CLASUS ®

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a_migo

A-migo Software

ÍNDICE

1. Introduction

The A-migo application was conceived to be the ideal compliment to the Clasus Interactive Board. It is the result of an intense development project which continually focused on the adaptation of the final application to the necessities of the potential user.

Its specification was refined in detail, conjugating the statements and opinions from users of diverse profiles. All of the work was supervised by the Clasus team, with active participation of agents from universities and companies in order to obtain a final result as close to perfect as possible.

The result is a product with special characteristics that in conjunction with the ease of use, provides a noteworthy set of specific tools. In the organizational environment, it can be used to innovate work methods while stimulating efficiency. In the educational environment, it should be taken for a test drive. The results will speak for themselves.

It must not be forgotten that this document is a mere introduction to the capabilities of the application A-migo. The complete performance will be obtained with the optimization of your work throughout the exploration of the available tools.
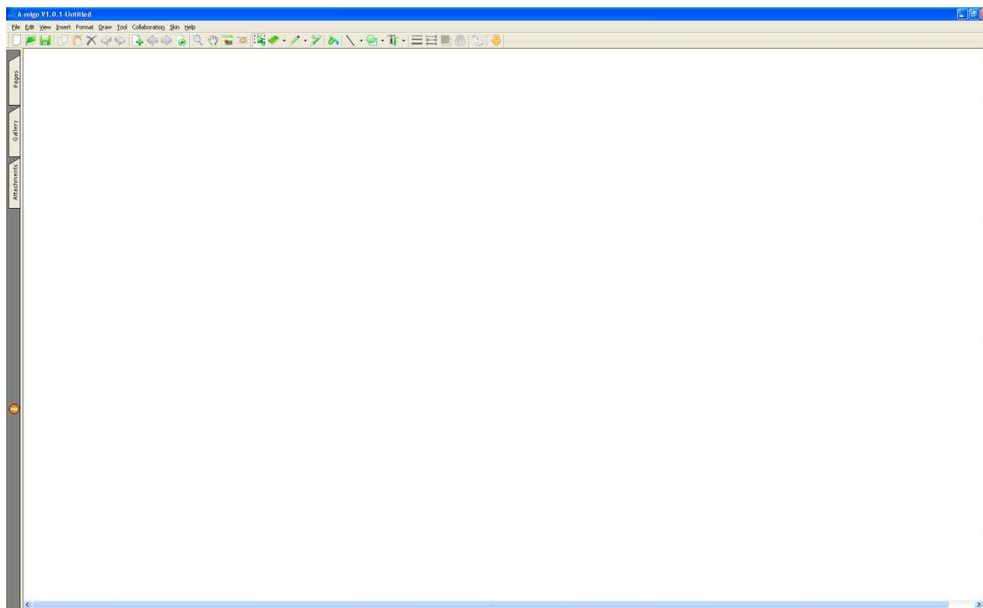
2. Some scenarios

- Create your traditional slide presentation using the A-migo application as support. During the presentation, interact while making corrections and notations about the slides. In the end, automatically send by email a copy of the presentation with the notations to all of the viewers. You wont need to concern yourself with this process. The A-migo application will work autonomously to present the final result.
- If you prefer, as an alternative to e-mail, automatically publish the presentation on your company's or school's web server.
- Use the advanced tools to teach Geometry, Graphic Computing, or other subjects. The ruler, the protractor, and the compass will leave you marveled with the flexibility of the available options.
- At the end of your Geometry class, order the A-migo application to reproduce each of the pages that you have created. In just a few minutes you can automatically create a summary of the presented resources.
- Create your presentations directly in the A-migo application, without the need of an additional application. All the typical funtionalities of this type of solution is available, as well as other special tools, such as the curtain, the magnifying glass, or the floodlight.
- Define limitless individual use profiles. Customize your work environment. Choose which tools to place in the custom floating toolbar, include external additional tools, and configure pens as you prefer, or even create a gallery of personal images. Don't worry about who uses the board and has different tastes or needs. When you return the A-migo application remembers your preferences and will automatically replace them.
- Use the capabilities of automatic recognition of characters and geometric figures to empower your work.
- Don't feel limited. Include multimedia files of different types in your presentation, interact with them in real time, and inversely, export the final result to *Portable Document Format* (pdf), image, or Office formats.
- Use the network communication capabilities to create collaborative sessions over the Internet. Interconnect two systems installed in remote locations and use the video-conferencing and collaborative work capabilities to shorten the distance between users.
- ...in addition to many others that you will discover when using the A-migo application. The reality is that the flexibility is such, that each user tends to discover his/her form to use and explore it.

3. Interaction Modes

The A-migo application can be used as any other generic application, in "Windows Mode". In this situation an interface similar to the one reproduced below can be used.

This should be the main operating mode when presentations are being created. The true power of the application A-migo is revealed when operating the "Control" and "Annotation" modes. To exit the "Window" mode, press the button on the tool bar.

In the "Control" or "Annotation" modes, the application's primary window is hidden, leaving the work space free for total interaction. The only interface that will be seen in this situation can be summarized as the Floating *toolbar* as represented below.

Note the four upper buttons on the toolbar. The button selected permits entrance into the "Control" mode. This option should be selected whenever the user wishes to interact with the operating system or other running applications. In this mode the digital pen will behave as a pointing device – similar to a traditional mouse, but capable of functioning by absolute position.

When the button is pressed, you will enter the "*Annotation* " mode. In this mode it is possible to experiment all the power of the A-migo application. Use the pens to write or to highlight any portion of the content, write text over text, activate the compass or protractor to design or take measurements of didactic web applications or slides in a presentation, or perform many other operations using your imagination. The A-migo application gives you all of the ability to test your limits.

Returning to the original interface of the "Window" mode is easily accessible by using the button . All the annotations that have been made will be automatically saved. The A-migo application will then make available to you a presentation that can be printed directly, stored in a variety of formats (pdf, ppt, doc, jpg, ...), sent by email, or transformed into html pages for direct publishing on a web server.

The last mode "Full Screen" can be activated with the button . The presentation can then be shown without any visible interface elements.

