound block cut / copy / paste:** Points to the scissors, document, and folder icons in the top section.
- Undo cut and paste:** Points to the Undo button in the top section.
- Load / Save sound block:** Points to the folder and floppy disk icons in the top section.

The interface also includes an Analysis window and a Navigation window, both with Start, Duration, and End time fields. The bottom section contains a table of selected blocks with the following data:

Name	ID	Start	End
...	1	0.000	0.000
...	2	0.000	0.000
...	3	0.000	0.000
...	4	0.000	0.000
...	5	0.000	0.000
...	6	0.000	0.000
...	7	0.000	0.000
...	8	0.000	0.000
...	9	0.000	0.000
...	10	0.000	0.000
...	11	0.000	0.000
...	12	0.000	0.000
...	13	0.000	0.000
...	14	0.000	0.000
...	15	0.000	0.000
...	16	0.000	0.000
...	17	0.000	0.000
...	18	0.000	0.000
...	19	0.000	0.000
...	20	0.000	0.000
...	21	0.000	0.000
...	22	0.000	0.000
...	23	0.000	0.000
...	24	0.000	0.000
...	25	0.000	0.000
...	26	0.000	0.000
...	27	0.000	0.000
...	28	0.000	0.000

# Playback functions

The screenshot shows an audio software interface with several key sections and callouts:

- Playback and display in real time:** Callout pointing to the top playback controls including Record, Play, and Spectro buttons.
- Sound block time parameters:** Callout pointing to the Start, Duration, and End fields for the current block.
- Sound block cut / copy / paste:** Callout pointing to the scissors, document, and folder icons.
- Undo cut and paste:** Callout pointing to the Undo button.
- Load / Save sound block:** Callout pointing to the folder and floppy disk icons.
- List of saved sound blocks:** Callout pointing to the table of saved blocks.

Analysis window			
Start	Duration	End	
0.000 s	0.000 s	0.000 s	

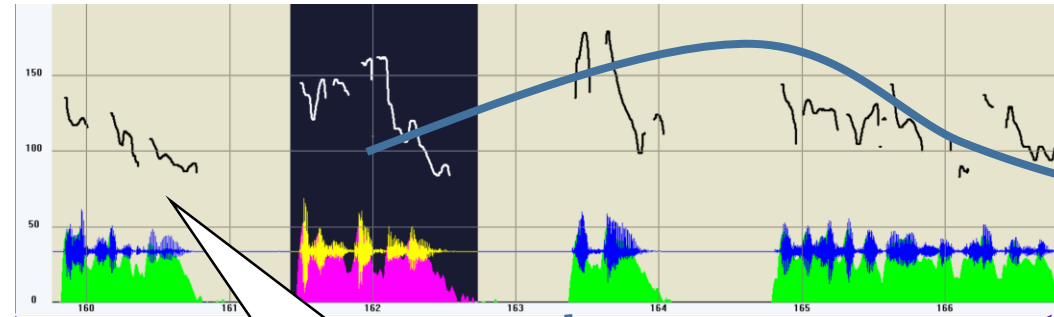
Navigation window			
Start	Duration	End	
0.000 s	30.000 s	30.000 s	

Selected block(s)			
Name	ID	Start	End
...	1	0.000	0.000
...	2	0.000	0.000
...	3	0.000	0.000
...	4	0.000	0.000
...	5	0.000	0.000
...	6	0.000	0.000
...	7	0.000	0.000
...	8	0.000	0.000
...	9	0.000	0.000
...	10	0.000	0.000
...	11	0.000	0.000
...	12	0.000	0.000
...	13	0.000	0.000
...	14	0.000	0.000
...	15	0.000	0.000
...	16	0.000	0.000
...	17	0.000	0.000
...	18	0.000	0.000
...	19	0.000	0.000
...	20	0.000	0.000
...	21	0.000	0.000
...	22	0.000	0.000
...	23	0.000	0.000
...	24	0.000	0.000
...	25	0.000	0.000
...	26	0.000	0.000
...	27	0.000	0.000
...	28	0.000	0.000

# Playback functions

# Zoom levels



Play Spectro File Lo

Audio parameters Device  
Speakers (Realtek High Def) Volume 70 %  
Mono 16 bits 22050 Hz

Screen zoom Cursor time  
1 161.302 s

Block  Sound only  Align MM window  
RTime Play Stop Speed 100.0% 100

Start	Duration	End
161.424 s	1.310 s	162.734 s

Undo

Analysis window

Start	Duration	End
159.757 s	7.060 s	166.817 s

Navigation window

Start	Duration	End
151.000 s	30.000 s	181.000 s

Selected block(s)  Differential

Name	ID	Start	End
...	1	0.000	0.000
...	2	0.000	0.000
...	3	0.000	0.000
...	4	0.000	0.000
...	5	0.000	0.000
...	6	0.000	0.000
...	7	0.000	0.000
...	8	0.000	0.000
...	9	0.000	0.000
...	10	0.000	0.000
...	11	0.000	0.000
...	12	0.000	0.000
...	13	0.000	0.000
...	14	0.000	0.000
...	15	0.000	0.000
...	16	0.000	0.000
...	17	0.000	0.000
...	18	0.000	0.000
...	19	0.000	0.000
...	20	0.000	0.000
...	21	0.000	0.000
...	22	0.000	0.000
...	23	0.000	0.000
...	24	0.000	0.000
...	25	0.000	0.000
...	26	0.000	0.000
...	27	0.000	0.000
...	28	0.000	0.000

Analysis display of block selected in navigation window

Analysis and navigation display time parameters

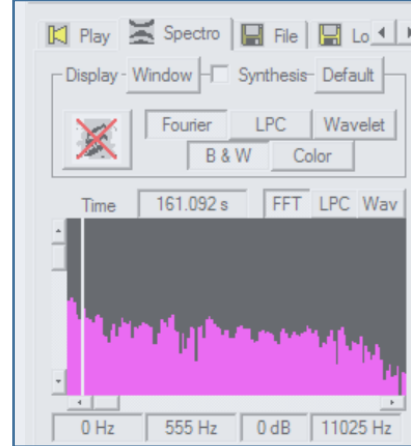


Adjust navigation window duration

The image shows a software interface for displaying spectrograms. At the top, there are menu items: Play, Spectro, File, and Lo. Below the menu is a 'Display' section with a 'Window' button and a 'Synthesis' section with a 'Default' button. The 'Display' section includes a checkbox with a red 'X' over it, labeled 'Display spectrogram On/Off'. The 'Synthesis' section includes buttons for 'Fourier', 'LPC', and 'Wavelet', and a sub-section with 'B & W' and 'Color' buttons. Below this is a 'Time' field showing '161.092 s' and a 'FFT' section with 'LPC' and 'Wav' buttons. The main display area shows a spectrogram with a vertical cursor. Below the spectrogram, there are four data fields: '0 Hz', '555 Hz', '0 dB', and '11025 Hz'. A large blue-bordered box contains detailed settings for the spectrogram analysis, including 'Image' settings (Zero, Contrast, High, Size, Position), 'Fourier' settings (11 ms, N=256, Align: Hann(ing), 4961 Hz), 'LPC analysis' settings (11 ms, N=256, Number: 12, F1-F4), and 'Wavelet' settings (4 Hz, 10 Hz, N=256, 7 Cycles, 1 Gauss, Fs: 1024 Hz). At the bottom of the blue box, it says 'Ctrl to freeze the cursor Shift to freeze the time'. Callout boxes point to these various features:

- Display spectrogram On/Off**: Points to the checkbox with a red 'X' over it.
- Spectrum at cursor position**: Points to the spectrogram plot.
- Select type of spectrogram (Fourier / LPC / Wavelet)**: Points to the 'Fourier', 'LPC', and 'Wavelet' buttons.
- Select Black and White / Color spectrogram**: Points to the 'B & W' and 'Color' buttons.
- Spectrum time scale, frequency and intensity values at cursor position**: Points to the '0 Hz', '555 Hz', '0 dB', and '11025 Hz' data fields.

# Spectrogram functions



Spectrogram image parameters  
(black zero level / Contrast / High  
frequency boost)

Image

Zero	Contrast	High	Size	Position
-15 dB	28	3 dB	99 %	100 %

Link

Select spectrogram image  
position and size

Fourier

11 ms Medium Wide Fmax

N= 256

Align Hann(ing) 4961 Hz

LPC analysis  Fomants

11 ms Number 12

N= 256

0 Hz 0 Hz 0 Hz 0 Hz

F1 F2 F3 F4

Wavelet  Fourier  2 Channel  Filters

4 Hz 4961 Hz

10 Hz

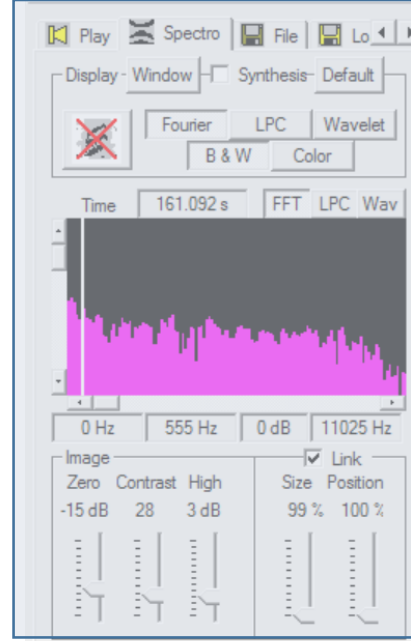
N= 256

7 Cycles

1 Gauss Fs 1024 Hz

Ctrl to freeze the cursor Shift to freeze the time

# Spectrogram functions



Spectrogram bandwidth selection

Align spectrogram and F0 frequency scales

Spectrogram maximum frequency scale selection

Spectrogram window type selection

Fourier 11 ms Medium Wide Fmax  
 N= 256  
 Align Hann(ing) 4961 Hz

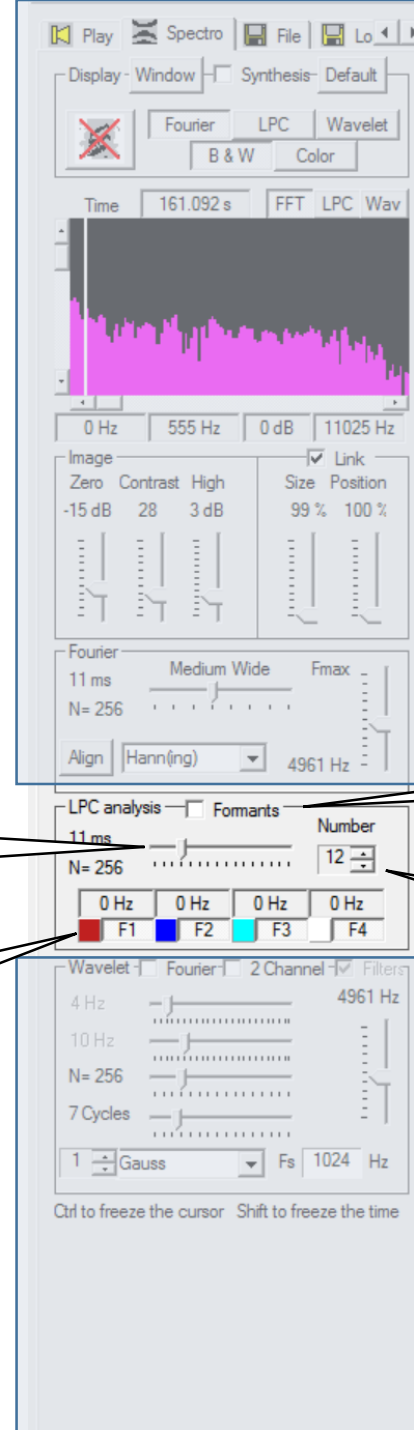
LPC analysis Fomants Number  
 11 ms 12  
 N= 256  
 0 Hz 0 Hz 0 Hz 0 Hz  
 F1 F2 F3 F4

Wavelet Fourier 2 Channel Filters  
 4 Hz 4961 Hz  
 10 Hz  
 N= 256  
 7 Cycles  
 1 Gauss Fs 1024 Hz

Ctrl to freeze the cursor Shift to freeze the time

# Spectrogram functions

# Spectrogram functions



LPC spectrogram bandwidth selection

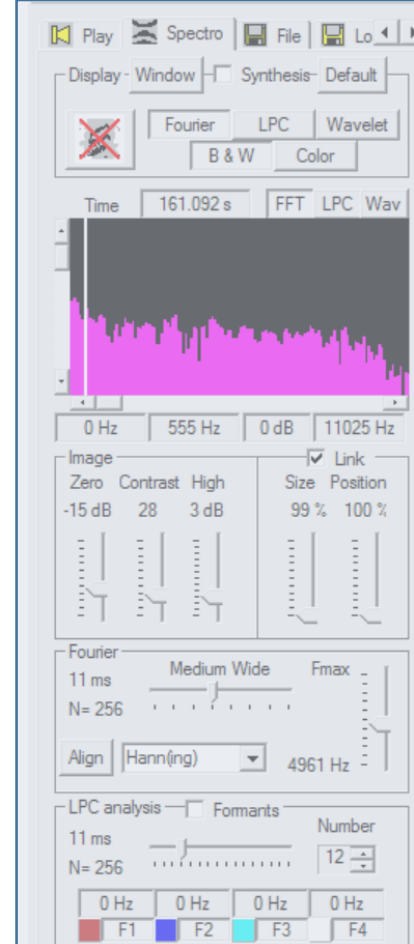
Formant frequencies

Display formants

LPC number of coefficients selection



# Spectrogram functions

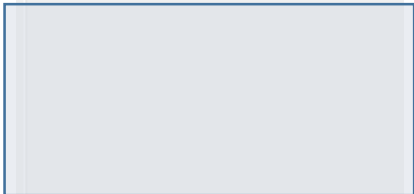


EEG spectrogram selection (Fourier / Wavelet)

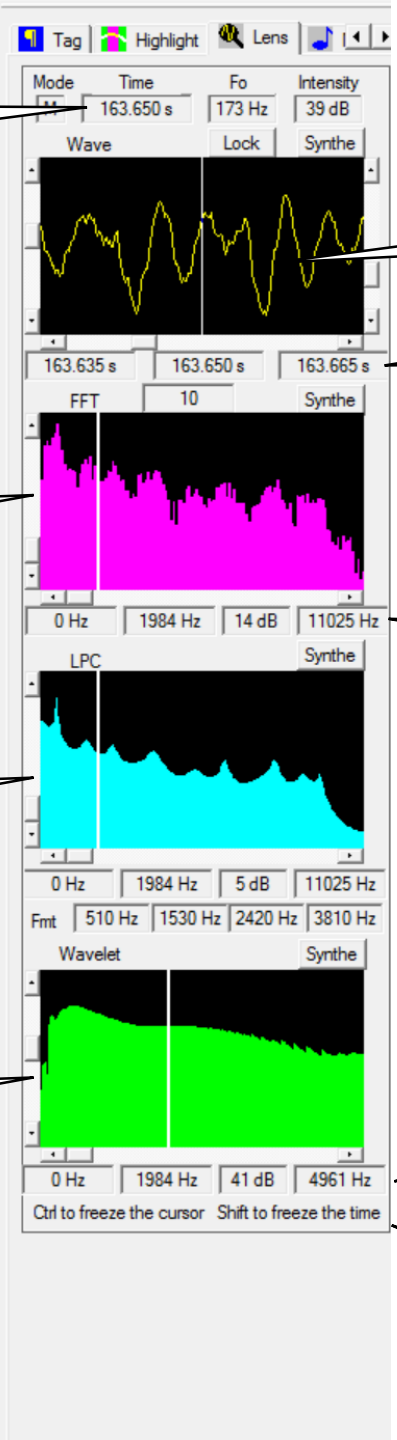
Wavelet parameters

EEG frequency scale

EEG sampling frequency



Sound time, F0 and intensity values at cursor position



Waveform

Waveform display parameters

Fourier spectrum

Fourier display parameters

LPC spectrum

LPC display parameters

Wavelet spectrum

Wavelet display parameters

Restrict cursor movement

Lens display at cursor position

The image shows a software interface for text functions. The interface includes a menu bar with 'Ab Text', 'Tag', 'Highlight', and 'L'. Below the menu bar are buttons for 'Create - Edit - Delete' and 'Font'. The 'Font' section contains a 'Load' button, a 'Clear' button, and a font selection dropdown menu currently set to 'Arial Unicode MS'. Below the font selection are controls for 'Size' (a dropdown menu showing '26' with minus and plus buttons), and formatting buttons for 'Bold' (B), 'Italic' (I), and 'Under' (U). Further down are controls for 'Align' (with 'Ctrl to release'), 'On position' (a dropdown menu showing '61'), and 'Nb Playback' (a dropdown menu showing '0'). A 'Select color (Shift to change)' section features four color swatches (yellow, green, blue, red) labeled 'R', '1', '2', and '3'. Below the color swatches are buttons for 'Edit all', 'Create', 'Edit', and 'Delete'. There are radio buttons for 'Character', 'Word' (selected), and 'Group'. A text input field contains the text 'euh'. Below the text input field is a note: 'Control key down to select text in analysis window'. The 'Transfer layer text' section has a dropdown menu showing 'L 1' and a button 'Text from layer to screen'. The 'Navigate through LIMIT sections' section has a dropdown menu showing 'Section 1' and a set of navigation buttons: left arrow, square, right arrow, double left arrow, and double right arrow.

Load an existing text (rtf or txt format)

Select text size

Select text font

Select text format

# Text functions

# Text functions

The image shows a software interface for text functions. The interface is divided into several sections:

- Font Section:** Includes buttons for 'Load', 'Clear', and a font dropdown menu set to 'Arial Unicode MS'. Below this are 'Size' controls (a dropdown showing '26' and '+'/'-' buttons), and 'Bold', 'Italic', and 'Underline' buttons.
- Alignment and Position Section:** Features an 'Align' button, 'Ctrl to release' text, 'On position' (a dropdown showing '61'), and 'Nb Playback' (a dropdown showing '0').
- Select color Section:** Titled 'Select color (Shift to change)', it contains four color swatches: yellow, green, blue, and red. Below each swatch is a button labeled 'R', '1', '2', and '3' respectively.
- Text Editing Section:** Contains 'Edit all', 'Create', 'Edit', and 'Delete' buttons. Below these are radio buttons for 'Character', 'Word', and 'Group', with 'Word' selected. A text area contains the text 'euh'.
- Transfer layer text Section:** Includes a dropdown menu set to 'L 1' and a button labeled 'Text from layer to screen'.
- Navigate through LIMIT sections Section:** Shows 'Section 1' and a set of navigation icons: a left arrow, a square, a right arrow, and a save icon.

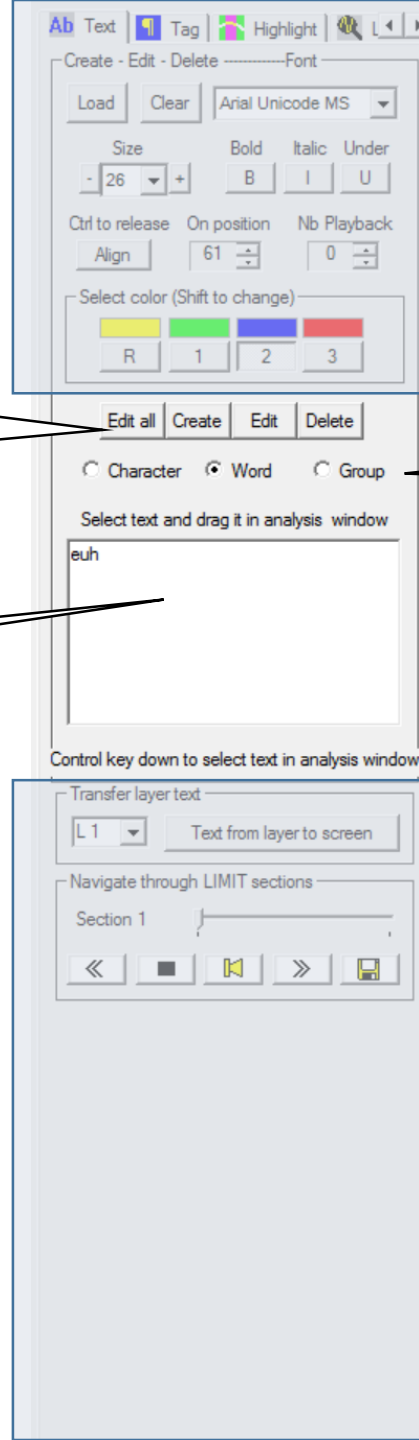
Callouts point to specific features:

- 'Align text with selected position' points to the 'Align' button.
- 'Select text color' points to the color swatches.
- 'Reserved for LTL' points to the 'Nb Playback' dropdown.
- 'Adjust aligned text position' points to the 'On position' dropdown.

