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Table of contents

1. Introduction	2
2. Advantages	2
3. Environment	2
3.1. Hardware requirements	3
3.2. Score environment	3
3.3. Global SIP settings	3
3.4. Windows settings	3
3.4.1. Fonts	3
3.4.2. Screen size	3
4. The graphical user interface	4
4.1. Menu line	4
4.1.1. File	4
4.1.2. Edit	4
4.1.3. View	4
4.1.4. Keyboard	5
4.1.5. Screen	5
4.1.6. Lyrics	5
4.1.7. Options	5
4.1.8. Kerning	7
4.1.9. Help	7
4.2. File Control	7
4.2.1. Select file(s)	7
4.2.2. View names	7
4.2.3. Filename field	8
4.2.4. Progress bar	8
4.2.5. Score	8
4.2.6. First, Prev, Next, Last	8
4.2.7. Goto	8
4.2.8. New	8
4.3. Page Control	8
4.3.1. Vertical positioning	8
4.3.2. Ruler	9
4.3.3. Score file display	9
4.3.4. Screen representation	10
4.4. Text control	10
4.4.1. Standard Text control	10
4.4.2. Full Text control	11
4.4.3. Control keys	11
4.4.4. Keyboard diads	12
4.4.5. The Icelandic switch	14
5. Text items	14
5.1. Immediate update	14
5.2. Update via submenu	14
5.3. Moving text items	15
5.4. Join	15
5.5. Split	15
5.6. Creating text items	15
6. Lyrics	15
6.1. Entering lyrics	15
6.2. Updating lyrics	16
6.3. Other lyrics functions	16
7. Kerning	16
7.1. Current item: kern to its center	18
7.2. Current item: kern to its Par3	18
7.3. Current item: kern to center	18
7.4. Current item: kern and flush right	18
7.5. Current item: kern and flush left	18
7.6. Current item: unkern with items on right	18
7.7. Kern selected file(s)	18
7.8. Unkern selected file(s)	18
8. Cyrillic	18
8.1. Cyrillic Windows fonts	18
8.2. Cyrillic Score fonts and keyboards	19
8.2.1. TimeScore	19
8.2.2. ScoreCyr	20

8.3. Other SIP utilities for Cyrillic	21
9. Installation of SipText	21
9.1. Licensing	21
9.2. AFM files	21
9.3. Documentation	22
9.4. Demonstration files	22
9.5. Loading fonts to the printer	22
9.6. Bitmaps	22
9.7. Installation sequence	23
10. Current restrictions	23
11. The Profile	23
12. Change history	24

1. Introduction

SipText is a Windows application developed to manipulate text in SCORE music files. In addition to the SCORE text features, there are advanced capabilities which make working with text easier and faster than in SCORE itself. While the use of this utility is intuitive, full benefit will be drawn from reading the user guide.

The program comes in a basic version with two optional extensions. The separately priced extensions are support for kerning and for Cyrillic.

The reader is assumed to be familiar with SCORE and its parameter structure.

2. Advantages

There are numerous valid arguments for using the text editor:

- Simple to learn – all functions are menu driven, require only a minimum of keys or mouse clicks while colors are used to distinguish the different items and their status on the screen.
- Copy and paste – copy text between SCORE music files and other Windows applications.
- Speed – walk through a series of files with one click, move text items by drag and drop.
- Proper visualization of typical SCORE combination characters – on the screen you see the real graphics for characters such as á, æ, ã for <<a, ?a, ~a, etc. as well as for octal representations.
- Visualization of special SCORE characters which do not have a Windows equivalent graphic.
- Width computation using Adobe Font Metrics (AFM) or PSC – used in centering, flushing and lyrics.
- Width computation of octal characters – used in centering, flushing and lyrics.
- Powerful lyrics entry and edit – assigning syllables to notes, alignment, centering, handling of dashes and extenders.
- Screen addressing – select items from the screen. See the parameters of a text item by just moving the mouse over it.
- Font selection – names of fonts are presented for numeric SCORE fonts.
- Profile setting – adapt the application to your project or your specific preferences.
- Status information and on-line explanation – most screen objects have tooltips, view crucial environment settings, on-line help.
- Graphical keyboard – in addition to the physical keyboard use the screen keyboard for uncommon characters.
- Alignment and centering of page numbers.
- Keyboard diad translation.

For kerning, the advantage really is that there is no alternative other than mixing SCORE's music output with the features of publishing software. Kerning is combined with centering and justification.

For Cyrillic, the advantages are:

- See on the screen what will be in the music file. SCORE has no alternative for this.
- Support for several keyboard layouts and fonts.
- Copy and paste with Russian word processors.
- Automatic font change within a text when the ScoreCyr font does not have a specific character to a font which does.

3. Environment

SipText runs as a Windows application under the main SIP program. During the installation process of SIP, the necessary links are established to the environment used between SCORE and SIP utilities. It uses some of the global settings from this main program and refers to specific external sources from the SCORE and Windows environment. The environmental sources are herewith described.

3.1. Hardware requirements

The development system used is 1.5 GHz and convenient for working with SipText. The machine used for product qualification is 1996 vintage with GenuineIntel Pentium of which the speed is 66.6Mhz. It has not enough steam for SipText in a production environment. The following functions require current day technology:

- advanced file selection when your system has many folders and files;
- reading and writing SCORE files;
- graphic display of a SCORE file.

For screen requirements see paragraph 3.4.2.

3.2. Score environment

SipText needs SCORE information specific for the handling of text. This information does not require any special preparation but it needs to be present on the same system. Note that to view a SCORE file by SCORE there is just one click to give control to that application. SipText will not work if SCORE is not installed on the same system. SipText refers to:

- PREF.SCR – from which it picks up the dash size. If not defined it assumes the value 1.29.
- PSC files – from which it picks up the available fonts, the font names and their character sizes.
- FONTINIT.PSC – from which it picks up the current Postscript information.
- AFM files – optional, to get correct and complete character size information. Required for kerning.

The settings are kept in two ‘registry’ files:

- Systems settings – these are kept in SIPCNTL.INI which is created at SIP installation time and maintained by SIP itself. The user can view this file by double-clicking the Beethoven picture on the main panel. In the file, SIP keeps the paths to the SCORE environment and Windows entities.
- Global settings – these are initialized the first time SIP is called and maintained by the user via the button ‘Set project options’. To see the file SIPPROJ.PRO which keeps these settings, push the small button on the right. Note that you can also view and maintain PREF.SCR from this panel.

3.3. Global SIP settings

The common program for all SIP utilities defines a number of settings of which some are passed to SipText. These are:

- Initial folder for file selection – this speeds up file selection within one project.
- Preferred filename extension of SCORE files – usually MUS or PAG.
- Page number placement – this allows centering/alignment of page numbers by clicking on them.
- Page number font and size – page numbers are shown on the screen but they must be recognizable as such.
- Bar number font and size – bar numbers are shown on the screen but they must be recognizable as such.
- Lyrics text size – used to distinguish potential lyrics text from other text. Note that the font in this panel is not used by SipText.

3.4. Windows settings

3.4.1. Fonts

The user needs Windows fonts for visualization. Some fonts are mandatory and some are optional. The presence of these fonts is checked dynamically but only the most common ones present in all Windows systems are used by SipText. Installation instructions provide details on required and optional fonts for the Cyrillic extension.

When the user has specified AFM files for character width computation, these files have preference over PSC files individually. The PSC files are still necessary since they link the SCORE font number to the font name.

3.4.2. Screen size

The screen size is dynamically checked at program start. It must be at least 800 x 600 for SipText to be able to work while bigger sizes are suggested. Best results are currently obtained with a screen size of 1400 x 1050. To find out the size of your screen, use Help > Environment.

Installation on a system with a 1024 x 768 screen showed that this screen size is still comfortable for working with SipText, but smaller sizes are not. SipText uses the entire vertical workspace excluding the task bar. When the View > Full Text control frame is set, the entire screen width is used.

To make more space vertically, you can

- hide the taskbar or put the taskbar vertically on the right;
- work with View > Full Text control frame off.

