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# TODO List

December 10, 2011

If I remember correctly, the order and content are:

1. Split File needs to support saving both the Phrase and Word.

2. Auto Parse of a Phrase needs to mark PL1 & PL2.

3. Import of SFM data needs to worked on.

4. Find & Replace needs to be worked on; it needs to support #, but not C or

V.

# Feature: Split File

~~Well here is bigger job; adding a new feature.~~

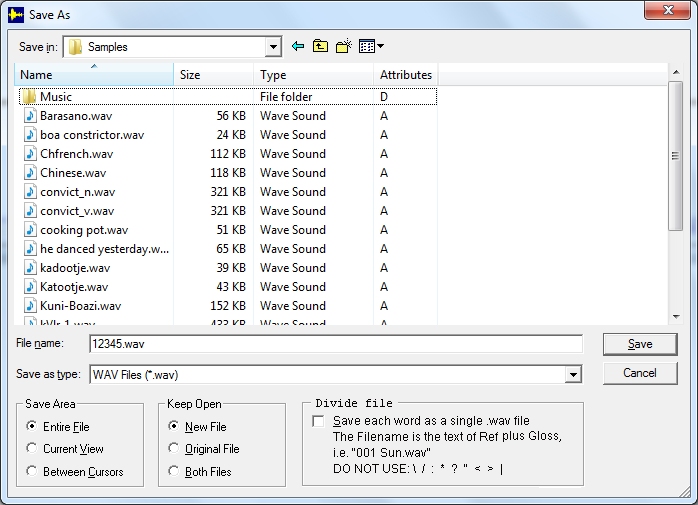
~~Both instructors here feel this feature is holding them back from using SA with Wordlists, and thus they want to use Audacity.~~

~~This new feature would allow users to easily break up Wordlist recording so that other programs can play back single words.~~

~~The idea is to open the wave file, and after the user marks the various words, then save each word as a separate wave file.~~

~~I’ve attached a simple Wav / Saxml file that you can use.~~

~~This new feature should be put in the Save As dialog box; see attached.~~

~~~~

~~The user will:~~

~~Open the recording (the .wav file)~~

~~Delineate the first word using the Begin & End cursors~~

~~Press the Add Segment button on the tool bar~~

~~Move the cursors to the next word and press the Add Segment button and thus complete the file.~~

~~Then the user will number each word in Ref~~

~~Then enter a preliminary Phonetic transcription~~

~~And then enter the English Gloss for the word~~

*~~Then using the Save As dialog, the user will save each word as a separate file using this new feature.~~*

~~I should be more specific as to what I intended to say.~~

~~When the user does a Save As, then clicks OK this will result in SA saving all of the audio data in the file into separate smaller audio files based on the Ref field.~~

~~So given the 12345 example I sent, then a single use of the Save As function by a user will automatically generate 5 separate wave files.~~

~~What I should have written was:~~

~~Then using the Save As dialog, the user will be able to automatically save each word as a separate file using this new feature.~~

~~The way to do this is auto separate saving process is to:~~

~~Position both cursors to beginning of the recording, by selecting the first Gloss word~~

~~Do this by using existing code to:~~

~~Press the ESC key to de-select any current selection~~

~~Do an Edit/ Select Segment/ Previous Item until it become invalid (i.e. grayed out)~~

~~#1 Do a test to see if both Ref and Gloss have text and that it is valid.~~

~~If either Ref or Gloss are blank, then do an Edit/ Select Segment/ Next Item~~

~~Jump up to #1~~

~~If they both have valid data, then save that word by using the code for the~~

~~File/ Save As/ Between Cursors command~~

~~Use the Ref and Gloss texts as the filename (i.e. “001 one.wav” and “002~~

~~two.wav”, ...)~~

~~Then use the SA code to do an Edit/ Select Segment/ Next Item~~

~~Jump up to #1~~

~~This process ends when Edit/ Select Segment/ Next Item becomes invalid (i.e. grayed out)~~

~~Note:~~

~~Since the Ref+space+Gloss string will become the filename, protect the Windows Write function from crashing by testing for invalid characters in the string (i.e. \ / : \* ? “ < > | ); If you find one I suggest you replace it with a hyphen so the user knows something is not correct.~~

~~…~~

~~For the Split File feature, after talking to one of the instructors, here is a revision to the filename process.~~

The conditions for building a valid filename are:

. Ref field can be alpha-numeric including <space>

. Gloss field can be alpha-numeric including <space>

. Ref field can be blank

. Gloss field can be blank

. Ref field and Gloss field cannot both be blank at the same time

. Ref field cannot have duplicate data

. Gloss field cannot have duplicate data unless Ref is different

. Ref field and Gloss field cannot use invalid characters

For now if an error condition exists, then put up a message that says something like “Invalid Filename - Failed to any save data”

In the future the offending item can be displayed so the user can more easily fix the problem.

Also, I suggest that these Split Files be put into a folder called Split that is a new sub-folder that SA makes in the location where the wave file is currently opened. In the future SA should let users choose the folder name and location.

FYI, a Wordlist is usually from 200 words to 400 words, but typically people the MSEA 436 Wordlist. A specific word like Sun will result in the following information being recorded: Ref, Word, Word, Word, Example:

Audio: Item Number One, Sun, Sun, Sun, The Sun is hot

I wanted to lay out my ideas for how the Split File feature would be implemented. As time goes on we can refine these details.

There are actually two parts to the Split File feature:

Audio File support and Data File support.

So far I’ve only talked about Audio File support. There will also need to be a version 1 and then a version 2.

The Data File will contain the information that a user enters. i.e. Ref, Phonetic, Gloss, and other Meta Data like Language, Speaker name, Date, ... All of this data needs to be exported from SA and imported into the linguistic program that people are using these days called FLEx (Fieldworks Language Explorer). The SFM export of the Data File from SA needs to be imported into FLEx. For now I plan to work on this design and implementation by using the SFM Import feature in FLEx. In the future a new feature needs to be added to the SA Export list to support exporting in LIFT format.

Split File version 2 will require a dialog box to support all of the new user

options since they will not fit in the current customized Save As control. That is to say, in the future the selection of File/ Save As could bring up a dialog box first, the show the Windows Save As control regardless of what kind of saving the user wants to do.

Below is a chart showing the differences between what needs to be done now verses what might be done in the future after we have proven the initial concept of Split

File.

Feature in SA

version 1

version 2

version 3

Open Recording

File/ Open

File/ Open

File/ Open

Parse Recording

Tools/ Experimental Features/ Auto Parse1

and Manual editing

Enhanced Auto Parse

and Manual editing

Based on ref markers

and Manual editing

Ref data

Manual entry

Pre-Fill from Wordlist Doc file

Speech recognition of 0-9

Phonetic data

Manual entry

Manual entry

Speech recognition of Vowels

Speech recognition of Cons. (?)

Gloss data

Manual entry

Pre-Fill from Wordlist Doc file

Pre-Fill from Wordlist

Meta Data

<not supported>

File/ Information/ Source

File/ Information { all tabs }

Audio Folder name

“Split”

User selectable

User selectable

Audio Filename

Ref & Gloss

User selectable including any Transcription Bar names

User selectable including any Transcription Bar names

Folder Location

In current open file

User selectable

User selectable

Save As

Updated Save As dialog box

Use new setup dialog box

Also save All data in Ref and also a selected single word within Ref

Use setup dialog box

File/ Export

Use SFM Export

New Export/ LIFT option

New Export/ LIFT

~~The instructor I am working with currently is named Ken.~~

~~Ken has been more specific regarding his needs, and it’s clear that it will take a dialog box to provide the user options for version 2.~~

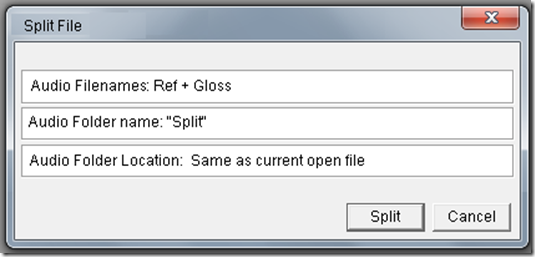
~~So it seems like it would be better to now add a new item in the File menu structure and separate the Save As and Split File features.~~

~~Save As could remain as it has originally been, or changed as needed for the~~

~~compiler as needed, but have Split File become a new save feature below Save As...~~

~~My idea is that when the user selects File\ Split File then show a dialog box.~~

~~For version 1, options are fixes so text boxes that state what will be done is sufficient, and a single button to actually splits the files should be sufficient.~~

~~~~

## November 15, 2011

After talking to one of the instructors here today, and from a comment a few days ago from someone, it seems that there will be two basic uses of the Split File feature.

1) Students with a simple word list with 1-3 pronunciations of the word: it may or may not have Ref, may or may not have Phonetic, but will have Gloss and no Phrase L1 data and no Phrase L2 data.

2) Survey personnel with a more complex word list that has all of the parts: Ref number, three Phonetic words, Gloss, Example phrase/ sentence using the word (Phrase L1 will contain the phrase written in the village language and Phrase L2 will have an English version of the phrase/ sentence).

It now seems like a good idea to have a check-box in the Split File dialog box asking if Phrase files should be saved or not.

Also, the Filename generation process should allow for no Ref data, and thus just use Gloss for the filename.