Additional notes:

Your work is never subordinated to a unique mode of operation. You may freely alternate between the different modes during a single session. The A-migo application will accumulate the results of all stages.
At any moment, the lateral toolbar of the Clasus Interactive board may be used to perform the same basic functions as those made available in the floating toolbar. The interface was constructed in a coherent manner, and the association of each icon to its respective function has been obtained in a direct fashion.

4. Menus and Options

4.1. File

Menu File

The "File" menu contains the functionality typically found in other applications. It provides the options to manipulate files, preview printing and export presentations. The exports can be made to files in diverse format, such as those with the extensions PPT, DOC or Portable Document Format (PDF). In addition this menu provides the capability for direct publication of the presentations on a web server for availability over the Internet, or for automatic mailing via email.

```
New
Open
Save
Save as...
────────────────
Autosave...
────────────────
Print Preview
Print
────────────────
Export as Image...
Export as Web Page...
Export as Resource...
────────────────
Email...
────────────────
Exit
```

New

Affords the creation of a new presentation.

Open

Permits the selection and opening of an existing presentation - in formats BTX, PPT, DOC, XLS, PPT or PDF.
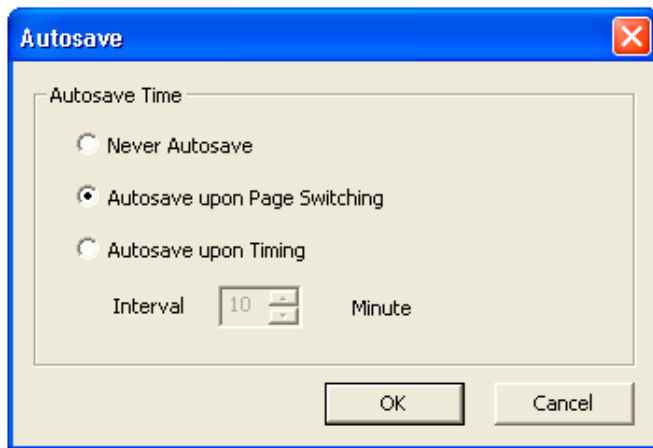
Save

Saves the current presentation.

Save as

Saves the current presentation in a different file with a name and a location to be defined.

Save Automatically

Allow the user to define the different automatic saving options of the active presentation. The functionality associated with each option is explicit. Observe below an example.
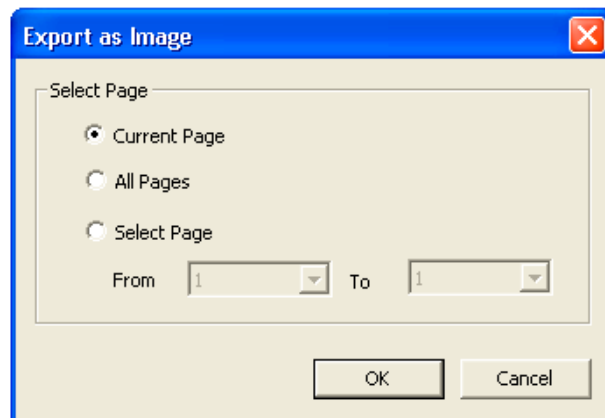
Print Preview

The option opens a traditional window, in which the preview of the print layout can be verified for printing.

Print

Order the printing of the active presentation.

Export as image

This option is indicated in order to transform presentation slides in a set of image files in JPG format. Select only the range of pages to export in the window presented and reproduced below.
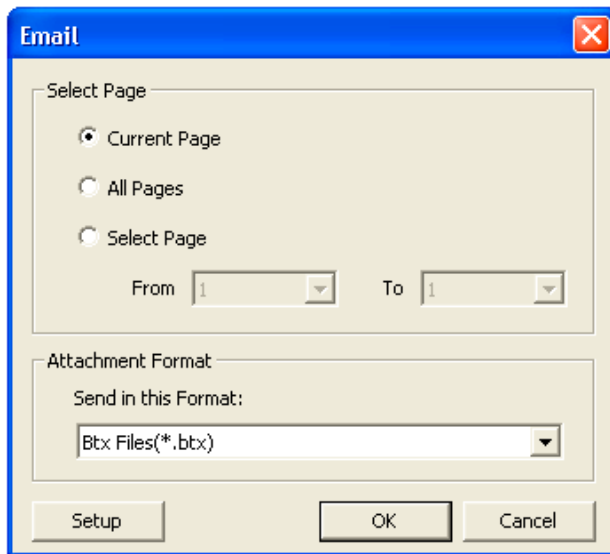

Export as Web Page

This option in many cases is of great utility. In reality, although the only request made by the A-migo application is the name and location of the index file to be created, the result will be a complete and structured site with page indexing, where the presentation will be presented.
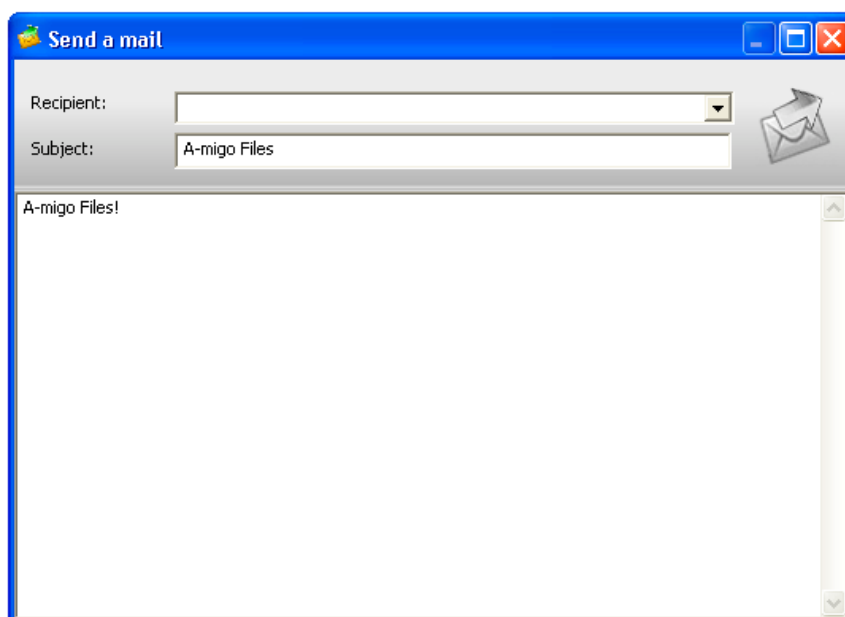
Export as an Object