4. The graphical user interface

The panel which interfaces with the user has a menu line and three frames: File control, Page control, and Text control. At program start, File control is visible. Once files are selected, the other frames become visible. The Text control frame can be temporarily made invisible during functions which do not allow simultaneous keyboard input.

4.1. Menu line

The title bar and menu line are shown here:



The title bar gives the version and build number. Individual menu titles can be disabled if they are momentarily not allowed. The various menu options have submenus described here:

4.1.1. File

Initialize profile – erases the user profile and terminates the program. At subsequent program start, a default profile will be newly created.

Save – saves the file currently being processed.

Save as ... – saves the file currently being processed under a selectable name and path. Only the short type filename (8.3 format) is allowed.

Save and exit – saves the file currently being processed and terminates the program.

Exit – terminate the program.

Note that the termination button in the title bar (or Alt+F4 shortcut) will give the option to save the file currently being processed if any changes were made to it.

4.1.2. Edit

Copy – the text in the input buffer is copied to the clipboard.

Paste – the text in the clipboard is copied to the input buffer.

Paste Cyrillic – the Cyrillic text in the clipboard is copied to the input buffer.

Horizontal step – value used when text items are moved. Par3 will be set to the nearest multiple of this value.

Vertical step – value used when text items are moved. Par4 will be set to the nearest multiple of this value.

Center value – position used for centering text. Initially 100.

Left flush value – position used for flushing text to the left. Initially 0.

Right flush value – position used for flushing text to the right. Initially 200.

4.1.3. View

Profile – views the profile setting for SipText. Though discouraged, you can make changes to this file.

When the viewer is closed, SipText terminates so that when restarted, any changes will be effective.

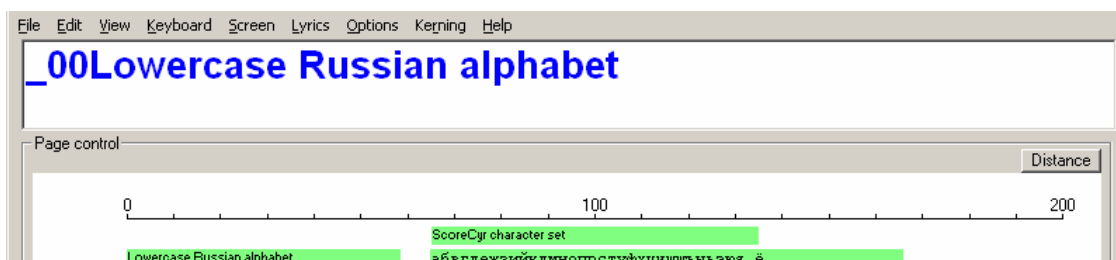
To left corner – the panel can be moved across the screen. When this option is selected, it will be positioned in the top left corner.

Windows fonts – provide a table of all Windows fonts on the system in alphabetical order. Close this list by a single click on it.

Uppercase keys as bold – in the Text control as keyboard is drawn. When ‘Caps lock’ is selected, uppercase keys will appear with a bold font.

Full Text control frame – the Text control frame comes in two sizes. Screens wider than 800 can show part or all of the full size frame which has additional non-pertinent information to be described later.

Big tooltip – when the display size is hard to read, an enlarged tooltip will momentarily appear on top of the panel. This tip disappears when the cursor enters the white background. A checkmark is set when the option is in effect.



4.1.4. Keyboard

The submenu lists all supported keyboards. Yet unsupported keyboards appear disabled. When the program is started, the 'English US' keyboard is selected.

4.1.5. Screen

Autosize – text appears on the screen with a green background. The background gives the proportional width in SCORE when this option is off. The height of the green band is not proportional. When the text is longer than can be contained on this background, the user can select a smaller display font or ask SipText to make the background as long as the displayed text with Autosize. A check mark indicates that the option is in effect.

Ruler – A simple ruler is shown in the displayed page. This ruler can be suppressed to make more space for display by resetting this option. The ruler can also be suppressed by clicking on it.

Refresh – The displayed page is drawn again. This is useful if you have added text above the top staff and want to see the new layout adjusted to the top, or to view the display text in another font. Note that the refresh function does not reread the file.

4.1.6. Lyrics

Align lyrics – Attach syllables to the nearest note. Par3 will be set to that of the note. A displacement is prompted which becomes the offset in Par11 (default is zero).

Center lyrics – Attach syllables to the nearest note. Par3 will be set to that of the note. The offset is moved to Par11.

Center dashes – All dashes are put in the middle of the syllables they connect. If there is no note on the right it assumes the end of the staff as beginning of a syllable. If there is no note on the left, it assumes a distance set by an option.

Align extenders – Extenders are aligned to the syllable on the left and to the nearest note on the right. When there is no note on the right it assumes a distance from the end of the staff. Options control distances.

4.1.7. Options

Outline font – by default the current font prefix has one underscore. Set this option to select the outline font indicated by two underscores.

Setup – shows an additional options panel for the setting of keyboard preferences, global lyrics definitions, display fonts, editor options and kerning. The close button saves the options in the profile and brings you back to the main SipText frame. The Options are shown here:

The screenshot shows the 'Options' dialog box with the following settings:

- Keyboard preferences:**
 - Latin: English US
 - Cyrillic: Russian Lebedev
 - TimeScore preference: ä, É = %e, %%E
 - Allow underscore as character
 - Allow Latin characters in Cyrillic
 - Switch font Latin:
 - Ampersand replacement:
- Lyrics settings:**
 - Lyrics size:
 - Vertical distance between verses:
 - Dash size:
 - Vertical dash offset:
 - Vertical extender offset:
 - Extender note end:
 - Extender staff end:
 - Space to left dash on first syllable:
- Kerning:**
 - Left aligned
 - Center aligned
 - Setting aligned
- On-screen text options:**
 - Latin: Small Fonts 8.75
 - Cyrillic: Couriere Cyr 8.25
 - Suppress 'missing Windows fonts' messages
 - Split separator character:
- Page number on side displacement:
- Close button

The above options panel has the status of SipText with the Kerning and the Cyrillic extension. Without these extensions, the particular options are disabled.

The text for most options is self-explanatory while some texts and fields have additional tooltips.

Keyboard preferences

English UK 47 refers to a keyboard with 47 character keys etc. Keyboard layouts are described in the Text control chapter. Here you select a preferred keyboard for your application. When you select a text, the keyboard will automatically be set to the one indicated for that script.

The button 'Keyboard diads' is explained separately – see 4.4.4

TimeScore preference

The TimeScore family of fonts has two ways to represent Cyrillic **ё** and **Ё** in SCORE. On input, both formats are recognized. On output, the preference is generated.

Allow underscore as character

The underscore is reserved in SCORE for font prefix. When a text has an underscore without a font number following, then SCORE gives the error message

```
'*** ERROR number missing after underbar ***'
```

so by default the underscore is suppressed. The user can force the underscore as a text character by setting this switch. It is anyway suggested to use the octal character 137 when an underscore is required as text.

Allow Latin characters in Cyrillic

A Cyrillic font may not have a particular character. To let SipText automatically change within a text to a font which does have that character, set this option. The program will automatically revert to the Cyrillic font and never make adjacent prefixes or terminate an item with a prefix.

Ampersand replacement

Windows is hostile to the ampersand (&) character in the input buffer. If you need to type it, a replacement character needs to be defined. Depending on the script you are using, there is a number of possibilities to select from. Selection of a replacement character annuls the replacing character.

Using the octal representation of the ampersand (046) avoids the hassle.

Lyrics settings

Tooltips explain the meaning of these fields. Note that some are SCORE defaults and should be handled with care when different.

On-screen text options

Choose different fonts for screen display. While the advantage of a narrow font is that display text fits in the green background which is the proportional text size (when Autosize is off), the drawback is that it is hard to read. Select the font which best fits your purpose. With close vertical text, the Small Fonts is suggested for Latin script because the green background is vertically smaller than for the others.

In the On-screen text options, a checkbox is added which can be set to avoid the message which at startup tells you that optional Windows fonts are missing.

In this panel there is also the definition for a separator character. This is used by the 'Split' command.