Text edit functions  
(Edit all / Create / Edit selected /  
Delete selected)

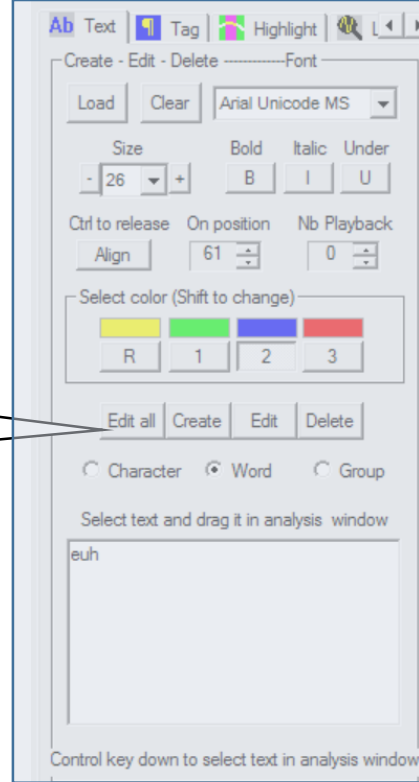
Text box

Text selection  
granularity

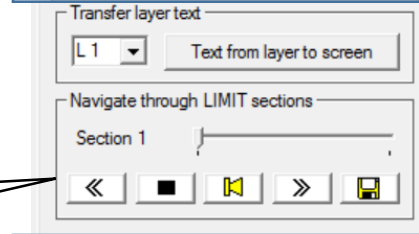


Text functions

Text edit functions  
(Edit all / Create / Edit selected /  
Delete selected)

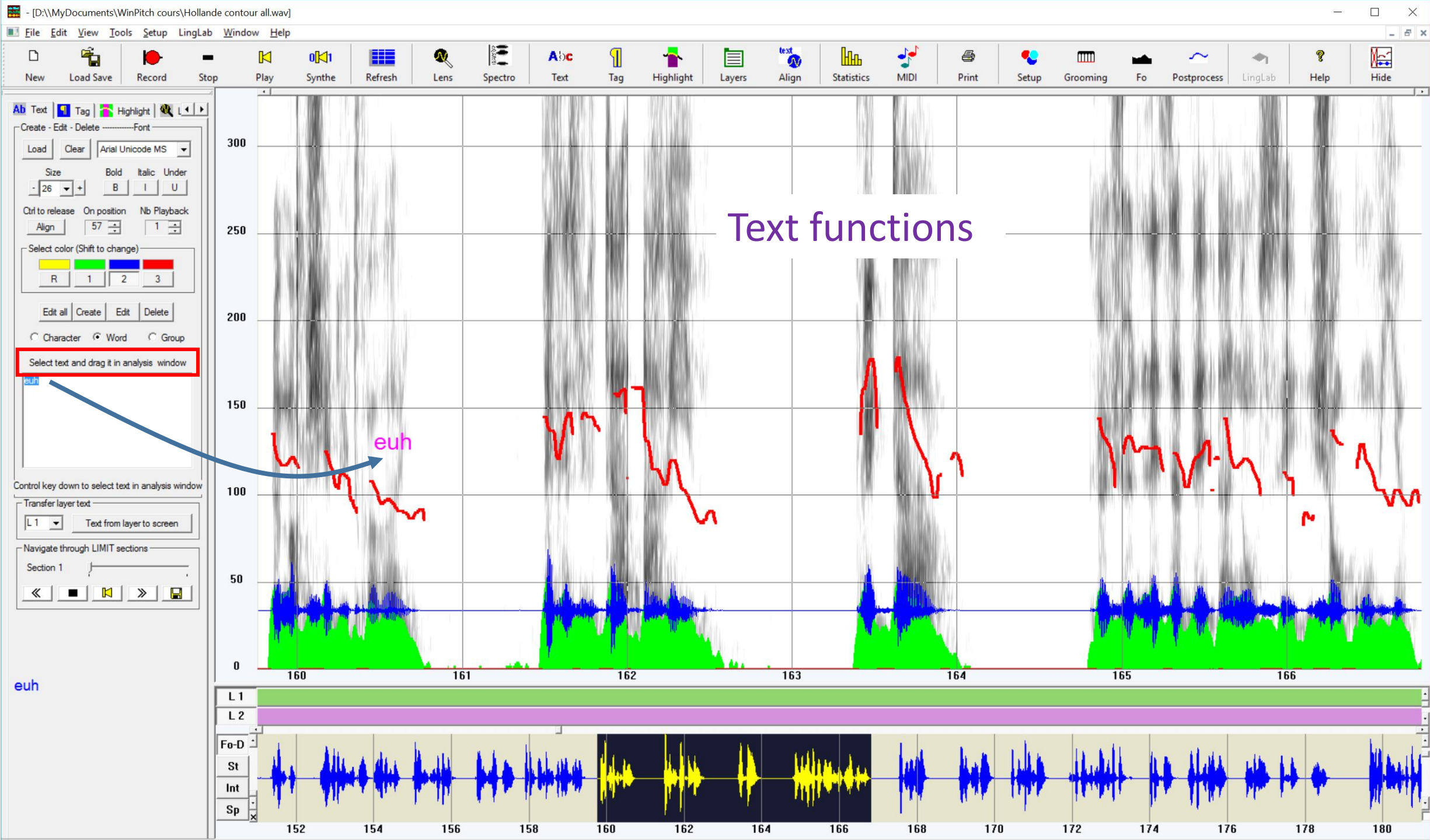


LTL LIMIT test functions



Text transfer selection (from Layer  
to Screen / from Screen to Layer)

# Text functions



Ab Text Tag Highlight

Navigate Prec Stop Play Next  
 LIMIT << <<< >>> >>

Section 1 Adjust = 91 %

Highlight segment  
All Create Edit Delete

Highlight definition  
 Update  Dotted 6 Fo Width  
Load Del Label Add Save

Select features (Shift to change color)  
Fo Intensity Wave Spectro Bckgnd

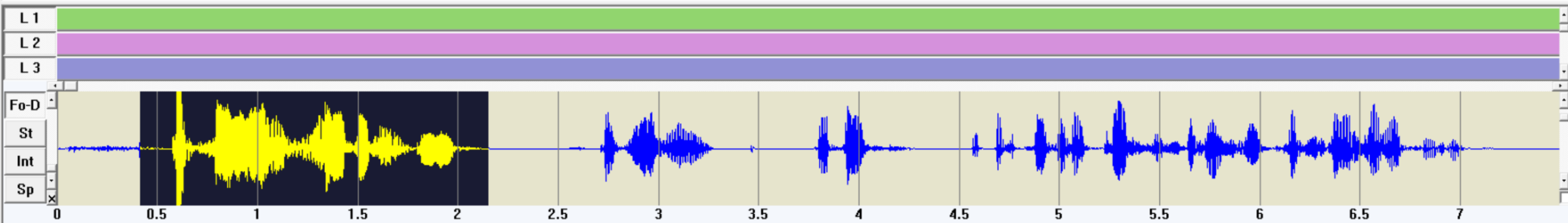
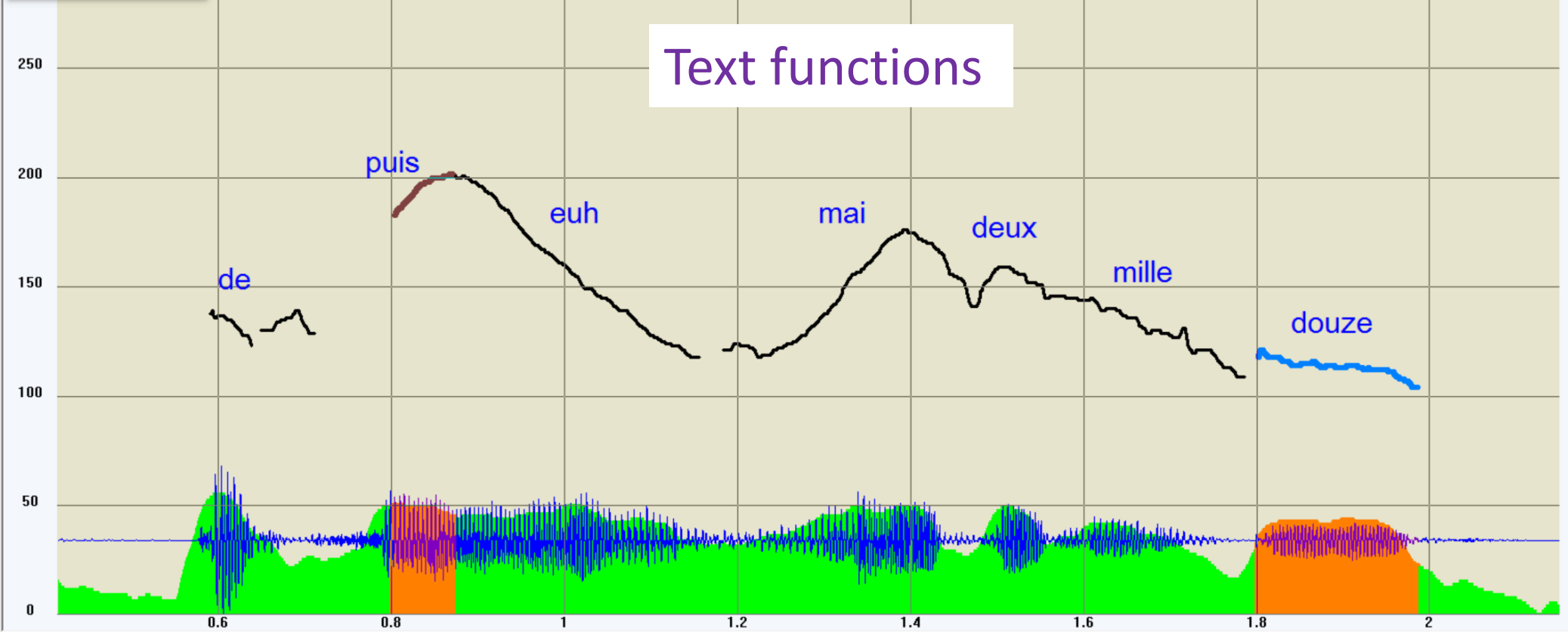
Glissando  
Delta Time Delta Fo Delta Int  
0.071 s 201 Hz -4 dB  
Gliss [St/s] Threshold 100coeff l coeff  
<> 32 1

Name	Start	End
C1	0.802	0.874
C2	1.802	1.988

Label list

- C1
- C2
- Label
- LIMIT

# Text functions





Tables Align Ab Text T<sub>i</sub>

Create - Edit - Delete Font

Load Clear Arial Unicode MS

Size 26 Bold B Italic I Under U

Ctrl to release On position Nb Playback

Align 76 0

Select color (Shift to change)

R 1 2 3

Edit all Create Edit Delete

Character Word Group

Select text and drag it in analysis window

depuis euh mai deux mille douze

Control key down to select text in analysis window

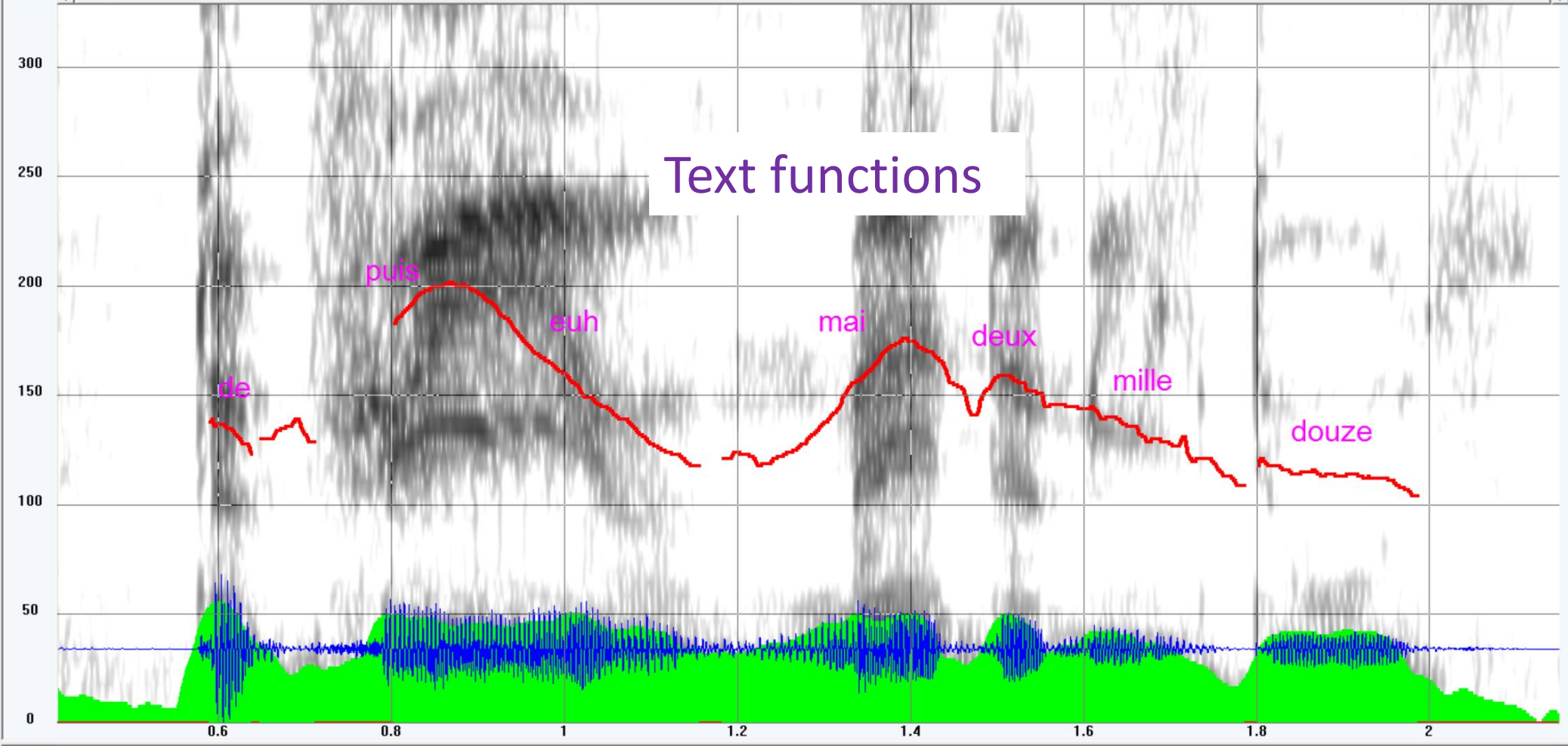
Transfer layer text

L 1 Text from layer to screen

Navigate through LIMIT sections

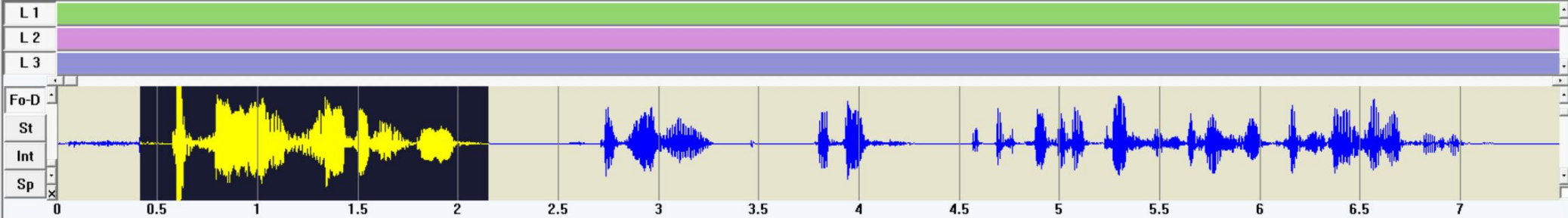
Section 1

<< [ ] >> [ ]



# Text functions

depuis euh mai deux m...



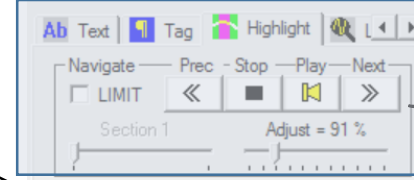
# Highlight functions

The screenshot shows a software interface for LTL sections setup and playback. The interface is divided into several sections:

- Navigation:** Includes buttons for Navigate, Prec, Stop, Play, and Next. A checkbox for LIMIT is present.
- Section 1:** A progress bar and an 'Adjust = 91 %' control.
- Highlight segment:** A section with buttons for All, Create, Edit, and Delete.
- Highlight definition:** Includes checkboxes for Update and Dotted, a 'Fo Width' control, and buttons for Load, Del, Label, Add, and Save.
- Select features:** A section with a note 'Select features (Shift to change color)' and buttons for Fo, Intensity, Wave, Spectro, and Bckgnd.
- Glissando:** A section with controls for Delta Time (0.071 s), Delta Fo (201 Hz), Delta Int (-4 dB), Gliss [St/s], Treshold, 100coeff, and 1 coeff.
- Table:** A table with columns Name, Start, and End, containing two rows: C1 (0.802, 0.874) and C2 (1.802, 1.988).

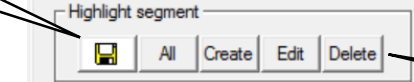
Callout boxes point to the following features:

- LTL sections setup:** Points to the 'Section 1' label and the progress bar.
- Section number:** Points to the 'Section 1' label.
- LTL test navigation and playback:** Points to the 'Navigate', 'Prec', 'Stop', 'Play', and 'Next' buttons.
- Adjust section display:** Points to the 'Adjust = 91 %' control.

A set of navigation and playback controls. It includes a menu bar with 'Text', 'Tag', and 'Highlight' options. Below the menu bar are buttons for 'Navigate', 'Prec', 'Stop', 'Play', and 'Next'. There is a 'LIMIT' checkbox and a 'Section 1' indicator. A progress bar is shown with 'Adjust = 91%'.

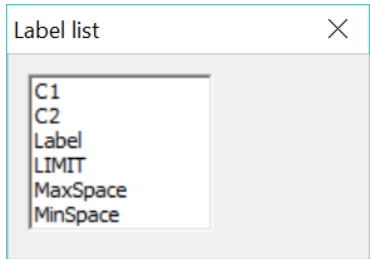
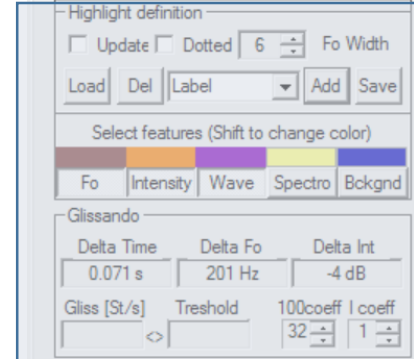
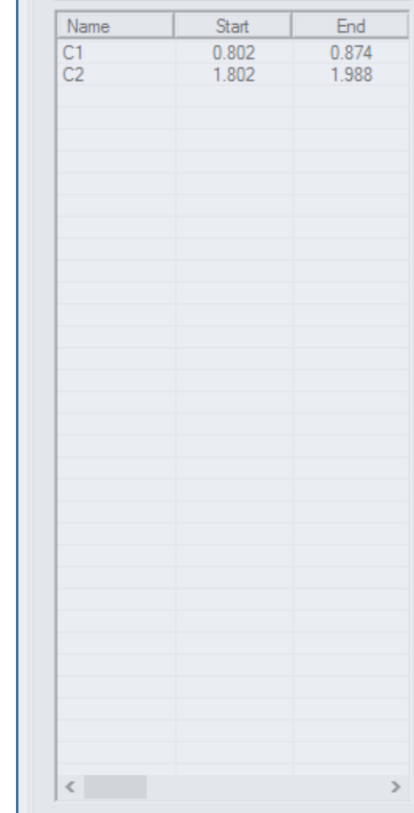
Save highlighted sections

LTL test navigation and playback

A panel with a 'Highlight segment' header and a save icon button. Below it are buttons for 'All', 'Create', 'Edit', and 'Delete'.

List of created highlight labels

Create / Edit / Delete selected highlight

A small window titled 'Label list' with a close button (X). It contains a list of labels: C1, C2, Label, LIMIT, MaxSpace, and MinSpace.A 'Highlight definition' panel with 'Update' and 'Dotted' checkboxes and a 'Fo Width' value of 6. It has 'Load', 'Del', 'Label', 'Add', and 'Save' buttons. Below are color-coded buttons for 'Fo', 'Intensity', 'Wave', 'Spectro', and 'Bckgnd'. There is also a 'Glissando' section with 'Delta Time', 'Delta Fo', and 'Delta Int' fields.

Name	Start	End
C1	0.802	0.874
C2	1.802	1.988

Highlight functions

# Highlight functions

The image shows a software interface for highlight functions. The interface includes a top navigation bar with buttons for 'Text', 'Tag', 'Highlight', and 'L'. Below this is a 'Navigate' section with 'Prec', 'Stop', 'Play', and 'Next' buttons, and a 'LIMIT' checkbox. A 'Section 1' progress bar and 'Adjust = 91 %' are also present. The 'Highlight segment' section has a 'Highlight' icon and buttons for 'All', 'Create', 'Edit', and 'Delete'. The 'Highlight definition' section includes an 'Update' checkbox, a 'Dotted' radio button, a '6' value in a spin box, and a 'Fo Width' label. Below this are 'Load', 'Del', and 'Label' buttons, followed by a 'Label' dropdown menu and an 'Add' button. A 'Select features (Shift to change color)' section shows five colored buttons: 'Fo' (red), 'ensity' (orange), 'Wave' (purple), 'Spectro' (yellow), and 'Bckgrnd' (blue). The bottom section contains a table with columns for 'Delta Fo' and 'Delta Int', and a 'Threshold' section with '100coeff' and '1coeff' labels and spin boxes. A table below shows 'Start' and 'End' values for 'C1' and 'C2'. A 'Label list' dialog box is shown in the bottom right, containing a list of labels: 'C1', 'C2', 'Label', 'LIMIT', 'MaxSpace', and 'MinSpace'. Callout boxes point to various elements: 'Use dotted F0 curve' points to the 'Dotted' radio button; 'Select F0 curve thickness' points to the '6' spin box; 'Load list of saved highlight labels' points to the 'Load' button; 'Delete selected label' points to the 'Del' button; 'Save highlight label definitions' points to the 'Add' button; 'Add new highlight label to the list' points to the 'Label' dropdown; and 'Select highlight features (On F0, Intensity, waveform, spectrogram and Background display)' points to the colored feature buttons.

Use dotted F0 curve

Select F0 curve thickness

Load list of saved highlight labels

Delete selected label

Save highlight label definitions

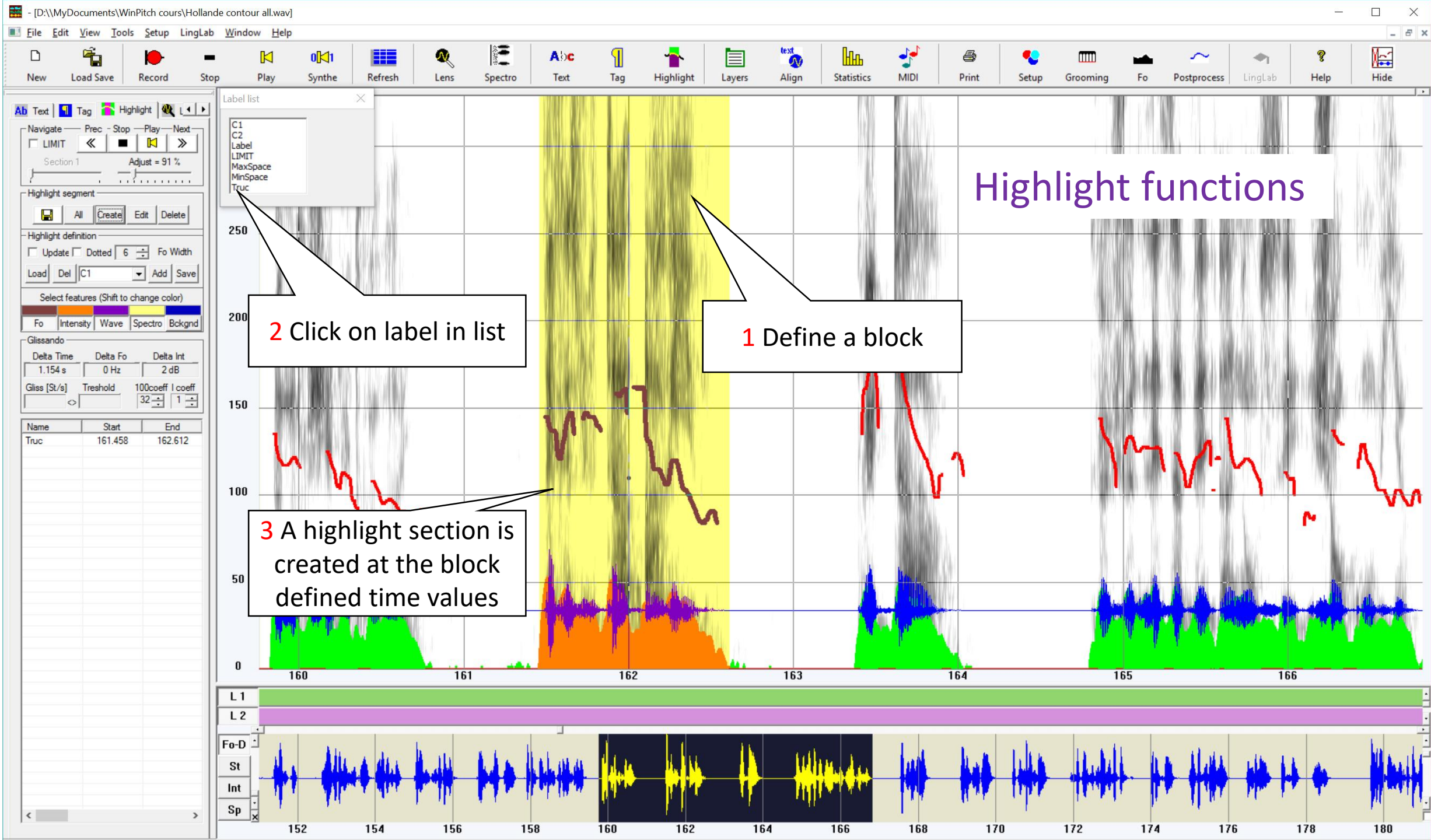
Add new highlight label to the list

Select highlight features (On F0, Intensity, waveform, spectrogram and Background display)