~~Would you rename the File menu item from "Split ..." to "Split Files ..." ?~~

~~Maybe I misunderstand the items, but in the Split File dialog, it seems to me that the "Audio Folder Name" should be just "Split" And the "Audio Folder Location" should be "C:\Users\Terry\Documents\Speech Analyzer\"~~

~~Since it's possible for users to have multiple source files in one folder~~

~~(e.g. Thai), Then when a second wave file set is made the Split folder will have two different set of files, To disambiguate this, I suggest that the Split folder itself be named Split+<hyphen>+name\_of\_the\_wavefile.~~

Then within that folder there needs to be two sub-folders, one labeled

Phrases and one labeled Words.

For now, these folder names and location can continue to be fixed and not user changeable.

I've noticed a problem with working with a split file.

SA is designed such that when a wave file is opened then the Begin and End cursors are intentionally set slightly inset from the ends so that a user

can see them and click on them.

Currently when I open a newly written split file, since the Gloss is the entire width of the recording, the cursors are just at the window edge and not visible, but the real problem is that even if I get to them (i.e. by doing a left or right mouse click) then I cannot edit the size of the gloss

(e.g. I want it to be slightly smaller), because I am not able to click in Phonetic and grab a cursor to do this resizing, since the cursors are out of view. I don't yet know how to solve this problem. My current thought is to pad the ends of the file with two hundred milliseconds of silence so that there is place to locate the cursors.

From what I just wrote:

> 1. Split File needs to support saving both the Phrase and Word.

My idea for the UI is this:

I’m also suggesting some name changes and repositioning of some items.

The reason having an option for Word and Phrase is the user may have a simple word list of only words or they may have a complex word list with phrase level items in the word. If an item is not checked then the field should be blank, if checked then SA provide the name (for now).

The reason for the verboseness of the Phrase and Word filenames is that when they are imported into FLEx, all data is put into one folder on a project basis, so we need to be clear as to the difference between an audio file of a single word and one that has phrase level data.

## December 23, 2011

Kent,

***1) Could you please supply a sample file with phrase-level data?***

The Phrase Level data is marking of the entire event of one item in a word list.

We currently need to support two levels: L1 & L2

Their usage is:

L1: \xv example sentence-vernacular

L2: \xe example sentence-English

During Export, we can use these SFM markers as the default ones for Phrase Level data.

I've attached a list of common SFM markers.

The purpose of Phrase Level is to identify each event in a word list and mark it.

There may be no information entered into the Transcription Bar, but if there is, L1 is the place to put a vernacular (local village language) transcription of what is said. Since many times there is no way to write the vernacular language on day one, the IPA is used to transcribe the audio. Since L2 is the English version, then the data will be in English. It's possible for L1 to be blank and L2 to be filled (with something).

From a previous set of comments a 'typical' event for one word in a word list might be this as entered in L2:

Number One - Sun (spoken in English) - Sun (spoken in the National language -

i.e.Thai) - Sun (spoken three times, for clarity, spoken in the vernacular village language - i.e. Shan) - The sun is bright (spoken in the vernacular village language to give an example of the word being used in a phrase or sentence).

The reason the survey person (linguist) first says Number One and Sun in English is because they are native English speakers or the person who will work with the data needs to understand what the event is and English is expected to be understood by any linguist, so the survey person speaks in English so 'everyone' can understand what event this is in the word list.

Next the survey person says the English work in a language that they also know, but the village person also knows since the village person does not know English.

Next the village person responds by speaking the work in the village language three times and then using it in a phrase.

I’ve attached a simple version using Phrase List data.

***2) How would you want the phrase level files to be named? Just use the phrase label, and following the same rules for gloss/ref naming?***

I suggest that you post append to each filename the characters “ – word” or “ – phrase”, so that the filename of Ref+Gloss are not confused when all filename are stored in a single folder (thus all filename need to be unique).

***3) I'm currently retrieving a copy of Flex to play with.***

Flex is a large complex to use program. I am expecting you and I to need to fine tune the Import of SA data when SA is able to support the things FLEx needs. IF you want to look at FLEx, then get the most recent version here:

<http://fieldworks.sil.org/download> and select “7.0.6 SE Minimal (90 MB)”. You do not need version 6. If you installed it, then uninstall it. You also do not SQL Server with version 7; it is HTML based.

ATTACHMENTS

SFM\_Markers.txt

1234-Full-PL.zip

Terry

## December 23, 2011

Kent,

Phrase Level was an idea to allow SA to mark any region without restriction as to it's location or size, then we added 4 separate bars to allow different mark-ups. The use of Phrase Level for phonetic analysis use is a reuse of the original music idea.

The default size of Phrase Level is 100ms. It's just a way to mark the Begin location and then allow the user to place the End anywhere to the right of that, and then the user needs to click Edit/ Transcription/ Add Phrase Lx Segment.

I suggest you look at the "Kayan Example" email I sent on Nov 3.

This covers most of the basics of what is needed for Phrase Level data support.

The work flow process described there in is based on a manual markup using a word by word process.

Auto Parse will make this markup much easier to do.

I've attached a file that shows the correct result of using Auto Parse (all

Transcription Bar items are the same length).

You can delete all of the parse items by selecting and deleting each of the Phonetic items.

If you use 500, then Auto Parse will reproduce this correct results.

If you use the default of 25, then you'll get a close Auto Word analysis; if you use 60 it will be completely accurate.

ATTACHMENTS

[001 One One One ThisisOne with PL.zip](https://webmail.integra.net/src/download.php?startMessage=1&passed_id=11801&mailbox=INBOX&ent_id=2&passed_ent_id=0)

Terry

## December 24th, 2011

Kent,

In my message below, I wrote:

The use of IF was a typo, I held down the shift key too long.

I did not intent to say “... well IF you really want to, then ...”, sorry.

What I intent to mean to say was ... since you want to look at FLEx, then get the latest version (since it’s very different from v6).

Merry Christmas and Happy New Year,

Terry

# Ellipsis Space

Kent,

Would you remove the space between Split File and the ellipsis?

Thanks,

Terry

# Feature Auto Parse/Auto Segment

Currently Auto Parse finds Word level or Phrase level items (depending on what value is used in "Min Break Width"). The result is SA sets the boundaries in the Gloss, Phonetic and Reference transcription bars. Would you also set the boundaries in the Phrase Level 1-4 Segments to match the

Gloss boundaries?

~~In the main menu, would you rename:~~

~~Tools/ Experimental Features to Tools/ Automatic Markup~~

~~and then rename:~~

~~Auto Segment to Locate Phonetic Segments~~

~~Auto Parse to Locate Words or Phrases~~

~~Auto Align to Align Transcription Data~~

~~In the "Transcription Alignment Wizard" dialog box, would you change the caption to just "Transcription Alignment".~~

~~------------------------------------------------------------------------~~

~~11/30/2011~~

~~You’re right. After thinking about this, my idea is too complex, and after talking to a linguist here...the idea is to just rename the Apply button to Preview.~~

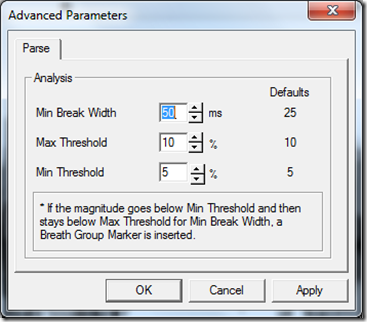
~~This gives the impression to the user of 'look at' or 'test' an idea.~~

~~It’s more common here to think of Apply as actually making the change, and exiting the dialog box (the same as OK).~~

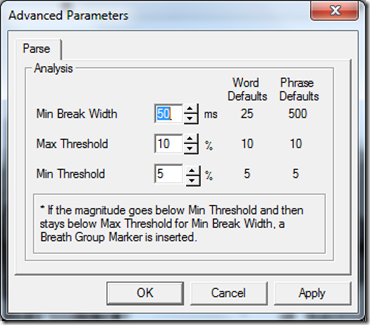
~~So now my Undo button is not needed, since making repeated changes to the settings and pressing Preview will refresh the display.~~

~~Also, some text needs to be added to the Word/ Phrase dialog box so as to distinguish between the two functions...~~

~~Would you change this:~~

~~~~

~~to this to help users:~~

~~~~

-------------------------------------------------------------

~~I’ve found that when using Auto Segment or Auto Parse, there is usually some part of the waveform that is either 'out of view' or 'not zoomed in enough' to tell if the result is what I need. Would you change these two dialog boxes to Modeless so I can 'navigate' around in the Waveform to see if I in fact I have an optimum result?~~

~~Comment on your file "SA MSEA Release Notes.txt":~~

~~These are very helpful so I can see what’s new and keep track of what has been done, thanks.~~

~~However would you invert the list so that the most recent work is at the top and 3.0.1.2 at the bottom of the list?~~

~~Also, your recent notes "SA 3.0.1.8 - 11/30/2011" should be for “SA 3.0.1.9~~

~~You may already know all of this, but for some info:~~

[~~http://msdn.microsoft.com/en-us/library/windows/desktop/ms644996~~](http://msdn.microsoft.com/en-us/library/windows/desktop/ms644996)~~(v=vs.85).aspx#modeless\_box~~

# Feature: SFM Import

?

# Feature: Find and Replace

There is a problem with how the “Edit/ Replace...” feature works.

If I set the “Search In:” to be “Phonetic”, and if I put a letter (e.g.