Kerning

The panel is activated when the kerning extension is installed. There are three selections which are tested when kerning is performed on a set of selected files. These options are **not** effective when kerning individual items (current item).

Left aligned – Every text item is kerned while the original leftmost position of the text is maintained.

Center aligned – Every text item is kerned and new position of the text item is set such that the middle of the original text item is maintained.

Setting aligned – Every text item is checked against the right alignment value (default 200). If the right end coincides with that value, the item is kerned with that right end. When the end does not coincide, it kerns to the original left end.

An option is foreseen to tell SipText to ignore specific text items for kerning. See the Kern on/off option as described in chapter 7.7.

Page number on side displacement

Clicking on a page number will align the number according to the project SIP setting. When the project setting is to center, the number will be centered to the center value (see 4.1.2). When the project setting is to side, even numbers will be put left, odd numbers right. Side alignment is controlled by the flush values and a constant defined in this displacement field. For example, the page number 123 will right align to position 196 if the right flush value is 200 and the displacement is 4.

The numeric value is interpreted as a string for width computation. Code10Par7 is interpreted as Times-Roman Italic when 1. Fonts defined in Par7 as 1000 till 1089 are properly interpreted while any other value defaults to Times-Roman.

4.1.8. Kerning

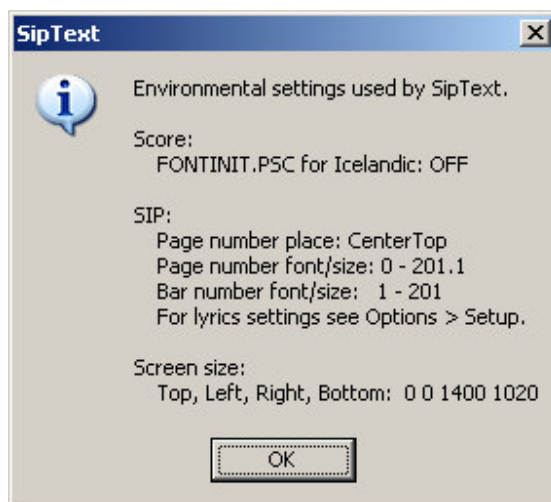
The kerning submenu is explained in chapter 7.

4.1.9. Help

Narrative – shows the help file contents which is approximately identical to the User Guide text without the illustrations.

Color codes – there are two panels explaining the color codes – one for the Page control frame and one for the Text control frame. Press on either close button to make the panels disappear.

Environment – the pertinent environmental information is provided in a message box, an example follows:

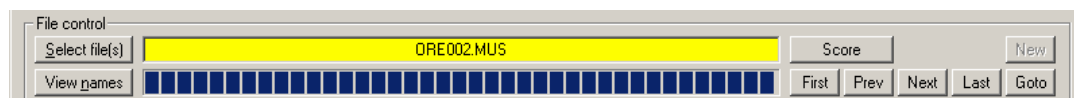


License – this provides a message box with the license and installed extensions.

About – a message box is shown about authorship, acknowledgements, and trademark information. The Help > About mentions two fonts (Lazurski, Leed Courier) which are currently not supported.

4.2. File Control

This control panel is always visible. An example is shown here:



This area may momentarily be overcast with an enlarged tooltip when pointing to a text item while the option *Big tooltip* is set.

4.2.1. Select file(s)

SCORE files are selected via this button. You can select one or more files in different ways as indicated by the submenu. The various methods have different advantages or disadvantages and depend on the speed of your computer, of the number of folders on your system, on the Windows configuration, etc.

An attempt is made to provide a range of selection capabilities for all situations. When the preferred folder and file suffix were defined as project options, the selection is fastest.

The names of the selected files are put in file NAMES.SIP which has the format known by SCORE users. Note that there is no restriction in path name length or the use of long file names as there is in DOS.

4.2.2. View names

To see the contents of the names file press button 'View names'. Manipulation of this file is possible at the user's own risk. When a selection was made, and the selected files were removed or renamed, this names file refers to non-existing files and a warning is given before forcing the user to make a new selection.

This button has a tooltip which gives the number of files selected and the full path of the first name of the selection. When no files are selected, the button is disabled.

4.2.3. Filename field

The current file name is shown here without the path prefix. To obtain full details on the file, click this field. Shown are full path, size, date and time stamp, number of items, number of text items, and all the fonts (number and names) encountered in the file as well as the last save timestamp. Close the panel to continue.

4.2.4. Progress bar

Depending on your computer's speed, reading a SCORE file takes more or less time as indicated by the progress bar. Note that SipText also needs time for sorting the input and drawing it in the Page control frame. The keyboard is invisible during this time as it cannot be used.

Click the bar to see FONTINIT.PSC. After this view, SipText is terminated because the user might have updated it and the changes will influence the next program execution.

4.2.5. Score

This button calls SCORE. When there is a current file, this file is opened. When the user made updates with SipText, the file is saved before showing it with SCORE. On exit, the current file will be reread by SipText as to make any changes effective.

4.2.6. First, Prev, Next, Last

Walk through the file selection with these positioning buttons. Only those buttons are enabled which are applicable, meaning that when you selected one file only, there is nothing to walk through and all buttons are disabled.

4.2.7. Goto

When more than one file is selected, you can immediately position to any of these files via a list.

4.2.8. New

This button is enabled if no files were selected. To force this situation, press **Select file(s)**, then cancel the selection. When **New** is enabled and pushed, an empty file with a desired number of staves is generated for training purposes.

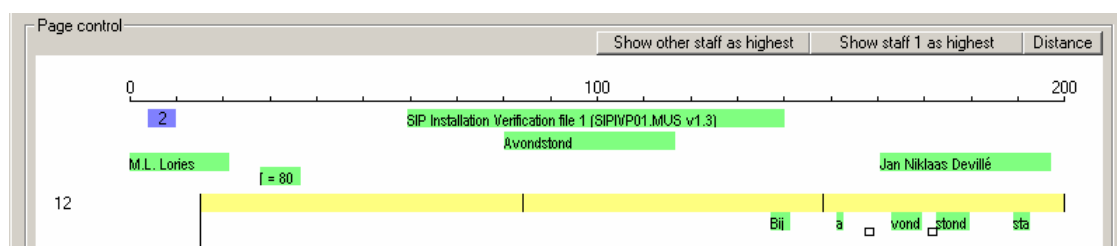
4.3. Page Control

Visualization and item manipulation of a SCORE file is in this frame.

4.3.1. Vertical positioning

This frame is vertically adjusted to the available screen size between the File control frame and the Text control frame. For present day screens of 1400 x 1050, the frame is big enough to show an average SCORE file.

The top has buttons to vertically control the visible window when a music file is too small to be shown entirely:



The Distance button is always visible, the other buttons are only visible when a page is vertically beyond the vertical display size.

Show other staff as highest

Move the window up such that another staff becomes the top. Contrary to SCORE, SipText fills the display window from the top down, the highest text item just under the ruler. When the top staff has no text items or a page number, the staff is just under the ruler.

Show staff [...] as highest

When there are non-displayed staves because the display is vertically insufficient, SipText suggests which staff could be the one to show as highest.

Distance

The distance between shown staves is always fixed, independent on the SCORE staff distance (Code8Par4 or Code8Par10). This distance can be differently set to get more staves on the frame, or to get more space between staves to show lyrics. Staves are shown as yellow bands of a certain height but when the distance is minimal, the height of the band is reduced. The height of the band is not proportional to the staff size. Move the mouse over a staff to see size, instrument, and to see if Par7 indicates invisible.

Show top

This button is not shown in the above example. To return to the top portion of a display, press this button.

4.3.2. Ruler

A ruler is optionally shown with intervals of ten SCORE positions. Press the ruler or use the Screen > Ruler menu to suppress or recall it. With a suppressed ruler there is more vertical space for the SCORE file display.

4.3.3. Score file display

Since this is a text editor, the display is reduced to the elements which matter in text manipulation. All elements to properly adjust text horizontally or vertically are present. Self-explanatory colors are used. Moving the mouse over an item reveals the details the user may need to know (font, actual SCORE encoding, parameters, width).