This option permits the export of pages as a native object. A file will be created where all of the page properties and objects contained will be preserved. later, this object can be inserted in another presentation without losing any of its characteristics or functionality.
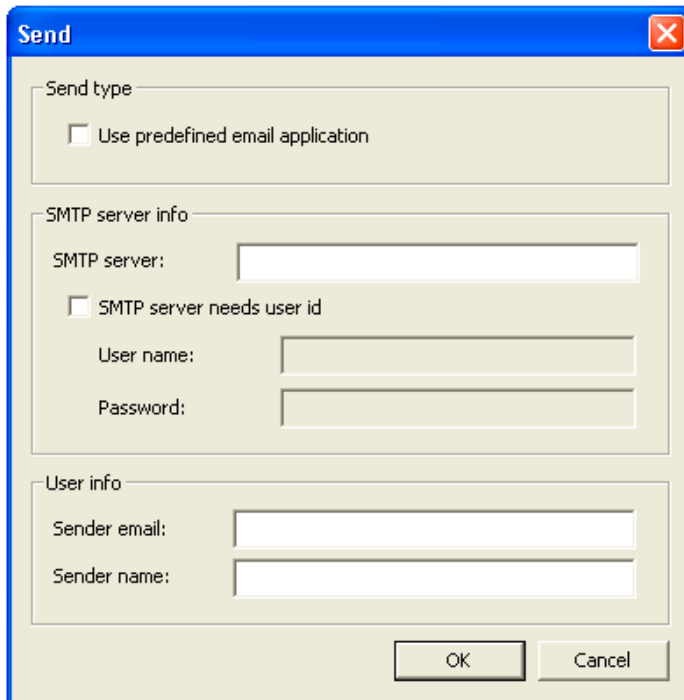
Email

The possibility to send the active presentation by email can be equally of notable utility. Consider for example that a meeting has finished in which a presentation was used, and upon which various notations were made. If it is necessary to make this information available to participants in the meeting, you can simply email them the final presentation. All of the notation operations can be reviewed, including in a sequential form. The process, as is typical in the A-migo application, is extremely simple. Select only the pages to send, the format of submission, and:

- You can automatically open the application from the the client e-mail (*Microsoft Outlook* or *Mozilla Thunderbird*, for example) with a new message containing the information selected as an attachment;

- A generic window for the insertion of the message text and recipients list can be shown and the A-migo application can take care of the sending process. Observe an example in the image reproduced below.

The form of delivery is defined in the actionable window using the "Configuration" button.

Exit
Terminates the execution of the A-migo application.

4.2. Edit Menu

Edit Menu

The "Edit" menu groups presentation editing operations. Here the movements of content with the transfer area of the operating system are included, such as copy, cleaning or elimination of pages.

Undo

Undo the last action performed.

Repeat

Repeat the last action performed.

Cut

Remove the selected objects from the presentation, copying them equally to the transfer área.

Copy

Copy the selected objects to the transfer area.

Paste

Recover the objects in the transfer area, gluing them to the current page.

Clone

Create clones of the selected objects, pasting them equally on the current page.

Delete

Simply delete the selected items.

Select All

Select in one single operation all of the objects on the page.

Clear Page

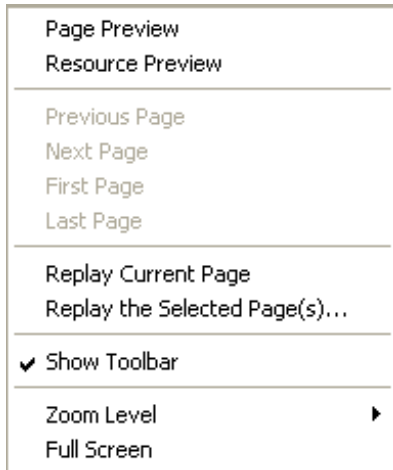Remove all of the objects inserted or created on the selected page.

Delete Current Page

Delete the current page of the current presentation.

4.3. View

View Menu

The View Menu provides access to operations that permit the navigation within the pages of the presentation, or to control the form in which the presentations are viewed.

```
Page Preview
Resource Preview

Previous Page
Next Page
First Page
Last Page

Replay Current Page
Replay the Selected Page(s)...

✔ Show Toolbar

Zoom Level              ▶
Full Screen
```

Page Preview

Open the lateral toolbar for preview (*of*) the pages and to navigate. Select a page on the lateral toolbar to go directly to it.

Preview Gallery

Shows the toolbar with the gallery preview.

Previous Page

Turns the previous page into the current page.

Next Page

Turns the following page into the current page.

First Page

Turns the first page of the presentation into the current page.

Last Page

Turns the final page of the presentation into the current page.

Repeat Current Page

The A-migo application has the ability to save the sequence of operations performed during the creation of each page. To review this sequence as though it were animated, select this option. This capability can be extremely useful in school environments. If, for example, a professor uses an electronic pen to solve an equation on the interactive board, the students can later review the resolution step-by-step. All of this without the need of any extra work for the teacher.
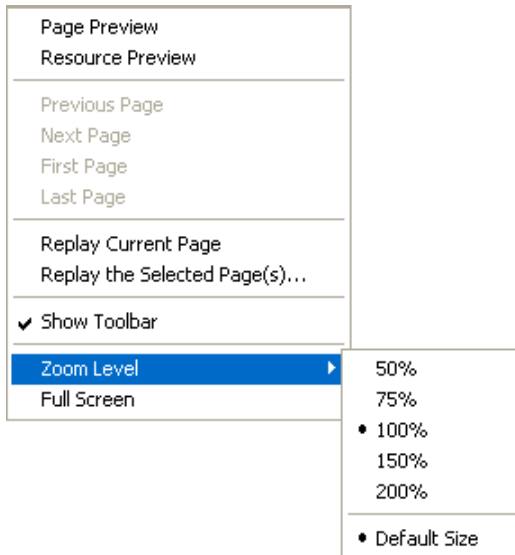
Repeat Selected Pages

Repeat the operation described above for the sequence of selected pages.