“t”) in “Find What:” and put a letter (e.g. “d”) in “Replace With:” and then press “Find Next” the Search function correctly finds the next Phonetic segment that has a “t” somewhere in the transcription, but pressing the

“Replace” button replaces the entire Phonetic word with the singe letter and not just replace every “t” with an “x”. This is true for all transcription lines.

Would you revise the way this works so that only the specific matched letters within the Find will be replaced (i.e. finding “t” in “hit” will changed to “hid” and not “t”.

There seems to be an inconsistent problem in which if SA starts the Find in the middle of a series of marked segments, then at the end of the file, SA may not correctly go to the beginning of the file to continue the search; thus not completing a Replace request for all segments.

-----------------------------------------------------------------------

When you do the Find and Replace work that I recently talked about, would you also make these two small changes:

1. Currently the Reference item is out of order; being placed between Gloss and Phrase L1.

Would you put it in the correct order at the top of the list above Phonetic.

1. When the drop down arrow is selected would you expand the list so that all items show.

-----------------------------------------------------------------------

There is a second change that needs to be done to Find & Replace.

This is needed to help users who are using Phonology Assistant.

Currently PA allows users to search and sort data, to assist in the analysis of Phonetic data, but by design PA does not make changes to the data. Therefore SA need to be able to make changes to the data based on information learned by using PA.

The current Replace function is ‘simple’ in that it does a one for one replacement (that is after you make the change that allows a single letter to be replaced in a word e.g. bat --> cat). What is needed is a Replace that is context sensitive. There are two levels of complexity, for now we will use the ‘simple complexity’ concept later on we may need to use ‘complex complexity’ concept (how’s that for grammatical miss-use).

The dialog box needs to have a place to let the user ‘built’ a ‘simple’ environment in which to do the Find/ Replace. If this is left blank then all of the Find items will be replaced regardless of it’s environment.

The environment consists of ‘limiting’ the places where the Replace is done. Thus the matching of the Find needs to be sensitive to it’s neighbors.

For example:

Find: a

Replace: e

Data: bit bat but bay

Results: bit bet but bey

But if there is an ‘environmental’ constraint like: “Only do the Replace if the letter after the Find is a ‘t’ ”.

New Results: bit bet but bay

The way this kind of rule is written in Phonology is: a –> e / \_\_t

That means “Change all ‘a’ to ‘e’ IN THE ENVIROMENT OF ’a’ preceeding ‘t’

There is a special character known as Word Boundary and is the pound symbol

‘ # ‘

Thus this Rule: a –> e / \_\_#

Means “Change ‘a’ to ‘e’ IN THE ENVIROMENT OF ‘a’ is at the End of a word.

Thus this Rule: a –> e / #\_\_

Means “Change ‘a’ to ‘e’ IN THE ENVIROMENT OF ‘a’ is at the Beginning of a word.

Thus this Rule: a –> e / #\_\_t

Means “Change ‘a’ to ‘e’ IN THE ENVIROMENT OF ‘a’ is at the Beginning of a word AND preceding a ‘t’

For the new dialog box the Rule: edit control can be pre filled with the text of Find, the arrow –>, the text of Replace, the Environment marker / , and then let people enter what they want which will be one or two letters or the change in a pitch number. You could prefill the two underscore characters and place cursor AFTER them (since it is common to look for FIND and then care about the item that FOLLOW it, thus the most likely thing a user will want to add is a character after the \_\_

There are three common things a user might put in the environment (things to the right of / )

Word Boundary: #

Any Consonant: C

Any Vowel: V

So things like this are common:

ɜ –> ə / \_\_ C#

ɜ –> ə / #C \_\_

ɜ –> ə / \_\_ VC

The values of V are found on the Find and Replace dialog box IPA Chart, Vowels tab.

The values of C are found on the Find and Replace dialog box IPA Chart, Consonants tab and Diacritics tab.

I assume the SA source code for the IPA Chart has either the characters or their code points.

So a common thing might be:

t –> tʰ / #s\_\_

Data: start

Result: stʰart

I think what is needed in order to do the search is:

1) If the environment is “# \_\_” then find all of the word initial words that have the Find item

2) If the environment is “\_\_ #” then find all of the word final words that have the Find item

3) If the environment is “some consonant \_\_ some vowel” then find all of the words that have the string “some consonant+Find+some vowel” (i.e. Find: ‘e’ in the environment of ‘s \_\_ a’ then look through the words and find

‘...sea...’; seat, unseat, research,...)

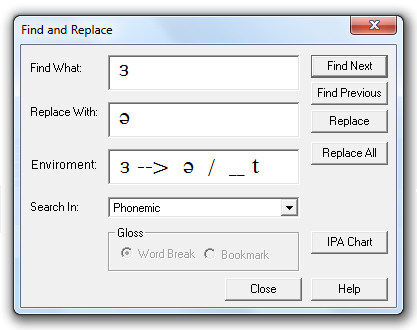
4) if the environment uses C or V then build a list of words that consists of the Find item with all of the C’s from the Consonants and Diacritics chart or all of the V’s from the Vowel chart. Then look for that string in the words.

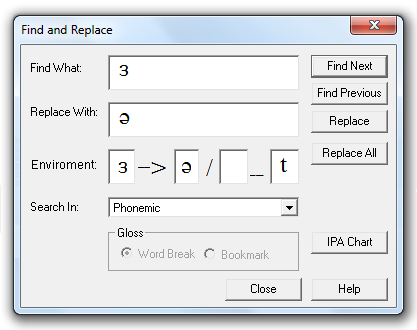
BTW, another idea I have is, if you want to protect the environment string, then you might build the text control like this:

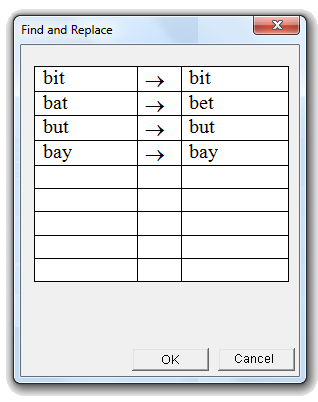
or maybe best is like this:

If you have any questions, then let me know.

It would be fine to implement the Environment field in one version of SA, and put the C and V support in a second version of SA.







The use of SA directly with PA has over taken the idea of SA putting data into FLEx for the moment, although that will need to be done after the user finishes the SA/PA analysis work.

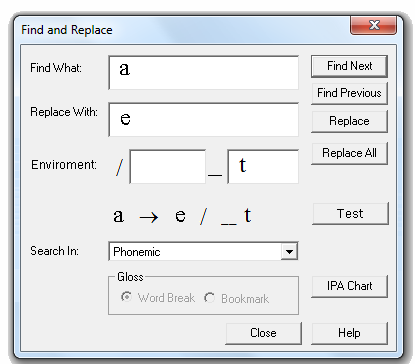
After doing the work to provide support for Environmental Find and Replace, and after C and V are supported, then the following is needed to confirm that what the user is thinking will happen.

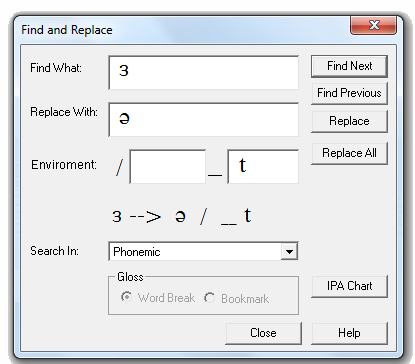
That is the dialog box needs a new button for “Test”:

The result of pressing the “Test” button is to show the user what would happen if they used the current Environment based Find and Replace:

Pressing Ok would make the changes and close both dialog boxes.

Pressing Cancel would close this dialog box and enable the user to build a new environment.





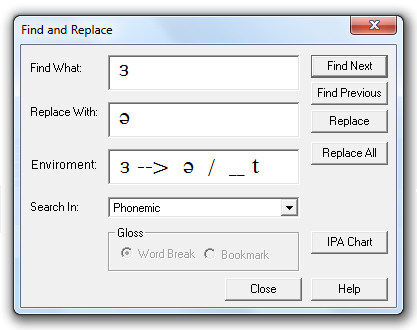
-----------------------------------------------------------------------

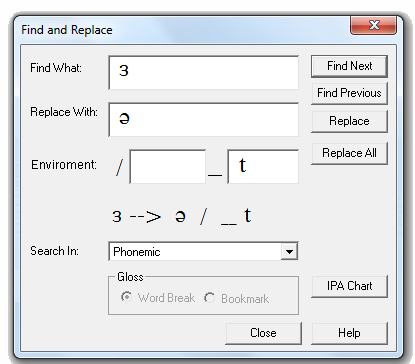
11/30/2011

I want to amend the work below when you get to it to not do the C & V work yet, but do all other things listed there including supporting the Word Boundary: # symbol, and any IPA symbol.

I’m concerned that the CV work and it’s testing will take too long to do, since the Split File work is more important than improving the Phonology Find & Replace function.

Also, I’m not sure the “Find Previous” button is needed, if the search is done from the beginning to the end. So I think just remove it from the dialog.