In the above example, the blue background indicates a page number. Other elements are shown here:

The screenshot shows a score editor interface with six staves labeled 4 through 9. Staff 9 is labeled 'Voice' and contains the lyrics: 'Auf dem Hügel sitz' ich spähernd in das blaue Meer. Land nach den fernsten Triften sehend, wo ich dich geliebt hab' fand. Ausdrucksvoll dirr...'. Staff 8 is labeled 'Piano'. Staff 7 is labeled 'i'. Staff 6 is labeled '5' and contains the lyrics: 'land nach den fernsten Triften sehend, wo ich dich geliebt hab' fand. Ausdrucksvoll dirr...'. Staff 5 is labeled 'espressivo' and 'dirr...'. Staff 4 is labeled '5'. The score is for 'An die ferne Geliebte (Page 1) Op. 98' by Ludwig van Beethoven. The tempo is 'No. 1 Zierrlich langsam und mit Ausdruck'.

The grey background indicates a bar number. Dashes and the extender are drawn as rectangles, slightly oversized so they can be selected by the mouse for deletion. These lines appear off-center when the Autosize option in effect.

On staff 6 there is a whole rest in blue.

The selected display font is Arial Narrow which is a reasonable selection if the lyrics are not too close vertically. The disadvantage of this font is that the descenders are invisible. The four display selections are given here for comparison (Autosize not set):

Small Fonts:

An die ferne Geliebte (Page 1)

MS Sans Serif:

An die ferne Geliebte (Page 1)

Arial Narrow:

An die ferne Geliebte (Page 1)

Haettenschweiler:

An die ferne Geliebte (Page 1)

When one wants to see notes and numbers for lyrics distribution, click a staff once. Here this is done on staff 6:

The screenshot shows staff 6 with lyrics: 'land nach den fernsten Triften sehend, wo ich dich geliebt hab' fand. Ausdrucksvoll dirr...'. The bar numbers 1 through 17 are displayed above the staff. The score is for 'An die ferne Geliebte (Page 1) Op. 98' by Ludwig van Beethoven. The tempo is 'No. 1 Zierrlich langsam und mit Ausdruck'.

4.4.2. Full Text control

The screen needs to be wider than 800 for the right part of the full keyboard to be shown. Note that the size of the frame is also enlarged vertically because it shows two additional buffers. The disadvantage of this of course is that the Page control frame reduces in size.

Additional buffers show the text item in Windows encoding and in SCORE encoding. When a Cyrillic keyboard is active, one more buffer shows the transliteration of text items being processed.

4.4.3. Control keys

Outside the keyboard frame are the control keys Esc, CapsLock, Insert, Home, End, Del, Backspace, horizontal arrows and Enter. These correspond to the physical keyboard keys. Their function is explained hereafter. Note that the Alt key is reserved for its Windows function as letter shortcuts to menus, and to terminate with F4.

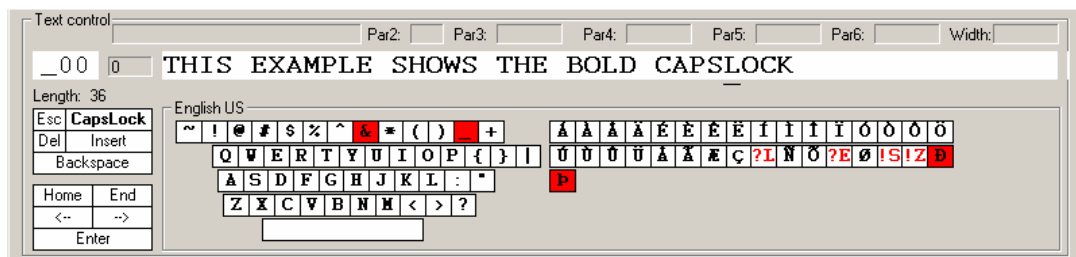
When updating characters which can only be represented in Windows as SCORE diads or triads such as TimeScore <<y, then be careful editing them. When you want to change this character in the TimeScore string a<<ya then you need to delete three characters, then push insert, and then select any character from the physical or the screen keyboard. If you would just replace the 'y' by typing a character, SipText does not know that it is part of a triad and converts it incorrectly.

Esc

The Esc key clears the input buffer and sets CapsLock to lowercase.

CapsLock

This key selects the equivalent current keyboard in the uppercase setting. When set, the caption becomes bold. Optionally, the key caps can be shown in bold as shown here:



A shift character can be input when the drawn keyboard is in lowercase. The Shift is only active on physical keyboard *letters*.

Insert

Characters typed are inserted at the cursor location, those on the right of the cursor shifting to the right. The cursor does not move. When Insert is not active, typed characters overwrite text at the cursor position. When active, the caption is bold.

Home

The cursor is moved to the extreme left of the text, in front of the first character. This is a way to see text which has shifted out on the left.

End

The cursor is moved to the extreme right of the text. When beyond the end of the visible part of the buffer, the text will be shifted in.

Del

The Del key deletes the character at the cursor.

Backspace

The Backspace key removes the character left of the cursor.

Horizontal arrows

These displace the cursor within the text.

Enter

This terminates input of a text item.

4.4.4. Keyboard diads

It can be time saving when the diacriticals are automatically handled on input. SipText has a provision for this. There is a default set for the most common diads (an example is :a for ä) such that by typing the diad, the program automatically generates the combination. The user may switch on this feature for input via the physical keyboard and/or via the screen. Also, diads may be added by the user and they may be removed. To maintain the diads and set the diad translation on or off, hit the 'Keyboard diads' button on the option panel. This gives rise to the following panel:

Keyboard diads

Return Half

á	á
é	é
í	í
ó	ó
ú	ú
â	â
ê	ê
ï	ï
ô	ô
û	û
ä	ä
ë	ë
ï	ï
ö	ö
ü	ü
à	à
è	è
ì	ì
ò	ò
ù	ù
â	â
ê	ê
ï	ï
ô	ô
û	û
ä	ä
ë	ë
ï	ï
ö	ö
ü	ü
~a	~a
~o	~o
~n	~n
ç	ç
À	À
É	É
Í	Í
Ó	Ó
Ú	Ú
Ä	Ä
Ë	Ë
Ï	Ï
Ö	Ö
Ü	Ü
À	À
È	È
Ì	Ì
Ò	Ò
Ù	Ù
Ä	Ä
Ë	Ë
Ï	Ï
Ö	Ö
Ü	Ü
~A	~A
~O	~O
~N	~N
Ç	Ç

The left column has diads, the right column has the single character to which a diad translates to.

A diad can be any character combination.

Select an entry from the left column to modify or delete it.

The default collection consists of all vowels (a, e, i, o, u) with acute, grave, circumflex and dieresis; the three letters with til(de), and the c-cedilla. All lowercase and uppercase combinations are provided for.

To reset the definitions to the default collection of diads, erase the file SIPTEXTA.TXT and restart SipText.

Add entry

Activate diad translation on physical keyboard input

Activate diad translation on screen input

The 'Add entry' prompts for the two strings which define a new diad. There is no limit to the number of diads. Different diads may refer to the same resulting character.

Note that there are three modes of keyboard input:

append – the cursor is at the right of the text to receive a new character;

overwrite – the cursor is not at the end of the text and a typed character will overwrite an existing one;

insert – the cursor is not at the end of the text and a typed character will be inserted.

The diad translation only works in append mode.

4.4.5. The Icelandic switch

There is an internal switch by this name which controls the capability to use Icelandic characters eth (ð, Ð) and thorn (þ, Þ). The switch is set when FONTINIT.PSC contains the definitions for these characters which are also used in Old English.

Postscript name	Graphic	Decimal value	Octal value	Default
eth	ð	162	242	cent ¢
Eth	Ð	165	245	yen ¥
thorn	þ	168	250	florin f
Thorn	Þ	166	246	currency ₣

The line to be included in FONTINIT.PSC is:

```
8#242/eth 8#245/Eth 8#250/thorn 8#246/Thorn
```

and when these definitions are present, the characters will appear in the drawn keyboard, sacrificing the defaults.

To see the status of the switch, select menu Help > Environment.