	Start	End
C1	0.802	0.874
C2	1.802	1.988

Label list

- C1
- C2
- Label
- LIMIT
- MaxSpace
- MinSpace





Load Save Synthesis Table

Sound (\*.wav) Concat Mk Stereo  
Load Save sel Save Save as

Alignment & Data (\*.wp2) Add to layer  
Load Save sel Save Save as

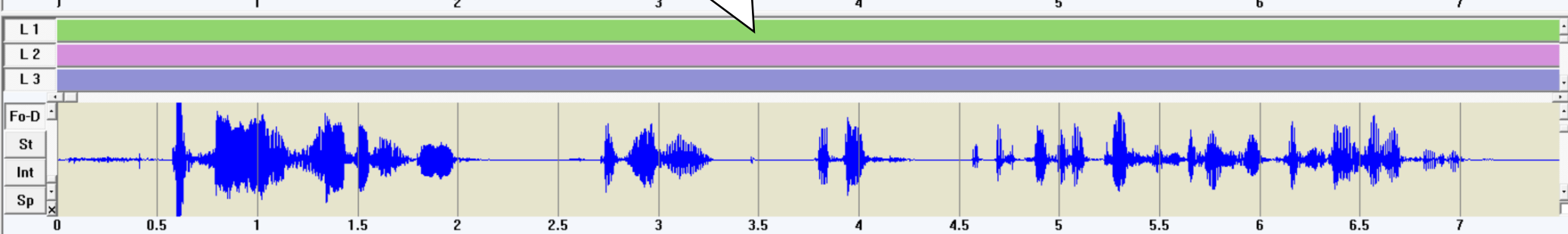
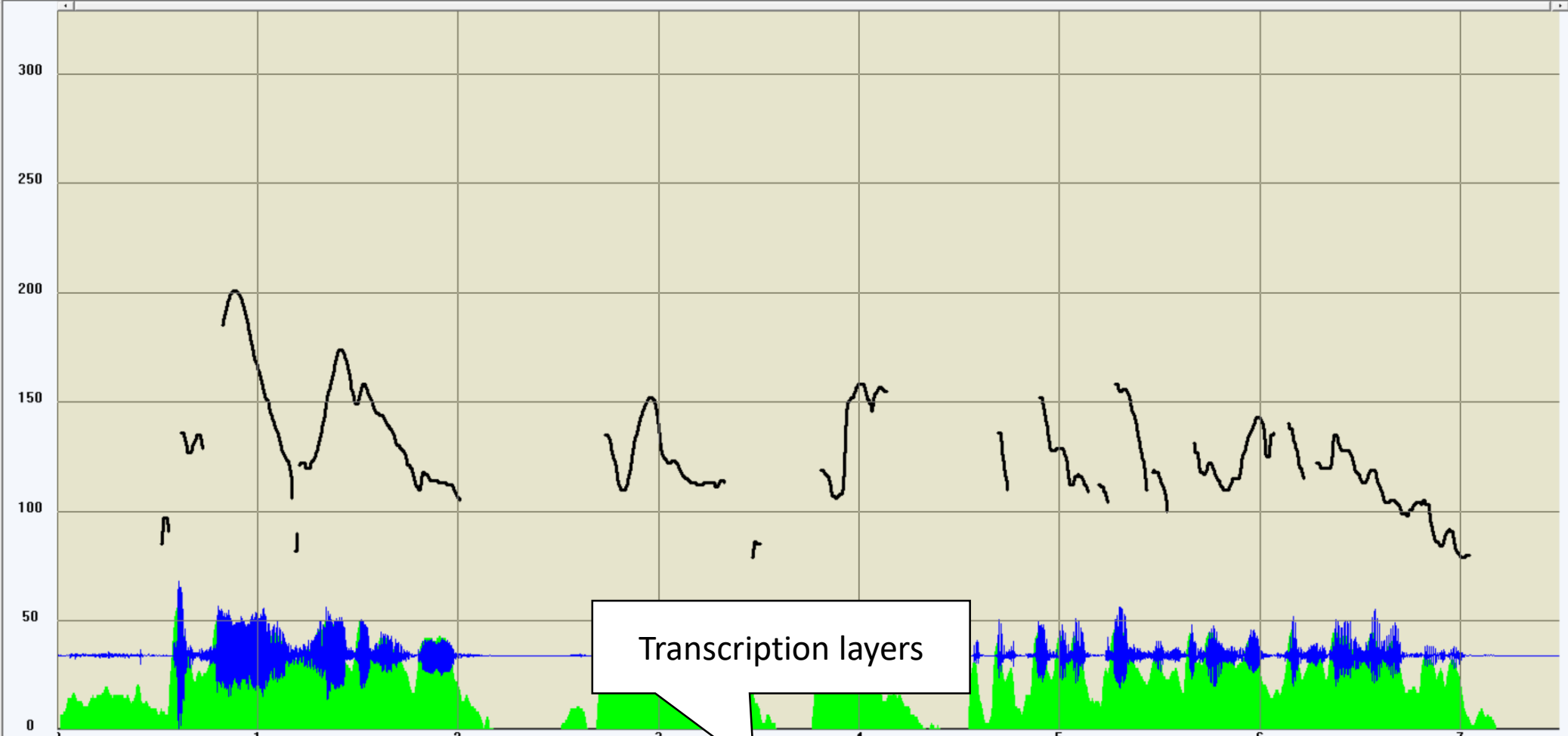
Multimedia (any supported format)  
Both Left Right Channel  
Unlck fmt 22050 Hz, 16 bits, Mono  
Lock fmt 22050 Hz, 16 bits, Mono  
Current file name Total duration  
Start at 0 s  
Load Reload Duration 30 s  
 MM sound  No MM  Time abs.

Praat ORF Other formats  
[pho/syl] ALG Transcriber EEG  
 IPA  
Load Save PFC NECTE Ex. out

Search text in transcription files Excel  
Necte (\*.xml) X

Alignment (\*.xml) Unicode Segment  
Load Save sel Save as in phones

Image (\*.bmp;\*.jpg;\*.gif;\*.png) Inverted  
Format BMP JPG GIF PNG  
Define image rectangle with Ctrl key down



## Layers functions

Erase all transcription for selected layer

Copy selected layer

Paste selected layer

Transfer layer transcription to Excel

Transfer layer transcription to a text file

N	Layer1
7	Mes chers co...
8	de Jean Marc ...
9	et de Manuel ...
10	pour redresser ...
11	et la rendre plu...
12	Aujourd'hui
13	au moment où ...
14	les comptes pu...
15	la Sécurité soc...
16	et la dette du p...
17	J'ai
18	également vou...
19	puisse être co...
20	parce que c'es...
21	Je l'ai même él...
22	pour permettre ...
23	qui avaient co...
24	très tôt leur vie...
25	de partir plus p...
26	J'ai fait en sorte
27	qu'à chacune ...
28	puisse être ac...
29	une compléme...
30	Dans ce conte...
31	placer la Franc...
32	Au premier rang
33	de la lutte cont...
34	et c'est à Paris
35	oui à Paris
36	que l'accord hi...
37	et qui a engagé
38	le monde entier
39	J'ai voulu auss...
40	ceux là même ...
41	dans la périod...
42	parce que l'éc...
43	c'est le pilier
44	de la République
45	J'ai fait avanc...

The image shows a software interface with a table of data and a control panel. The table has columns 'N', 'Text', and 'Start [s]'. The control panel includes buttons for 'Erase', 'Playback', 'Select Next', and 'Select Preceding'.

**Erase selected segment in selected layer**

**Select next segment in selected layer**

**Playback selected segment in selected layer in morphing mode**

**Playback selected segment in selected layer in morphing mode**

**Select preceding segment in selected layer**

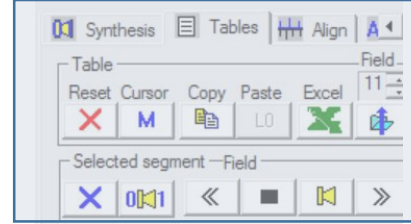
N	Text	Start [s]
1	...s co...	0.049
2	uh	3.682
3		4.392
4	re	5.358
5		6.517
6	e laqu...	7.623
7	rec le...	10.607
8		
9		
10		
11		
12		
13		
14	les comptes pu...	21.649
15	la Sécurité soc...	24.231
16	et la dette du p...	27.014
17	J'ai	29.556
18	également vou...	31.210
19	puisse être co...	33.737
20	parce que c'es...	35.619
21	Je l'ai même él...	37.320
22	pour permettre ...	39.030
23	qui avaient co...	41.641
24	très tôt leur vie...	42.910
25	de partir plus p...	45.113
26	J'ai fait en sorte	48.069
27	qu'à chacune ...	50.406
28	puisse être ac...	52.837
29	une compléme...	54.970
30	Dans ce conte...	56.772
31	placer la Franc...	60.449
32	Au premier rang	62.693
33	de la lutte cont...	64.172
34	et c'est à Paris	66.580
35	oui à Paris	67.596
36	que l'accord hi...	69.141
37	et qui a engagé	72.683
38	le monde entier	74.544
39	J'ai voulu auss...	75.783
40	ceux là même ...	80.500
41	dans la périod...	82.611
42	parce que l'éc...	84.129
43	c'est le pilier	85.325
44	de la République	86.390
45	J'ai fait avanc...	87.825

# Layers functions



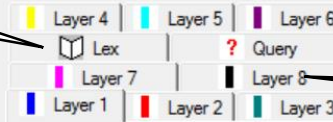
Create lexicon for selected layer

N	Lex	Layer
2	2012	Layer1
3	2012	Layer1
4	Au	Layer1
5	Au	Layer1
6	Aujourd'hui	Layer1
7	Aujourd'hui	Layer1
8	Aussi	Layer1
9	Ayrault	Layer1
10	Centrafrique	Layer1
11	Comme	Layer1
12	Comme	Layer1
13	Dans	Layer1
14	Dans	Layer1
15	Dans	Layer1
16	Dans	Layer1
17	Denis	Layer1
18	Depuis	Layer1
19	Elle	Layer1
20	Etats	Layer1
21	Face	Layer1
22	Fillon	Layer1
23	France	Layer1
24	France	Layer1
25	France	Layer1
26	France	Layer1
27	France	Layer1
28	France	Layer1
29	France	Layer1
30	France	Layer1
31	François	Layer1
32	Gendarme...	Layer1
33	Grèce	Layer1
34	Irak	Layer1
35	Je	Layer1
36	Je	Layer1
37	Je	Layer1
38	Je	Layer1
39	Je	Layer1
40	Je	Layer1
41	Je	Layer1
42	Jean	Layer1
43	J'ai	Layer1
44	J'ai	Layer1
45	J'ai	Layer1
46	J'ai	Layer1



Select layer

Selected layer segment transcription display



N	Layer1	Start [s]
1	Mes chers co...	0.049
2	Depuis euh	3.682
3	mai 2012	4.392
4	c'est à dire	5.358
5	la date	6.517
6	à partir de laqu...	7.623
7	j'ai agi avec le...	10.607
8	de Jean Marc ...	13.026
9	et de Manuel ...	14.082
10	pour redresser ...	15.699
11	et la rendre plu...	17.606
12	Aujourd'hui	19.164
13	au moment où ...	20.413
14	les comptes pu...	21.649
15	la Sécurité soc...	24.231
16	et la dette du p...	27.014
17	J'ai	29.556
18	également vou...	31.210
19	puisse être co...	33.737
20	parce que c'es...	35.619
21	Je l'ai même él...	37.320
22	pour permettre ...	39.030
23	qui avaient co...	41.641
24	très tôt leur vie...	42.910
25	de partir plus p...	45.113
26	J'ai fait en sorte	48.069
27	qu'à chacune ...	50.406
28	puisse être ac...	52.837
29	une compléme...	54.970
30	Dans ce conte...	56.772
31	placer la Franc...	60.449
32	Au premier rang	62.693
33	de la lutte cont...	64.172
34	et c'est à Paris	66.580
35	oui à Paris	67.596
36	que l'accord hi...	69.141
37	et qui a engagé	72.683
38	le monde entier	74.544
39	J'ai voulu auss...	75.783
40	ceux là même ...	80.500
41	dans la périod...	82.611
42	parce que l'éc...	84.129
43	c'est le pilier	85.325
44	de la République	86.390
45	J'ai fait avanc...	87.825

## Layers functions



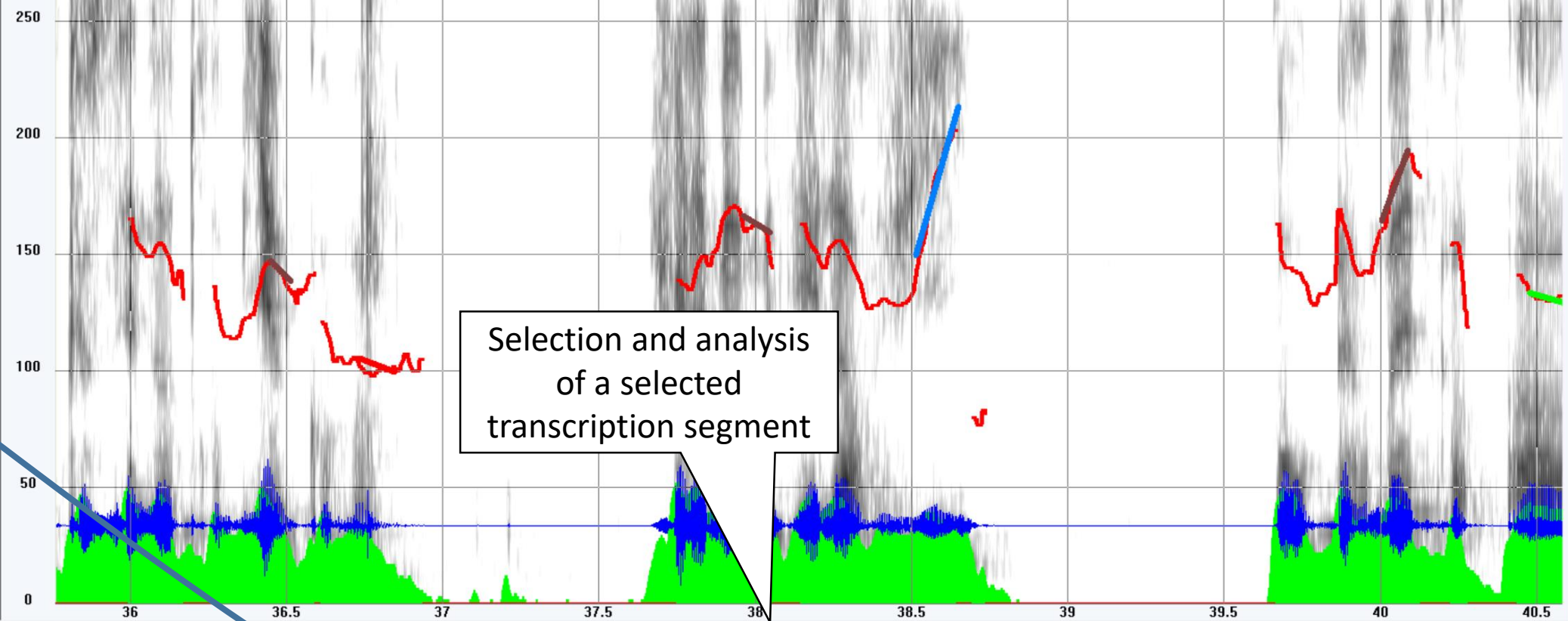
Synthesis Tables Align

 Table Field  
 Reset Cursor Copy Paste Excel  
 X M L0 X

 Selected segment —Field  
 X 0:11 << >>

 Layer 4 Layer 5 Layer 6  
 Lex Query  
 Layer 7 Layer 8  
 Layer 1 Layer 2 Layer 3

N	Layer1	Start [s]
1	Mes chers co...	0.049
2	Depuis euh	3.682
3	mai 2012	4.392
4	c'est à dire	5.358
5	la date	6.517
6	à partir de laqu...	7.623
7	j'ai agi avec le...	10.607
8	de Jean Marc ...	13.026
9	et de Manuel ...	14.082
10	pour redresser ...	15.699
11	et la rendre plu...	17.606
12	Aujourd'hui	19.164
13	au moment où ...	20.413
14	les comptes pu...	21.649
15	la Sécurité soc...	24.231
16	et la dette du p...	27.014
17	J'ai	29.556
18	également vou...	31.210
19	puisse être co...	33.737
20	parce que c'es...	35.619
21	Je l'ai même él...	37.320
22	pour permettre ...	39.030
23	qui avaient co...	41.641
24	très tôt leur vie...	42.910
25	de partir plus p...	45.113
26	J'ai fait en sorte	48.069
27	qu'à chacune ...	50.406
28	puisse être ac...	52.837
29	une complème...	54.970
30	Dans ce conte...	56.772
31	placer la Franc...	60.449
32	Au premier rang	62.693
33	de la lutte cont...	64.172
34	et c'est à Paris	66.580
35	oui à Paris	67.596
36	que l'accord hi...	69.141
37	et qui a engagé	72.683
38	le monde entier	74.544
39	J'ai voulu auss...	75.783
40	ceux là même ...	80.500
41	dans la périod...	82.611
42	parce que l'éc...	84.129
43	c'est le pilier	85.325
44	de la République	86.390
45	J'ai fait avanc...	87.825

 Label list  
 C1  
 C2  
 Label  
 LIMIT  
 MaxSpace  
 MinSpace  
 Truc


Selection and analysis  
of a selected  
transcription segment



# Align functions

The image shows a screenshot of the 'Align' software interface with several callout boxes pointing to specific features:

- Load multimedia file to be aligned with text**: Points to the 'MMedia' folder icon.
- Load and Save text file**: Points to the 'Text file Load' and 'Save' icons.
- Restore existing alignment**: Points to the 'Restore' icon.
- Select speed playback engine (Psola/Autocorrelation/ Phase vocoder)**: Points to the 'Playback engine' dropdown menu.
- Select playback speed**: Points to the 'Playback speed' slider.
- Save sound / text alignment**: Points to the 'Save' button.
- Start playback at selected speed**: Points to the 'Play' button.
- Reset existing alignment**: Points to the 'Reset' button.

The interface includes the following sections:

- Playback engine**: Psola, AutoCor, Phase
- Playback speed**: 100.0% (100)
- Play / Align on the fly**: Start, Channel (L, R)
- Buttons**: Reset, Play, Stop, Save
- Text**: Synthesize, Erase last separator, Text + Anno, Set layer
- Options**: Auto, AP, Block, Pause duration (250), Screen, Buffer
- Fields**: Field c, Field f, Field d, Field g, Field e, Field h
- Waveform**: Screen adjust = 91%
- Segment in words**: in layer L 1
- Aligned text**: Lock, Query file list, Show
- Align mode**: (Transcription does exist but is not aligned)
- Move separator with Ctrl/Shift and arrow keys**: Ctrl+Arrow key moves left \$, Shift+Arrow key moves right \$
- Notes**: No [ ] or \$ allowed in original window text, Use Ins key to cut a segment in window text, Sound and text files must be in the same directory

# Align functions

The image shows a screenshot of a software interface with several callout boxes pointing to specific functions:

- Resynchronize sound/text alignment**: Points to the 'Synchronize' button in the 'Text' section.
- Erase last text separator**: Points to the 'Erase last separator' button in the 'Text' section.
- Restore aligned text**: Points to the 'Text' button in the 'Text' section.
- Restore aligned text as a list**: Points to the 'Text + Anno' button in the 'Text' section.
- Go to layer setup**: Points to the 'Set layer' button in the 'Text' section.

The interface includes a 'Playback engine' section with 'Psola', 'AutoCor', and 'Phase' options, a 'Playback speed' slider at 100%, and a 'Play / Align on the fly' section with 'Start' (154.720 s) and 'Channel' (L, R) options. There are also 'Reset', 'Play', 'Stop', and 'Save' buttons, and a note: '(Dbl) Right mouse button to replay'.

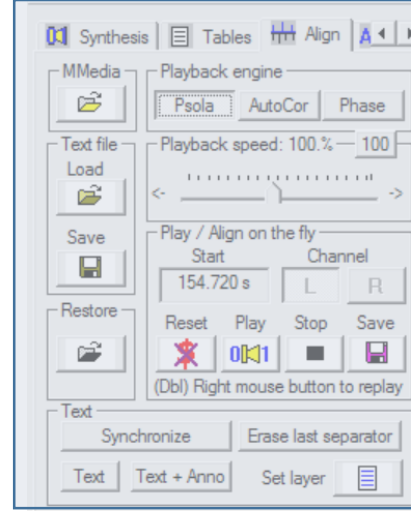
The 'Text' section also includes 'Text', 'Text + Anno', and 'Set layer' buttons. Below this is a 'Transcribe' section with 'Auto', 'AP', 'Block', 'Pause duration' (250), and 'Screen' options. There are also checkboxes for 'Field a' through 'Field h', 'Right to left', 'Chinese', and 'Unicode code'. A 'Link Excel' button is also present.

The bottom section shows 'Aligned text' and 'Query file list' buttons, and a 'Show' button. A light blue box at the bottom contains the following text:

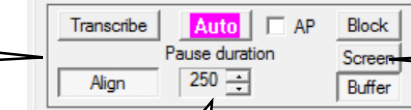
Align mode  
(Transcription does exist but is not aligned)

Move separator with Ctrl/Shift and arrow keys:  
Ctrl+Arrow key moves left \$  
Shift+Arrow key moves right \$

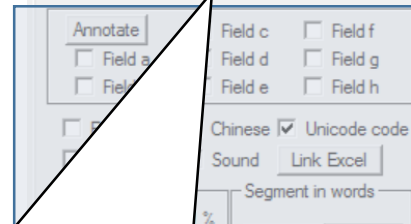
No [ ] or \$ allowed in original window text  
Use Ins key to cut a segment in window text  
Sound and text files must be in the same directory



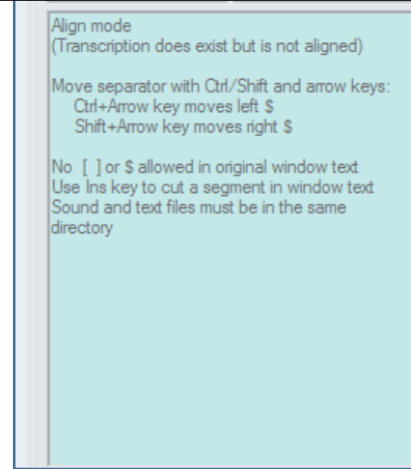
Select Transcribe / Align mode



Select scope for automatic segmentation



Select pause duration for automatic segmentation



# Align functions

# Align functions

Automatic annotation

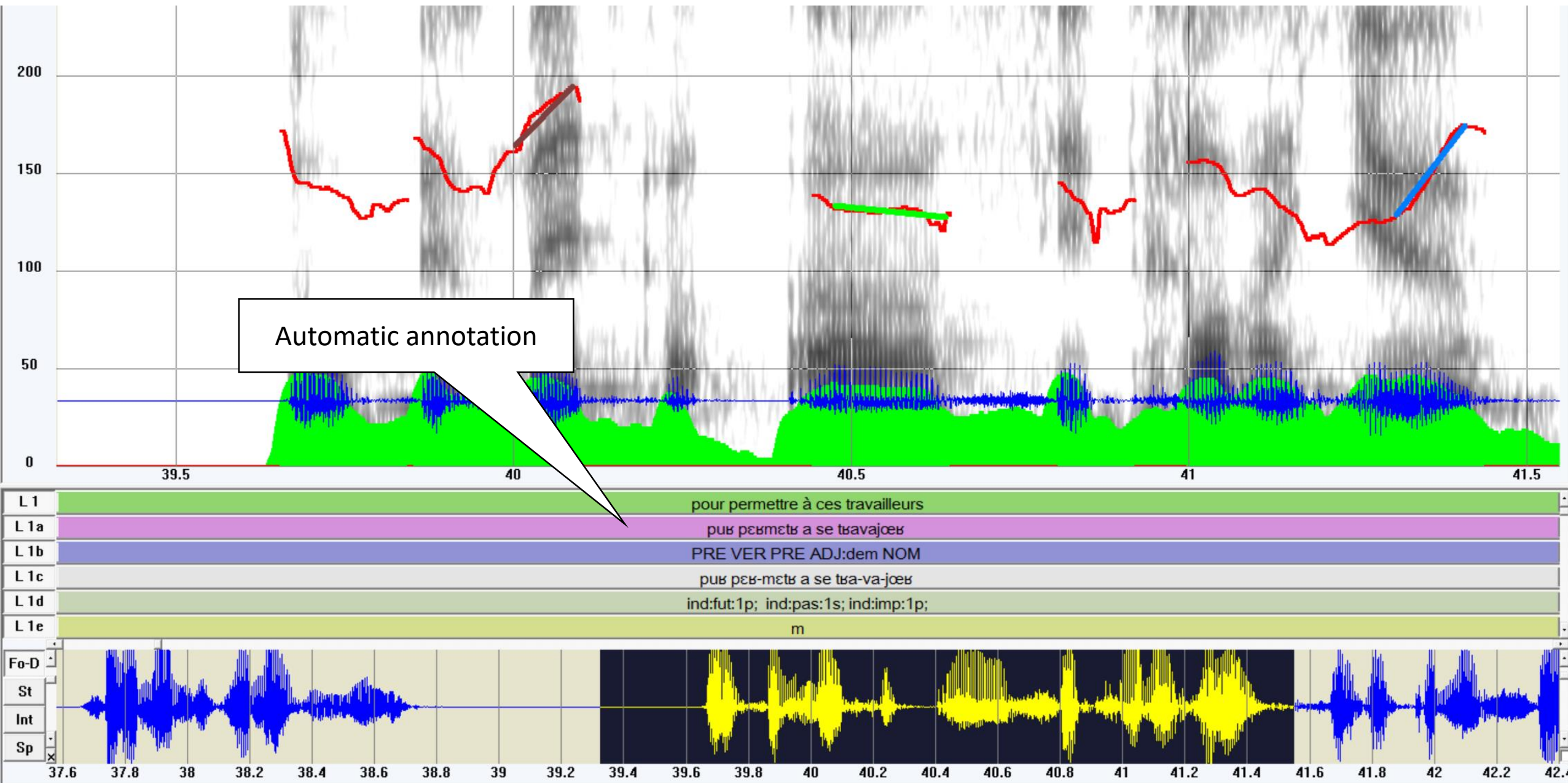
MMedia  
Playback engine  
Psola AutoCor Phase  
Playback speed: 100.0% 100  
Play / Align on the fly  
Start Channel  
154.720 s L R  
Reset Play Stop Save  
(Dbl) Right mouse button to replay  
Text  
Synchronize Erase last separator  
Text Text + Anno Set layer  
Transcribe Auto AP Block  
Pause duration Screen  
Align 250 Buffer

