

***Use TonePars with FLEx* User Documentation**

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1 Introduction

Use TonePars with FLEx is a tool that works as a utility in *FieldWorks Language Explorer* (aka *FLEx*). *Use TonePars with FLEx* runs the *XAmple* program followed by the *TonePars* program on a text or a portion of a text that exists in a *FLEx* project. You tell *Use TonePars with FLEx* the *TonePars* rule file to use as well as an *XAmple* input control file. Then you can choose a text or a portion of that text and ask *Use*

TonePars with FLEx to process it. The result will show in *FLEx* the same as it does when using either of the two morphological parsers that come with *FLEx*.

The input to the *XAmple* program is the same as what *FLEx* uses for the default morphological parser (which is *XAmple*). This means that you must control *XAmple* using the capabilities *FLEx* offers, not what you may have used with *AMPLE* via, say, *CARLStudio*.

Use TonePars with FLEx works with version 9.0.6 Beta or higher of *FLEx* and is only available on 64-bit Windows computers.

1.1 Installation

To install *Use TonePars with FLEx*, obtain the installer from <https://github.com/sillsdev/pcpatrflex/tree/master/Installer/Output/UseToneParsWithFLExDllSetup.exe>. The installer will check to see if you have installed *FieldWorks Language Explorer* version 9. If not, it will abort.

We recommend that you close *FieldWorks Language Explorer* before running the *Use TonePars with FLEx* installer.

1.2 Invoking *Use TonePars with FLEx* from within *FLEx*

While running *FLEx*, use **Tools** menu item / **Utilities....** Find the “Use TonePars with FLEx” item, check it, and then click on the “Run Checked Utilities Now” button.

1.3 Initial invocation

The first time you invoke *Use TonePars with FLEx* on a *FLEx* database, it will automatically add to your *FLEx* database the following:

1. a custom field to each sense (called “ToneParsSense”);
2. a custom field for each allomorph/lexeme form¹ (called “ToneParsForm”); and
3. a custom list (called “TonePars Properties”). You use this custom list to create any allomorph or morpheme properties used in your *TonePars* rule file.

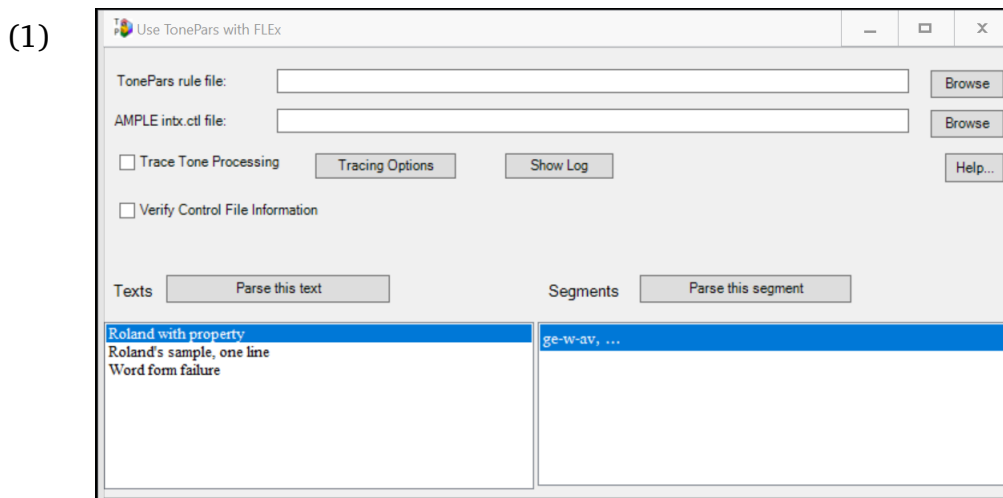
The names shown above are always in the English analysis writing system and English is the only writing system containing these names.

You can find the custom list by clicking on the “Lists” button in *FLEx*.

¹The current version of *FLEx* does not show this custom field on Lexeme Form. You can set it, though, by swapping the lexeme form with an allomorph. See the *FLEx* help system for how to do this.

1.4 Appearance

Use TonePars with FLEx looks like what is shown in (1).



The texts in the *FLEx* database are shown in the left pane and the segments of the first text are shown in the right pane.

There are buttons you can click. Each is discussed in section 2 below.

2 Buttons and check boxes

You control *Use TonePars with FLEx* by using the various buttons and check boxes. This section briefly describes them.

2.1 TonePars rule file Browse button

To choose which *TonePars* rule file to use, click on the topmost Browse button. By convention, *TonePars* rule files have an extension of “.ctl” so this is what the file browser uses.

2.2 AMPLE intx ctl file Browse button

As you most likely already know, when using *TonePars*, one first parses a text via *AMPLE* but as part of the processing, *AMPLE* strips out tone marking. The result is then passed to *TonePars*. In order to correctly strip out the tone markings, *Use TonePars with FLEx* needs to know the location of the input text control file needed. To choose which input text control file to use, click on the Browse button. By convention, *AMPLE* input text control file names end with “intx.ctl” so this is what the file browser uses.