5. Text items

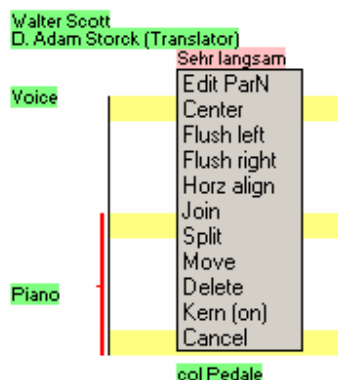
When a text item is to be modified it needs to be selected. Selection can be either immediate or via a submenu. Immediate replacement is caused after selection by a left mouse click. A submenu with a couple of options can be obtained by selection with the right mouse click.

5.1. Immediate update

This is simply a left mouse click on the green background of the text item. Selection turns the background of the item from green to pink, the font and text are moved to the Text frame fields. The text in the input buffer gets a red foreground to indicate update mode. Press Enter and the selected item is replaced and it gets the green background again. Optionally the font can be redefined before replacing the string.

5.2. Update via submenu

The submenu looks like this after selection with the right mouse click:



The submenu rolls out right under the selected item (or if space requires, it is offset near the item). Most commands are self-explanatory.

Edit ParN allows update of parameters 2 to 11. Note that changing Par2, the size of the item is affected when the new staff has a different size.

Horizontal align moves the text to the nearest multiple of the horizontal step (default 1).

When updated, the background of the selected item returns to green and the submenu disappears. The move, join and split commands are described separately, hereafter.

5.3. Moving text items

A strong feature of SipText is its capability to move text. To move a text item it can be selected in two ways. Above we have seen the submenu from which the Move command can be selected. A shortcut to the same Move command is to select the item with a right mouse click while keeping the Shift key pressed. The effect of the Move command is that the background changes to sea-blue. Then drag the text item to the desired spot and drop it. To assign a staff number to the text item drag it over the intended drawn staff. Note that the size of the item is immediately influenced by the receiving staff size.

When you want to move a text such as *espressivo* to a specific note, you can show all notes on a staff as a visual help by clicking the right mouse button on the desired staff. Right-click again on any staff to make the notes disappear.

5.4. Join

When two adjacent text items have the same vertical position and are of the same size, they can be combined into one text item. Select the left item, then give the join command. Note that horizontal distance is not significant. When separated by a dash or extender, syllables cannot be joined. The join can be used when texts horizontally overlap or to undo kerning on two items.

5.5. Split

When a text item needs to be split into two items, select the item, move the separator character where you want to separate and perform the split command. The separator character is defined as an option. The default is an asterisk.

5.6. Creating text items

Whenever the Text control frame is visible, text can be input to create new text items. By pressing the Enter key, the item is moved to the top left corner of the display page as a move item. It is assigned to the top staff. Drag it over the desired staff to assign Par2 before dropping it.

6. Lyrics

Input, update, and alignment of lyrics works as in SCORE but a number of additional features make the manipulation of lyrics easier and faster. Before working with lyrics, the user has to assure three things:

- the size of the lyrics text must be defined as a global setting ('set project options');
- the dash size must be defined in PREF.SCR (if not, the default size of 1.29 is used);
- the space between verses must be defined as a local setting in the Options panel. When set to 4, the first verse will be at Par4 = -4, the second at Par4 = -8, etc.). When there is already a verse in a file at Par4 = -5, with a setting of 4, the next will be put at -9.

6.1. Entering lyrics

Before entering lyrics text, select the staff by clicking on it, then enter text with SCORE separators / (end of syllable¹), !! (dash), and ?? (extender²). The selection of the staff shows the notes with their labels. As an example we enter the lyrics for the Beethoven song 'An die ferne Geliebte'.

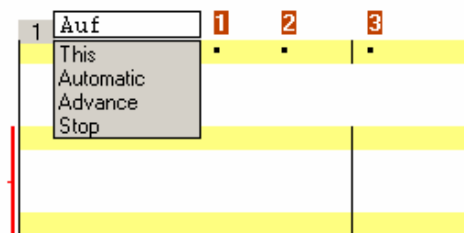


We enter some of the text:

After typing these eight syllables (note the graphic representation of umlaut characters), the Enter will cause the following to appear:

¹ Since the slash is not in the Cyrillic ScoreCyr font, the character @ may be used interchangeably.

² In ScoreCyr, the ?? appear as ## on the screen, though ?? needs to be typed..

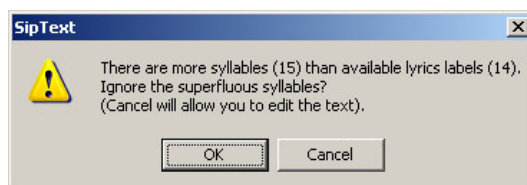


which gives the syllable to be assigned and the first available note. To assign this syllable, click 'This' or the numbered label of your choice, or let SipText assign all remaining syllables across the notes that follow (the '99' feature of SCORE). With 'Advance', the submenu moves to the next available note. To terminate assigning syllables before they run out, select 'Stop'. Dashes and extenders will be properly placed.

There is one difference with SCORE: you can specify empty syllables such as aaa//bbb and this will have the effect of repetitive 'Advance'.

When the second half of the lyrics line is entered, SipText knows that the first was not complete and lets the user continue, or if he wants, assign the second verse.

Any invalid action will be properly signaled such as:

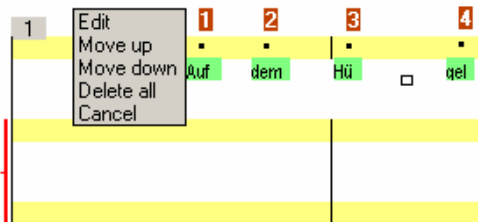


When you entered lyrics but forgot to select the staff to get labels and notes, the text is put in the top left corner as one item. Move it somewhere, select it again, then select the staff and hit Enter again.

6.2. Updating lyrics

Individual syllables can be updated as text items, but it is possible to update an entire lyrics line.

After selecting the lyrics staff, click a second time on the staff and another submenu will roll out:



The 'Edit' choice moves the entire line to the input buffer with separators inserted for update. Pressing Enter replaces the line as if it were newly entered.

6.3. Other lyrics functions

As can be seen in the above submenu, there is the possibility to delete an entire lyrics line at once, including dashes and extenders.

Moving up and down of entire lyrics lines is per vertical step as defined with the main menu Edit > Vertical step.

The main menu's Lyrics offers to align or center all syllables in a file to the nearest note. You can also center all dashes and align all extenders in one go.

To remove individual dashes or extenders, select them with the mouse, then confirm the delete.

When selecting a text item with the right mouse button, the submenu as shown in 5.2 rolls out. When the text is potentially a syllable (lyrics size and below the staff) the submenu has three more options: Dash right, Dash left and Extender for inclusion of these.

7. Kerning

Kerning refers to data included in a font that specifies how to adjust the spacing of a specific pair of characters in a font. The following example illustrates a word that uses kerning, and one with no kerning,

using the default spacing in the font. This example shows pair contraction but in some pairs, extra space is inserted.

WATER with kerning
WATER without kerning

For kerning to be supported, the extension needs to be licensed. The environmental prerequisite for SipText to support kerning is that the Adobe Font Metrics (AFM) files for the kernable fonts are supplied. The kerning and un-kerning features for SipText are herewith explained.

Only horizontal items can be kerned. The spacing factor Code16Par5 is not considered.

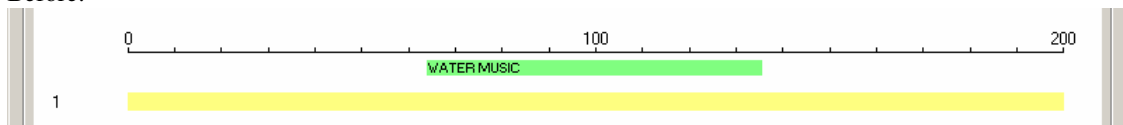
Text items with in-text font prefixes are allowed by the kerning process.