View Toolbar

Shows or hides the A-migo application toolbar.

Zoom

The "Zoom" option permits the selection of the magnification level of the image on the screen. The options are those represented in the below image.
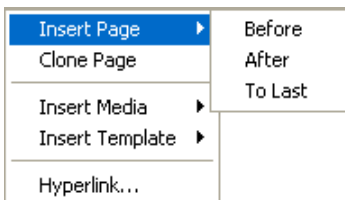

Full Screen

This option hides all the menus and toolbars of the A-migo application, permitting the presentation to be viewed in the entirety of the screen.

4.4. Insert

Insert Menu

The "Insert" menu provides for the addition of diverse resource types to presentations. New pages, blank or created from copies of prior pages, models applied as page backgrounds, multimedia content, or hyperlinks for new pages or external resources can all be included.

Insert Page
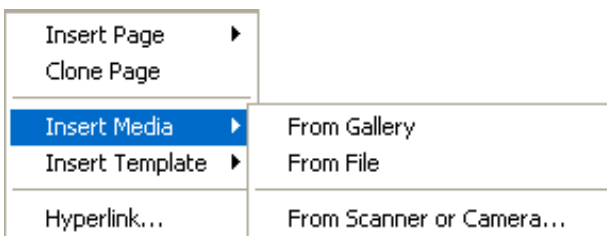

Before   Inserts a page before the current page.
After   Inserts a page after the current page.
Last   Inserts a page after the last page.

Clone Page

Insere uma cópia integral da página actual.
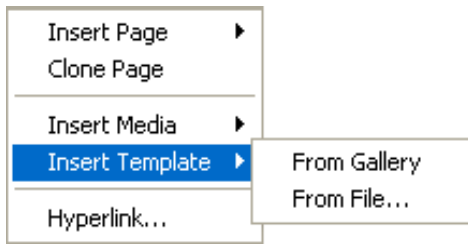
Insert Content

From the Gallery	Permits the insertion of objects from the gallery onto the current page...
From File	Permits the insertion onto the current page of an object contained in a file.
From Scanner or Camera	Permits the insertion of objects onto the current page that were obtained from a scanner or camera.

Insert Models

From the Gallery   Permits the insertion as a model of an object from the gallery.

From File   Permits the insertion as a model of an object contained in a file.
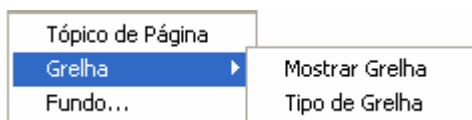
Hyperlink

Associates the selected object in a hyperlink to a web page on the Internet, local file, or another page. In order that the presentation's cohesion is assured, the A-migo application even allows for the storage of the hyperlink object as an attachment to the presentation. With this option it is not necessary to worry about always attaching the different components when copying a presentation to a pen drive for example. Everything becomes a part of the presentation, thus guaranteeing the continual availability of all of its components. Alternately, Hyperlinks can be created directly from each object. See the example in the below figure.

4.5. Format

Format Menu

The "Format" menu provides formatting options for the pages of the presentation.

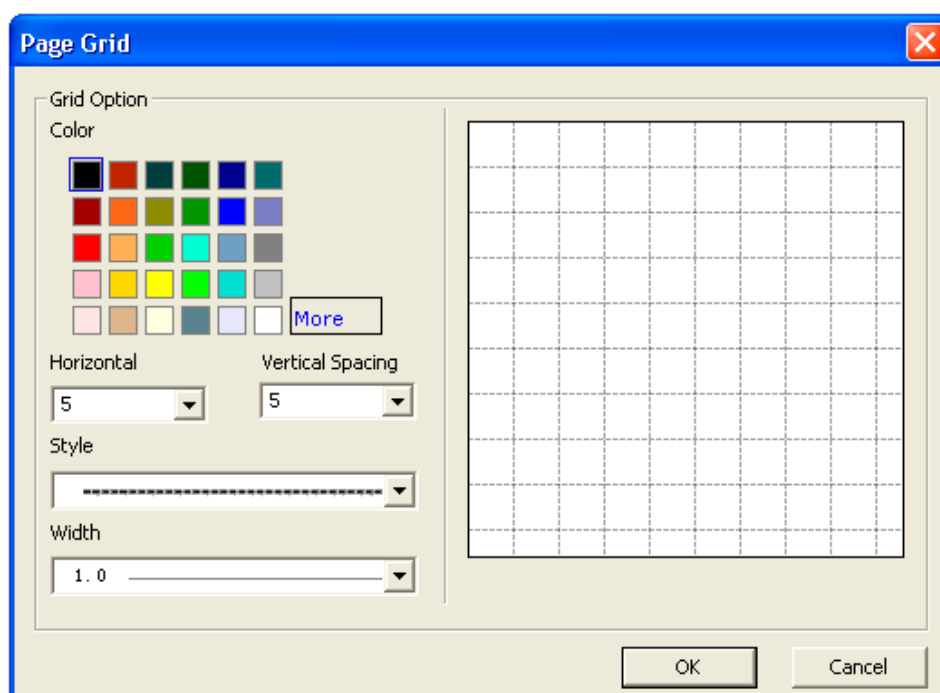| Tópico de Página	
Grelha ▶	Mostrar Grelha
Fundo...	Tipo de Grelha

Page Topic

Whenever the creation of a common background for all of the pages is desired, open the page topic. All of the objects that are inserted in the defined area will be automatically included as the background for all of the pages.

Grids

The A-migo application permits the user, on an individual basis, per page to apply a grid to the background. For each grid the type of line, its color and width may be selected. The vertical and horizontal spacing between the continuous lines can also be defined. For example, with the selection of no vertical lines, horizontal lines can be obtained for Calligraphy lessons. By means of the horizontal spacing, in this case the space between the lines can be controlled.