# ~~BUG: Increase Titlebar text size~~

~~The point size of text in the Title bar of each mini-cap window is very small and hard to read.~~

~~Would you increase the point size to nearly fill the bar height?~~

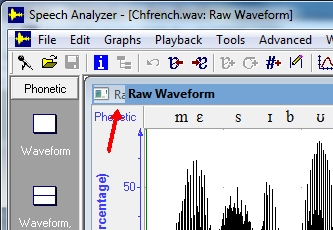
# ~~BUG: Text Overlap~~

~~Select Tools/ Options...~~

~~In the Graphs wireframe and in the Title bar option, if you select “Large bar with Caption”, then note the hidden text behind the~~

~~Title; see attached.~~

~~The bug is in the mini-cap base class since it effects all mini-cap windows.~~



# ~~FEATURE: Cursor Selection~~

~~Would you change the SA code so that on File open, locate the End cursor very near, just a pixel or so to the right of, the Begin cursor?~~

~~This will do two things:~~

~~1) When a user clicks in the client area for the first time, and thus positions the Begin cursor, then the End cursor will be right there just to the right of the Begin cursor and thus easy to re-position.~~

~~2) Currently when a file is first opened, and Zoom is used to begin analysis work, then the file is zoomed into the center of the recording. However it is much more normal to work at the beginning of a file, and not in the middle, so the user currently has to Pan far left to get to the beginning of the file. With this new default location of the End cursor at the far left, a Zoom in will result in the file expanding to the left; thus letting the user immediately see, and work on, the beginning of the file.~~

# FEATURE: Transcription Setup

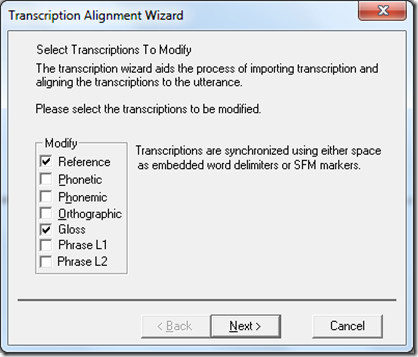
November 4,2011

To help users quickly set up the Ref and Gloss transcription bars, it would be helpful for SA to fill these bars with information from the MSEA wordlist.

SA currently has Tools/ Experimental Features\ Auto Align, but some changes need to be made.

The dialog box currently has the option of filling the Phonetic, Phonemic and Orthographic.

Ref, Gloss, Phrase L1 and Phrase L2 need to be added to the list:



I've revised the text to the right of Modify.

Currently both Text and SFM import routines use <space> to delimit one item from the next, but this will not work for Gloss since there can be multiple words for a single Gloss (e.g. "to split w/a knife", or "to be short (length)").

So the current import routine needs to be changed from expecting SFM data to

be structured like this:

\ref 1 2 3 4 5

\gl sky sun moon star cloud

to using data structured like:

\ref 1

\gl sky

\ref 2

\gl sun

\ref 3

\gl moon

\ref 4

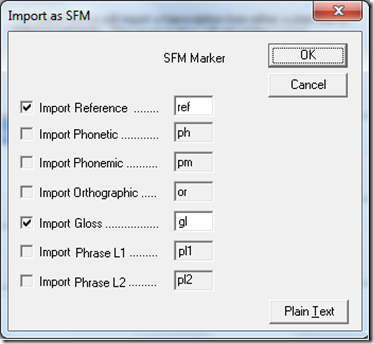
\gl star

\ref 5

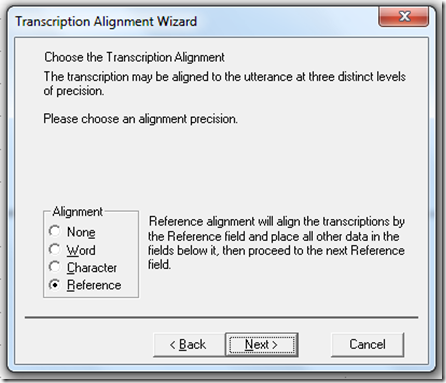
\gl cloud

Note that an Import may contain all 7 fields being filled. If there is a marker, but there is no data after the marker, then skip that marker; that is don't put blank in SA, since it may corrupt that entry (I guess you can test this).

The next dialog needs to be revised to:



Then the alignment method needs to include Reference as the primary method.



On the next screen we want to use the Keep method so as to preserve what the user has already done.

Let's see if this works.

You can record your production of 1,2,3,4,5 and then try to Auto Align my new SFM data structure above.

# FEATURE: Word List : Kayan Example

I talked with Ken today regarding the exact process a user would go through when entering word list data (entering story data will be a future task for me to figure out).

The steps are:

* Researcher goes to a remote village.
* They find a native speaker of the local language.
* The Researcher explains what they want record some words.
* Audio recording is done on a hand-held digital recorder.
* The Researcher speaks the word list number and the word in the national language.
* The native speaker says the word three times in the local language.
* The Researcher later transcribes the local language into IPA in a notebook.

At some later time the Researcher would use SA and open the audio file.

The first step is to mark the location of each phrase.

{ In the supplied sample I've marked 3 phrases. }

The next step is starting at the beginning of the file, and enter the IPA for the Phrase in L1, and Gloss of the Phrase in L2.

The next step is to start at the beginning and mark the location of the best production of the single word.

{ e.g. I've marked the first word in word list item number three }

The next step is that the Researcher will use the Split file feature in SA.

Here are the details of what SA needs to do:

When the Researcher does the first pass through the file, all transcription fields will be the same width, as you can see in the word list item #1, the

Ref, Phonetic, Gloss, L1 and L2 are all the same.

When the Researcher does the second pass through the file the Ref, Phonetic,

Gloss transcription fields are changed to mark the best production of a single native word, as you can see in the word list item #2.

During the first pass, the Researcher places the cursors around the production of the first item in the word list. This is a phrase level marking, it includes everything that is related to Word #1 in the word list

(i.e. Ref, Gloss, National Gloss, native word, native word, native word, optional sentence showing usage of the word).

The steps that a Researcher needs to take to mark these levels are:

Position the cursors around the phrase data, and

. Select Edit/ Transcription/ Add Phonetic Segment

. Select Edit/ Transcription/ Add Gloss Word Segment

(note: Ref is a side effect of Add Gloss Word)

. Select Edit/ Transcription/ Add Phrase L1 Segment

. Select Edit/ Transcription/ Add Phrase L2 Segment

This is way too tedious, so I suggest you add an item to right-mouse click pop dialog box called "Mark Split File segment".

Next the Researcher needs to:

* Go to the beginning of the file,
* Select Edit/ Segment Boundaries
* Select the first Phrase Level segment by clicking it's "?" and click
* Playback/ Between Cursors
* After they determine the best production of one of the local language 3
* single words,
* Select the Phonetic Segment "?" and click on the Begin cursor and align it to the left edge of that word and, click on the End cursor and position it at the end of that word.
* Then the Researcher enters the IPA for that word

{ There is a faster way to do this using the Transcription Editor, but I want to get SA to work this way first, before we deal with changes needed in the Transcription Editor }

The last step is to use File/ Split File.

Changes that need to be made in SA:

1. It's obvious that Ken is now talking about both Word level markup and a new Phrase level markup.

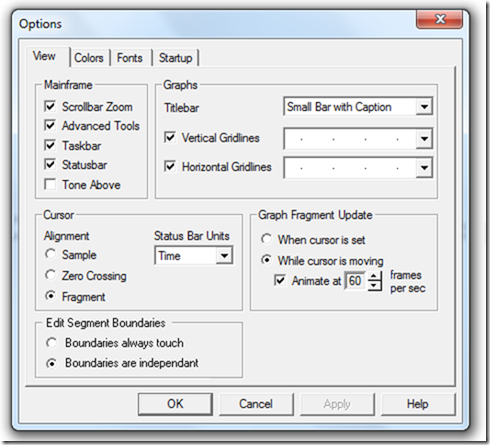
The reason for the two markups is first "preserve the complete recording event for each word" and second "satisfy the need for hearing the playback of a single word example". The FLEx program is basically a big dictionary building program. Thus in a electronic dictionary you have an example for the word itself and then maybe an example of it's usage in a sentence. The Researcher may not record an example sentence, but they do get things that are part of the process of getting the word itself. Thus there are two links in FLEx, one for audio for the single word and one for the example sentence.

The two files now need two names, so I suggest that SA use the Ref+Gloss for the single word as we have discussed, and by default (not user changeable at this time) call the other file Ref+Gloss -Phrase (that is "001 Sun-Phrase.wav").

1. SA has two different systems for handling Segment Boundary: "Touching Segments" and "Non-Touching Segments".

In the attached "Saung Du La" recording, click the Edit Boundaries button, click the "?" in Phonetic for Word #2, now left-mouse click the end cursor, don't move your hand, but notice on the mouse down, that the Phonetic for Word #1 and #3 both jump towards #2, that because I created Segment Boundaries that are not touching, and if a user were edit these they would re-align to "Touching" which don't want. The way to move Segment Boundaries and not effect neighboring Boundaries is to have the Edit Boundaries button not selected and hold down the Ctrl-Shift keys and left mouse click a Boundary and move it. The "Touching Segments" sequence is Ctrl-Alt.

The default is "Touching Segments", but this will not work for the Split File feature, so a new feature needs to be added to SA so that "Touching Segments" and "Non-Touching Segments" are a toggle and thus become selectable by a user. My idea is to add this capability on the View tab in Tools/ Options. Once this is selected, then a user can click the Edit Boundaries button and not need to use the Keyboard sequence.



3) There needs to be a way to easily Import the numbers and Gloss words from a blank Word List.