Selected fields for automatic annotation

Annotate  
 Field a  
 Field b  
 Field c  
 Field d  
 Field e  
 Field f  
 Field g  
 Field h

Right to left  Chinese  Unicode code  
 KaraOK  Sound Link Excel  
Waveform Screen adjust = 91 %  
Segment in words in layer L 1  
Aligned text Lock Query file list  
Show Show

Align mode  
(Transcription does exist but is not aligned)  
Move separator with Ctrl/Shift and arrow keys:  
Ctrl+Arrow key moves left \$  
Shift+Arrow key moves right \$  
No [ ] or \$ allowed in original window text  
Use Ins key to cut a segment in window text  
Sound and text files must be in the same directory



# Align functions

The image shows a screenshot of the 'Align' software interface, which is used for audio transcription and alignment. The interface is divided into several sections:

- MMedia:** Contains buttons for 'Load', 'Save', and 'Restore'.
- Text file:** Contains buttons for 'Load' and 'Save'.
- Playback engine:** Includes 'Psola', 'AutoCor', and 'Phase' options, a 'Playback speed' slider set to 100%, and 'Play / Align on the fly' controls with 'Start', 'Channel', 'Reset', 'Play', 'Stop', and 'Save' buttons.
- Text:** Includes 'Synchronize', 'Erase last separator', 'Text', 'Text + Anno', and 'Set layer' buttons.
- Transcribe:** Includes 'Auto', 'AP', 'Block', 'Pause duration', and 'Screen' options.
- Align:** Includes a '250' value and a 'Buffer' button.
- Annotate:** Includes checkboxes for 'Field a' through 'Field h'.
- Options:** Includes checkboxes for 'Right to left', 'Chinese', 'Unicode code', 'KaraOK', and 'Sound', along with a 'Link Excel' button.
- Waveform:** Includes a 'Screen adjust = 91%' slider.
- Segment in words:** Includes a dropdown menu set to 'in layer L 1'.
- Aligned text:** Includes a 'Show' button and a 'Lock' checkbox.
- Query file list:** Includes a 'Show' button.

Callout boxes provide additional information:

- Selection of Right to Left display, Karaoke mode, Chinese ideograms, Unicode font:** Points to the 'Right to left', 'KaraOK', 'Chinese', and 'Unicode code' checkboxes.
- Synchronize Excel concordancer:** Points to the 'Link Excel' button.
- Segment text in words:** Points to the 'Segment in words' dropdown menu.
- Adjustment of selected text display:** Points to the 'Screen adjust = 91%' slider.



## Aligned text window

Rank  No case Left context Entry Right Rank Layer  
 Exact  Prec  Directory  Rank  Layer  
 Track  Next  Arial Unicode

\*L 1: Mes chers compatriotes Je m'adresse à vous ce soir pour vous faire connaître la décision que j'ai prise dans la perspective de la prochaine élection présidentielle. Depuis eu\$ mai 2012\$ c'est à dire\$ la date\$ à partir de laquelle je suis devenu président de la République\$ j'ai agi avec les gouvernements\$ de Jean Marc Ayrault\$ et de Manuel Valls\$ pour redresser la France\$ et la rendre plus juste\$. Aujourd'hui\$ au moment où je m'exprime\$ les comptes publics sont assainis\$. La Sécurité sociale est à l'équilibre\$ et la dette du pays a été préservée\$. J'ai également voulu que notre modèle social\$ puisse être conforté\$ parce que c'est notre bien commun\$. Je l'ai même élargi\$ pour permettre à ces travailleurs\$ qui avaient commencé\$ très tôt leur vie professionnelle\$ de partir plus précocement à la retraite\$. J'ai fait en sorte\$ qu'à chacune et à chacun\$ puisse être accordée\$ une complémentaire santé\$. Dans ce contexte j'ai aussi voulu\$ placer la France au premier rang\$. Au premier rang\$ de la lutte contre le réchauffement climatique\$ et c'est à Paris\$ oui à Paris\$ que l'accord historique a pu être signé\$ et qui a engagé\$ le monde entier\$. J'ai voulu aussi que l'école dispose des moyens indispensables\$ ceux là même qui lui avaient été otés\$ dans la période précédente\$ parce que l'école\$ c'est le pilier\$ de la République\$. J'ai fait avancer les libertés\$ le mariage\$ a été ouvert à tous les couples\$. L'égalité entre les femmes et les hommes\$ a été renforcée\$ et la lutte contre les discriminations\$ celles qui blessent\$ a été amplifiée\$. J'ai également modernisé notre démocratie\$ avec la réforme territoriale\$ celle dont on parlait\$ régulièrement\$ et qui n'était jamais faite\$ avec la fin du cumul des mandats\$ et avec également\$ la transparence que j'ai imposée\$ à tous les élus\$ à commencer par moi même\$ pour être dans l'exemplarité\$. Mais l'engagement majeur que j'avais pris devant vous\$ c'était de faire baisser le chômage\$. J'y ai consacré\$ avec les gouvernements\$ toute mon énergie\$. J'ai pris tous les risques\$. J'ai allégé les charges des entreprises\$ parce que c'est\$ la condition pour qu'il y ait davantage d'emplois\$. J'ai également aidé\$ les embauches\$. J'ai fait en sorte\$ la formation professionnelle puisse être une grande priorité\$. J'ai aussi soutenu l'innovation\$ et l'industrie de demain\$ et j'ai pris\$ la responsabilité de réformer\$ le marché du travail\$. Les résultats arrivent\$ plus tard\$ que je ne les avais annoncés\$. J'en conviens\$ mais ils sont là\$. Investissement\$ la consommation\$ la construction\$ le logement\$ et depuis le début de l'année\$ le chômage\$ enfin\$ diminué\$ mais il reste à un niveau trop élevé et je\$ mesure ce que\$ cette situation peut avoir d'insupportable\$ pour nos concitoyens qui vivent\$ dans la précarité\$. Mes chers compatriotes\$ le monde\$ l'Europe\$ la France\$ ont traversés\$ pendant tout mon mandat\$ des épreuves particulièrement\$ éprouvantes\$. J'ai engagé nos forces armées\$ au Mali\$ en Centrafrique\$ en Irak\$ en Syrie\$ pour défendre nos valeurs\$ et pour combattre\$ le terrorisme islamiste\$ qui nous avait frappés\$ et qui nous menace encore\$. Frappés à Paris\$ à Saint Denis\$ à Nice\$ et dans tant d'autres lieux\$ ensablantés\$. Dans ces circonstances\$ particulièrement\$ éprouvantes\$ terribles même\$ j'ai voulu que soit maintenue\$ la cohésion nationale\$ que nous puissions éviter\$ les divisions\$. Les surenchères\$ les stigmatisations\$ et donc les amalgames\$. Mais en même temps nous avons tenu bon\$ et j'ai pris les mesures qui étaient nécessaires\$. Notre arsenal pénal\$ a été durci\$ sans mettre en cause\$ à aucun moment\$ nos libertés\$. J'ai également travaillé à des recrutements massifs\$ dans nos armées\$ dans la Gendarmerie\$ dans la

## Concordancer window

Synthesis Tables Align

MMedia Playback engine Psola AutoCor Phase

Text file Load Save Restore

Playback speed: 100.0% 100

Play / Align on the fly Start 154.720 s Channel L R

Reset Play Stop Save (Dbt) Right mouse button to replay

Text Synchronize Erase last separator

Transcribe Auto AP Block

Pause duration 250 Screen Buffer

Annotate Field c Field f Field a Field d Field g Field b Field e Field h

Right to left Chinese Unicode code KaraOK Sound Link Excel

Waveform Screen adjust = 91 % Segment in words in layer L 1

Aligned text Lock Query file list

Show Show

## Show/Hide concordancer window

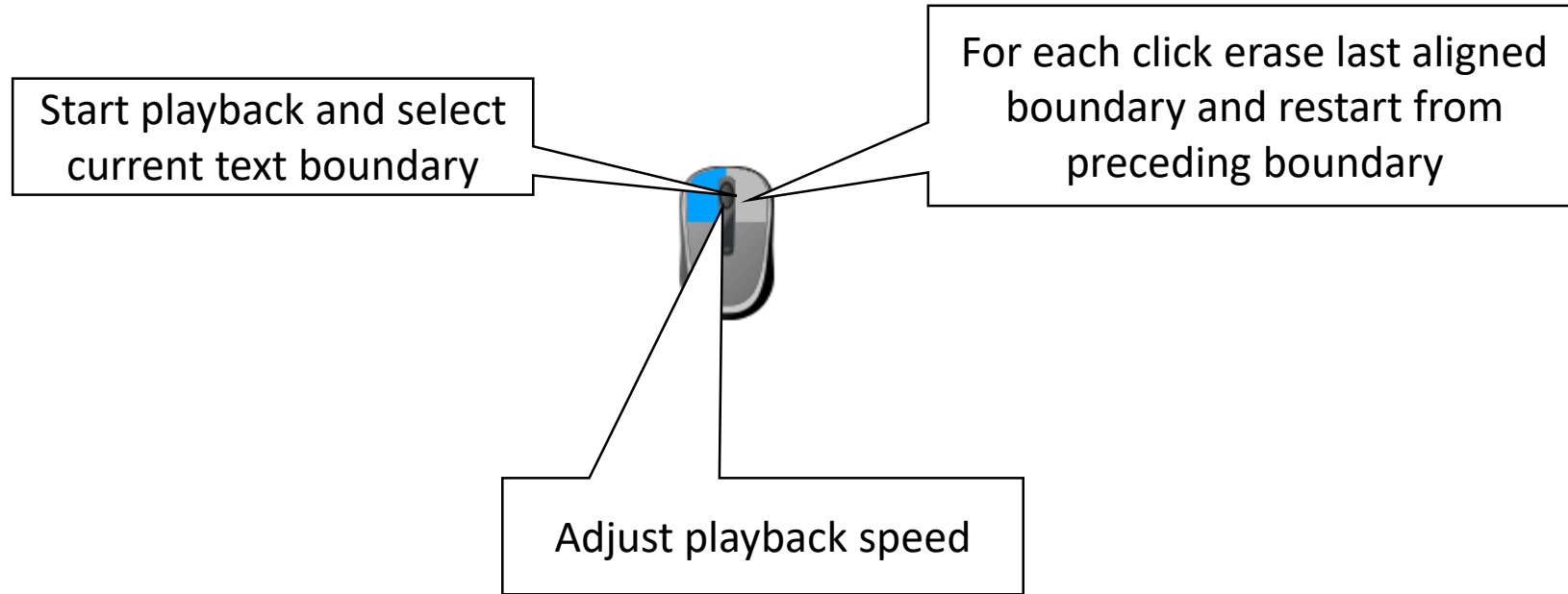
## Show/Hide aligned text window

## Align functions

Align mode (Transcription does not but is not aligned)

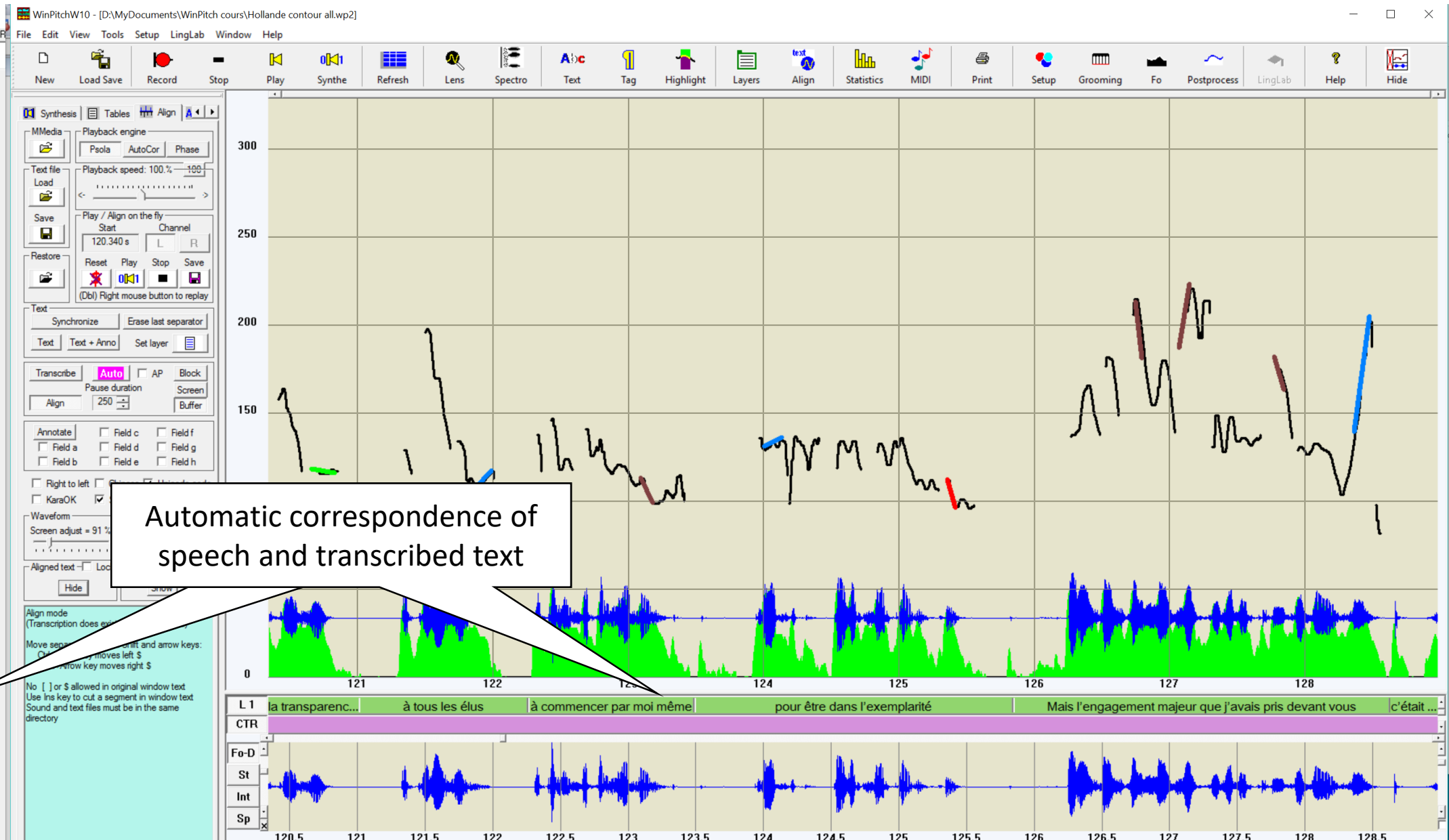
Move separator with Ctrl and arrow keys:  
 Ctrl+Arrow key moves  
 Shift+Arrow key moves

No [ ] or \$ allowed in original w  
 Use Ins key to cut a segment in w  
 Sound and text files must be in directory



Align functions

L 1: Mes chers compatriotes Je m'adresse à vous ce soir pour vous faire connaître la décision que j'ai prise dans la perspective de la prochaine élection présidentielle. Depuis eu\$ mai 2012\$ c'est à dire\$ la date\$ à partir de laquelle je suis devenu président de la République\$ j'ai agi avec les gouvernements\$ de Jean Marc Ayrault\$ et de Manuel Valls\$ pour redresser la France\$ et la rendre plus juste\$. Aujourd'hui\$ au moment où je m'exprime\$ les comptes publics sont assainis\$ la Sécurité sociale est à l'équilibre\$ et la dette du pays a été préservée\$. J'ai\$ également voulu que notre modèle social\$ puisse être conforté\$ parce que c'est notre bien commun\$. Je l'ai même élargi\$ pour permettre à ces travailleurs\$ qui avaient commencé\$ très tôt leur vie professionnelle\$ de partir plus précocement à la retraite\$. J'ai fait en sorte que\$ à chacune et à chacun\$ puisse être accordée\$ une complémentaire santé\$. Dans ce contexte j'ai aussi voulu\$ placer la France au premier rang\$. Au premier rang\$ de la lutte contre le réchauffement climatique\$ et c'est à Paris\$ oui à Paris\$ que l'accord historique a pu être signé\$ et qui a engagé\$ le monde entier\$. J'ai voulu aussi que l'école dispose des moyens indispensables\$ ceux là même qui lui avaient été ôtés\$ dans la période précédente\$ parce que l'école\$ c'est le pilier\$ de la République\$. J'ai fait avancer les libertés\$ le mariage\$ a été ouvert à tous les couples\$ l'égalité entre les femmes et les hommes\$ a été renforcée\$ et la lutte contre les discriminations\$ celles qui blessent\$ a été amplifiée\$. J'ai\$ également modernisé notre démocratie\$ avec la réforme territoriale\$ celle dont on parlait\$ régulièrement\$ et qui n'était jamais faite\$ avec la fin du cumul des mandats\$ et avec également\$ la transparence\$ que j'ai imposée\$ à tous les élus\$. à commencer par moi même\$ pour être dans l'exemplarité\$. Mais l'engagement majeur que j'avais pris devant vous\$ c'était de faire baisser le chômage\$. J'y ai consacré\$ avec les gouvernements\$ toute mon énergie\$. j'ai pris tous les risques\$ j'ai allégé\$ les charges des entreprises\$ parce que c'est\$ la condition pour



# Align functions

**MMedia** Playback engine  
 Psola AutoCor Phase  
 Playback speed: 100.0% - 100.0  
 Play / Align on the fly  
 Start Channel  
 0.000 s L R  
 Reset Play Stop Save  
 (Db) Right mouse button to replay

**Text**  
 Synchronize Erase last separator  
 Text Text + Anno Set layer

Transcribe **Auto** AP Block  
 Pause duration 250 Screen Buffer

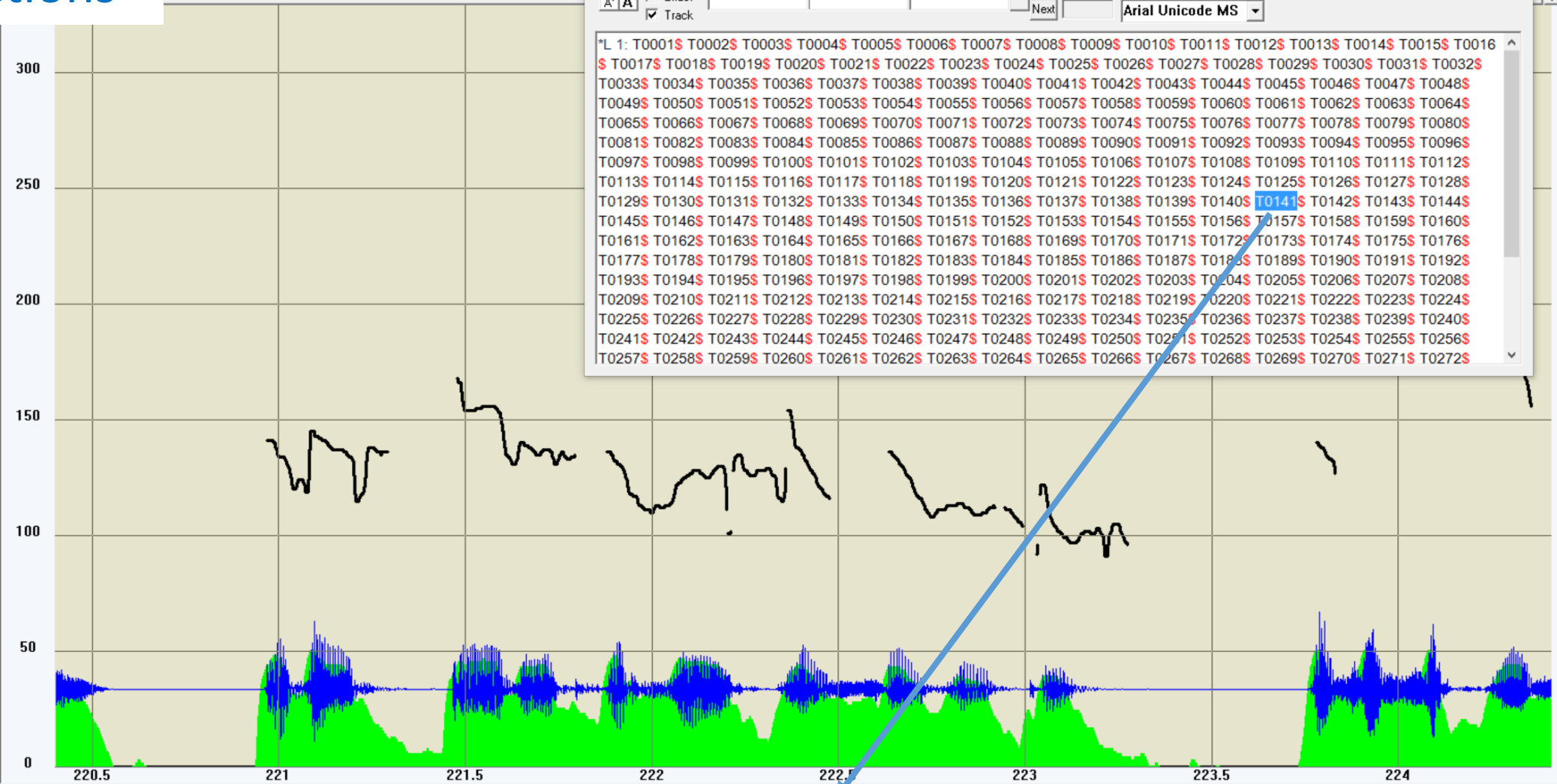
Annotate  Field c  Field f  
 Field a  Field d  Field g  
 Field b  Field e  Field h