Background
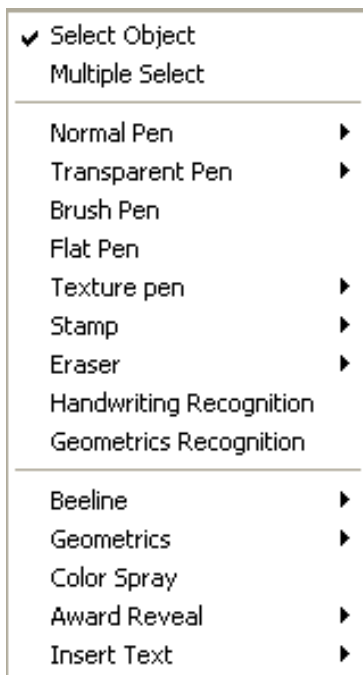
To select the page background color, select this option.

4.6. Draw

Draw Menu

The "Draw" menu encompasses the tools that will permit you to write or draw on a page of your presentation, or over any other generic background. Here resources such as pens, selectors, paintbrushes, stamps, text, and even scratch-off's are found. The options for the selection of objects – typically related to drawing, are equally available in this menu.

Although in general the tools can be pre-configured, and the configuration can be saved and associated with the user profile, the current characteristics such as thickness, type, color and transparency of the lines can be rapidly changed using the buttons on the tool bar. Note that for each tool, only the buttons whose functionality makes sense in the respective context will be available.
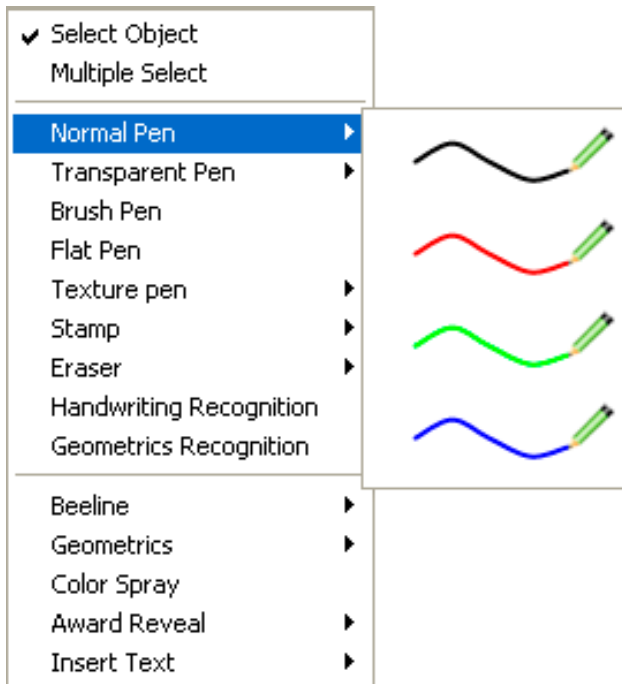

Select Object

Activate the select single object mode
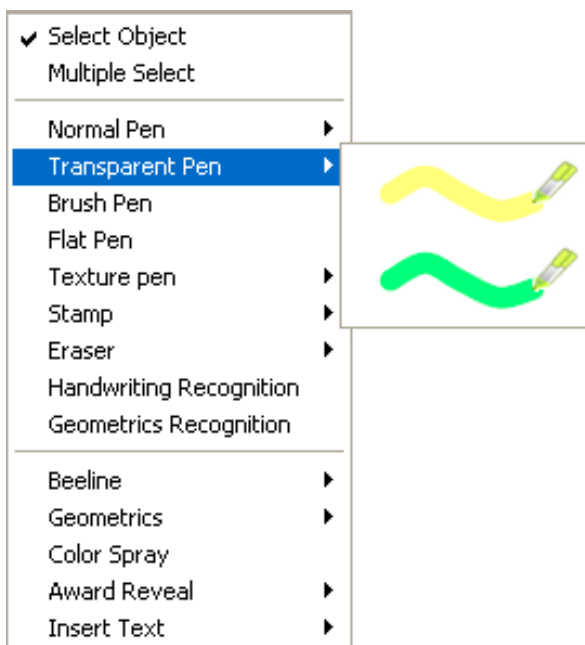
Selecção Múltipla

Activate the mode for simultaneous selection of multiple objects. In this mode, after selecting the selection tool, all of the objects that are identified will be added to the list of selected items.

Normal Pen

Directly select one of the two pre-configured pens. The selected pen will become the active writing tool.

Highlighter

In a format similar to traditional highlighters, here a transparent highlighter can be selected to highlight aspects of your presentation.
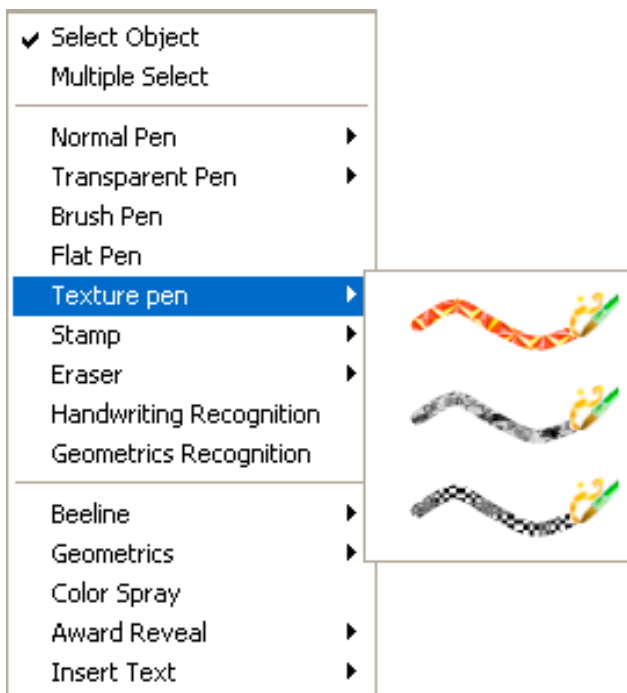
Brushes

The virtual brushes of the A-migo application behave in the same way as real brushes. If you write slowly, it will release more paint, thus making a thicker line. The inverse will occur following rapid movements.