I'll talk about this in a future email.

# ~~Unhiding Experimental Features~~

~~For now you need to hold down the Ctrl key and click Tools and Experimental Features. I suggest you un-hide this feature.~~

# ~~FEATURE: Display F4 and above~~

~~In the Spectrogram / Parameters dialog box and in the Frame "Formant Tracks", the older versions of SA prior to SA 3, had a check box for "F5 and above".~~

~~Would you add that functionality to the current F4 check box so that F4 and above will be shown?~~

# ~~FEATURE: Automatic Markup~~

~~I now think the caution dialog boxes are not needed since there is both a~~

~~Cancel button in the Parameters dialog, and there is the Undo function in SA that has an almost unlimited ability to restore a particular state. So for now would you skip both of these caution dialogs?~~

~~Would you rename "Align Transcription Data..." to just "Align Transcription Data" without the ellipsis?~~

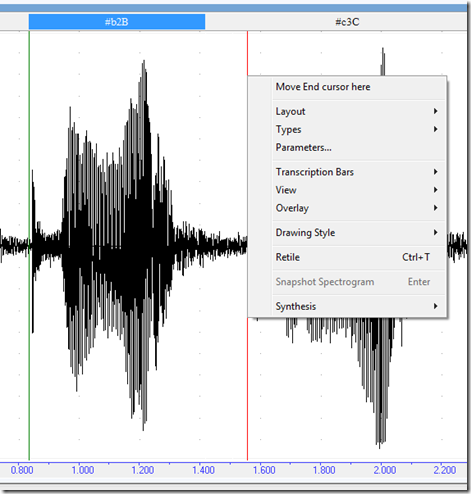
~~In both of the parameter dialog boxes, would you rename the Apply button to Test, then after the Test button is pressed, rename the button to Undo (which is the menu item File/ Undo), then if Undo is pressed, or any parameter is changed, then change the name back to Test?~~

# ~~BUG: Move Cursor Here~~

~~There is a procedural step that is not being done when the right-mouse selection of “Move End cursor here” is done.~~

~~Normally when a transcription region is selected, then if the Begin cursor is moved, or if the End cursor is moved, then the region is de-selected.~~