Right to left  Chinese  Unicode code  
 KaraOK  Sound Link Excel

Waveform Screen adjust = 91 %  
 Segment in words in layer L 1

Aligned text Lock Query file list  
 Hide Show

Transcribe mode  
 (Transcription does not exist)  
 Use function keys for direct layer assignment  
 (F2 for Layer1, F3 for Layer2, etc.).  
 Use Return key to define sections with no layer  
 assignment  
 Assign layer by selecting text and using  
 Shift+Number keys  
 Edit text directly in align window  
 Ctrl+V to paste on selected Text  
 NOTE: The text window MUST be selected



D:\MyDocuments\WinPitch cours\Hollande contour all.rtf

Rank	Left context	Entry	Righth	Prec	Directory	Rank	Layer	Section
A <sup>+</sup> A <sup>-</sup>						141	L 1	141

No case  
 Exact  
 Track

Next

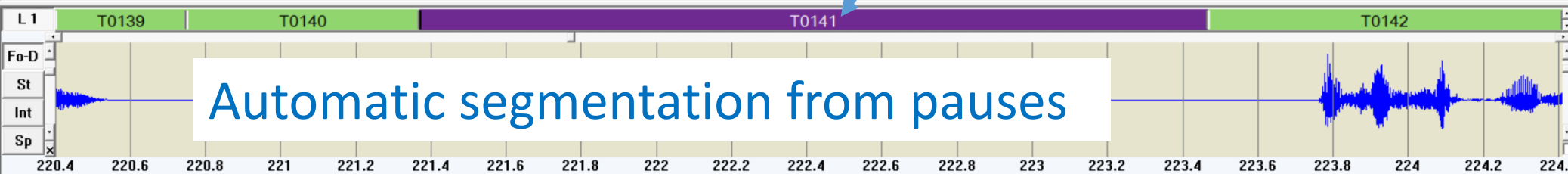
Arial Unicode MS

```

L 1: T0001$ T0002$ T0003$ T0004$ T0005$ T0006$ T0007$ T0008$ T0009$ T0010$ T0011$ T0012$ T0013$ T0014$ T0015$ T0016$
$ T0017$ T0018$ T0019$ T0020$ T0021$ T0022$ T0023$ T0024$ T0025$ T0026$ T0027$ T0028$ T0029$ T0030$ T0031$ T0032$
T0033$ T0034$ T0035$ T0036$ T0037$ T0038$ T0039$ T0040$ T0041$ T0042$ T0043$ T0044$ T0045$ T0046$ T0047$ T0048$
T0049$ T0050$ T0051$ T0052$ T0053$ T0054$ T0055$ T0056$ T0057$ T0058$ T0059$ T0060$ T0061$ T0062$ T0063$ T0064$
T0065$ T0066$ T0067$ T0068$ T0069$ T0070$ T0071$ T0072$ T0073$ T0074$ T0075$ T0076$ T0077$ T0078$ T0079$ T0080$
T0081$ T0082$ T0083$ T0084$ T0085$ T0086$ T0087$ T0088$ T0089$ T0090$ T0091$ T0092$ T0093$ T0094$ T0095$ T0096$
T0097$ T0098$ T0099$ T0100$ T0101$ T0102$ T0103$ T0104$ T0105$ T0106$ T0107$ T0108$ T0109$ T0110$ T0111$ T0112$
T0113$ T0114$ T0115$ T0116$ T0117$ T0118$ T0119$ T0120$ T0121$ T0122$ T0123$ T0124$ T0125$ T0126$ T0127$ T0128$
T0129$ T0130$ T0131$ T0132$ T0133$ T0134$ T0135$ T0136$ T0137$ T0138$ T0139$ T0140$ T0141$ T0142$ T0143$ T0144$
T0145$ T0146$ T0147$ T0148$ T0149$ T0150$ T0151$ T0152$ T0153$ T0154$ T0155$ T0156$ T0157$ T0158$ T0159$ T0160$
T0161$ T0162$ T0163$ T0164$ T0165$ T0166$ T0167$ T0168$ T0169$ T0170$ T0171$ T0172$ T0173$ T0174$ T0175$ T0176$
T0177$ T0178$ T0179$ T0180$ T0181$ T0182$ T0183$ T0184$ T0185$ T0186$ T0187$ T0188$ T0189$ T0190$ T0191$ T0192$
T0193$ T0194$ T0195$ T0196$ T0197$ T0198$ T0199$ T0200$ T0201$ T0202$ T0203$ T0204$ T0205$ T0206$ T0207$ T0208$
T0209$ T0210$ T0211$ T0212$ T0213$ T0214$ T0215$ T0216$ T0217$ T0218$ T0219$ T0220$ T0221$ T0222$ T0223$ T0224$
T0225$ T0226$ T0227$ T0228$ T0229$ T0230$ T0231$ T0232$ T0233$ T0234$ T0235$ T0236$ T0237$ T0238$ T0239$ T0240$
T0241$ T0242$ T0243$ T0244$ T0245$ T0246$ T0247$ T0248$ T0249$ T0250$ T0251$ T0252$ T0253$ T0254$ T0255$ T0256$
T0257$ T0258$ T0259$ T0260$ T0261$ T0262$ T0263$ T0264$ T0265$ T0266$ T0267$ T0268$ T0269$ T0270$ T0271$ T0272$

```

## Automatic segmentation from pauses



# Align functions

Manual transcription

**MMedia**  
 Playback engine: Psola AutoCor Phase  
 Playback speed: 100.0% - 100  
 Play / Align on the fly: Start Channel  
 114.620 s L R  
 Reset Play Stop Save  
 (Dbl) Right mouse button to replay

**Text**  
 Synchronize Erase last separator  
 Text Text + Anno Set layer

Transcribe **Auto** AP Block  
 Pause duration: 250 Screen Buffer

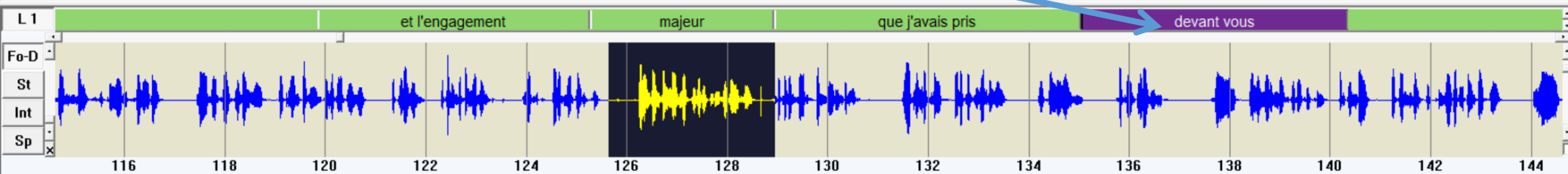
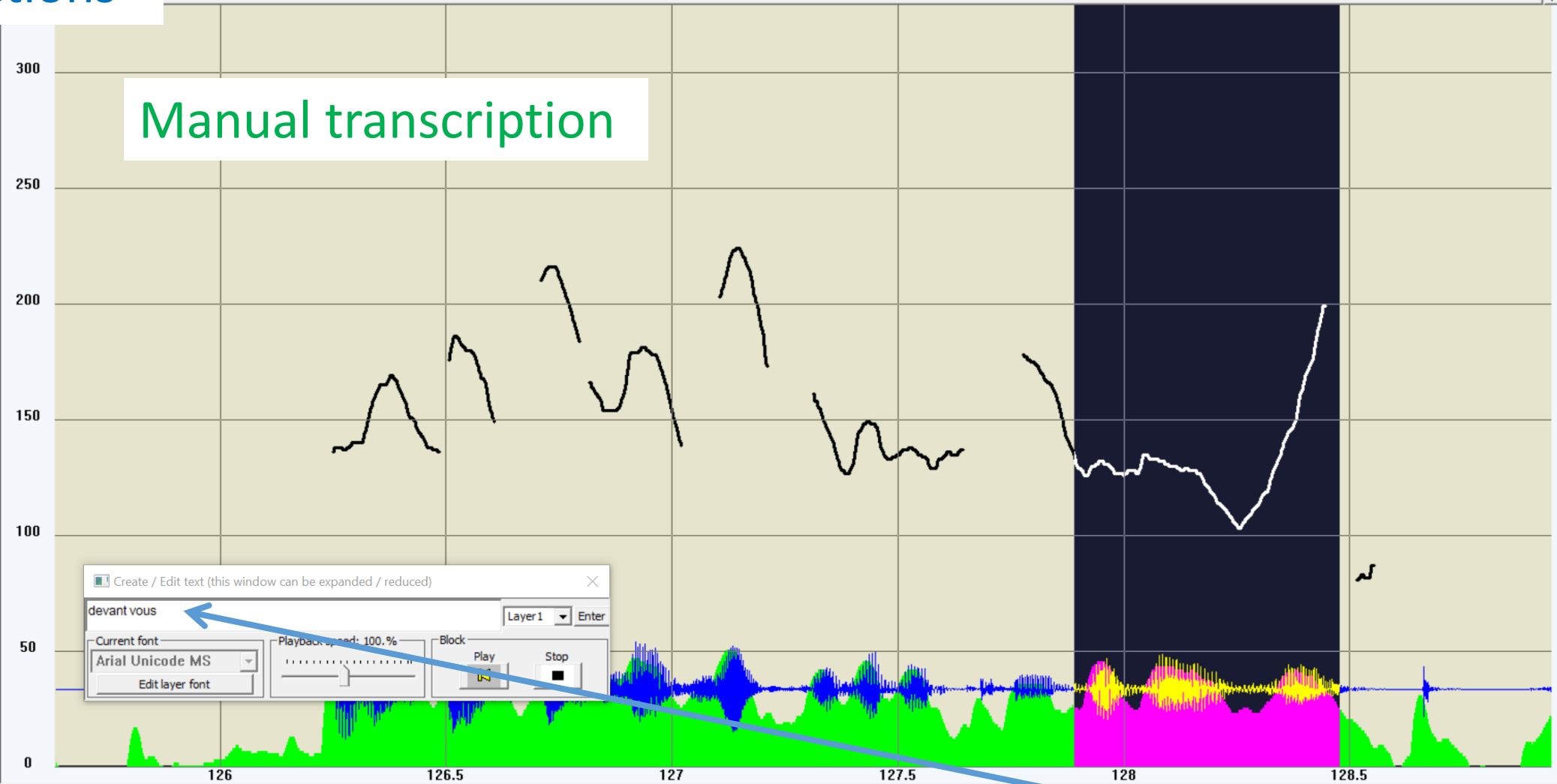
Annotate  Field c  Field f  
 Field a  Field d  Field g  
 Field b  Field e  Field h

Right to left  Chinese  Unicode code  
 KaraOK  Sound Link Excel

Waveform Segment in words  
 Screen adjust = 91% in layer L 1

Aligned text  Lock Query file list  
 Show Show

Transcribe mode  
 (Transcription does not exist)  
 Use function keys for direct layer assignment (F2 for Layer1, F3 for Layer2, etc.).  
 Use Return key to define sections with no layer assignment.  
 Assign layer by selecting text and using Shift+Number keys  
 Edit text directly in align window  
 Ctrl+V to paste on selected Text  
 NOTE: The text window MUST be selected



# Align functions

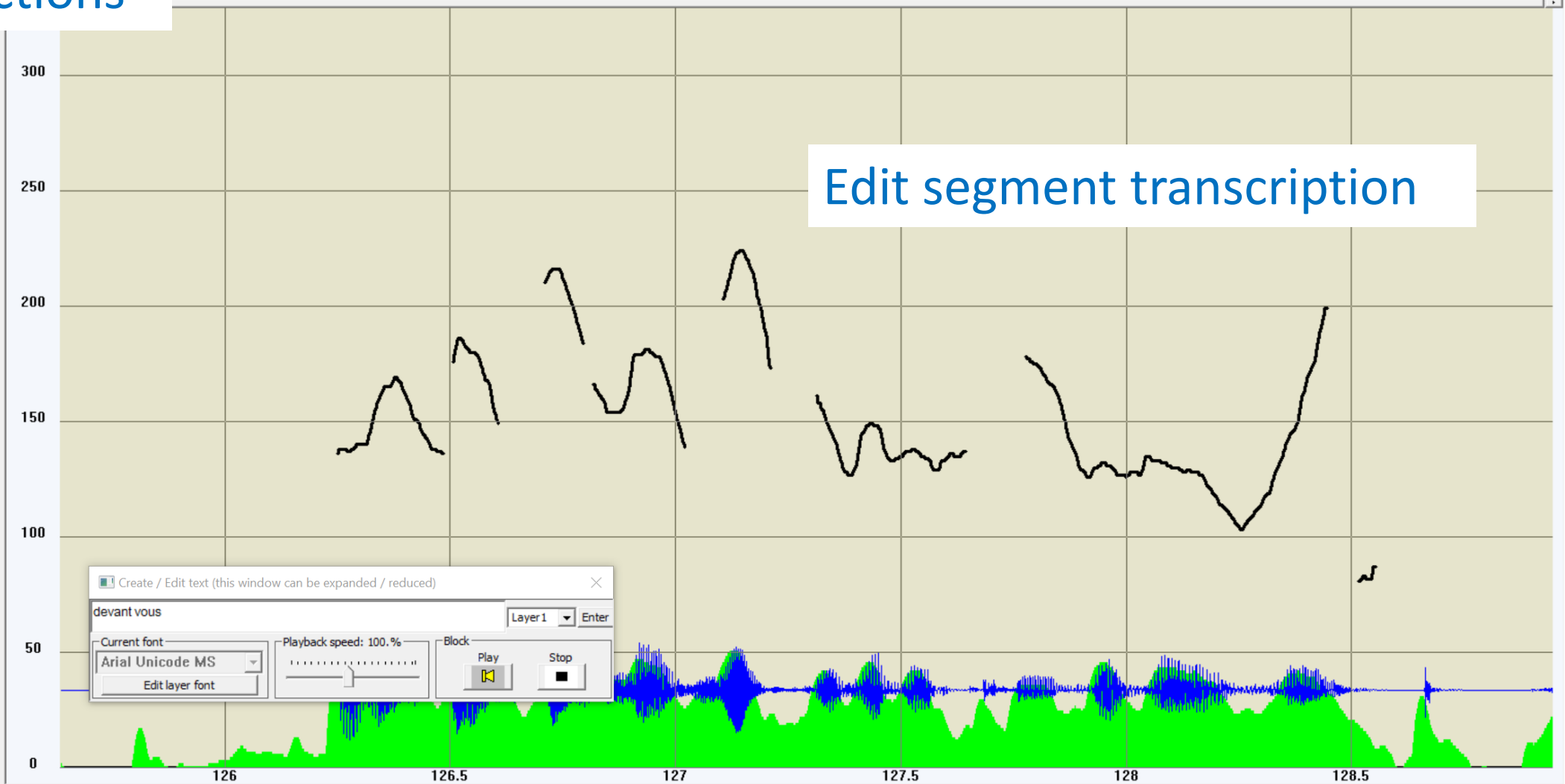
Table

Reset Cursor Copy Paste Excel

Selected segment Field

Layer 4 Layer 5 Layer 6  
Lex Query  
Layer 7 Layer 8  
Layer 1 Layer 2 Layer 3

N	Layer1	Start [s]	Er
1	et l'engage...	126.212	12
2	majeur	126.811	12
3	que j'avais...	127.216	12
4	devant vous	127.890	12



Edit segment transcription

Create / Edit text (this window can be expanded / reduced)

devant vous Layer1 Enter

Current font: Arial Unicode MS Edit layer font

Playback speed: 100.0%

Block Play Stop

L 1 et l'engagement majeur que j'avais pris ant vous

Fo-D  
St  
Int  
Sp

116 118 120 122 124 126 128 130 132 134 138 140 142 144

- Delete
- Divide
- Edit
- Merge left
- Merge right
- Split
- Tag

Spectro  File  Load Save  |< |>

Display: Window  Synthesis: Default

Fourier  LPC  Wavelet  
 B & W  Color

Time: 1396.867 s  FFT  LPC  Wav

0 Hz 2360 Hz 7 dB 11025 Hz

Image: Zero Contrast High  Link  
 -15 dB 28 3 dB 99% 100%

Fourier: 46 ms Medium Narrow Fmax  
 N= 1024  
 Align: Hann(ing) 4961 Hz

LPC analysis  Formants Number  
 11 ms N= 256 4

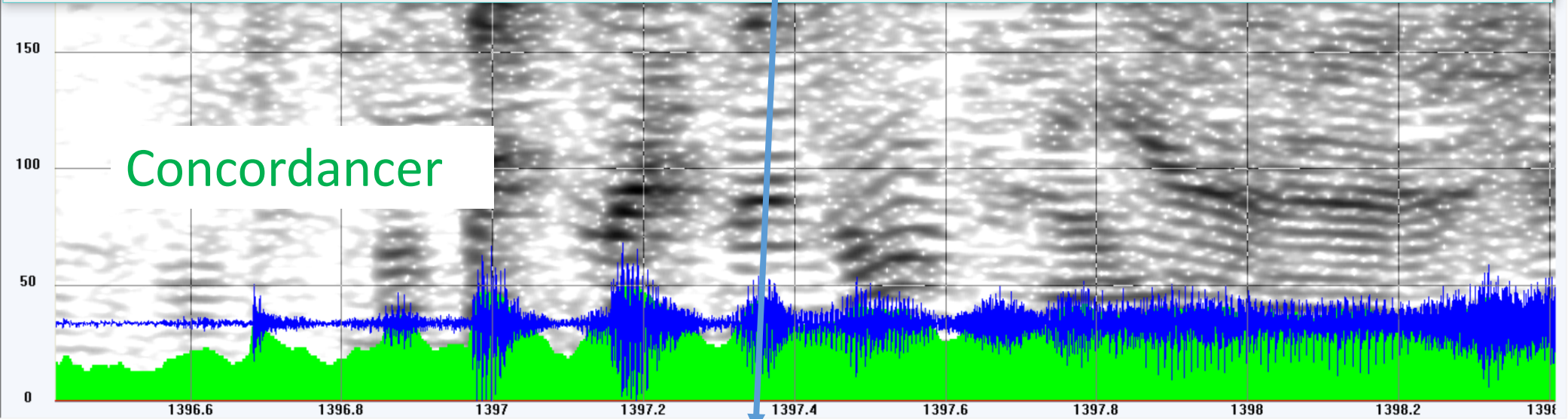
Wavelet  Fourier  2 Channel  Filters  
 4 Hz 10 Hz 4961 Hz  
 N= 256  
 7 Cycles  
 1 Gauss Fs 1024 Hz

Ctrl to freeze the cursor Shift to freeze the time

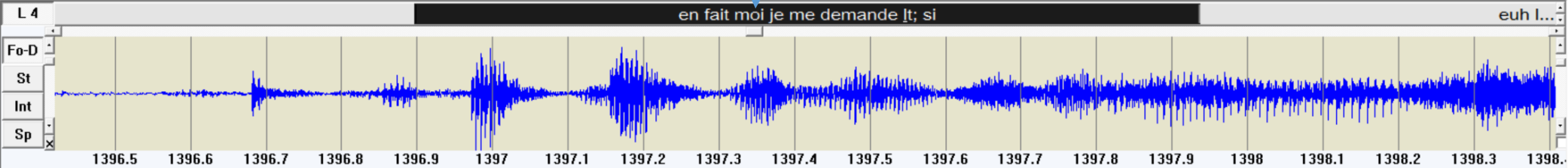
Query file list in D:\MyDocuments\Specdata\Orfeo Complet\TCOF

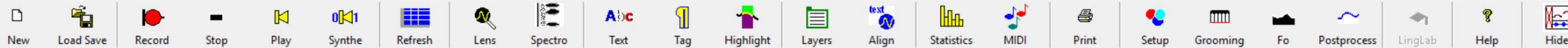
297 searched files 317555 words 765 occurrence(s) Notes (enter with right mouse button) -> (Lines are copied to the clipboard when selected)

No	Nb Words	Filename	Left context	Item	Right context	Notes
86		bmj_min.tr.s.txt	ou est-ce que c'est commun euh avec d'autres sports de glisse euh ouais ...	en fait	euh ben on a comment les skate parks il y en a un peu partout en France d...	
87		bmj_min.tr.s.txt	un super gros skate park euh on a des bons petits modules mais on a la ch...	en fait	que ce soit un skate park euh indoor donc euh enfermé quoi et tout et bon ...	
88		bmj_min.tr.s.txt	c'est cool quoi et puis euh ce qu'on a la chance ouais c'est que c'est régi	en fait	par notre ville donc c'est-à-dire que c'est vraiment à entrée gratos quoi enfin	
89		bmj_min.tr.s.txt	B.M.X. bien sûr même si euh même si euh le fait que enfin on (n')envisage ...	en fait	en fonction du sport on (n')envisage pas le skate park de la même manière	
90		bmj_min.tr.s.txt	pas le skate park de la même manière c'est-à-dire que euh ouais tu vois	en fait	en B.M.X. on a des lignes et tout quoi qu'on va qu'on va vouloir faire machin	
91	11285	boi_m1_09.tr.s.txt	Maison des Mots euh ouais ça commence à la Maison des Mots de deux ...	en fait	d'accord &t; et voilà &t; ça c'est le début et tu as et tu as tout mis	
92		boi_m1_09.tr.s.txt	ou comment donc tu as euh ben pour le moment non j'ai ben c'est en dossi...	en fait	ouais non c'est parce que j'ai pas vu moi je sais pas comment &t; c'est fait	
93		boi_m1_09.tr.s.txt	ben c'est moi le phot- mes &t; photos ouais &t; aussi c'est les mêmes photos	en fait	ouais &t; le diaporama les photos &t; que j'ai filées à à P6 le diaporama	
94		boi_m1_09.tr.s.txt	chez moi quoi &t; moi je ben &t; il a ouais mais en même temps c'est vrai q...	en fait	quand il s'est installé au local on (n') a pas été clairs déjà on (n') a pas	
95		boi_m1_09.tr.s.txt	m'acheter à bouffer un coup où j'étais ici entre midi et deux et euh ben j'ai	en fait	j'ai pas pu il fallait que j'attende qu'il revienne en fait ah ouais sinon	
96		boi_m1_09.tr.s.txt	et euh ben j'ai en fait j'ai pas pu il fallait que j'attende qu'il revienne	en fait	ah ouais sinon j'étais obligé d'ouvrir le ouais le haillon la porte et de	
97		boi_m1_09.tr.s.txt	de peinture pour recouvrir les tags du P8 quoi tu vois parce que genre il	en fait	dans le dans les escaliers sur la moquette et tout &t; tu vois ouais ça c'est	
98		boi_m1_09.tr.s.txt	idée peut être gardée pour être combinée avec la grande réunion de r...	en fait	moi je me demande &t; si de la rentrée &t; euh le fait de communiquer sur les	
99		boi_m1_09.tr.s.txt	le gros bazar ouais ouais &t; euh mais non &t; ça ça suffit pas ça suffit pas	en fait	c'est vraiment euh parce que euh les gens euh ils sont curieux ils voient une	
100		boi_m1_09.tr.s.txt	co- la com tous les mois eh ben peut-être qu'on sera plus vigilants parce que	en fait	c'est un manque de vigilance hum hum euh moi je dois dire par exemp...	
101		boi_m1_09.tr.s.txt	donc euh N5 non N6 ah euh tu sais qui venait &t; avant euh hum &t;...	en fait	lui bon euh ça l'intéresse mais il a repris un boulot là à plein-temps donc euh	
102		boi_m1_09.tr.s.txt	bien il faut ah oui Spectacles &t; que ça passe dans &t; Spectacles parce...	en fait	euh mais tu sais Spectacles euh &t; moi j'ai déjà envoyé ouais plusieurs fois	
103	3291	bres_m1_08.tr.s.txt	fait hein on a jamais vu ça nous &t; l'année dernière bon personne ben &t;	en fait	on prépare notre eau de mer pourquoi on met pas tout simplement un cach...	
104		bres_m1_08.tr.s.txt	tu poseras des questions laissez-le répondre avant c'est c'est assez logique	en fait	on prépare notre eau de mer aux alentours de vingt-cinq grammes de sels par	



