HIEROGLYPHICA

version 1.0.4.8

Content

About

Hieroglyphica is intended as an implement for searching hieroglyphs in the integrated hieroglyphic catalog and performing short hieroglyphic inscription or vast hieroglyphic texts in vector mode, i.e. to copy and paste images and texts to another application.

The principles of the operation are similar to Photoshop®, i.e. hieroglyphs are not font characters, but standalone objects, so any user can place them as they are originally presented in inscription regardless of the height of lines, number of signs in a group, representation of crossword graphics or circular line running along the edge of the bowl etc. Operations with hieroglyphic signs available are as follows: move around a worksheet, group, change orientation and color (black, grey, red), hatch (to indicate a damaged area of the source), scale and rotate. Moreover, the program has the text editor to insert texts or any other symbols into hieroglyphic inscription. Manuel de Codage option allows importing texts from the files in the MdC-format.

Local Install

1. Download the distribution of the latest version from our site http://www.hieroglyphica.com/;
2. Unpack and run.

Network Install

1. Download the distribution of the latest version from our site http://www.hieroglyphica.com/;
2. Unpack and run.
3. Download the Firebird Server (version 1.5) from https://sourceforge.net/projects/firebird/files/
4. Install and configure the Firebird Server;
5. Copy *"C:\Program Files\Hieroglyphica\hc.gdb"* to the folder on your database server;
6. Open *"C:\Program Files\Hieroglyphica\config.xml"* by your favourite editor, edit the connection tag:

   <connection
       server="remote"
       server_name="192.168..**"*
       protocol="TCP/IP"
       database_file="c:\Hieroglyphica\hc.gdb"
       user_name="SYSDBA"
       password="masterkey"
   />

   Usually, you need only to change *server_name* and *database_file*.

7. In a case of any problem run the Application as Administrator under the Compatibility Tab. Under the Shortcut Tab click on Open File Location which takes you to the C:\Program Files\Hieroglyphica folder. Right Click on the Top Folder Name and select Properties, Security Tab select Advanced Button, select the "Users, Groups or whichever" and select Edit (ensure that the "Include inheritable permissions from this object's parent" Check Box is checked), select Permissions: Full Control, click OK, Apply, OK.

Requirements/Technologies

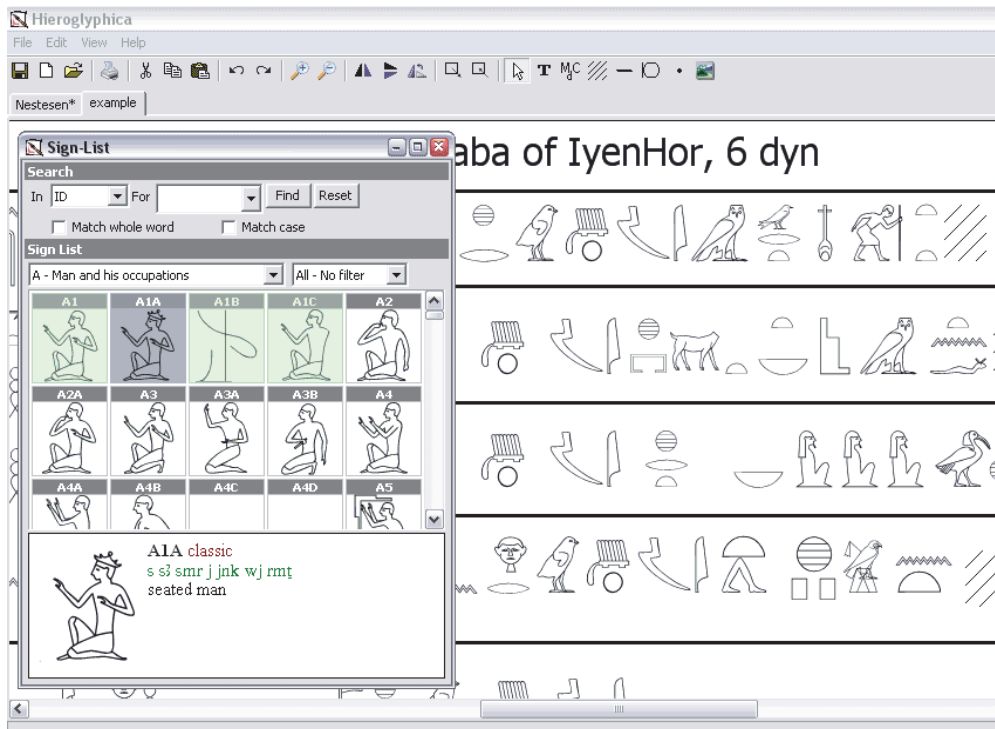|	
Program interface:	English
Target Audience:	Science/Research
Programming Language:	C++, WINAPI
Operating System:	Microsoft Windows Linux (via Wine)
Database:	Firebird SQL 1.5 Server
License Of Use:	Free Software
Network Usage:	Available

Notes

- Print - for the best quality use PostScript printer driver instead of PCL.