Beveled Pen

This tool simulates the writing of a pen with the tip molded in the form of a bevel. In accordance with the direction of the writing, the thickness of the line will be molded.
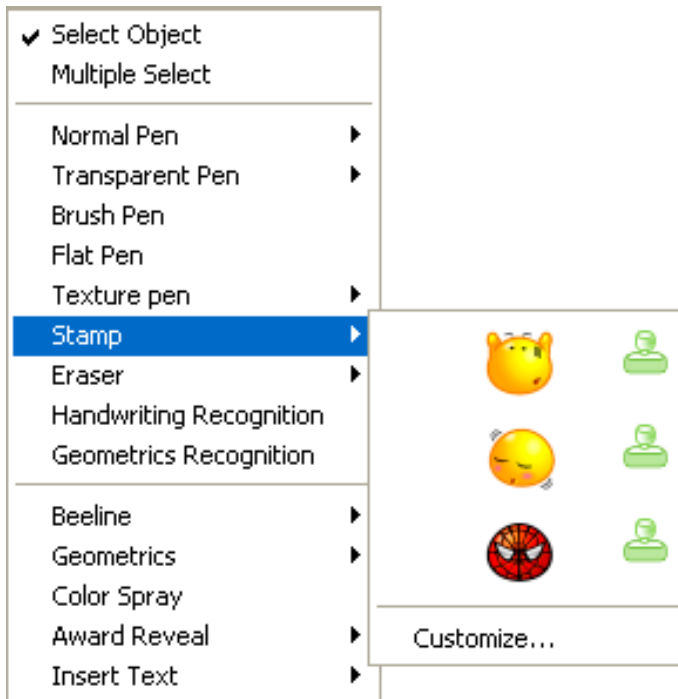
Magic Pen

The magic pens use an image as a reference to paint. When these are used over a page or arbitrary background, it will gradually reveal the content of the associated image. Small bitmaps can be applied which will be used as standards, repeated throughout the paint area. Observe below two examples of its use.
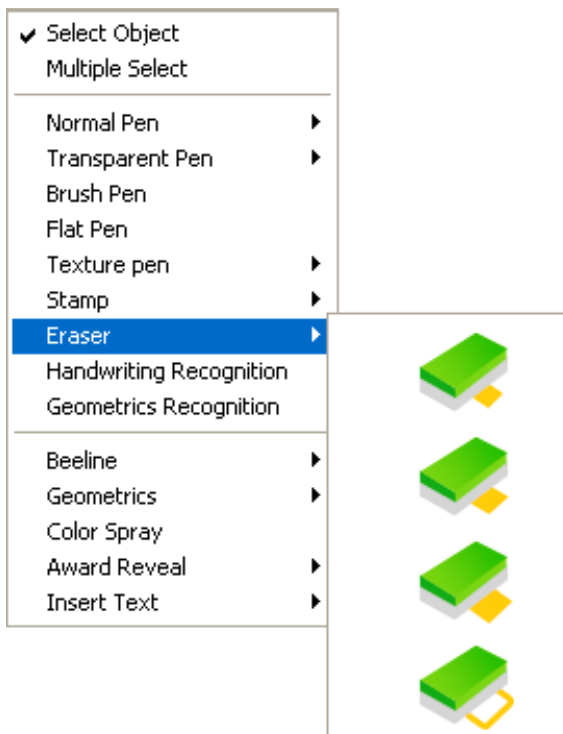
Stamp

Use stamps in your presentation. Select an image to apply to each stamp, and apply it countless times.

Eraser

The eraser permits, as its name suggests, the removal of written objects. However, it is interesting to note one aspect. In real life, if you write with a pencil or a pen, you can later remove it with an eraser. However, if you try to use the eraser to remove an object that you have glued, you will certainly not be successful. In the scope of the tool A-migo, the same can be verified. You can use the eraser to remove the result of writing with pens and brushes. However to erase a geometric figure or an image for example, you will need to expressly remove it. In this case there are four pre-configured modes. Three associated with different sized erasers and a last one that permits the selection of an area to be completely delete.
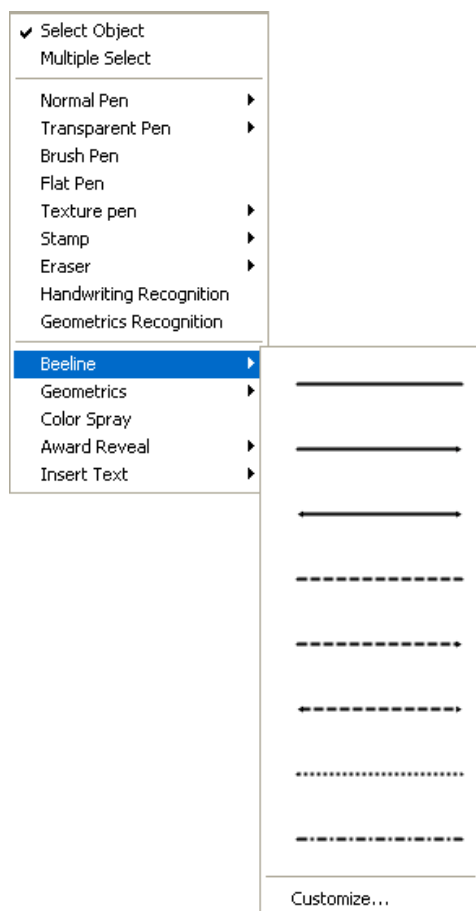
Character Recognition

The A-migo application internally enable the capability to automatically recognize manuscript characters. Select this option to activate the referred functionality.
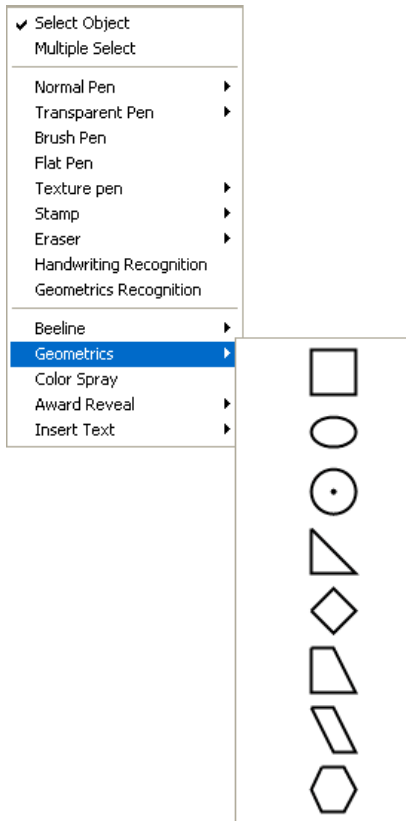
Geometric Figure Recognition