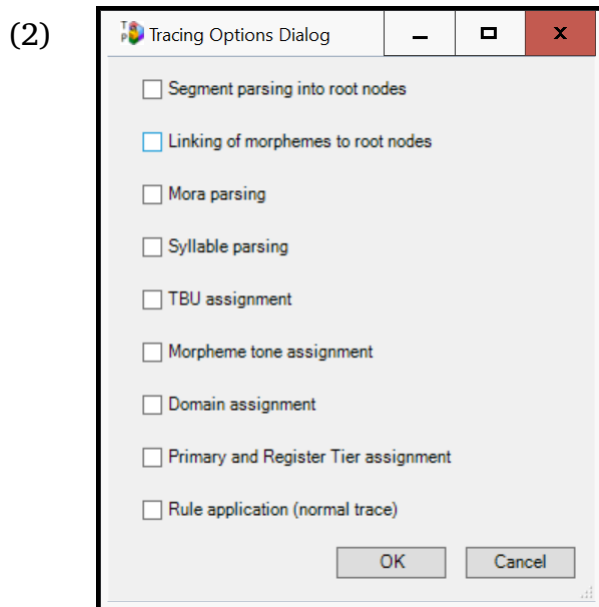
2.3 Trace Tone Processing check box

The next item is a check box with a label of “Trace Tone Processing.” When working with *TonePars*, you often need to get a trace of what the tool is doing.

When this check box is checked, *Use TonePars with FLEx* invokes *TonePars* with tracing turned on. The log file will show the results of the tracing process. See section 2.4 for the various tracing options available and see section 2.5 for how to see the resulting log file.

2.4 Tracing Options button

When you click on the “Tracing Options” button, it brings up a dialog box that looks like what is in example (2):



The options listed are the same as the options available in *CARLStudio*.

2.5 Show Log button

When you click on the “Show Log” button, the log file generated by the last invocation of *TonePars* will be displayed.

2.6 Verify Control File Information check box

One run time option for *TonePars* is to verify various pieces of information. When the “Verify Control File Information” check box is checked, *Use TonePars with FLEx* will invoke *TonePars* in such a way that this information will be included in the log file. You can see it by showing the log file (see section 2.5).

2.7 Help button

The “Help...” button is used to get this user documentation file, show the *TonePars* Manual, show the *TonePars* Grammar documentation file, or show the “About” dialog box.

2.8 Parse this text button

Above the pane containing the texts is a button labeled “Parse this text.” You use this button to parse this entire text via *XAmple* and then *TonePars*. The results will show in *FLEX* the same way as using one of the morphological parsers that come with *FLEX* show their result. It is easiest to see this in the “Texts & Words” / “Interlinear Texts” view or the “Texts & Words” / “Word Analyses” view.

2.9 Parse this segment button

Above the pane containing the segments of the selected text is a button labeled “Parse this segment.” You use this button to parse this particular segment via *XAmple* and then *TonePars*. It is easiest to see this in the “Texts & Words” / “Interlinear Texts” view or the “Texts & Words” / “Word Analyses” view.

3 Restarting *Use TonePars with FLEX*

Whenever you exit and restart *Use TonePars with FLEX*, it will do the following:

1. remember the size and position of the *Use TonePars with FLEX* window;
2. remember which *TonePars* rule file you last chose;
3. remember which *AMPLE* intx ctl file you last chose;
4. remember the settings of “Trace Tone Processing,” “Tracing Options,” and “Verify Control File Information;”
5. remember which text in that project you last selected; and
6. remember which segment in that text you last selected.

4 Known problems

The following items are known to be less than desirable with this version of *Use TonePars with FLEX*:

1. *Use TonePars with FLEX* only works with version 9.0.6 Beta or higher of *FLEX*.
2. If a lexical entry in *FLEX* is marked as either a proclitic or an enclitic, it may not parse correctly. This is because *FLEX* creates two entries for it with the same morphname; one is as an affix and the other is as a root. *Use TonePars with FLEX* may not process it correctly due to this ambiguity. It might be possible, however, to model these as affixes instead of as proclitics/ enclitics.
3. When you need to mark an allomorph with an allomorph property using the custom field of “ToneParsForm,” the custom field only shows up in *FLEX* for an allomorph. It does not show for a lexeme form. To add an allomorph property to a lexeme form, you can use the “Swap Lexeme Form with Allomorph” capability (on the Lexeme Form item) or the “Swap Allomorph with Lexeme Form” capability (on the Allomorph item). See the *FLEX* help system for how to do this.

4. The current version of *FLEx* does not always parse a capitalized word.
5. The user interface is in English only.

5 Support

If you have any questions with *Use TonePars with FLEx* or find bugs in it, please send an email to blackhandrew@gmail.com.