- The program has been tested with Microsoft Office.

- In special cases Windows 8/10 requires to select "Run as administrator".

Operation

Start the program.
The work area of the program presents separate text files with .hcdf file extension.
To open a file choose File > Open in Hieroglyphica or open it from your file system. You may open several files simultaneously to copy images and texts from different sheets via Clipboard.

Open the sign-list (F9).

Choose a sign from the catalogue (by scrolling or by search), emphasize by the cursor.

To insert a sign in a document left-click the sign, then left-click the place you want to paste to inside a document.

To move a sign around the worksheet use mouse or arrow keys.

To move a sign group drag a box around (ctrl+left mouse), or drag the signs separately (shift+left mouse).

To change the size of the sign set the cursor position on the select box and zoom in (zoom out) the sign by the mouse in any direction. Use also the key combination shift+arror (Left Arrow key and Up Arrow key – reduction, Right Arrow key and Down Arrow key - enlargement).

You may place one sign on another, rotate the sign right-left, change it's color (black, grey, red), hatch the sign (to indicate the damaged signs in the inscription).

The size of the sign is set by default in the sign properties in the sign-list.

Sign-list

About 800 signs are supplied with the description (name, transcription) based on A.H. Gardiner's Egyptian Grammar. In some cases the phonetic value of the sign (the data for field T (Transliteration.ttf) and U (Umschrift.ttf) given by A.H. Gardiner has been enlarged or corrected. Please note: since Sign Properties contain two Transcription fields filled in by different fonts: Transliteration and Umschrift, for searching within it select in Option a font type.

The current version contains groups "Gardiner", "Classic", "Late" (signs could be classified according to the user's preference). The classification serves as a filter for browsing the sign-list. The users could customize each catalog on their own principle.

Sign search is performed by mask, with "Match Case" / "Match Whole Word" options, with a filter of the cataloges and applied to the following fields:

- ID – code of the sign ("A1", "M174A" etc.)
- Name – definition of the sign ("man with…")
- Transcription – phonetic value of the sign («jt», «pr»)

The searching field stores the most recent values.

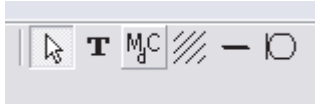Classification Groups/Filter Flags in the Sign Props: "Gardiner", "Classic", "Late":

You may include signs to any of these groups and use appropriate filter when browsing the sign-list.

Please note: Transcription of all proper names is given with lower-case letter (i.e. to search "jmn" do not type Jmn in search line).

Manuel de Codage

"Manuel de Codage" field is included in the Sign Properties, you can fill it in and use later for the text oriented signs input. To add signs click the "MdC" button in the tool bar.
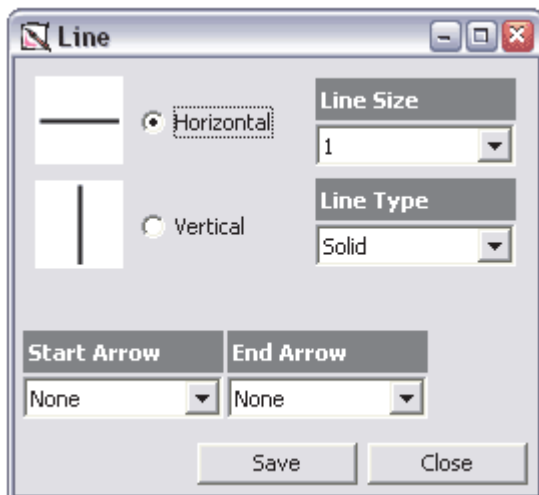
Type the sign codes: "**i-r-q:n-A24-n:k-T12-A24-ib:Z1-k**" and click the Save button, you will get the following result:

You may copy texts from the other programs which save documents in the "Manuel de Codage" format.
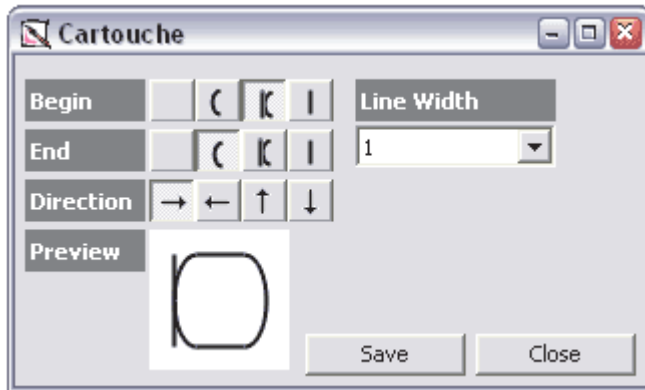
How to Draw a Line

1. Click the Line button in the Toolbar. Move the insertion pointer (Cursor) to the desired position and activate by left-click.
2. Double-click on the position of the insertion pointer (Cursor) in the work area. The Options dialog box appears to customize the line properties (type, size, line width).
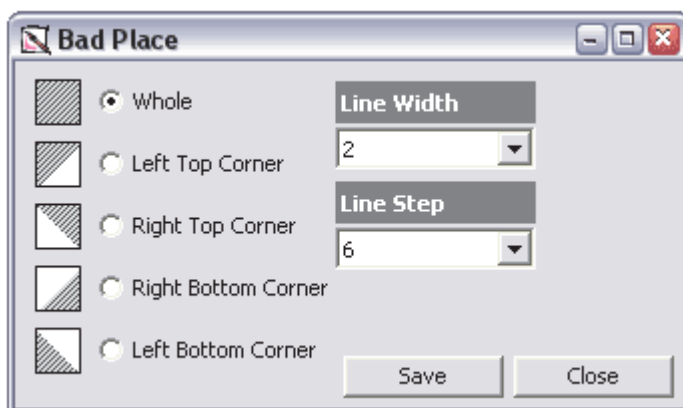
How to Change Properties of the Cartouche

1. Click the Cartouche button in the Toolbar. Move the insertion pointer (Cursor) to the desired position and left-click.
2. Double-click on the position of the insertion pointer (Cursor) in the work area. The Options dialog box appears to customize the cartouche properties (direction, line width etc.).

How to Indicate (by hatching) a Damaged Area

1. Click the Hatch button in the Toolbar. Move the insertion pointer (Cursor) to the desired position and left-click.
2. Double-click on the position of the insertion pointer (Cursor). The dialog box appears to customize the hatching properties (type, line width).

How to Change Zoom level

1. To change zoom level of the work area use shortcut buttons in the Tool bar:

   - **Zoom in** command will enlarge the work area. This action can also be performed with the hot keys Ctrl +.

   - **Zoom out** command will reduce the work area.

2. To change zoom level of the sign (image) or several signs grouped in one image click the sign and then use the shortcut buttons in the Tool bar:

   - **Scale selected up** command will scale selected signs/images up.

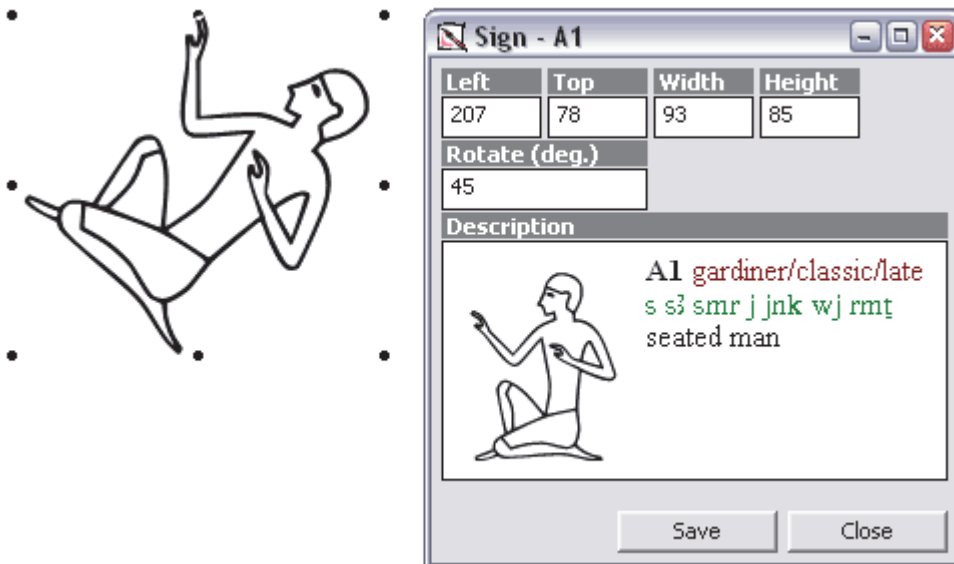   - **Scale selected down** command will scale selected signs/images down.