SipText combines the capabilities of kerning with centering and alignment. It is at this point that a design limitation in SCORE turns out to be significant: SCORE allows centering and alignment (CT, JR), but it does not link such attributes to items. Every word processor remembers that a text is centered but there is no provision for this in SCORE and the parameter structure does not allow user attributes. Whenever a staff is rearranged, centered or aligned items belonging to such staff need to be centered and aligned again. For this reason, kerning is the last thing you want to do on a SCORE file. It would be so nice if SCORE remembered editing attributes and to have a visible indicator such as in Word to show alignment attributes by just pointing to a text item. Some of this is overcome in SipText but this is not an ideal world.

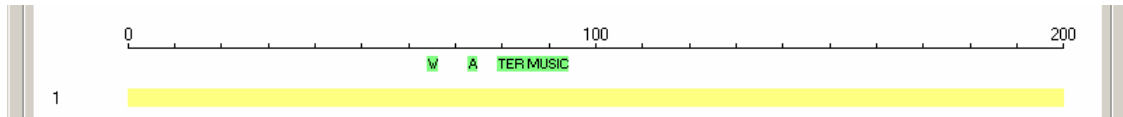
There are commands for individual kerning and for a set of selected files. Those commands on a set of files are controlled by options (see 4.1.7).

An effect of kerning is that because the display font is usually smaller than the actual character width, the result appears cut up. Autosize is set as to avoid backgrounds overlaps of text items. An example follows.

Before:



After:



SCORE result:

WATER MUSIC



The following demonstration shows various kerning/alignment capabilities as well as both un-kerned and kerned text in a SCORE file. The font is Times-Roman.

Left aligned text item AVAVAV

Right aligned text item AVAVAV

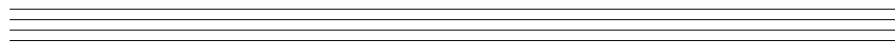
Left aligned text item AVAVAV

Right aligned text item AVAVAV

AVAVAVAVAVAV
AVAVAVAVAVAV

AVAVAVAVAVAVAV

AVAVAVAVAVAVAV



7.1. Current item: kern to its center

The selected item is kerned and the left end of the text is arranged such that the center of the resulting text is the same as the center of the original string.

7.2. Current item: kern to its Par3

The selected item is kerned keeping the original left position.

7.3. Current item: kern to center

The selected item is kerned to the center value (default 100).

7.4. Current item: kern and flush right

The selected item is kerned and justified to the right (default 200).

7.5. Current item: kern and flush left

The selected item is kerned and justified to the left (default 0).

7.6. Current item: un kern with items on right

Adjacent text items resulting from an earlier kern are combined into one item. Note the difference between 'Join' and 'Unkern'. Joining is on two equally horizontal items with any distance in between. The 'Unkern' should be given on the leftmost item to (re)combine all items on the right which are sufficiently close.

7.7. Kern selected file(s)

From the Kerning menu, select 'Kern selected file(s)'. The program checks if files were selected and if the proper AFM files are available. Then it takes each text item and looks if it can be kerned. If so, it cuts up the text item into multiple text items with the Par3 to reflect the correct position. Options control how the result is aligned. Alignment options are:

- Left alignment – the Par3 of the original item is maintained
- Center alignment – the center of the original item is maintained
- Setting alignment – when the end of the text is at the right flush position (default 200) it will right align. Any other situation will align to the leftmost position of the original item.

With the kerning feature, when an item is selected, an additional option rolls out: 'Kern (on)' or 'Kern (off)'. By default, all text items are 'on' but the user may select to make an item un kernable by setting it 'off'. The 'off' status is kept in the text item by setting Code16Par9 to 360 (In fact, this is a SipText attribute in the SCORE rotation parameter without SCORE 'knowing' this). After a kern run, the first selected result file is shown.

7.8. Unkern selected file(s)

Once you have kerned but an item needs to be moved or deleted, it is not handy to address the individual chunks of a text. Therefore, SipText has the Unkern command which does the inverse. However, there is no way to know what the original Par3 was before kerning, so the leftmost text chunk defines the new Par3. Unkerning only happens on adjacent items which have the same Par2, Par4, Par6 and the same font. This feature does not refer to AFM files. Following an unkern run, the first selected result file is shown. Autosize is reset by this command. Note that the 'Unkern selected file(s)' command is available without the kerning extension.

8. Cyrillic

For Cyrillic to be supported, the extension needs to be licensed. Everything which is possible in SipText with Latin script is also possible with Cyrillic. With the Cyrillic extension there are extra features documented here.

SipText itself only uses Windows Cyrillic fonts which can be freely obtained from the Internet. The supported Cyrillic fonts used by SCORE are TimeScore and ScoreCyr.

8.1. Cyrillic Windows fonts

To view the contents of music with Cyrillic text and keycaps, Windows requires two Cyrillic fonts which can be downloaded from Fingertip Software³. These fonts are *Couriere Cyr* and *Timesse Cyr*. Optionally, the program can also use the fonts *Bulgarian Ariel* and *ER Univers 1251*.

Installation of the required fonts must be done prior to installation of SipText. These modern Russian alphabets are shown here with an actual screen sample (Autosize set):

³ Fingertip Software, Universal City, TX at www.cyrillic.com. Download the evaluation copy which remains valid for 45 days. You do not need this program, just the fonts. The fonts remain available once the evaluation period expires. The current name of this package is Cyrillic Starter Kit 5.0.

Couriere Cyr

Иисус, Ты замечаешь каждого из нас
 абвгдежзийклмнопрстуфхцчшщъыьэюяё
 АБВГДЕЖЗИЙКЛМНОПРСТУФХЦЧШЩЪЫЬЭЮЯЁ

Timesse Cyr

Иисус, Ты замечаешь каждого из нас
 абвгдежзийклмнопрстуфхцчшщъыьэюяё
 АБВГДЕЖЗИЙКЛМНОПРСТУФХЦЧШЩЪЫЬЭЮЯЁ

Bulgarian Ariel

Иисус, Ты замечаешь каждого из нас
 абвгдежзийклмнопрстуфхцчшщъыьэюяё
 АБВГДЕЖЗИЙКЛМНОПРСТУФХЦЧШЩЪЫЬЭЮЯЁ

ER Univers 1251

Иисус, Ты замечаешь каждого из нас
 абвгдежзийклмнопрстуфхцчшщъыьэюяё
 АБВГДЕЖЗИЙКЛМНОПРСТУФХЦЧШЩЪЫЬЭЮЯЁ

To see which Windows font is selected for keycaps, point to the space bar and a tooltip gives two font names: the intended and the actual font name. This is a way to check that the Windows fonts was properly installed and activated (which is done after a cold start in Windows98. When not shutdown and restarted after installing Windows fonts, the Cyrillic keyboard on the screen will show Latin accented letters).

The filenames of the Cyrillic Windows fonts are:

BUARIL.TTF Bulgarian Ariel
 UN1251N.TTF ER Univers 1251
 FSCOUCY.TTF Couriere Cyr
 FCTIMCY.TTF Timesse Cyr

Note that the latter two fonts are mandatory for SipText with the Cyrillic extension. These files are on the delivery medium (folder FontsWindows). Check font installation by looking at the Insert > Symbol panel in Word after selecting the fonts. There should not appear squares in stead of Cyrillic characters. When there are squares, installation failed. In that case erase the TTF's, then download and install the Cyrillic Starter Kit from Fingertip Software.

8.2. Cyrillic Score fonts and keyboards

The user must decide which SCORE font to use. Currently there are the fonts TimeScore, made available by Sergei Lebedev and ScoreCyr, used by Matanya Ophee. SipText works with both fonts. TimeScore consists of a family with bold, italic, and bold-italic variants. The TimeScore family is documented in the article *The Cyrillic TimeScore family of fonts* at www.dekloe.be and on the installation medium. The SCORE fonts need to be assigned a font number of choice. Since fonts are selected by name it does not matter to SipText which numbers are assigned.

In theory, any supported Cyrillic keyboard works with any of these Cyrillic SCORE fonts though practice dictates otherwise: work with either TimeScore and keyboard Russian Lebedev or ScoreCyr and keyboard Russian Standard. It is however perfectly possible to mix the Cyrillic SCORE fonts in one file, or even in one text item.