Concordancer





Align | Ab | Text | Tag | High

MMedia Playback engine  
 Psola AutoCor Phase  
 Playback speed: 100.0% 100  
 < >  
 Play / Align on the fly  
 Start 1396.420 s Channel L R  
 Reset Play Stop Save  
 (Db) Right mouse button to replay

Text Synchronize Erase last separator  
Text Text + Anno Set layer

Transcribe Auto AP Block  
Pause duration 250 Screen Buffer

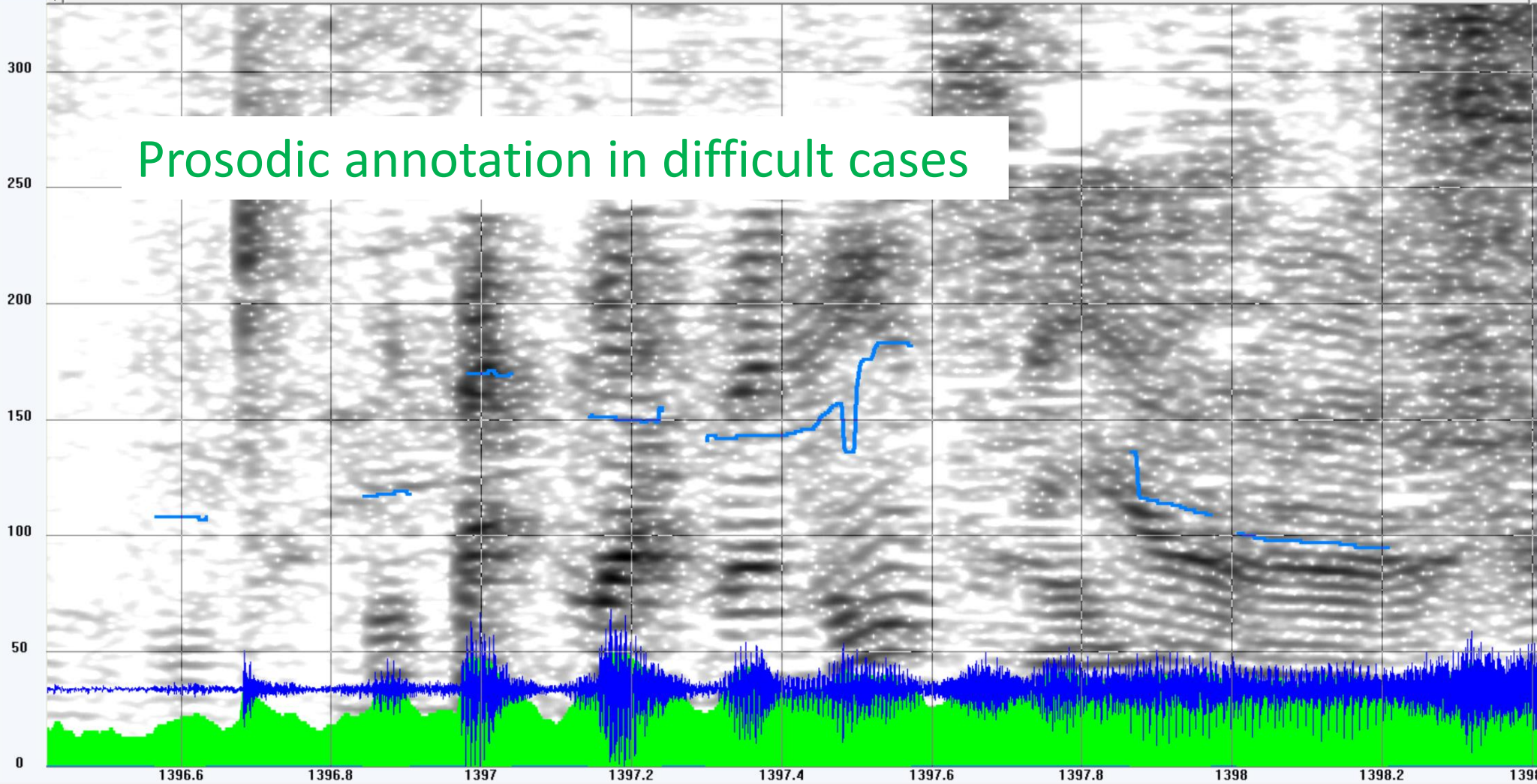
Annotate Field c Field f  
Field a Field d Field g  
Field b Field e Field h

Right to left Chinese Unicode code  
KaraOK Sound Link Excel

Waveform Segment in words  
Screen adjust = 91 %  
in layer L 1

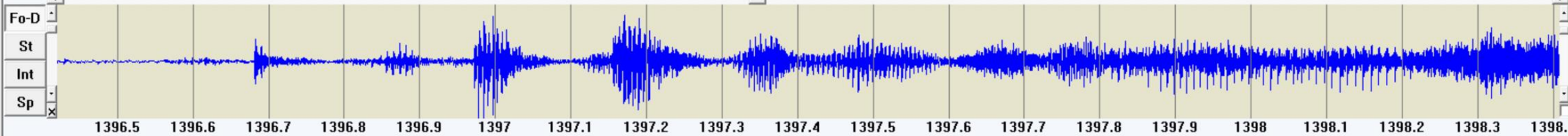
Aligned text Lock Query file list  
Show Show

Align mode  
 (Transcription does exist but is not aligned)  
 Move separator with Ctrl/Shift and arrow keys:  
 Ctrl+Arrow key moves left \$  
 Shift+Arrow key moves right \$  
 No [ ] or \$ allowed in original window text  
 Use Ins key to cut a segment in window text  
 Sound and text files must be in the same directory



Prosodic annotation in difficult cases

L 4 en fait moi je me demande it; si euh l...



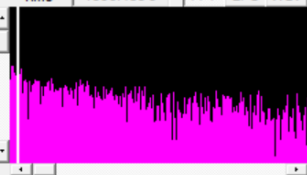


Spectro File Load Save

Display - Window Synthesis - Default

Fourier LPC Wavelet  
B & W Color

Time 1396.485 s FFT LPC Wav



0 Hz 325 Hz 12 dB 11025 Hz

Image Link  
Zero Contrast High Size Position  
-15 dB 28 3 dB 99 % 100 %

Fourier Narrow Fmax  
92 ms N= 2048

Align Hann(ng) 330 Hz

LPC analysis Fomants Number  
11 ms N= 256 4

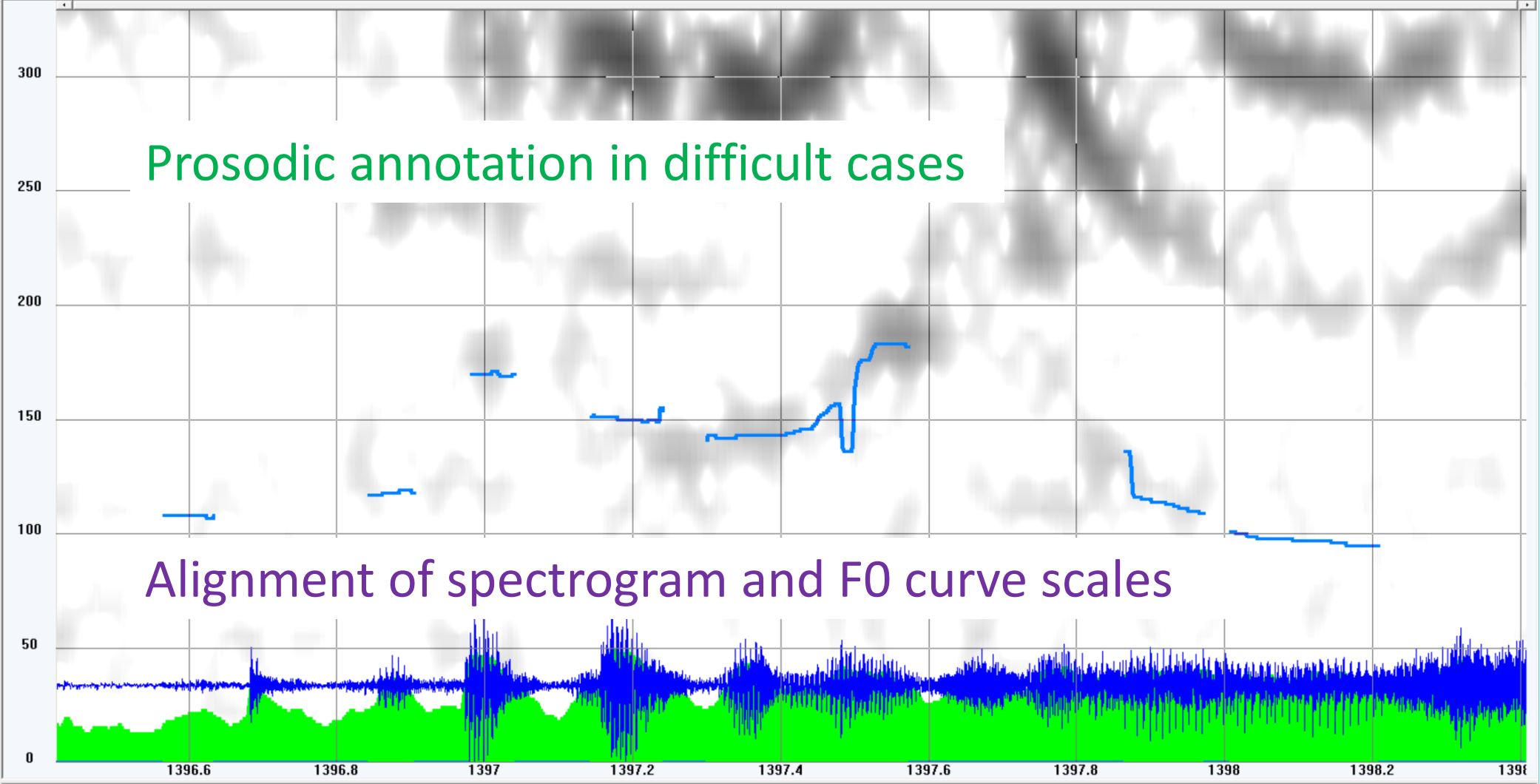
0 Hz 0 Hz 0 Hz 0 Hz  
F1 F2 F3 F4

Wavelet Fourier 2 Channel Filters  
4 Hz 330 Hz  
10 Hz  
N= 256  
7 Cycles

1 Gauss Fs 1024 Hz

Prosodic annotation in difficult cases

Alignment of spectrogram and F0 curve scales



L 4 en fait moi je me demande [t; si euh l...

Fo-D  
St  
Int  
Sp



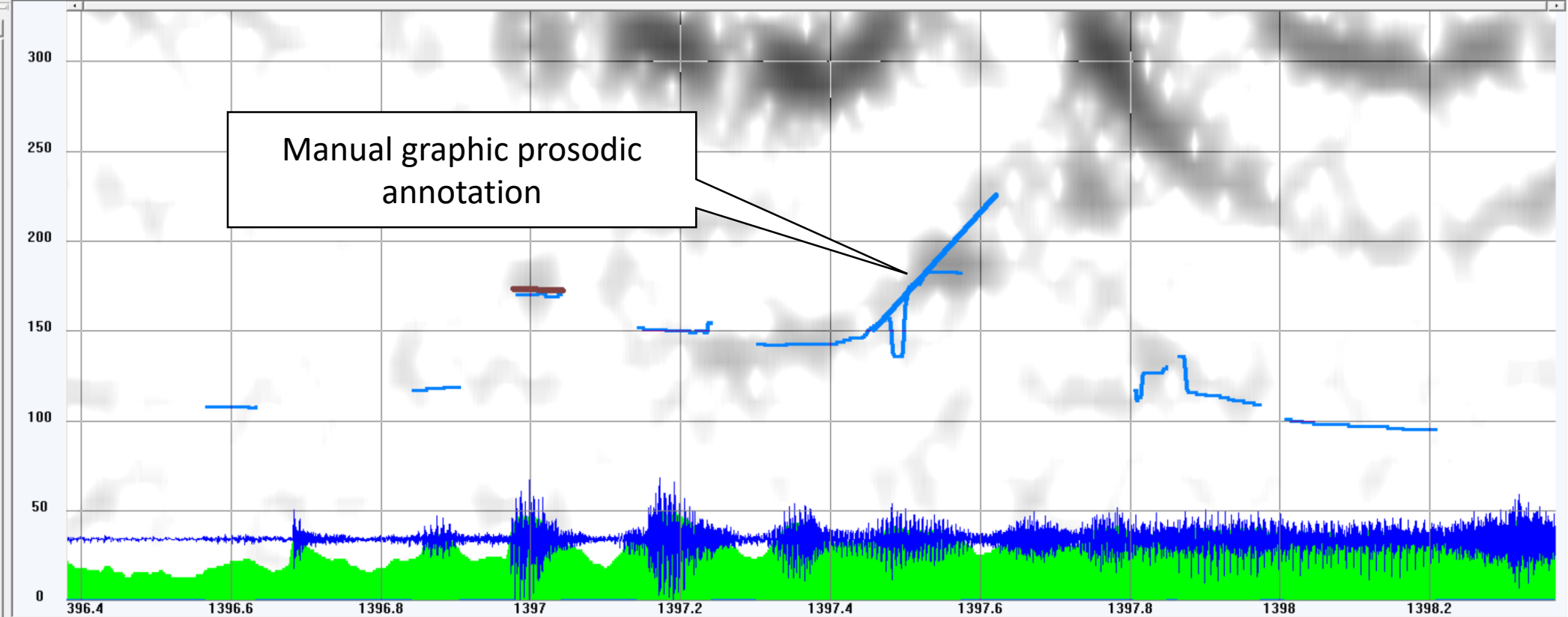


Global method: Autocorrelation  
Current method: Autocorrelation  
Multi method:  C  A  M  B  
Undo local method: Buffer Screen Last

Harmonic selection  
 Period  Cepstrum  
 Comb  AMDF  
 Autocorrelation  Brush  
 Fo Preset  Fo Annotation

Mode: C1  
Create Edit Delete Undo 6

Name	Start	End	V
Cn	1396.976 s	1397.044 s	17
C1	1397.458 s	1397.621 s	15



L 4 en fait moi je me demande It; si e...

L 5

L 6

L 7

L 8

L 9

CTR

L11

Fo-D

St

Int

Sp

File Home Insert Page Layout Formulas Data Review View Add-ins LOAD TEST Power Pivot Team Tell me what you want to do Share

Cut Copy Paste Format Painter Clipboard

Arial Unicode 12 Font

Wrap Text Alignment

General Number

Conditional Formatting Table

Normal Bad Good Neutral Calculation Check Cell Explanator... Input Linked Cell Note Styles

Insert Delete Format Cells

AutoSum Fill Clear Editing

Sort & Find & Filter Select

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	Name	Width	T 1 [s]	T 2 [s]	F0 1 [s]	F0 2 [Hz]	Duration [s]	Range [Hz]	F0 1 [ST]	F0 2 [ST]	Int 1 [dB]	Int 2 [dB]	Diff Int [dB]	Glissando [st/s]	Glissando ratio	Distance					
2																					
3	Cn	6	1396.976	1397.044	173	172	0.067	-1	9	9	34	26	-8	9//70	0.128	24					
4	C1	6	1397.458	1397.621	150	225	0.163	75	7	14	28	24	-4	46//11	4.181	91					
5																					
6																					
7																					
8																					
9																					
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35																					
36																					

Excel output of graphic prosodic annotation

WinPitchW10 - [D:\MyDocuments\WinPitch cours\Hollande contour all.wav]

File Edit View Tools Setup LingLab Window Help

New Load Save Record Stop Play Synthe Refresh Lens Spectro Text Tag Highlight Layers Align Statistics MIDI Print Setup Grooming Fo Postprocess LingLab Help Hide

Synthesis Tables Align

MMedia Playback engine Psola AutoCor Phase

Text file Load Playback speed: 48.0% 100

Save Play / Align on the fly Start Channel 0.000 s L R

Restore Reset Play Stop Save (Dbl) Right mouse button to replay

Text Synchronize Erase last separator Text Text + Anno Set layer

Transcribe Auto AP Block Pause duration 250 Screen Buffer

Annotate Field a Field b Field c Field d Field e Field f Field g Field h Right to left Chinese Unicode code KaraOK Sound Link Excel

Waveform Segment in words Screen adjust = 91 % in layer L1

Aligned text Lock Query file list Show Show

Transcribe mode (Transcription does not exist)

Use function keys for direct layer assignment (F2 for Layer1, F3 for Layer2, etc.).  
Use Return key to define sections with no layer assignment  
Assign layer by selecting text and using Shift+Number keys  
Edit text directly in align window  
Ctrl+V to paste on selected Text  
NOTE: The text window MUST be selected

D:\MyDocuments\WinPitch cours\Hollande contour all.rtf

Rank	Left context	Entry	Righ	Prec	Directory	Rank	Layer	Section
A*				?				

No case  
 Exact  
 Track

Arial Unicode MS

\*L 1: Mes chers compatriotes Je m'adresse à vous ce soir pour vous faire connaître la décision que j'ai prise dans la perspective de la prochaine élection présidentielle\$Depuis mai 2012\$c'est à dire la date à partir de laquelle\$je suis devenu président de la République\$j'ai agi avec les gouvernements de Jean Marc Ayrault et de Manuel Valls pour redresser la France et la rendre plus juste Aujourd'hui au moment où je m'exprime les comptes publics sont assainis la Sécurité sociale est à l'équilibre et la dette du pays a été préservée J'ai également voulu que notre modèle social puisse être conforté parce que c'est notre bien commun Je l'ai même élargi pour permettre à ces travailleurs qui avaient commencé très tôt leur vie professionnelle de partir plus précocement à la retraite J'ai fait en sorte qu'à chacune et à chacun puisse être accordée une complémentaire santé Dans ce contexte j'ai aussi voulu placer la France au premier rang Au premier rang de la lutte contre le ré

**Text – Speech alignment on the fly**

u être signé et qui a engagé le nt été ôtés dans la période précédente parce que l'écote c'est le pilier de la République J'ai fait avancer les libertés le mariage a été ouvert à tous les couples l'égalité entre les femmes et les hommes a été renforcée et la lutte contre les discriminations celles qui blessent a été amplifiée J'ai également modernisé notre démocratie avec la réforme territoriale celle dont on parlait régulièrement et qui n'était jamais faite avec la fin du cumul des mandats et avec également la transparence que j'ai imposée à tous les élus à commencer par moi même pour être dans l'exemplarité Mais l'engagement majeur que j'avais pris devant vous c'était de faire baisser le chômage J'y ai consacré avec les gouvernements toute mon énergie j'ai pris tous les risques j'ai allégé les charges des entreprises parce que c'est la condition pour qu'il y ait davantage d'emplois J'ai également aidé les embauches j'ai fait en sorte que la formation professionnelle puisse être une grande priorité j'ai aussi soutenu l'innovation et l'industrie de demain et j'ai pris la responsabilité de réformer le marché du travail Les résultats arrivent plus tard que je ne les avais annoncés j'en conviens mais ils sont là l'investissement la consommation la construction repartent et depuis le début de l'année le chômage enfin diminue mais il reste à un niveau trop élevé et je mesure ce que cette situation peut avoir d'insupportable

L 1 Mes chers comp... Depuis mai 2012 c'est à dire la date à ... je suis de...

Fo-D  
St  
Int  
Sp

WinPitchW10 - [D:\MyDocuments\WinPitch cours\Hollande contour all.wav]

File Edit View Tools Setup LingLab Window Help

New Load Save Record Stop Play Synthe Refresh Lens Spectro Text Tag Highlight Layers Align Statistics MIDI Print Setup Grooming Fo Postprocess LingLab Help Hide

File Load Save Synthesis

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  
Current file name: Hollande contour all.wav Total duration: 621 s  
Start at 0 s  
Load Reload Duration 623 s  
MM sound No MM Time abs.

Praat ORF Other formats  
[pho/syl] ALG Transcriber EEG  
IPA PFC NECTE Ex. out

Search text in transcription files  
Transcriber (\*.trs;\*.trs.bd) Excel

Alignment (\*.xml) Unicode Segment in phones  
Load Save sel Save as

Image (\*.bmp;\*.jpg;\*.gif;\*.png) Inverted  
Format BMP JPG GIF PNG  
Define image rectangle with Ctrl key down

Encrypt Decrypt  
Enable Encrypt Decrypt

D:\MyDocuments\WinPitch cours\Hollande contour all.rtf

Rank	Left context	Entry	Righth	Prec	Directory	Rank	Layer	Section
A				?				

No case  
 Exact  
 Track

Arial Unicode MS

\*L 1: Mes chers compatriotes Je m'adresse à vous ce soir pour vous faire connaître la décision que j'ai prise dans la perspective de la prochaine élection présidentielle. Depuis mai 2012, c'est à dire la date à partir de laquelle je suis devenu président de la République, j'ai agi avec les gouvernements de Jean Marc Ayrault et de Manuel Valls pour redresser la France et la rendre plus juste. Aujourd'hui au moment où je m'exprime les comptes publics sont assainis la Sécurité sociale est à l'équilibre et la dette du pays a été préservée. J'ai également voulu que notre modèle social puisse être conforté parce que c'est notre bien commun. Je l'ai même élargi pour permettre à ces travailleurs qui avaient commencé très tôt leur vie professionnelle de partir plus précocement à la retraite. J'ai fait en sorte qu'à chacune et à chacun puisse être accordée une complémentaire santé. Dans ce contexte j'ai aussi voulu placer la France au premier rang de la lutte contre le réchauffement climatique. Ce traité doit être signé et qui a engagé le monde entier. J'ai voulu au contraire que la France soit le pilier de la République. J'ai fait avancer les libertés. Le mariage a été ouvert à tous les couples. L'égalité entre les femmes et les hommes a été renforcée et la lutte contre les discriminations celles qui blessent a été amplifiée. J'ai également modernisé notre démocratie avec la réforme territoriale celle dont on parlait régulièrement et qui n'était jamais faite avec la fin du cumul des mandats et avec également la transparence que j'ai imposée à tous les élus à commencer par moi même pour être dans l'exemplarité. Mais l'engagement majeur que j'avais pris devant vous c'était de faire baisser le chômage. J'y ai consacré avec les gouvernements toute mon énergie. J'ai pris tous les risques. J'ai allégé les charges des entreprises parce que c'est la condition pour qu'il y ait davantage d'emplois. J'ai également aidé les embauches. J'ai fait en sorte que la formation professionnelle puisse être une grande priorité. J'ai aussi soutenu l'innovation et l'industrie de demain et j'ai pris la responsabilité de réformer le marché du travail. Les résultats arrivent plus tard que je ne les avais annoncés. J'en conviens mais ils sont là. L'investissement la consommation la construction repartent et depuis le début de l'année le chômage enfin diminue mais il reste à un niveau trop élevé et je mesure ce que cette situation peut avoir d'insupportable.