Sign

Open the sign-list (F9).

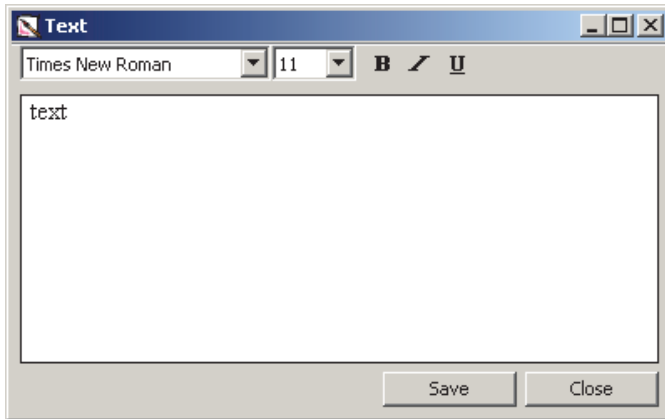Choose a sign from the catalogue (by scrolling or by search), emphasize by cursor.

To insert a sign in a document left-click the sign, then left-click the place you want to paste to inside the document.

To edit double-click a sign and change the size in Sign Properties form or rotate it as requested.
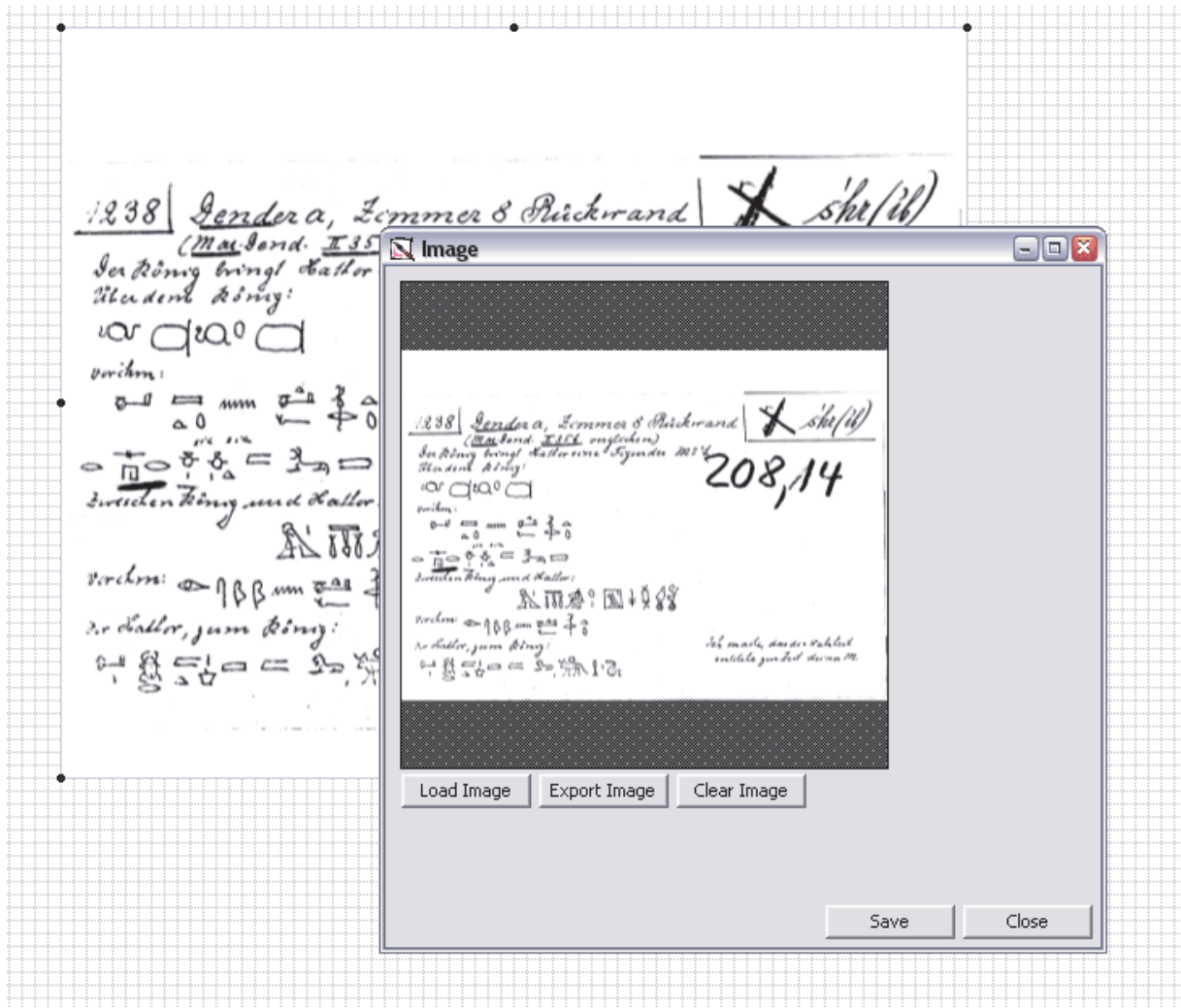
Text