The recognition of geometric figures can be obtained in a completely automatic manner, revealing itself as an extremely practical resource. To use it, activate this option and try to design a geometric figure of one of the available types – Square, rectangle, circumference, ellipse, parallelogram, triangle, trapezoid, or hexagon. When the design is complete, the A-migo application will automatically substitute your design with the perfect representation of a figure of deduced characteristics. In addition to geometric figures, this tool permits the recognition of polygonal lines.
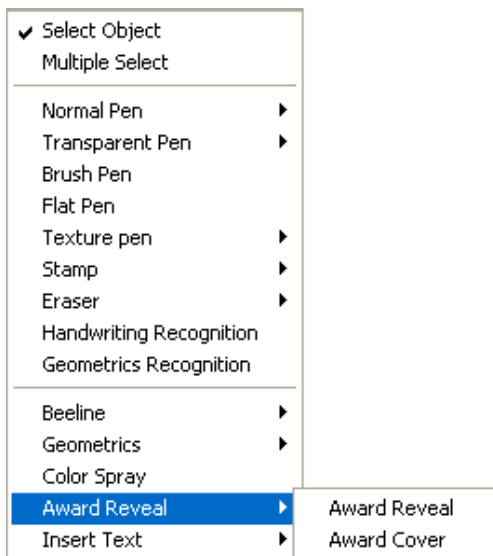
Line

The design of lines is simple, when the A-migo application is used. Select the type of line to apply, press the pen over the starting point of the segment, and drag it to the ending point and finally release it.

Geometric Figures

The design process of geometric figures is completely intuitive. Select the type of figure to design, and act in accordance with the above description for line drawing.
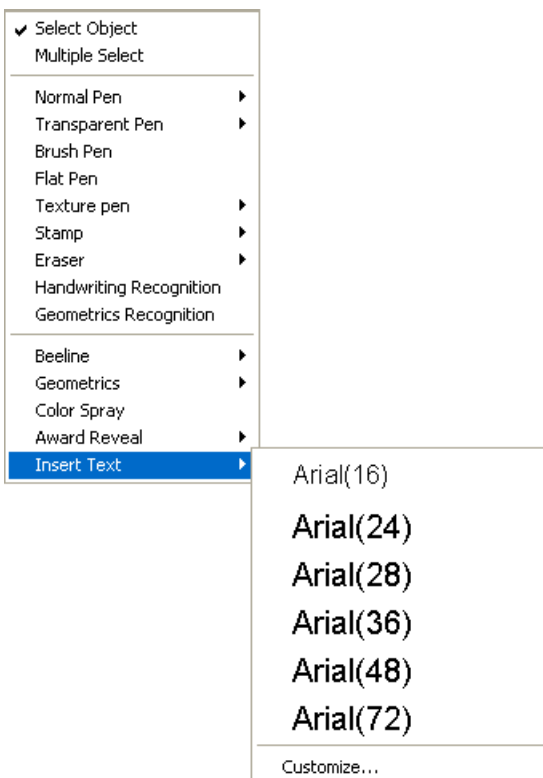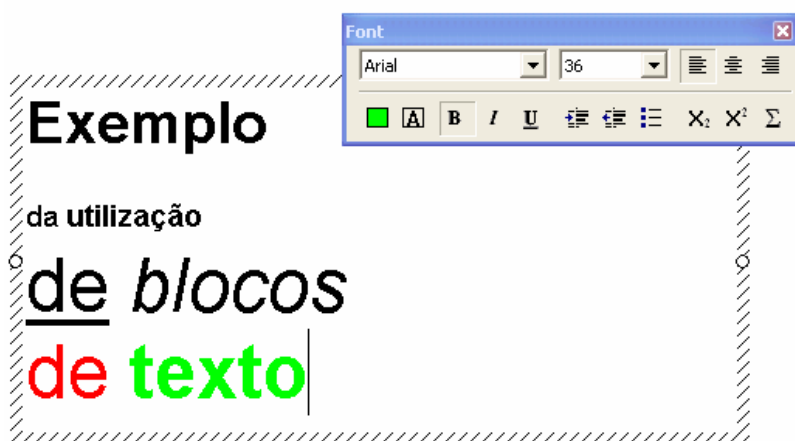
Scratch-off (Award reveal)

The Scratch-off is a rare tool, of special interest in certain contexts. Its purpose is to represent in a virtual form a real scratch-off. To use this tool a silver layer should be inserted in the area to hide. In the moment of the revelation, select the scraper and act as if you were really scrapping, while using the pen.
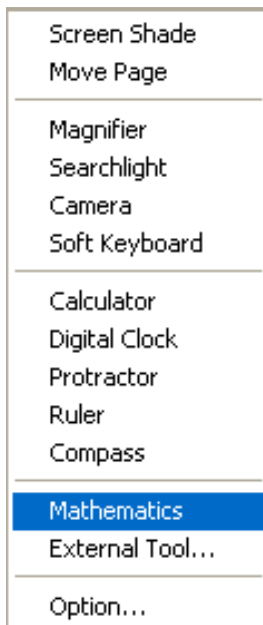

Insert Text

Use this option to open the insertion and alteration of text blocks. As in similar situations the interface implemented is identical to those of other common solutions, making its use extremely intuitive. Observe the example reproduced below.