**Text – Speech alignment on the fly**

L 1 Depuis mai 2012 c'est à dire la date à partir de laquelle je suis devenu président de la République

Fo-D  
St  
Int  
Sp



Load Save Synthesis Tabl

Selection (Alt key to define block)  
Gliss Relative values

Fo Fo Int Speed Time Pause

Color F1 F2 F3 F4

Psola Mode  
Del all Create Edit Delete

Phase

Play Stop Synthe Save MIDI

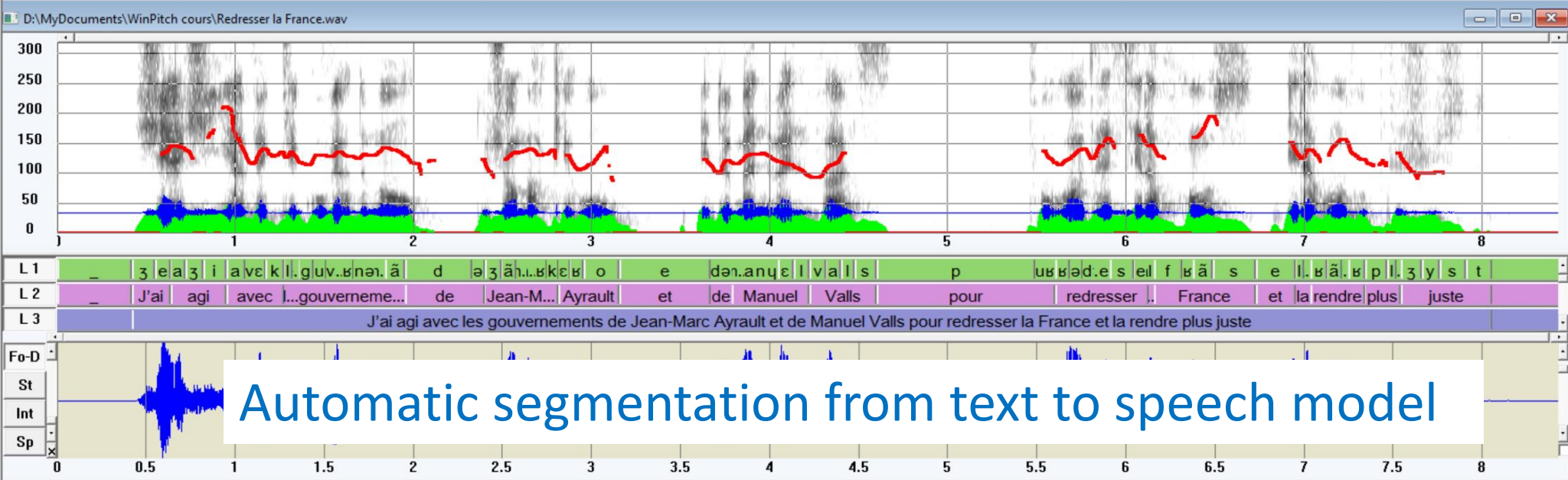
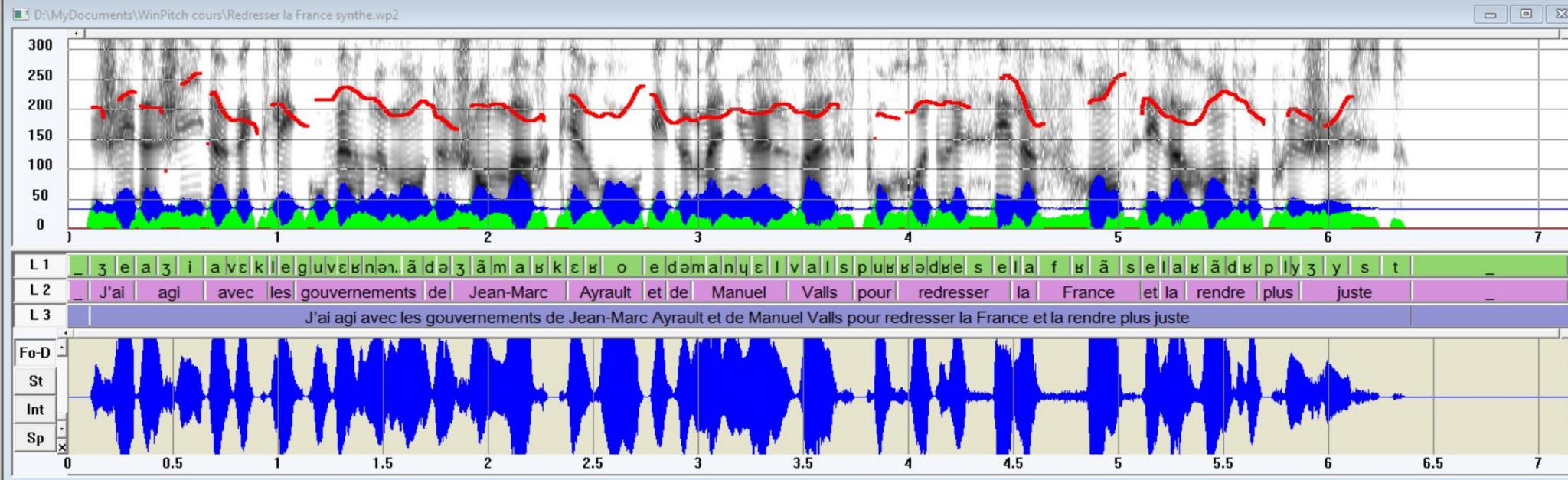
Aver. Fo Range Redresser la Franc  
129 100

Values at cursor  
Time 0.874 s Int. 27 dB Fo 0 Hz

Formants (up down left right keys)  
Bandwidth/50 6 Intensity 40

Resulting values  
Duration Intensity Fo Spectro Pause  
184 ms 108 dB 184 Hz 2723 Hz 469 ms

TTS 0



Automatic segmentation from text to speech model

# Prosodic annotation functions

The screenshot shows a software interface for prosodic annotation. At the top, there are tabs for 'Grooming', 'Fo tracking', and 'Fo P'. Below these are settings for 'Global method' (Spectral Comb), 'Current method' (Spectral Comb), and 'Multi method' (C, A, M, B). There are also buttons for 'Undo local method' (Buffer, Screen, Last) and 'Harmonic selection' (Period, Cepstrum, Autocorrelation, Brush, Comb, AMDF, Fo Preset, Fo Annotation).

Callout boxes provide the following explanations:

- Contour under cursor parameters:** Points to the 'Cn Glissando/Seuil: 35/45' label.
- Color contour definition (Shift + click to change):** Points to a row of colored squares (yellow, cyan, brown, green, blue, red, magenta).
- Definition and selection of contours:** Points to a grid of contour labels (Cf, Creak, Cn, C2, C1, C0, Ci) and another row of labels (euh, Cb, Cc, Cd, Sempt, Cf, Cst).

At the bottom, there is a 'Mode' section with 'Create', 'Edit', 'Delete', and 'Undo' buttons, and a table of annotations.

Name	Start	End
Cn	40.003 s	40.087 s
C2	40.477 s	40.640 s
C1	41.308 s	41.409 s
C2	42.350 s	42.586 s
C2	43.779 s	43.876 s
Cn	44.073 s	44.114 s
C1	44.655 s	44.820 s
C1	45.841 s	45.937 s
Cn	46.697 s	46.802 s
C0	47.412 s	47.507 s
Cn	48.566 s	48.797 s
C2	49.119 s	49.258 s
C1	49.698 s	49.842 s
C2	50.329 s	50.534 s
Cn	51.656 s	51.755 s
C1	52.276 s	52.353 s
Cn	53.220 s	53.280 s
C1	54.428 s	54.585 s
Cn	55.772 s	55.811 s
C0	56.248 s	56.359 s
C2	57.894 s	58.115 s
C1	58.575 s	58.672 s
Cn	59.065 s	59.117 s
C2	59.620 s	59.698 s
C1	59.939 s	60.060 s
Cn	60.949 s	61.016 s
C1	61.278 s	61.384 s



# Prosodic annotation functions

The screenshot shows a software interface for prosodic annotation. At the top, there are tabs for 'Grooming', 'Fo tracking', and 'Fo P'. Below these are settings for 'Global method' (Spectral Comb), 'Current method' (Spectral Comb), and 'Multi method' (C, A, M, B). There are also buttons for 'Undo local method' (Buffer, Screen, Last) and 'Harmonic selection' (Period, Cepstrum, Autocorrelation, Brush, Comb, AMDF, Fo Preset, Fo Annotation). A 'Cn Glissando/Seuil: 35/45' label is present above a row of colored buttons (Cf, Creak, Cn, C2, C1, C0, Ci, euh, Cb, Cc, Cd, Cempl, Cf, Cst). Below this is a 'Mode' section with 'Create', 'Edit', 'Delete', 'Undo', and 'Cf' buttons, and a width selector set to '6'. An 'Annotate' button with a green 'X' icon is also visible. At the bottom, a table lists annotations with columns for 'Name', 'Start', and 'End'. Callout boxes point to various features: 'Contour mode (Create / Edit / Delete)' points to the Mode buttons; 'Define contour displayed name' points to the 'Cf' button; 'Select contour displayed width' points to the width selector; 'Automatic contour selection' points to the 'Annotate' button; 'Check minimum / maximum stress group (AP) duration' points to the 'Check' button; 'Transfer annotation to Excel' points to the 'Annotate' button; and 'Transfer annotation to selected layer' points to the 'Annotate' button.

Name	Start	End
Cn	40.003 s	40.087 s
Cf	40.477 s	40.640 s
C1	41.308 s	41.409 s
C2	42.350 s	42.586 s
C2	43.779 s	43.876 s
Cn	44.073 s	44.114 s
C1	44.655 s	44.820 s
C1	45.841 s	45.937 s
Cn	46.697 s	46.802 s
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C1	52.276 s	52.353 s
Cn	53.220 s	
C1	54.428 s	
Cn	55.772 s	
C0	56.248 s	
C2	57.894 s	
C1	58.575 s	
Cn	59.065 s	59.117 s
C2	59.620 s	59.698 s
C1	59.939 s	60.060 s
Cn	60.949 s	61.016 s
C1	61.278 s	61.384 s

# Prosodic annotation functions

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Name	Width	T 1 [s]	T 2 [s]	F0 1 [s]	F0 2 [Hz]	Duration [s]	Range [Hz]	F0 1 [ST]	F0 2 [ST]	Int 1 [dB]	Int 2 [dB]	Diff Int [dB]	Glissando [st/s]	Glissando ratio
2															
3	Cn	6	0.491	0.534	156	168	0.043	12	7	8	31	33	2	29//168	0.172
4	Cn	6	1.056	1.093	150	139	0.037	-11	7	5	33	28	-5	39//226	0.172
5	Cn	6	1.440	1.481	138	125	0.040	-13	5	3	39	29	-10	51//194	0.262
6	C0	6	2.069	2.146	102	084	0.077	-18	0	-3	37	25	-12	54//53	1.018
7	Cn	6	4.000	4.061	203	193	0.061	-10	12	11	38	37	-1	14//85	0.164
8	Cn	6	4.551	4.620	176	156	0.069	-20	9	7	40	23	-17	45//65	0.692
9	Cn	6	4.969	5.080	119	114	0.111	-5	3	2	33	34	1	7//25	0.280
10	Cn	6	6.020	6.095	132	152	0.074	20	4	7	33	36	3	35//57	0.614
11	C2	6	6.216	6.439	123	111	0.223	-12	3	1	31	6	-25	32//6	5.333
12	C1	6	7.056	7.140	119	157	0.084	38	3	7	16	35	19	74//45	1.644
13	Cn	6	8.428	8.511	152	152	0.083	0	7	7	38	26	-12	12//46	0.260
14	Cn	6	9.059	9.138	126	143	0.079	17	4	6	25	26	1	27//50	0.540
15	Cn	6	9.520	9.595	133	126	0.074	-7	4	4	37	32	-5	17//57	0.298
16	C0	6	10.091	10.163	092	077	0.072	-15	-1	-4	24	11	-13	54//61	0.885
17	Cn	6	11.669	11.734	184	213	0.064	29	10	13	28	32	4	42//75	0.560
18	C2	6	12.621	12.770	141	118	0.148	-23	5	2	34	27	-7	27//14	1.928
19	Cn	6	13.305	13.350	122	138	0.044	16	3	5	36	37	1	47//158	0.297
20	C1	6	13.760	13.921	113	219	0.160	106	2	13	33	24	-9	79//12	6.583
21	Cn	6	14.857	14.936	121	109	0.079	-12	3	1	38	30	-8	30//50	0.600
22	C1	6	15.131	15.258	114	207	0.127	93	2	12	37	22	-15	95//19	5.000
23	Cn	6	16.854	16.897	167	148	0.043	-19	8	6	37	33	-4	50//170	0.294
24	C1	6	17.157	17.265	160	201	0.108	41	8	12	34	31	-3	39//27	1.444
25	Cn	6	17.916	17.990	140	159	0.074	19	5	8	25	36	11	40//57	0.701
26	C0	6	18.429	18.562	101	100	0.133	-1	0	0	22	18	-4	4//17	0.235
27	C1	6	20.047	20.196	122	207	0.149	85	3	12	34	24	-10	71//14	5.071
28	Cn	6	20.508	20.631	136	133	0.122	-3	5	4	38	32	-6	8//21	0.380
29	C1	6	21.162	21.316	128	211	0.153	83	4	12	31	25	-6	61//13	4.692
30	Cn	6	22.302	22.350	141	156	0.048	15	5	7	39	34	-5	40//138	0.289
31	Cn	6	22.665	22.730	137	160	0.064	23	5	8	32	31	-1	41//76	0.539
32	C2	6	23.085	23.256	119	111	0.170	-8	3	1	35	27	-8	15//10	1.500
33	C1	6	23.789	23.926	111	222	0.137	111	1	13	33	16	-17	104//17	6.117
34	Cn	6	25.428	25.452	153	138	0.024	-15	7	5	36	27	-9	79//553	0.142
35	C2	6	25.791	25.918	150	127	0.127	-23	7	4	36	24	-12	33//19	1.736
36	C1	6	26.485	26.598	126	176	0.112	50	4	9	33	25	-8	58//25	2.320

Transfer prosodic annotation to Excel

# MIDI and speech filtering functions

Time at cursor position

The screenshot shows a software interface with several sections:

- Values:** A table with columns for Time, Note, French, and S. The first row contains the values: 126.757 s, G# 0, Sol# 0, and a checkbox.
- MIDI playback:** Includes a volume control set to 70%, buttons for Sine, Play MIDI, Stop, and Save, and an Instruments dropdown menu set to Acoustic Grand Piano.
- Parameters:** Includes Octave shift (0), Measure [ms] (100), Markers, Tempo (100%), a Fast/Slow slider, and a Mode dropdown menu with options Last, 2/3, and Average.
- Filtering:** Includes radio buttons for Phase, Whisper, Butterworth, and Tchebytschef, High/Low frequency sliders (0 Hz and 5500 Hz), Ripple (30) and Order (8) sliders, and three filter response graphs.
- Bottom controls:** Buttons for Play, Stop, Save, and Dynamic.

Use spectrogram display scale

Note in British and French systems

# MIDI and speech filtering functions

The image shows a software interface with several panels and callouts. The top panel is titled 'Values' and contains a table with columns 'Time', 'Note', 'French', and 'S'. The 'Time' column has a value of '126.757 s', 'Note' has 'G# 0', 'French' has 'Sol# 0', and 'S' has a checkbox. Below this is a 'MIDI playback' section with a volume slider set to 'Vol: 70 %' and buttons for 'Sine', 'Play MIDI', 'Stop', and 'Save'. The 'Instruments' section shows a dropdown menu with 'Acoustic Grand Piano' selected. The 'Parameters' section includes 'Octave' (0), 'Measure [ms]' (100), 'Tempo: 100 %', and a 'Markers' button. The bottom panel has radio buttons for 'Whisper' and 'Tchebytschef', frequency sliders for 'High: 0 Hz' and 'Low: 5500 Hz', and buttons for 'Play', 'Stop', 'Save', and 'Dynamic'. Callouts point to the 'Sine' button, 'Play MIDI' button, 'Save' button, 'Acoustic Grand Piano' dropdown, and the volume slider.

Generate sine wave

Save MIDI transcription

Playback MIDI

Adjust playback volume

Select MIDI instrument

# MIDI and speech filtering functions

The image shows a software interface with several control panels. The top panel, titled 'MIDI', includes a 'Values' section with 'Time' (126.757 s), 'Note' (G# 0), and 'French' (Sol# 0). Below it is a 'MIDI playback' section with a volume slider at 70%, buttons for 'Sine', 'Play MIDI', 'Stop', and 'Save', and an 'Instruments' dropdown set to 'Acoustic Grand Piano'. The middle panel, titled 'Parameters', features an 'Octave shift' control set to 0, a 'Measure [ms]' control set to 100, and a 'Tempo: 100%' slider between 'Fast' and 'Slow'. A 'Mode' section offers 'Last', '2/3', and 'Average' options. The bottom panel contains filter settings for 'Phase' (selected), 'Whisper', 'Butterworth', and 'Tchebychef', with frequency sliders for 'High: 0 Hz' and 'Low: 5500 Hz'. It also includes 'Ripple' (30) and 'Order' (8) controls, and buttons for 'Play', 'Stop', 'Save', and 'Dynamic'. Five callout boxes with arrows point to specific controls: 'Select MIDI playback octave shift' points to the Octave shift control; 'Use last / 2/3 / Average F0 frequency for MIDI conversion' points to the Mode section; 'Select MIDI measure duration' points to the Measure [ms] control; 'Use markers for MIDI measure definition' points to the Markers button; and 'Adjust MIDI playback tempo' points to the Tempo slider.

Select MIDI playback octave shift

Select MIDI measure duration

Use markers for MIDI measure definition

Adjust MIDI playback tempo

Use last / 2/3 / Average F0 frequency for MIDI conversion


# MIDI and speech filtering functions

The image shows a software interface for MIDI and speech filtering. The interface is divided into several sections: Values, MIDI playback, Parameters, and Filter settings. Callout boxes point to various controls:

- Select MIDI playback octave shift:** Points to the Octave shift control in the Parameters section.
- Select MIDI measure duration:** Points to the Measure [ms] control in the Parameters section.
- Use markers for MIDI measure definition:** Points to the Markers button in the Parameters section.
- Select low and high filter cut-off frequencies:** Points to the High and Low frequency sliders in the Filter settings section.
- Select High pass / Bandpass / Low pass filter:** Points to the filter type selection buttons (High pass, Bandpass, Low pass) in the Filter settings section.
- Use dynamic mode:** Points to the Dynamic button in the Filter settings section.
- Save filtered speech:** Points to the Save button in the Filter settings section.
- Playback filtered speech:** Points to the Play button in the Filter settings section.
- Select phase vocoder filtering / Whispered mode:** Points to the Phase and Whisper radio buttons in the Filter settings section.

Setup Statistics

Scope

Block  
Screen  
Highlights  
All except highlights  
Layer    
All buffer  
Layer text

Selection







Fo > 0  
 Intensity  
 Jitter  
 Shimmer  
 Pause  
 Formants

Sampling mode

Marker sampling  
Time sampling 20 ms  
Samples in scope 2  
Period synchronized  
Contours

Transfer samples (\*.wav files)

0 Escape key to abort  
Sampling screen duration: 28.980 s

Excel Text Pitch  
File     
Batch   

0

Speech rate (displayed screen)

-> 5.400 syl/s

Segmentation  All

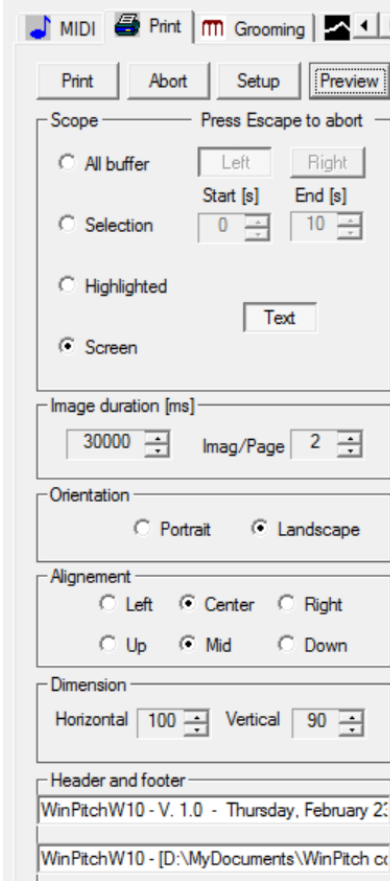
Comp L 1

NbSegment NbInsertion NbDeletion  
Average diff [ms] Standard Dev

Identical < 10 ms < 20 ms < 50 ms  
< 100 ms < 200 ms < 500 ms > 500 ms

## Data analysis functions

# Print functions





## General setup command boxes

F0 (melodic curve)

Intensity curve

Waveform

Time (duration) curve

Layer definition

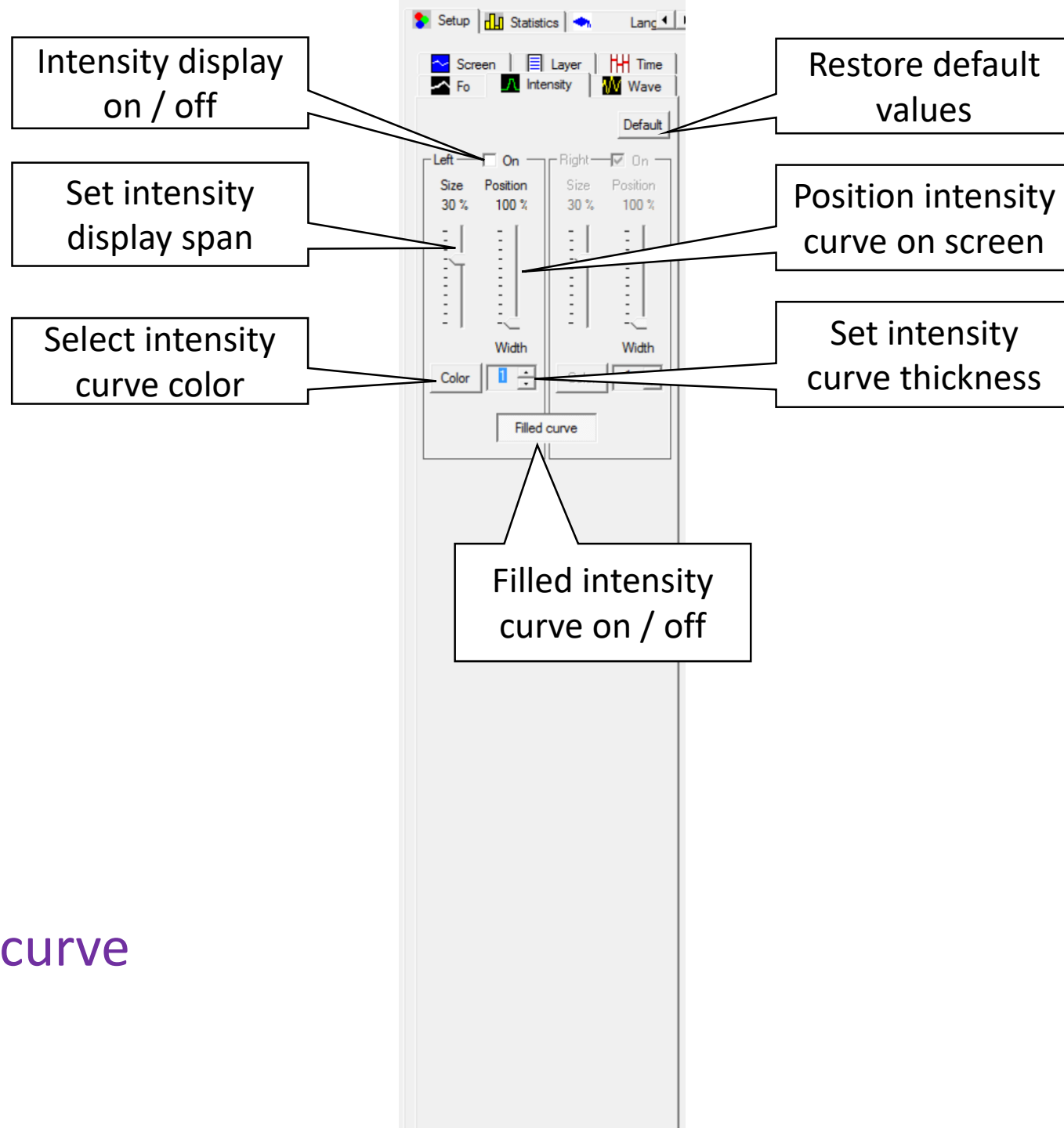
Screen parameters

The screenshot shows a software interface with a menu bar at the top containing 'Setup', 'Statistics', and 'Lang'. Below the menu bar is a toolbar with icons for 'Screen', 'Fo', 'Layer', 'Intensity', 'Time', and 'Wave'. The main area is divided into several sections:

- Default**: A button at the top right of the main area.
- Left**: A section with a checked 'On' checkbox. It contains two columns of controls: 'F0Max' (277 Hz) and 'Position' (100 %). Below these are two vertical sliders. At the bottom are checkboxes for 'Dotted' and 'Width', and a 'Color' button.
- Right**: A section with a checked 'On' checkbox. It contains two columns of controls: 'F0Max' (100 Hz) and 'Position' (100 %). Below these are two vertical sliders. At the bottom are checkboxes for 'Dotted' and 'Width', and a 'Color' button.
- Preset contour definition**: A section with four input fields: 'Glissando threshold' (16), 'Euh duration [ms]' (250), 'Min syl space' (250), and 'Max syl space' (1250).