1. To type the text click the button **T** in the Tool bar. Move the insertion pointer (Cursor) to the desired position and left-click.
   The Font format is customized by default in menu Tools/Options. For one text object only one Font type and Font size is used.
2. To set the text with another Font type or Font size choose another text object.
   It is displayed as sizable/movable graphical object. To change the text double-click the object.

The text editor permits to apply symbols of "Egyptian" fonts used in other programs. The signs and fragments could be copied to Ms Office programs by Clipboard as a painting insertion.

Image

3. To add an image click the [image] button in the Tool bar. Move the insertion pointer (Cursor) to the desired position and left-click.
4. Then click the Load Image button and select the image.
   The image is displayed as sizable/movable graphical object. To change the image double-click the object.

Import / Export

You can import/export signs and documents in BMP, GIF, JPEG, TIFF, PNG formats.

Import/export is available for:

- Sign list

- Image Object

- Sign Object

- Document

Options

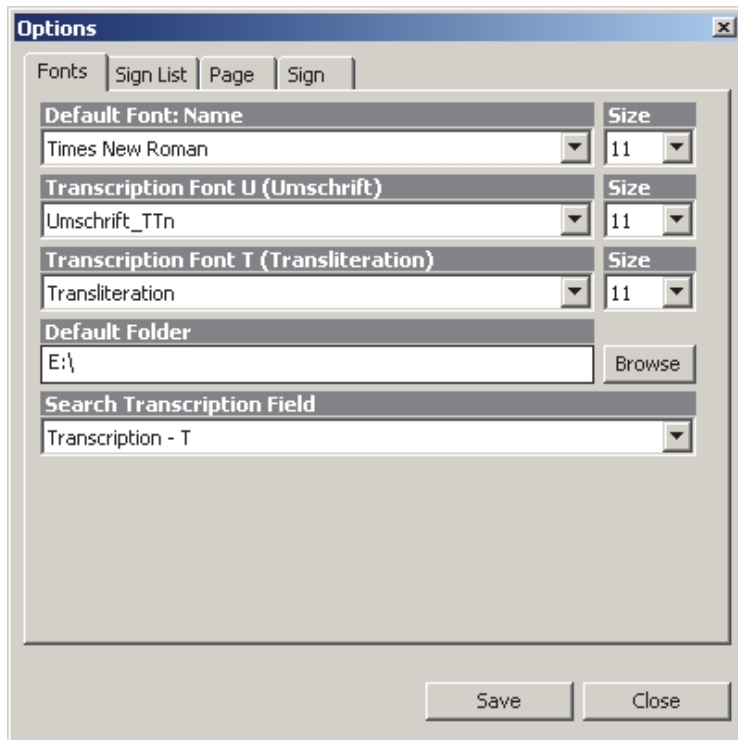**Fonts** – customize default font for the Text object;
Default folder – specify path to the File Folder to store files created in the program;
Search Transcription Field – define Font type to be used in searching by Sign-list;
Sign-list – customize sign sizes to be displayed in the Sign-list directory;
Sign – customize sign sizes to be displayed in the work area;
Page – customize default page size and scale.

New signs

If you add new signs in your local Hieroglyphica database, please sent us their copies to enlarge the catalogue.