~~However if the “Move End cursor here” item is used, then this de-selection event does not occur.~~

~~~~

# Feature: Copy Phonetic to Phonemic

~~After you finish your current work on the new ‘save’ feature and send me that version, would you do the following before continuing the Split File?~~

~~Would you add a new feature in main menu in Edit\ Transcription called “Copy Phonetic to Phonemic”. Place it at the bottom of the list below “Update All Boundaries”.~~

~~Selecting this feature would copy the data from each Phonetic Segment to the~~ ~~companion Phonemic Segment for the entire file.~~ An enhancement to this would be to only do this copy function for the data between the cursors; but that can wait until a later when there is more time.

~~When this new feature is selected, then a dialog box should be shown first that warns the user that this process will delete all existing Phonemic data.~~

~~When you do this New Feature work of “Copy Phonetic to Phonemic”, at the end of the process the last thing to do is show the Phonemic transcription bar if it is not currently showing.~~

# ~~BUG: Copy Phonetic~~

~~When using the new "Copy Phonetic to Phonemic", if the Phonemic transcription bar is already showing, then SA closes it, so SA needs to check it's status first.~~

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| [SPA-481] [Cannot open 24-bit WAV files](https://www.jira.insitehome.org/browse/SPA-481) Created: 15/Aug/11  Updated: 15/Aug/11 | |
| **Status:** | Open |
| **Project:** | [Speech Analyzer](https://www.jira.insitehome.org/secure/BrowseProject.jspa?id=10101) |
| **Component/s:** | [Player](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&component=10388) |
| **Affects Version/s:** | [3.0.1](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&version=10894) |
| **Fix Version/s:** | None |

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| **Type:** | Bug | **Priority:** | Critical |
| **Reporter:** | [John Wickberg](https://www.jira.insitehome.org/secure/ViewProfile.jspa?name=john_wickberg) | **Assignee:** | Unassigned |
| **Resolution:** | Unresolved | **Votes:** | 0 |
| **Labels:** | None | | |
| **Remaining Estimate:** | Not Specified | | |
| **Time Spent:** | Not Specified | | |
| **Original Estimate:** | Not Specified | | |
| **Environment:** | Reported by Mike Cahill | | |

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| **Description** |  |

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| Many current recorders create 24-bit WAV files and these can't be opened directly in SA.   Since Windows Media Player is used to do the conversion of sound files that aren't 16-bit or 8-bit WAV files, the problem may with WMP. |

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| [SPA-474] [Settings files not getting written](https://www.jira.insitehome.org/browse/SPA-474) Created: 11/Jun/10  Updated: 11/Jun/10 | |
| **Status:** | Open |
| **Project:** | [Speech Analyzer](https://www.jira.insitehome.org/secure/BrowseProject.jspa?id=10101) |
| **Component/s:** | [Graphs - Parameters](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&component=10391) |
| **Affects Version/s:** | [3.0.1](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&version=10894) |
| **Fix Version/s:** | None |

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| **Type:** | Bug | **Priority:** | Critical |
| **Reporter:** | [Steve White](https://www.jira.insitehome.org/secure/ViewProfile.jspa?name=steven_white) | **Assignee:** | Unassigned |
| **Resolution:** | Unresolved | **Votes:** | 0 |
| **Labels:** | None | | |
| **Remaining Estimate:** | Not Specified | | |
| **Time Spent:** | Not Specified | | |
| **Original Estimate:** | Not Specified | | |
| **Environment:** | Windows 7 Starter, WIndows XP | | |

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| **Description** |  |

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| A user finds that the custom graph types cannot be saved, he also cannot get rid of the initial warning message about XML files. The program is not writing .psa files in the <My Documents>\Speech Analyzer folder and he has permissions to write to that folder.   "I am not found the file [g-speech.psa] in the Libraries\Documents\Speech Analyzer in Windows 7 and in C:\Documents and Settings\1\My docs\Speech Analyzer in Win XP Sp3. And any \*.psa file in all comp (I have seached in hiden system files too). I have permission to write (as Administrator). Our soft: SA 3.0.1 Win XP Pro SP3 and Win 7 Startup"  Bert Jickty <[bertjickty@gmail.com](mailto:bertjickty@gmail.com)>  Initial request: From: Bert Jickty [mailto:[bertjickty@yandex.ru](mailto:bertjickty@yandex.ru)]   Hello from Siberia! I am engineer at the Yakutian State University. And I have problem with Speech Analyzer. It's not save custom configuration of Graphs and Layouts permamently by: Tools-Options-Startup-Permanently-Close. If i create new configuration (F7) and save and reload SA, default graphs configurations only is appear. And secondly: how disappear startup message about .saxml files? Our soft: SA 3.0.1 Win XP Pro SP3 and Win 7 Startup" |

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| [SPA-473] [Unaable to install SA on Windows 7 - 64-bit](https://www.jira.insitehome.org/browse/SPA-473) Created: 09/Mar/10  Updated: 09/Mar/10 | |
| **Status:** | Open |
| **Project:** | [Speech Analyzer](https://www.jira.insitehome.org/secure/BrowseProject.jspa?id=10101) |
| **Component/s:** | None |
| **Affects Version/s:** | [3.0.1](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&version=10894) |
| **Fix Version/s:** | [Postponed - Next Steps](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&fixfor=10661) |

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| **Type:** | Bug | **Priority:** | Critical |
| **Reporter:** | [John Wickberg](https://www.jira.insitehome.org/secure/ViewProfile.jspa?name=john_wickberg) | **Assignee:** | Unassigned |
| **Resolution:** | Unresolved | **Votes:** | 0 |
| **Labels:** | None | | |
| **Remaining Estimate:** | Not Specified | | |
| **Time Spent:** | Not Specified | | |
| **Original Estimate:** | Not Specified | | |
| **Environment:** | Reported by "Konstantinos Avdelidis" <[avdel@auth.gr](mailto:avdel@auth.gr)> | | |

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| **Description** |  |

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| Dear madam/sir,   Well I finally managed to workaround the error described in my previous e-mail and install the Speech Analyzer 3.0.1 on my Windows 7 x64. However, I needed to hack the "Speech Analyser.msi" installation file (hope you don't mind).   The problem lied at the fact that for some reason (I don't have THAT deep knowledge of Windows Side-By-Side registration mechanism in Windows 7) the assembly "Microsoft.VC80.CRT" (and probably "Microsoft.VC80.MFC") for version 8.0.50727.42 failed to install. I tried to modify the files and manifests to version 8.0.50727.163 which was already installed in my system but the same error with the previous version number kept coming up. So I figured that somewhere in the MSI file the version was hardcoded.   Here is what I did. I used the Orca MSI Editor and modified the version of the relative items from 8.0.50727.42 to 8.0.50727.163 in the "MsiAssemblyName" table. This actually bypasses the erroneous installation procedure and permits the installation to complete since the new version was already in my system.   I do not know if support and development of Speech Analyser is still active, but the truth is that I haven't found any other tool that meets my demands so good. I wonder if you could inform whether there is any service release planned in the near future or the Speech Analyser development is RIP.   I should also remind of a past bug that I had reported to you consisting of an issue about the messed up non-ANSI folder names stored in the registry during setup.   Please do take some time to give me the above information.   Thank you in advance.   Konstantinos A. Avdelidis Electrical and Computer Engineer PhD Candidate, Dept. Computer & Electrical Engineering, Aristotle University of Thessaloniki |

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| [SPA-466] [Crash when opening a wave file transcribed in a previous version](https://www.jira.insitehome.org/browse/SPA-466) Created: 12/Feb/09  Updated: 12/Feb/09 | |
| **Status:** | Open |
| **Project:** | [Speech Analyzer](https://www.jira.insitehome.org/secure/BrowseProject.jspa?id=10101) |
| **Component/s:** | [Transcriptions](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&component=10300) |
| **Affects Version/s:** | [3.0.1](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&version=10894) |
| **Fix Version/s:** | [Postponed - Next Steps](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&fixfor=10661) |

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| **Type:** | Bug | **Priority:** | Critical |
| **Reporter:** | [Corey Wenger](https://www.jira.insitehome.org/secure/ViewProfile.jspa?name=corey_wenger) | **Assignee:** | Unassigned |
| **Resolution:** | Unresolved | **Votes:** | 0 |
| **Labels:** | None | | |
| **Remaining Estimate:** | Not Specified | | |
| **Time Spent:** | Not Specified | | |
| **Original Estimate:** | Not Specified | | |

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| **Attachments:** | Chinese.SA2.wav |

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| **Description** |  |

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| Right click Chinese.SA2.wav (attached). Click Open As and choose Speech Analyzer 3.0 (or later).  ERROR: SA crashes during startup. |

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| **Comments** |  |

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| Comment by [Corey Wenger](https://www.jira.insitehome.org/secure/ViewProfile.jspa?name=corey_wenger) [ 12/Feb/09 08:43 AM ] |
| The crash happens when Speech Analyzer tries to release the splash screen in CSaApp::InitInstance(). |

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| [SPA-462] [Problems with data location value on non-English windows](https://www.jira.insitehome.org/browse/SPA-462) Created: 02/Jul/08  Updated: 02/Jul/08 | |
| **Status:** | Open |
| **Project:** | [Speech Analyzer](https://www.jira.insitehome.org/secure/BrowseProject.jspa?id=10101) |
| **Component/s:** | [Tools Options](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&component=10389) |
| **Affects Version/s:** | [3.0.1](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&version=10894) |
| **Fix Version/s:** | [Postponed - Next Steps](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&fixfor=10661) |

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| **Type:** | Bug | **Priority:** | Critical |
| **Reporter:** | [Corey Wenger](https://www.jira.insitehome.org/secure/ViewProfile.jspa?name=corey_wenger) | **Assignee:** | Unassigned |
| **Resolution:** | Unresolved | **Votes:** | 0 |
| **Labels:** | None | | |
| **Remaining Estimate:** | Not Specified | | |
| **Time Spent:** | Not Specified | | |
| **Original Estimate:** | Not Specified | | |
| **Environment:** | Greek WinXP migrated to English WinXP | | |

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| **Description** |  |