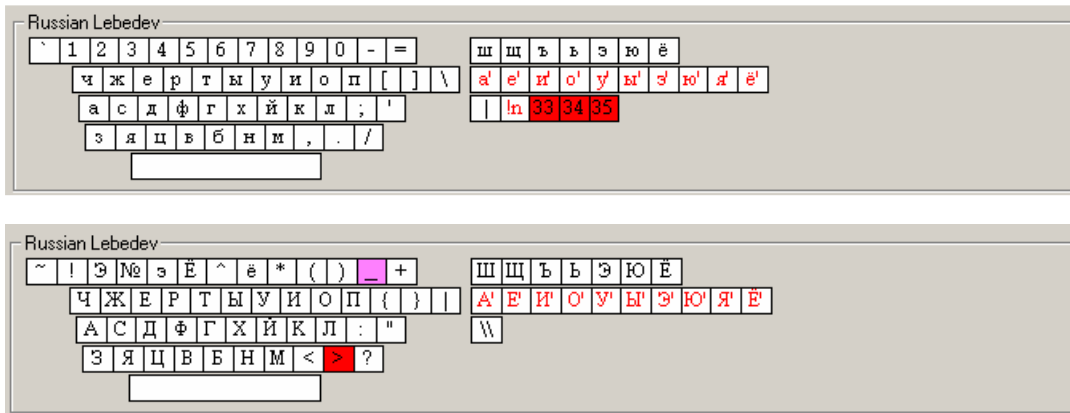
8.2.1. TimeScore

This family of fonts is usually input with a Latin keyboard and the keys are based on phonetic or visual resemblance with the Latin alphabet.

абвгдежзийклмнопрстуфхцчшщъыьэюя ё

АБВГДЕЖЗИЙКЛМНОПРСТУФХЦЧШЩЪЫЬЭЮЯ Ё

Select the Russian Lebedev keyboard to be drawn and you can enter characters via the physical keyboard and the drawn keyboard. Shown here are the lowercase and uppercase keyboards:



The red foreground keys represent characters which cannot be visualized by Windows but these are shown in a large rectangle when the mouse moves over the key. The red background keys indicate absence of the characters with octal values 333, 334, and 335 (breve, bullet, acute) in the selected TimeScore font (TimeScore-Bold). The purple key denotes that the character is existing in the font but it misses the appropriate adaptation in the FONTINIT.PSC file. See the article for details. The ‘\’ button is provided to enter octal values. Note that the backslash as such does not exist as a one-character encoding in TimeScore and you cannot enter the octal prefix via the physical keyboard. When followed by three octal digits, the \ is kept ‘as is’.

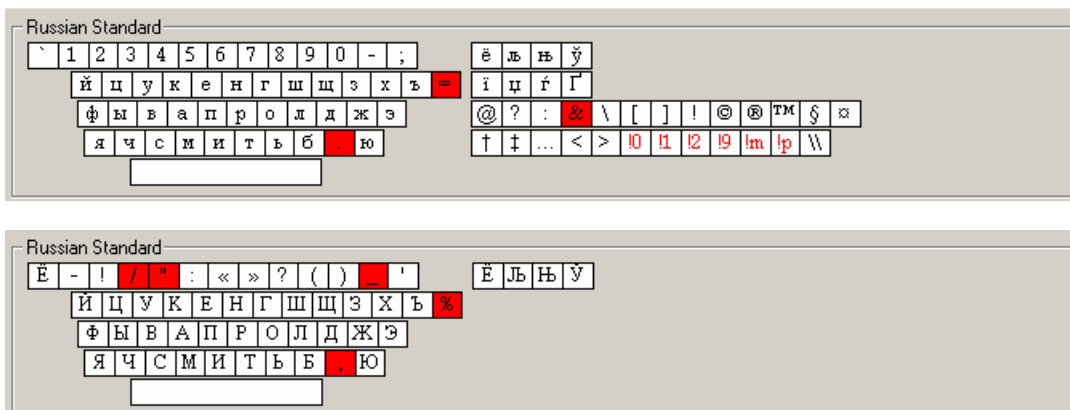
8.2.2. ScoreCyr

This font is used with a Russian Standard keyboard. It is fully documented in the article *The ScoreCyr Cyrillic font for use in Score* at www.dekloe.be and on the installation medium.

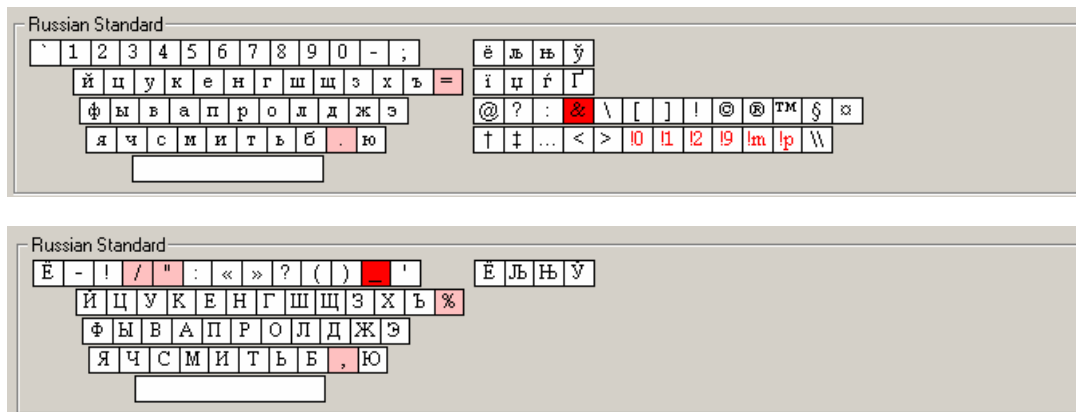
абвгдежзийклмнопрстуфхцчшщъыьэюя ё

АБВГДЕЖЗИЙКЛМНОПРСТУФХЦЧШЩЪЫЬЭЮЯ Ё

The drawn keyboard looks thus (lowercase and uppercase):



As you see, some non-Russian Cyrillic characters are provided through this keyboard/font combination. The red background keys are characters missing from the font. To make those in a Latin font, set the option ‘Allow Latin characters in Cyrillic’. Then the keyboard will look like this:



where the pink keys when used, automatically change the font prefix in the text for the duration of those Latin characters. Exercise extreme care updating strings with in-text font changes.

The ‘\’ button is provided to enter octal values. Note that the backslash as such does not exist as a one-character encoding in ScoreCyr and you cannot enter the octal prefix via the physical keyboard. When followed by three octal digits, the \ is kept ‘as is’.

8.3. Other SIP utilities for Cyrillic

The free utilities in the SIP collection which can come in handy when using Cyrillic fonts are:

SipFind – find SCORE music files with a Cyrillic string of characters. The search string is to be pasted into the field (TimeScore family of fonts only). Case sensitive or insensitive, with or without ‘?’ wildcard(s), whole word or part, date range.

SipAnlib – to quickly see which Cyrillic fonts exist in the SCORE environment with their font number.

SipEdit – to change a particular font number in a range of files.

See the applicable descriptions.

9. Installation of SipText

The software is delivered on a CD prepared for standard setup with Windows. In addition to the software there are various other files on the installation medium. Consult the README.TXT file for instructions that did not make it to the User Guide.

9.1. Licensing

A simple asset protection scheme is included. SCORE files have the license identification of the owner. SipText has the owner’s license number included at compile time and verifies that input files have this same identification, or the identification of the supplier as to allow sample files to be processed. Output files always have the owner’s identification. When a user reads a SCORE file with Cyrillic text but he does not have the Cyrillic extension license, then this file cannot be processed.