The image shows a software interface for configuring melodic curves. The interface includes a top menu bar with 'Setup', 'Statistics', and 'Lang'. Below the menu are tabs for 'Screen', 'Layer', 'Time', 'Fo', 'Intensity', and 'Wave'. A 'Default' button is located to the right of these tabs. The main area is divided into two columns, 'Left' and 'Right', each with 'On' checkboxes and 'F0Max' and 'Position' settings. The 'Left' column shows 'F0Max' at 277 Hz and 'Position' at 100%. Below these are vertical sliders for 'Dotted' and 'Width' settings. Further down are 'Color' buttons, 'Spec' and 'Print' buttons, and 'Color' buttons. The 'Right' column has similar settings for 'F0Max' (100 Hz) and 'Position' (100%), with 'Dotted' and 'Width' checkboxes and 'Color', 'Spec', and 'Print' buttons. At the bottom, there is a 'Preset contour definition' section with 'Glissando thresh' (16) and 'Min syl spa' (250) settings. A blue box highlights the bottom portion of the interface. Eight callout boxes with leader lines point to specific controls: 'Melodic curve display on / off' (checkbox), 'Set maximum frequency scale' (slider), 'Select dotted melodic curve' (checkbox), 'Select melodic curve color' (color button), 'Select melodic curve color with spectrogram' (Spec button), 'Restore default values' (Default button), 'Position melodic curve on screen' (Position slider), and 'Set melodic curve thickness' (Width slider). 'Select printed melodic curve color' (Print button) is also labeled but has no callout box.

## Setup melodic curve



## Setup intensity curve

Waveform display on / off

Set waveform display span

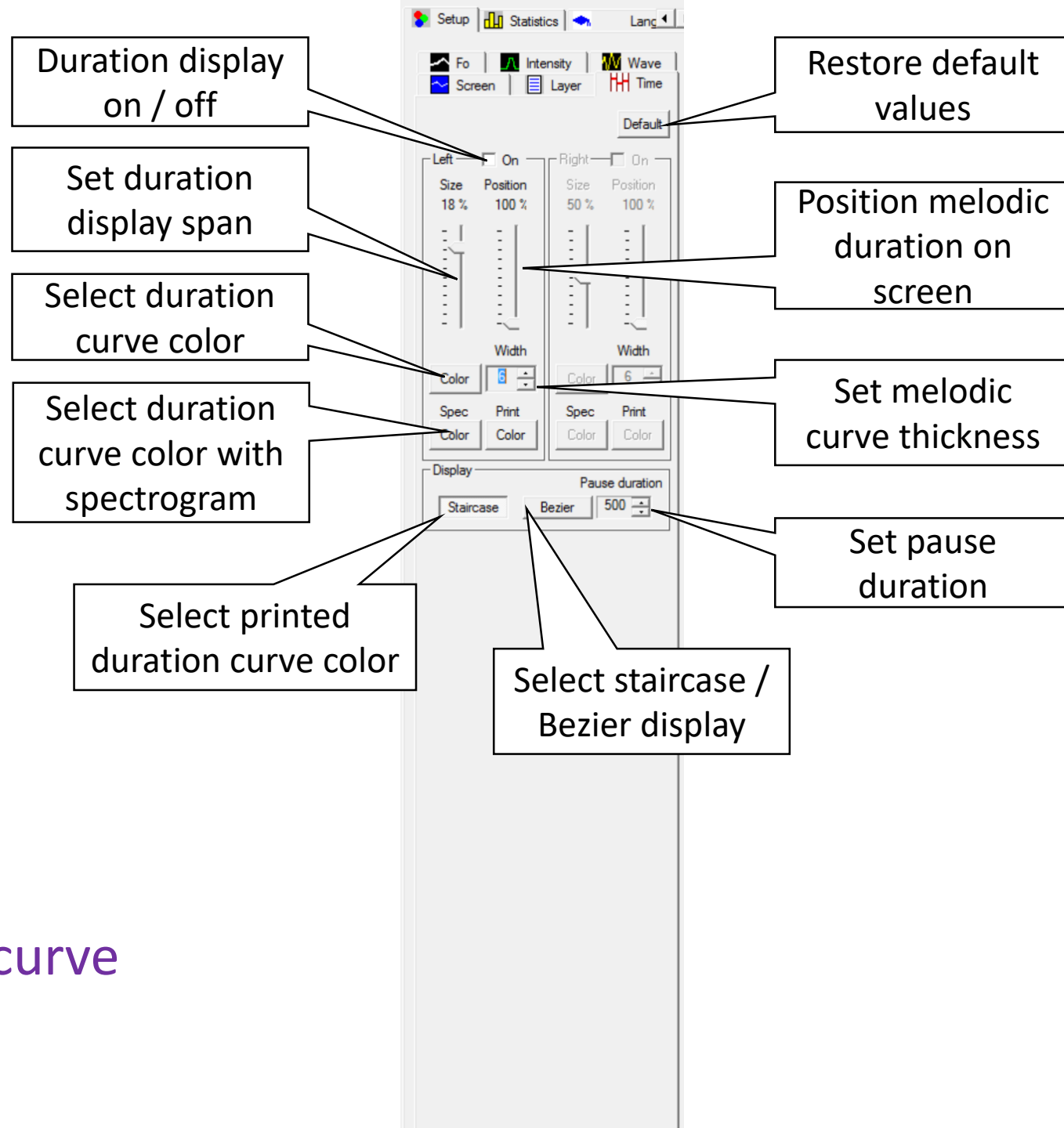
Select waveform curve color



Restore default values

Position waveform curve on screen

Setup waveform curve



## Setup duration curve

Set number of displayed layers

Restore default values

Not used in LTL

Displayed layers: 1 | Default | Align

Name: Layer 1 | Color: [Green]

ID: Layer1

Short: L 1 | Tag: Layer

Category: [ ] | Freeze: [ ]

Font: Arial Unicode MS

Size: 20 | Text: [ ] | View: [ ] | Bold: [ ] | Italic: [ ] | Under: [ ]

L...	Title	ID	Sh. ^
1	Layer 1	Layer1	L
2	Layer 2	Layer2	L
3	Layer 3	Layer3	L
4	Layer 4	Layer4	L
5	Layer 5	Layer5	L
6	Layer 6	Layer6	L
7	Layer 7	Layer7	L
8	Layer 8	Layer8	L
9	Layer 9	Layer9	L
10	Layer 10	Layer10	L1
11	Layer 11	Layer11	L1
12	Layer 12	Layer12	L1
13	Layer 13	Layer13	L1
14	Layer 14	Layer14	L1
15	Layer 15	Layer15	L1
16	Layer 16	Layer16	L1
17	Layer 17	Layer17	L1
18	Layer 18	Layer18	L1
19	Layer 19	Layer19	L1
20	Layer 20	Layer20	L2
21	Layer 21	Layer21	L2
22	Layer 22	Layer22	L2
23	Layer 23	Layer23	L2
24	Layer 24	Layer24	L2
25	Layer 25	Layer25	L2
26	Layer 26	Layer26	L2
27	Layer 27	Layer27	L2
28	Layer 28	Layer28	L2
29	Layer 29	Layer29	L2
30	Layer 30	Layer30	L3
31	Layer 31	Layer31	L3
32	Layer 32	Layer32	L3
33	Layer 33	Layer33	L3
34	Layer 34	Layer34	L3
35	Layer 35	Layer35	L3
36	Layer 36	Layer36	L3
37	Layer 37	Layer37	L3
38	Layer 38	Layer38	L3

Setup transcription layer definition

# Setup transcription layer definition

The image shows a software interface for defining transcription layers. The main window is titled 'Layer 1' and contains the following fields and controls:

- Name:** Layer 1
- ID:** Layer1
- Short:** L 1
- Category:** (empty)
- Font:** Arial Unicode MS
- Size:** 20
- Text View:**
- Bold:**
- Italic:**
- Underline:**
- Tag:** Layer
- Freeze:**

Below the main window is a table listing multiple layers:

...	...	ID	Sh. ^
1	Layer 1	Layer1	L1
2	Layer 2	Layer2	L1
3	Layer 3	Layer3	L1
4	Layer 4	Layer4	L1
5	Layer 5	Layer5	L1
6	Layer 6	Layer6	L1
7	Layer 7	Layer7	L1
...	...	...	...
14	Layer 14	Layer14	L1
15	Layer 15	Layer15	L1
16	Layer 16	Layer16	L1
17	Layer 17	Layer17	L1
18	Layer 18	Layer18	L1
19	Layer 19	Layer19	L1
20	Layer 20	Layer20	L2
21	Layer 21	Layer21	L2
22	Layer 22	Layer22	L2
23	Layer 23	Layer23	L2
24	Layer 24	Layer24	L2
25	Layer 25	Layer25	L2
26	Layer 26	Layer26	L2
27	Layer 27	Layer27	L2
28	Layer 28	Layer28	L2
29	Layer 29	Layer29	L2
30	Layer 30	Layer30	L3
31	Layer 31	Layer31	L3
32	Layer 32	Layer32	L3
33	Layer 33	Layer33	L3
34	Layer 34	Layer34	L3
35	Layer 35	Layer35	L3
36	Layer 36	Layer36	L3
37	Layer 37	Layer37	L3
38	Layer 38	Layer38	L3

Callouts point to various settings:

- Edit layer name:** Points to the Name field.
- Edit layer sub-name:** Points to the ID field.
- Edit layer short name (3 char max):** Points to the Short field.
- Select text font:** Points to the Font dropdown.
- Set text size:** Points to the Size dropdown.
- Use layer text in aligned text window:** Points to the Text View checkbox.
- Display layer on / off:** Points to the Tag dropdown.
- Set text parameters:** Points to the Bold, Italic, and Underline checkboxes.

Setup Statistics Lang

Fo Intensity Wave  
Screen Layer Time

Displayed layers: 1 Default Align

Name: Layer 1 Color: [Green Box]  
ID: Layer1  
Short: L 1 Tag: Layer [checked]  
Category: Freeze [checked]  
Font: Arial Unicode MS  
Size: 20 Text View Bold Italic Under

L...	Title	ID	Sh. ^
1	Layer 1	Layer1	L1
2	Layer 2	Layer2	L1
3	Layer 3	Layer3	L1
4	Layer 4	Layer4	L1
5	Layer 5	Layer5	L1
6	Layer 6	Layer6	L1
7	Layer 7	Layer7	L1
8	Layer 8	Layer8	L1
9	Layer 9	Layer9	L1
10	Layer 10	Layer10	L1
11	Layer 11	Layer11	L1
12	Layer 12	Layer12	L1
13	Layer 13	Layer13	L1
14	Layer 14	Layer14	L1
15	Layer 15	Layer15	L1
16	Layer 16	Layer16	L1
17	Layer 17	Layer17	L1
18	Layer 18	Layer18	L1
19	Layer 19	Layer19	L1
20	Layer 20	Layer20	L2
21	Layer 21	Layer21	L2
22	Layer 22	Layer22	L2
23	Layer 23	Layer23	L2
24	Layer 24	Layer24	L2
25	Layer 25	Layer25	L2
26	Layer 26	Layer26	L2
27	Layer 27	Layer27	L2
28	Layer 28	Layer28	L2
29	Layer 29	Layer29	L2
30	Layer 30	Layer30	L3
31	Layer 31	Layer31	L3
32	Layer 32	Layer32	L3
33	Layer 33	Layer33	L3
34	Layer 34	Layer34	L3
35	Layer 35	Layer35	L3
36	Layer 36	Layer36	L3
37	Layer 37	Layer37	L3
38	Layer 38	Layer38	L3

Layer definition table

Setup transcription layer definition



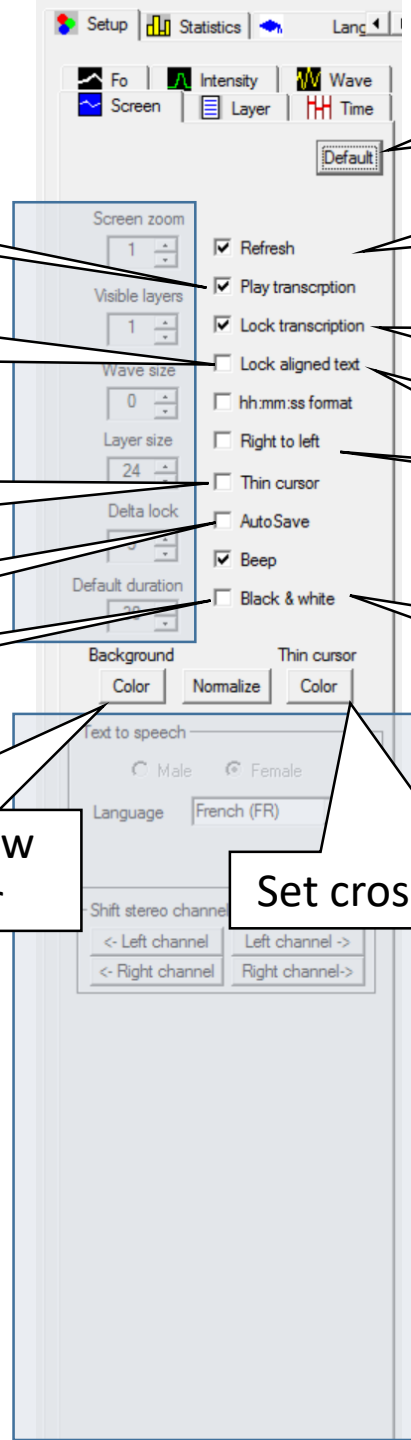
# Setup display parameters

The image shows a software interface for configuring display parameters. The interface includes a menu bar with 'Setup', 'Statistics', and 'Lang'. Below the menu bar are icons for 'Fo', 'Intensity', 'Wave', 'Screen', 'Layer', and 'Time'. A 'Default' button is located in the top right. The main settings area is divided into several sections:

- Screen zoom:** A spinner control set to 1.
- Visible layers:** A spinner control set to 1.
- Wave size:** A spinner control set to 0.
- Layer size:** A spinner control set to 24.
- Delta lock:** A spinner control set to 5.
- Default duration:** A spinner control set to 30.
- Background:** Buttons for 'Color', 'Normalize', and 'Color'.
- Thin cursor:** Buttons for 'Color' and 'Color'.
- Text to speech:** Radio buttons for 'Male' and 'Female', and a dropdown menu for 'Language' set to 'French (FR)'. There are also 'Left channel' and 'Right channel' buttons.
- Shift stereo channel:** Buttons for '<- Left channel', 'Left channel ->', '<- Right channel', and 'Right channel->'.

Callouts point to specific settings:

- Set screen zoom level:** Points to the 'Screen zoom' spinner.
- Set number of displayed layers:** Points to the 'Visible layers' spinner.
- Set waveform displayed size:** Points to the 'Wave size' spinner.
- Set default navigation window duration:** Points to the 'Default duration' spinner.
- Restore default values:** Points to the 'Default' button.
- Set layer displayed size:** Points to the 'Layer size' spinner.
- Set cursor selection number of pixels:** Points to the 'Delta lock' spinner.



Playback selected segment on layer

Lock aligned transcription

Use crosshair thin cursor

Automatic wp2 save

Beep for errors

Set selected window background color

Restore default values

Refresh screen automatically

Lock text transcription

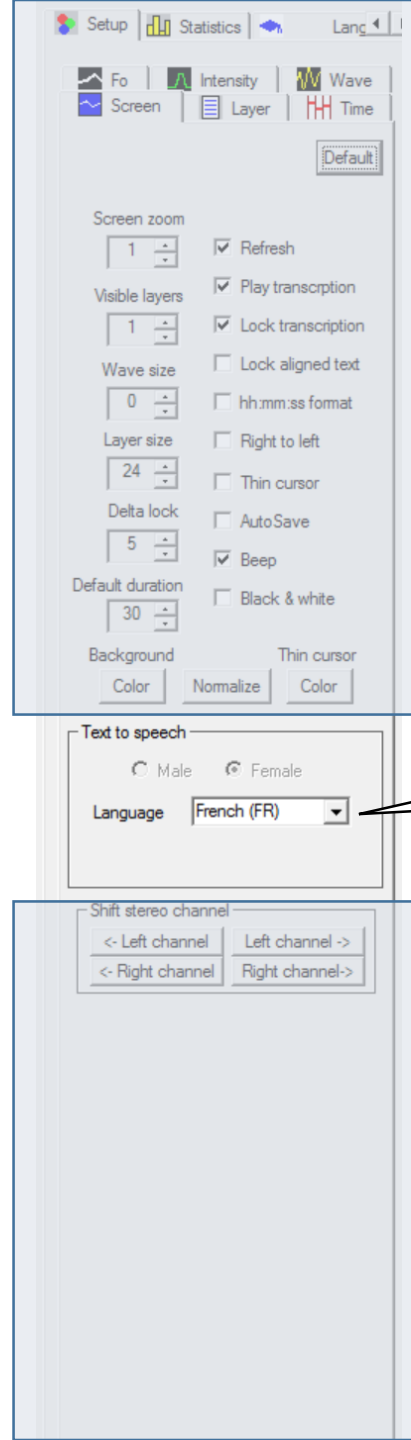
Use hh:mm:ss time format

Select right to left display

Use black and white display

Set crosshair cursor color

# Setup display parameters



Select text to speech synthesis language (for text lessons)

Setup display parameters

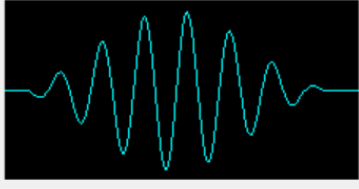
# Spectrum setup for F0 comb

Fourier Brush All Default

Freq resol: / 21 Hz 1024 Samples

Time resol: / 46 ms

Window: Hann(ing)

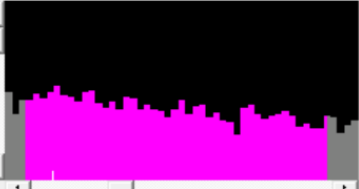


Harmonic selection

Zero	Contrast	High	Delta	S/N
-15 dB	1.8	0 dB	40 dB	12 dB

Fmin: 60.Hz Fmax: 1000.Hz

Comb / Brush retained harmonics



171.655 s 2130 Hz 1102 Hz

Time Frequency F max

BandPass intensity  Enable

Duration: 23 ms

Lock freq Intensity 512 Points

3700 Hz -3 dB

BandPass frequencies

Freq min 300 Hz Freq max 4000 Hz

Block duration 0.000 s  Smooth

0 left peaks Creak = 0 0 right peaks

Nb zero = 65

m Grooming Fo tracking Fo P

Global method Autocorrelation

Current method Autocorrelation All

Multi method  C  A  M  B

Undo local method Buffer Screen Last

Harmonic selection

Period Cepstrum

Fo Preset Fo Annotation

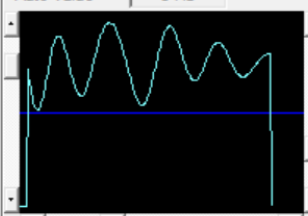
Comb AMDF

Autocorrelation Brush

Fo Range Reset Color Default

Fmin: 70.Hz Fmax: 500.Hz

Auto value 0 Hz



Time 159.833 s Dur 0.004 s

Window Rectangle Type Classic Praat Yin

Parameters Length [ms] 40 Silence (\*.01) 70

## Autocorrelation setup

Grooming Fo tracking Fo P

Global method Spectral Comb

Current method Spectral Comb All

Multi method  C  A  M  B

Undo local method Buffer Screen Last

Harmonic selection

Period Cepstrum

Autocorrelation Brush

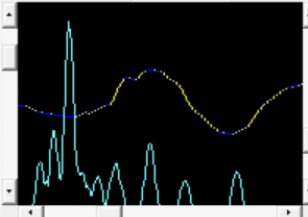
Fo Preset Fo Annotation

Comb AMDF

Fo Range Reset Color Default

Fmin: 70.Hz Fmax: 500.Hz

Comb value 139 Hz



Time 157.908 s Dur 0.004 s

Comb

NbPeak 25 NbTeeth 6

Fmin: 50.Hz Fmax: 1000.Hz

Differential comb

NbPeak 25 NbTeeth 1

Fmin: 50.Hz Fmax: 4500.Hz

# Spectral comb setup

Grooming Fo tracking Fo P

Global method AMDF

Current method AMDF All

Multi method  C  A  M  B

Undo local method Buffer Screen Last

Harmonic selection

Period Cepstrum

Fo Preset Fo Annotation

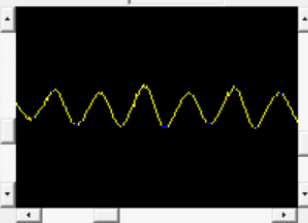
Autocorrelation Brush

Comb AMDF

Fo Range Reset Color Default

Fmin: 70.Hz Fmax: 500.Hz

Amdf value 134 Hz



Time 157.515 s Dur 0.023 s

Parameters

Length	Clipping
23 ms	30 %

AMDF setup

Grooming Fo tracking Fo P

Global method AMDF

Current method AMDF All

Multi method  C  A  M  B

Undo local method Buffer Screen Last

Harmonic selection

Period Cepstrum

Fo Preset Fo Annotation

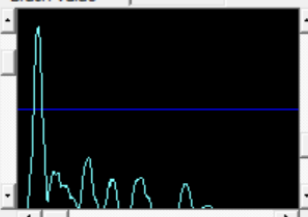
Comb AMDF

Autocorrelation Brush

Fo Range Reset Color Default

Fmin: 70.Hz Fmax: 500.Hz

Brush value 0 Hz



Time Dur 0.004 s

BRUSH Noise [0.1%] Tone [0.1%]

1  10

Frames left Frames right Interval [ms]

2 2 50

Width [Hz] Dev [%] Step [0.1%]

16 50 10

Comb parameters in Comb selection box

## Spectral brush setup



Fo tracking Fo Postprocessing

All Default

Voicing			Smoothing		
Nb zero	Int.	% harm.	Dev.	Median	Voicing
100	18 dB	33 %	100	3	40
▬	▬	▬	▬	▬	▬
▬	▬	▬	▬	▬	▬
▬	▬	▬	▬	▬	▬
▬	▬	▬	▬	▬	▬
▬	▬	▬	▬	▬	▬
▬	▬	▬	▬	▬	▬
▬	▬	▬	▬	▬	▬
▬	▬	▬	▬	▬	▬
▬	▬	▬	▬	▬	▬

Sampling Window Overlap Min vowel  
20 300 60 40

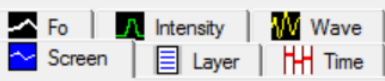
Consistency Red Screen duration  
5 0 %  3

Transition Blue View Nb frame  
5 0 %

Creak Green Screen Buffer  
15 0 %  Clear Check

Press Escape to stop

F0 curve smoothing parameters



Default

Screen zoom

1

Refresh

Visible layers

1

Play transcription

Lock transcription

Wave size

120

Lock aligned text

hh:mm:ss format

Layer size

24

Right to left

Thin cursor

Delta lock

5

AutoSave

Beep

Default duration

30

Black & white

Background

Color

Thin cursor

Normalize

Color

Text to speech

Male  Female

Language French (FR)

Shift stereo channel

<- Left channel

Left channel ->

<- Right channel

Right channel->

and it's available at [www.winpitch.com](http://www.winpitch.com) (Fresh daily!)