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| SA cannot find data location to update settings in sa3.psa.   Also, the data location setting was not updated upon reinstall.   ----------------------------------------------------------------  E-mail from Konstantinos A. Avdelidis, 6/26/08...  Corey,   Thank you for the response,   However I managed to locate and solve the problem during the previous weekend and I was ment to report the fix to you. After discovering that the settings file was indeed the sa3.psa i noticed that it remained unchanged after the saving of settings. The HKEY\_CURRENT\_USER\Software\SIL\Speech Analyzer\DataLocation was also pointing to the right location. Everything seemed right.   -BUT-   Since I have a migrated winxp en setup from a winxp gr, my documents folder was named after "avdel - Έγγραφα" (greek chars). This produced a file access error in the Proccess Monitor, due to the fact that the folder name was not decoded correctly by SA, resulting in failing of save and load (obviously an encoding mismatch). I changed the my documents folder name in "avdel - My documents", uninstalled, installed the SA and the HKEY\_CURRENT\_USER\Software\SIL\Speech Analyzer\DataLocation was still pointing in the old location (no change after new install). After the manual change of the corresponding value in the registry, everything worked ok.   I tried to give a detailed description of the solution in order for you to be able to correct this behaviour in future versions or to provide help in similar conditions.   Thanks again for the prompt interest.   Konstantinos A. Avdelidis Electrical and Computer Engineer, AUTH PhD Candidate, Department of Electrical and Computer Engineering, AUTH     ----- Original Message -----  From: SA Error Reporting  To: Konstantinos Avdelidis  Sent: Wednesday, June 25, 2008 7:30 PM Subject: Re: Problem saving options   Dear Konstantinos,   You should be able to save the view settings, as you expect. Fonts, however, should be saved automatically, without clicking Permanently under Set default view template.   The fact that these two things do not work indicates a problem with the settings file. This is normally located under My Documents in a folder called Speech Analyzer. The name of the file is sa3.psa.    Please do the following: - Using Registry Editor, verify that the following registry value exists:  HKEY\_CURRENT\_USER\Software\SIL\Speech Analyzer\DataLocation          If it does not exist, create it.  - If this value exists verify that it is set to ...My Documents\Speech Analyzer. If it is not, set it.  - Verify that sa3.psa exists.   - If sa3.psa exists, check if it has the read-only attribute set. If it does, clear this attribute.  - If sa3.psa exists, do the following  1. Start Speech Analyzer.  2. In the Options dialog box, change one of the fonts as you attempted to do before.  3. Exit Speech Analyzer.  4. Verify the file date on sa3.psa.     This assumes you are using Windows 2000 or XP. Folder names will differ slightly on Windows Vista.   Let me know if the problem persists.   Best Regards,   Corey Wenger JAARS Software Development Waxhaw, NC USA ----- Original Message -----  From: Konstantinos Avdelidis  To: [SaErrors@sil.org](mailto:SaErrors@sil.org)  Sent: Sunday, June 15, 2008 10:27 AM Subject: Problem saving options   Dear Sir/Madam,   I would like to ask a question regarding an unexplenable reaction of the Options\Startup\Permanently action. Do the options related to fonts, transcription bar appearance on selected graphs and graphs titlebar are supposed to be saved when "Set default view template" is pressed on "Permanently"? The thing is that I would like to use a specific (rather irregular) view every time I open the SA and it just refuses to store the custom view related data. Do I have to re-adjust the view setup every time I run the application or is some kind of a bug?   Thanks in advance.   PS: I also had a look under the "SOFTWARE\SIL\Speech Analyzer\Settings" registry keys and no values are stored in there under any of the root keys. Note also that I execute the program with an account with admimistrative rights.   Konstantinos A. Avdelidis Electrical and Computer Engineer, AUTH PhD Candidate, Department of Electrical and Computer Engineering, AUTH |

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| **Comments** |  |

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| Comment by [Corey Wenger](https://www.jira.insitehome.org/secure/ViewProfile.jspa?name=corey_wenger) [ 02/Jul/08 10:37 AM ] |
| This is probably due to non-ASCII characters in the My Documents pathname.  There may be a non-Unicode string or function call in this code. |

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| [SPA-460] [Korean XPP - SA can't open wav file located in a desktop folder](https://www.jira.insitehome.org/browse/SPA-460) Created: 24/Apr/08  Updated: 24/Feb/09 | |
| **Status:** | Open |
| **Project:** | [Speech Analyzer](https://www.jira.insitehome.org/secure/BrowseProject.jspa?id=10101) |
| **Component/s:** | None |
| **Affects Version/s:** | [3.0.1](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&version=10894) |
| **Fix Version/s:** | [Postponed - Next Steps](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&fixfor=10661) |

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| **Type:** | Bug | **Priority:** | Critical |
| **Reporter:** | [Todd Jones](https://www.jira.insitehome.org/secure/ViewProfile.jspa?name=todd_jones) | **Assignee:** | Unassigned |
| **Resolution:** | Unresolved | **Votes:** | 0 |
| **Labels:** | None | | |
| **Remaining Estimate:** | Not Specified | | |
| **Time Spent:** | Not Specified | | |
| **Original Estimate:** | Not Specified | | |
| **Environment:** | Korean XPP SP2 SA 3.0.1 PA 3.0.1 RC 11 | | |

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| **Attachments:** | Apr. 25 # 10.06.25 AM.jpg     SA not open wav file.jpg |

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| **Description** |  |

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| A most curious thing...  SA 3.0.1 complains and gives an error msg (see attached print screen) when the user edits a Data Corpus record from a wav file located in a desktop folder. The desktop name has korean characters and SA doesn't like that. When you try to edit the save wav file but it's in a My Documents folder, everything works.  I also opened SA independently of PA and then successfully opened a wav file on the desktop??? Possible the file name hand-off from PA to SA isn't using the same code that SA uses for normally opening files? |

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| Comment by [Todd Jones](https://www.jira.insitehome.org/secure/ViewProfile.jspa?name=todd_jones) [ 24/Apr/08 05:16 PM ] |
| Another curious thing... everything works fine in Korean VistaBus |
| Comment by [Todd Jones](https://www.jira.insitehome.org/secure/ViewProfile.jspa?name=todd_jones) [ 25/Apr/08 10:08 AM ] |
| This also happens in Simplified Chinese XPP. See attached screen shot. |

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| [SPA-458] [Relocate ReadMe file outside .msi file](https://www.jira.insitehome.org/browse/SPA-458) Created: 06/Feb/08  Updated: 06/Feb/08 | |
| **Status:** | Open |
| **Project:** | [Speech Analyzer](https://www.jira.insitehome.org/secure/BrowseProject.jspa?id=10101) |
| **Component/s:** | None |
| **Affects Version/s:** | [3.0.1](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&version=10894) |
| **Fix Version/s:** | [Postponed - Next Steps](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&fixfor=10661) |

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| **Type:** | | Task | **Priority:** | Critical | |
| **Reporter:** | | [Corey Wenger](https://www.jira.insitehome.org/secure/ViewProfile.jspa?name=corey_wenger) | **Assignee:** | Unassigned | |
| **Resolution:** | | Unresolved | **Votes:** | 0 | |
| **Labels:** | | None | | | |
| **Remaining Estimate:** | | Not Specified | | | |
| **Time Spent:** | | Not Specified | | | |
| **Original Estimate:** | | Not Specified | | | |
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| [SPA-454] [Lines left on graphs (painting problem)](https://www.jira.insitehome.org/browse/SPA-454) Created: 12/Dec/07  Updated: 18/Nov/08 | |
| **Status:** | Open |
| **Project:** | [Speech Analyzer](https://www.jira.insitehome.org/secure/BrowseProject.jspa?id=10101) |
| **Component/s:** | None |
| **Affects Version/s:** | [3.0.1](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&version=10894) |
| **Fix Version/s:** | [Postponed - Next Steps](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&fixfor=10661) |

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| **Type:** | Bug | **Priority:** | Critical |
| **Reporter:** | [Corey Wenger](https://www.jira.insitehome.org/secure/ViewProfile.jspa?name=corey_wenger) | **Assignee:** | Unassigned |
| **Resolution:** | Unresolved | **Votes:** | 0 |
| **Labels:** | None | | |
| **Remaining Estimate:** | Not Specified | | |
| **Time Spent:** | Not Specified | | |
| **Original Estimate:** | Not Specified | | |

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| **Description** |  |

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| Open any file in Speech Analyzer. On the Help menu, click About Speech Analyzer. Click OK.  Error: thin lines remain showing the outline of the About box.  This happens if any non-maximized window is placed in front of SA. |

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| [SPA-450] [Cancelling an encoding conversion causes crash](https://www.jira.insitehome.org/browse/SPA-450) Created: 28/Nov/07  Updated: 28/Nov/07 | |
| **Status:** | Open |
| **Project:** | [Speech Analyzer](https://www.jira.insitehome.org/secure/BrowseProject.jspa?id=10101) |
| **Component/s:** | [Transcriptions](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&component=10300) |
| **Affects Version/s:** | None |
| **Fix Version/s:** | [Postponed - Next Steps](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&fixfor=10661) |

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| **Type:** | Bug | **Priority:** | Critical |
| **Reporter:** | [Corey Wenger](https://www.jira.insitehome.org/secure/ViewProfile.jspa?name=corey_wenger) | **Assignee:** | Unassigned |
| **Resolution:** | Unresolved | **Votes:** | 0 |
| **Labels:** | None | | |
| **Remaining Estimate:** | Not Specified | | |
| **Time Spent:** | Not Specified | | |
| **Original Estimate:** | Not Specified | | |

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| **Attachments:** | Error message.jpg |

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| **Description** |  |

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| From John Wickberg...  While doing some testing on how SA 3.0.1 updates the SA 2 .WAV files, I copied one of the sample .WAV files of Speech Tools to a temp folder and one of my tests updated the file. I wanted to get back to a known spot, so I deleted the .SAXML file and the changed .WAV file and then moved the original file back to the temp folder from the SA2 sub-folder and then deleted the sub-folder.  I then double-clicked the .WAV file to start SA and when the conversion dialog comes up, I cancel it and then get the following message:  (see attached image)  If I now open the file directly in SA, it seems to open fine and I can cancel the conversion dialog.  I copied a different sample file to my temp folder, removed the read-only flag and then tried double clicking it. I get the same message as above when I cancel the dialog.  So, it looks like SA doesn't like you to cancel that dialog when you did a double click on the file to start the program.  I don't think this is a show stopper, but thought it worth documenting.  John |

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| [SPA-447] [Changing graph parameters causes crash in maximized graph](https://www.jira.insitehome.org/browse/SPA-447) Created: 13/Nov/07  Updated: 13/Nov/07 | |
| **Status:** | Open |
| **Project:** | [Speech Analyzer](https://www.jira.insitehome.org/secure/BrowseProject.jspa?id=10101) |
| **Component/s:** | [Graph, Duration](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&component=10299), [Graphs - Parameters](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&component=10391) |
| **Affects Version/s:** | [2.7](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&version=10253) |
| **Fix Version/s:** | [Postponed - Next Steps](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&fixfor=10661) |

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| **Type:** | Bug | **Priority:** | Critical |
| **Reporter:** | [Corey Wenger](https://www.jira.insitehome.org/secure/ViewProfile.jspa?name=corey_wenger) | **Assignee:** | Unassigned |
| **Resolution:** | Unresolved | **Votes:** | 0 |
| **Labels:** | None | | |
| **Remaining Estimate:** | Not Specified | | |
| **Time Spent:** | Not Specified | | |
| **Original Estimate:** | Not Specified | | |

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| **Description** |  |

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| 1. Run SA 2. Open the Graph Types Custom dialog box. 3. Leave Raw Waveform and Auto Pitch checked. 4. Select Duration. 5. Click OK.    Raw Waveform, Duration and Auto Pitch graphs are now visible. 6. Maximize Auto Pitch graph. 7. Open the Graph Parameters dialog box. 8. Change Scaling to Linear. 9. Click OK. 10. If necessary, repeat steps 8-10 several times.  Error: SA crashes. |

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| [SPA-439] [Upgrade Development Platform](https://www.jira.insitehome.org/browse/SPA-439) Created: 30/Aug/07  Updated: 18/Nov/08 | |
| **Status:** | Open |
| **Project:** | [Speech Analyzer](https://www.jira.insitehome.org/secure/BrowseProject.jspa?id=10101) |
| **Component/s:** | None |
| **Affects Version/s:** | None |
| **Fix Version/s:** | [Postponed - Possible](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&fixfor=10836) |

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| **Type:** | Programmer Task | **Priority:** | Critical |
| **Reporter:** | [Corey Wenger](https://www.jira.insitehome.org/secure/ViewProfile.jspa?name=corey_wenger) | **Assignee:** | Unassigned |
| **Resolution:** | Unresolved | **Votes:** | 0 |
| **Labels:** | None | | |
| **Remaining Estimate:** | Not Specified | | |