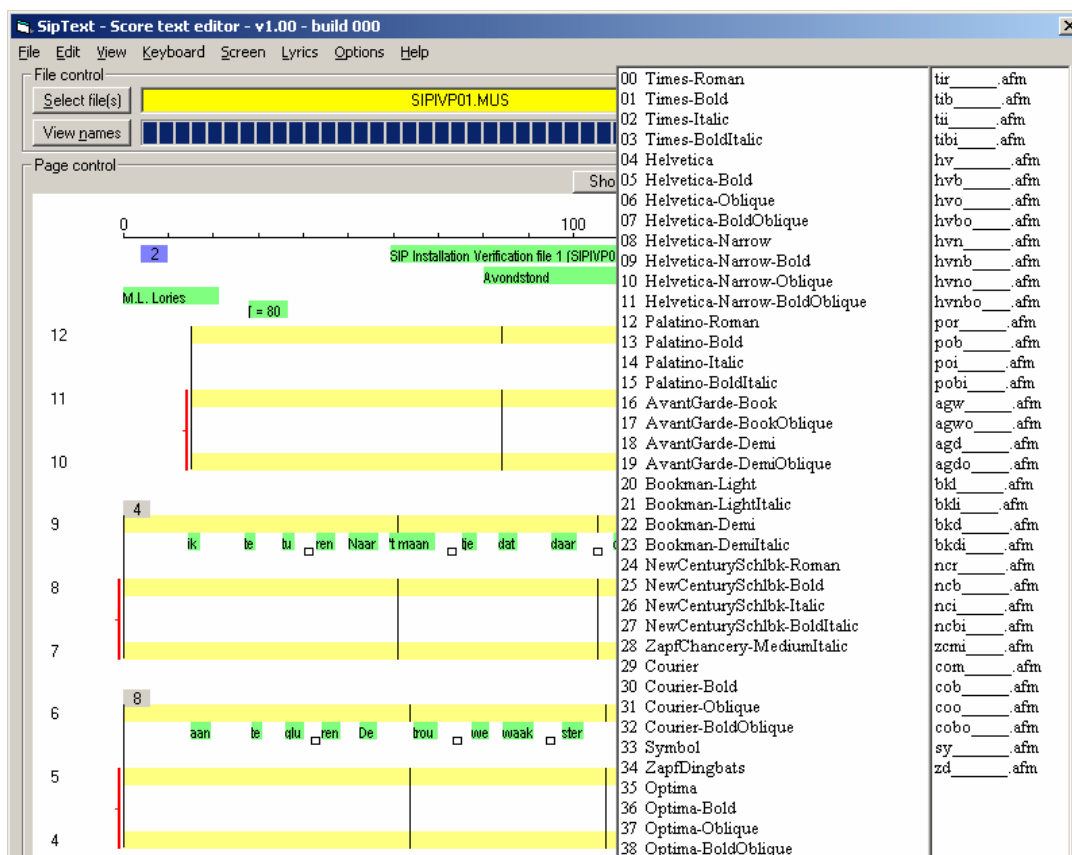
9.2. AFM files

Adobe Font Metrics files exist for the ‘basic 35’ fonts. In principle, the standard PSC files have information obtained from AFM files but experience from various SCORE users indicates that at least the currently available AFM files show differences with the PSC files that come with SCORE.

AFM information is used to compute the width of text in centering, flushing, and placement of lyrics, dashes and extenders.

SCORE only obtains metrics information from its PSC files. SipText however will first see if the relevant AFM information is present and use it as it seems to be more complete and accurate than the default PSC files. Only when no AFM file is present for a font, will SipText establish metrics from PSC’s.

When kerning is used, the presence of AFM files is mandatory since these define kerning pairs. To see that the files are indeed installed, click the font prefix field in the Text control frame:



Close the list by clicking in it.

9.3. Documentation

The current document is copied to the delivery CD, as well as the articles *The Cyrillic TimeScore family of fonts* and *The ScoreCyr Cyrillic font for use in Score* in both Word and PDF format.

9.4. Demonstration files

The following files may be used to test the functionality:

SIPV01.MUS and SIPV02.MUS	these come with every SIP delivery
00OCTAL.MUS	octal values 000-377 in Times-Roman
49OCTAL.MUS	octal values 000-377 in ScoreCyr
50OCTAL.MUS	octal values 000-377 in TimeScore
49CYRTST.MUS	full character set in ScoreCyr
50CYRTST.MUS	full character set in TimeScore (contains fonts 50-54)

To use the latter four files, the user needs to equate the font prefix number to his font assignment. Only the IVP (Installation Verification Procedure) files are automatically moved to the SIP directory by the installation procedure (SIPV01.MUS and SIPV02.MUS). The others may be copied from the delivery medium.

9.5. Loading fonts to the printer

Fonts not belonging to the 'basic 35' set need to be loaded to the printer with common tools. This is outside the functionality of SIP.

9.6. Bitmaps

Like SCORE, SipText has a library of symbols. These symbols are used to visualize those characters that do not have a Windows equivalent in a common font.

After installation of SIP, the folder SipBitMaps needs to be created and the bitmaps from the installation medium have to be moved there. When at execution, SipText does not find these bitmaps it will provide the name of the path where it expects these.

9.7. Installation sequence

- Optional when you want to use AFM for the basic 35 fonts and/or your own fonts, mandatory when kerning is used: Create a folder with these fonts. The basic 35 are on the delivery medium (zipped, folder FontsScore).
- Install SIP with the standard setup.
- Create the SipBitMaps folder. Execution of SipText will tell you where. Move the bitmaps from the delivery medium to this folder.
- Assure that you have the Cyrillic PSC file(s) in the SCORE library.
- These are included (assigned to 49 for ScoreCyr and 50-54 for TimeScore) on the delivery medium (folder FontsScore).
- If you want to use these and the demo files, assure that the font numbers match.
- Install the Cyrillic Windows fonts Couriere Cyr and Timesse Cyr.

10. Current restrictions

The following is a summary of known restrictions which may be lifted in a future version of SipText:

- the character %%Y cannot be selected as a graphic character;
- built-in fonts 90-94 and those above are not supported;
- Outline font is not completely implemented;
- An Undo function is not implemented;
- CODE9.DAT text is not considered;
- Capability to work with character sizes in points independent from staff size remains to be implemented.

The realization of extensions is controlled by demand and capability.

11. The Profile

There is no need to set parameters in the profile file SIPTTEXT.PRO through a text editor as all entries are controlled by the graphical interface. The following is a sample profile:

```
* SipText profile - generated 03-17-2004 at 13:57:54
* v1.00 - build 006
* Part 1
Keyboard=English US
AllowUnderscore=0
AmpersandReplacement=undefined
OutlineFont=False
FullKeyboardPanel=False
AllowLatinInCyrillic=0
InsertLatinFont=_00
UppercaseAsBold=False
PreferedKeyboardLatin=English US
PreferedKeyboardCyrillic=Russian Lebedev
PreferedKeyboardGreek=undefined
PreferedKeyboardHebrew=undefined
PreferedKeyboardArabic=undefined
PreferedScreenLatin=Small Fonts
PreferedScreenCyrillic=Couriere Cyr
PreferedScreenGreek=undefined
PreferedScreenHebrew=undefined
PreferedScreenArabic=undefined
InputBufferSize=large
VerticalLyricsSpace=4
* Part 2
VisualBeep=500
GreaterInTimeScore=False
BreveInTimeScore=False
BulletInTimeScore=False
AcuteInTimeScore=False
BreveInTimeScoreBold=False
BulletInTimeScoreBold=False
AcuteInTimeScoreBold=False
* Part 3
HorizontalEditAlignment=1
VerticalEditAlignment=1
ValueCenter=100
```

```

ValueLeftFlush=0
ValueRiteFlush=200
Autosize=False
Ruler=True
TimeScorePreferenceIO3=True
TimeScorePreferenceIO1=False
SuppressMissingWindowsFontsMessage=0
KernAlignLeft=True
KernAlignCenter=False
KernAlignSetting=False
SplitSeparator=*
ExtenderNoteEnd=3
ExtenderStaffEnd=-2
DashLeftSpace=4
VerticalDashOffset=-0.8
VerticalExtenderOffset=0
BigTooltip=True
ActivateDiadTranslationK=0
ActivateDiadTranslationS=1
PageOnSideDisplacement=3

```

12. Change history

Version	nature of change	date
1.05	Finnish keyboard, keyboard diads, screen size to help, big tooltip	March 13, 2004
1.06	Page number center/align	March 17, 2004