| **Time Spent:** | Not Specified | | |
| **Original Estimate:** | Not Specified | | |

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| Evaluate Linux Port vs. current Visual Studio release. Move all code to new platform. |

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| [SPA-438] [Refactor SpeechToolsUtils](https://www.jira.insitehome.org/browse/SPA-438) Created: 30/Aug/07  Updated: 18/Nov/08 | |
| **Status:** | Open |
| **Project:** | [Speech Analyzer](https://www.jira.insitehome.org/secure/BrowseProject.jspa?id=10101) |
| **Component/s:** | None |
| **Affects Version/s:** | None |
| **Fix Version/s:** | [Postponed - Possible](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&fixfor=10836) |

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| **Type:** | Programmer Task | **Priority:** | Critical |
| **Reporter:** | [Corey Wenger](https://www.jira.insitehome.org/secure/ViewProfile.jspa?name=corey_wenger) | **Assignee:** | Unassigned |
| **Resolution:** | Unresolved | **Votes:** | 0 |
| **Labels:** | None | | |
| **Remaining Estimate:** | Not Specified | | |
| **Time Spent:** | Not Specified | | |
| **Original Estimate:** | Not Specified | | |

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| Rename the project (SaTransUtils?).  Remove PA-specific and unused code, including...  - ExceptionViewer.cs  - FontHelper.cs  - GridCellPiecePainter.cs  - IdenticalMD5Dlg.cs  - NoActivateWnd.cs  - PaintingHelper.cs  - SettingsHandler.cs  - SilHierarchicalGridParts.cs  - SilPopup.cs  - SpeechToolsSettingsHandler.cs  - XMLHelper.cs  Update COM calls from C++ code. |

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| [SPA-437] [Duration graph painting causes infinite loop](https://www.jira.insitehome.org/browse/SPA-437) Created: 16/Aug/07  Updated: 18/Nov/08 | |
| **Status:** | Open |
| **Project:** | [Speech Analyzer](https://www.jira.insitehome.org/secure/BrowseProject.jspa?id=10101) |
| **Component/s:** | [Graph, Duration](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&component=10299) |
| **Affects Version/s:** | [2.5](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&version=10202) |
| **Fix Version/s:** | [Postponed - Next Steps](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&fixfor=10661) |

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| **Type:** | Bug | **Priority:** | Critical |
| **Reporter:** | [Corey Wenger](https://www.jira.insitehome.org/secure/ViewProfile.jspa?name=corey_wenger) | **Assignee:** | Unassigned |
| **Resolution:** | Unresolved | **Votes:** | 0 |
| **Labels:** | None | | |
| **Remaining Estimate:** | Not Specified | | |
| **Time Spent:** | Not Specified | | |
| **Original Estimate:** | Not Specified | | |

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| **Description** |  |

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| An infinite loop is suspected because the CPU Usage increases to 100%. There are several different cases in which this occurs. It appears that in each case the Duration graph painting code is being called, but it's not able to finish, then being called again because it didn't finish, not being able to finish again, etc.  Open Windows Task Manager. Click on Performance. CPU Usage should be less than 100%.  Open any file. Add a Duration graph. Open a second file.  Error: CPU Usage immediately increases to and stays at 100%.  Switch back to the first file.  Result: CPU Usage drops.  Switch to the second file by pressing Ctrl + Tab instead of using the Windows menu.  Result: CPU Usage does not increase to 100%.  (The difference may be that this time the menu did not drop down, so painting happens in a difference way.)  Switch back to the first file. Click the Restore button if SA is maximized. Drag SA toward the bottom of the screen until the Duration graph is completely off the screen. Slowly drag SA toward the top of the screen until a portion of the Duration graph is showing.  Result: CPU Usage increases to 100%.  Drag SA toward the top of the screen until the entire Duration graph is showing.  Result: The Duration graph redraws. CPU Usage decreases to near 0%.  Drag the Windows Task Manager window over part of the Duration graph.  Result: CPU Usage increases to 100%, but then decreases.  Drag the Windows Tasks Manager window back the other direction slightly.  Result: The Duration graph blanks out. CPU Usage increases to 100%. |

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| [SPA-405] [High Resolution printing and preview (multiple problems).](https://www.jira.insitehome.org/browse/SPA-405) Created: 03/May/07  Updated: 21/Aug/07 | |
| **Status:** | Reopened |
| **Project:** | [Speech Analyzer](https://www.jira.insitehome.org/secure/BrowseProject.jspa?id=10101) |
| **Component/s:** | None |
| **Affects Version/s:** | [2.5](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&version=10202), [2.6](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&version=10203), [2.7](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&version=10253) |
| **Fix Version/s:** | [Postponed - Next Steps](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&fixfor=10661) |

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| **Type:** | Bug | **Priority:** | Critical |
| **Reporter:** | [Corey Wenger](https://www.jira.insitehome.org/secure/ViewProfile.jspa?name=corey_wenger) | **Assignee:** | Unassigned |
| **Resolution:** | Unresolved | **Votes:** | 0 |
| **Labels:** | None | | |
| **Remaining Estimate:** | Not Specified | | |
| **Time Spent:** | Not Specified | | |
| **Original Estimate:** | Not Specified | | |

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| **Attachments:** | changeset.zip     SA2.6-1.2\_src.zip |

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| **Description** |  |

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| Note: These steps only apply to versions 2.5, 2.6 and 2.7. High Resolution printing has been disabled in 3.0.  Open Chinese.wav. Click Graph Types on the Edit menu. Click Custom. Select the following 5 graphs: Raw Waveform, Auto Pitch, Smooth Pitch, Custom Pitch and Raw Pitch. Deselect all other graphs. Click OK. Select the segment transcribed as [b] (at 0.3390 seconds). Zoom to Cursors. Click View on the Graphs menu, then click Magnify, then click x4. Click Options on the Tools menu. Select the second to last item in the Vertical Gridlines list (dashed line). Select the same in the Horizontal Gridlines list (dashed line). Click Page Setup on the File menu.  Error: Hi Resolution should be High Resolution.  Select Hi Resolution. Click print.  Error: The printout exhibits the following problems:  - only Raw Waveform window is visible, but no plot line appears.  - a fragment of the plot line is visible in the upper-left corner of the page.  - other graphs are completely missing.  - plot lines extend beyond the plot window.  - phonetic text (inverted v) appears in the left margin (outside the transcription bar).  - graph window boundaries are missing.   Click Page Setup on the File menu. Select Hi Resolution. Click Preview.  Error: The preview exhibits the following problems:  - only part of the Raw Waveform plot line is visible.  - the Raw Waveform plot line extends beyond the plot region of the graph window.  - other graph windows contain no plot at all.  - plot lines extend beyond the plot window.  - phonetic text (inverted v) appears in the left margin (outside the transcription bar).  - graph window boundaries are missing.  - A preview status bar appears above the normal status bar.  Click Close.  Error: The preview status bar remains above the normal status bar. |

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| **Comments** |  |

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| Comment by [Corey Wenger](https://www.jira.insitehome.org/secure/ViewProfile.jspa?name=corey_wenger) [ 18/Jun/07 05:27 PM ] |
| Only One Graph Per Page seems to work. That is now the default. The High Res print options are mostly hidden. Only the graph selection list is visible, now. |
| Comment by [Corey Wenger](https://www.jira.insitehome.org/secure/ViewProfile.jspa?name=corey_wenger) [ 20/Jun/07 11:32 PM ] |
| There are still problems with One Graph Per Page. |
| Comment by [Corey Wenger](https://www.jira.insitehome.org/secure/ViewProfile.jspa?name=corey_wenger) [ 20/Jun/07 11:47 PM ] |
| Just completely removed the Hi Resolution option. |
| Comment by [Corey Wenger](https://www.jira.insitehome.org/secure/ViewProfile.jspa?name=corey_wenger) [ 26/Jun/07 12:57 PM ] |
| Larry thinks this is a show-stopper. |
| Comment by [Corey Wenger](https://www.jira.insitehome.org/secure/ViewProfile.jspa?name=corey_wenger) [ 06/Jul/07 09:41 AM ] |
| Clipping seems to be the problem that causes the graphs to either not appear at all or only partially appear. Notice that a small portion of the magnified raw waveform appears in the upper-left corner of the printout. This is because the clipping region begins in the upper left corner and is about an inch wide and half inch high.  Eberhard found a way to get the clipping region to display using the following code toward the end of PlotStandardPaint() in sa\_plot.cpp, just before DrawData():  CRect tmp; pDC->GetClipBox(tmp); tmp.DeflateRect(2,2);  CBrush brush(pColor->cSysBtnFace); pDC->FrameRect(tmp, &brush);  At times it seemed to agree with the clipping region, at other times, not.  Any fixes will need to be thoroughly tested, since this affects drawing in the main window, as well as printing and preview.  Other problems seem to have been there from the start.  There is yet another problem which seems to have been introduced with Unicode because it only occurred in development versions of 3.0. The problem occurs any time you have text in segments that gets shrunk to a dot. In debug this throws and exception when the dot symbol is created. The entire transcription is re-fonted in some system font (MS Sans Serif, or something). |
| Comment by [Corey Wenger](https://www.jira.insitehome.org/secure/ViewProfile.jspa?name=corey_wenger) [ 06/Jul/07 09:56 AM ] |
| This is the SA source just before the checkin that introduced the bug (SA2.6-1.2\_src.zip). |
| Comment by [Corey Wenger](https://www.jira.insitehome.org/secure/ViewProfile.jspa?name=corey_wenger) [ 06/Jul/07 09:56 AM ] |
| This is the changeset that introduced the bug (changeset.zip).  The check-in is a fairly complex one, with multiple fixes and re-factoring combined. I believe the problem was introduced with the changes in PlotStandardPaint() in sa\_plot.cpp.  The change appears to have been merged over into SA 2.5 as it exists there, as well. |

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| [SPA-393] [Melogram pitch settings are not saved](https://www.jira.insitehome.org/browse/SPA-393) Created: 23/Apr/07  Updated: 21/Aug/07 | |
| **Status:** | Open |
| **Project:** | [Speech Analyzer](https://www.jira.insitehome.org/secure/BrowseProject.jspa?id=10101) |
| **Component/s:** | [Graph, Melogram](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&component=10305) |
| **Affects Version/s:** | [3.0 RC1](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&version=10787) |
| **Fix Version/s:** | [Postponed - Next Steps](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&fixfor=10661) |

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| **Type:** | Bug | **Priority:** | Critical |
| **Reporter:** | [Corey Wenger](https://www.jira.insitehome.org/secure/ViewProfile.jspa?name=corey_wenger) | **Assignee:** | Unassigned |
| **Resolution:** | Unresolved | **Votes:** | 0 |
| **Labels:** | None | | |
| **Remaining Estimate:** | Not Specified | | |
| **Time Spent:** | Not Specified | | |
| **Original Estimate:** | Not Specified | | |

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| [SPA-369] [Crash: after converting SA2 wave files (only some machines)](https://www.jira.insitehome.org/browse/SPA-369) Created: 02/Apr/07  Updated: 21/Aug/07 | |
| **Status:** | Open |
| **Project:** | [Speech Analyzer](https://www.jira.insitehome.org/secure/BrowseProject.jspa?id=10101) |
| **Component/s:** | None |
| **Affects Version/s:** | [3.0 B3](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&version=10722) |
| **Fix Version/s:** | [Postponed - Next Steps](https://www.jira.insitehome.org/secure/IssueNavigator.jspa?reset=true&mode=hide&sorter/order=ASC&sorter/field=priority&pid=10101&fixfor=10661) |

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| **Type:** | Bug | **Priority:** | Critical |
| **Reporter:** | [Corey Wenger](https://www.jira.insitehome.org/secure/ViewProfile.jspa?name=corey_wenger) | **Assignee:** | Unassigned |
| **Resolution:** | Unresolved | **Votes:** | 0 |
| **Labels:** | None | | |
| **Remaining Estimate:** | Not Specified | | |
| **Time Spent:** | Not Specified | | |
| **Original Estimate:** | Not Specified | | |