4.7. Tools

Tools Menu

In the "Tools" menu the user will find different methods with which the user can maximize presentations. Tools to improve presentations are included in this menu – such as the Magnifying Glass or the Curtain, those relating to geometric design and measurement, in addition to the generic tools such as the screen keyboard. This entire list can be expanded with the inclusion of external tools.
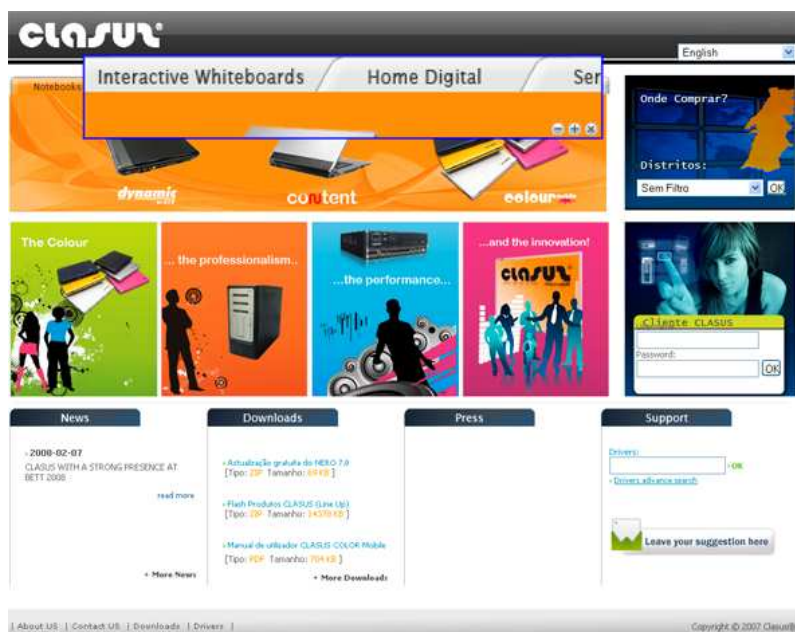

Curtain

The curtain is an interactive tool to optimize the presentation, which permits the user to hide the screen and reveal its contents in a gradual manner. The curtain is controlled in an intuitive manner, and can be drug in the intended direction. In the lower right-hand corner a small toolbar with buttons can be observed. The first button configures the curtain in sliding mode. Its size is fixed and it simply moves along the screen. In the mode selected by the second button, the curtain can be re-sized. The last button closes the curtain.

Move Page

Sempre que a página seleccionada seja maior que o écran poderá utilizar esta opção para a mover e, assim, visualizar a região pretendida.

Magnifying Glass

The Magnifying Glass is the tool which permits observation of small details during a presentation. An example of its use would be the visualization of a web page with text written in small print. Applying the Magnifying Glass, the content of the selected area can be increased, revealing what previously was imperceptible. When the "Magnifying Glass" mode is activated, the user can select different areas to be amplified. This is done selecting an initial point and dragging the pen to the final point. The buttons can then be used respectively to diminish or increase the degree of amplification, or to close the Magnifying Glass. To exit the "Magnifying Glass" mode, press the lateral button of the digital pen.

Spotlight

The Spotlight permits the user to darken the screen, creating the effect of lighting only over the selected area. Its basic use is extremely simple. Select the respective option and drag the lighted zone to the intended area. The resizing of the illuminated area can be obtained by pressing the digital pen over the blue line and dragging in accordance with the intended sizing. In addition the menu access button ⊻ permits the user to access the extra options for the control of the background transparency, or over the form of the lighted area.

Camara

The A-migo application was conceived to simplify the work of those who use it. The operations which copy areas of the screen for import into presentations are frequent, and typically involve the use of external tools in a process which can be slow. With the integrated Camera, the user can in a direct fashion collect and insert into the presentation images obtained from the screen. Reflecting on the knowledge acquired the A-migo application; the Camera affords operation in four modes, accessible from each button on the toolbar as follows:

-Photography of the content of an arbitrary rectangular area - Select with the pen the starting point of the intended area, move the pen to the ending point and select it in the same manner.
-Photography of an object - For example, simply select a window to photograph and its image will be included in the presentation - within the selected page.
-Photography of the content of an irregular area - Use the pen to design an arbitrary area of an irregular shape. When the line becomes closed, the content of its interior will be included in the selected page of the presentation.
-Photography of the complete screen

Screen Keyboard

For the introduction of text through the interactive board, use the screen keyboard. A keyboard with a presentation similar to that represented above will be presented to the user, and it is only necessary to select the desired letters with the digital pen - exactly as would be done with a conventional keyboard. With the buttons included in the lower left-hand corner the keyboard model can be selected in accordance with personal tastes and needs. Respectively default models as represented above or the reduced models (without navigational keys), or numeric keys only, or complete versions can be selected.
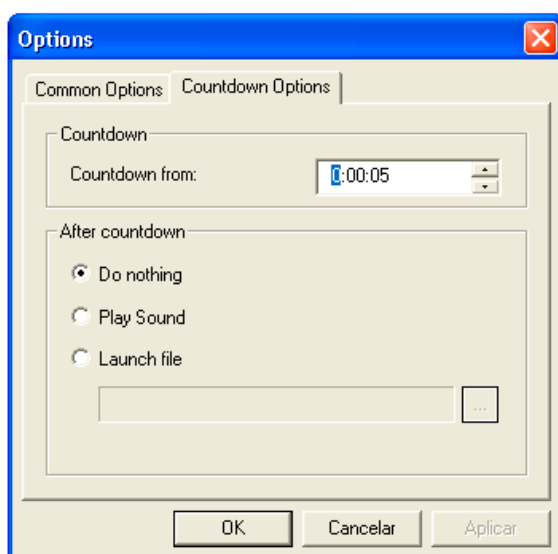
Calculator

Open the calculator provided by the operating system.
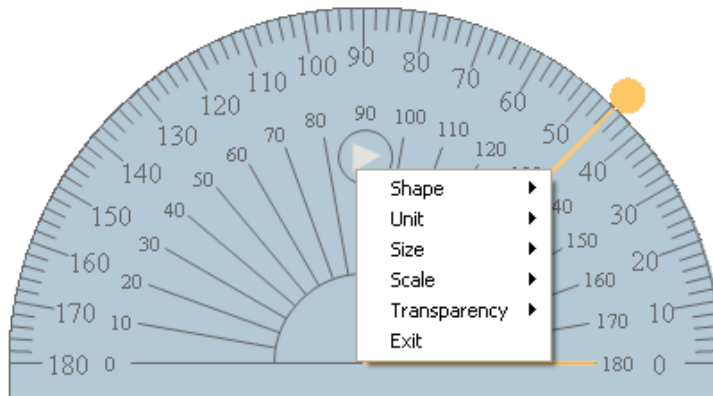
Digital Clock

The A-migo application Digital Clock is very versatile, and can be used in a diverse array of situations. In simple terms, it can be used as a system clock, chronometer, or stopwatch. In the above example, it is represented as a stopwatch. The button

 permits access to the options configuration window.

In addition to the size and level of transparency on the screen, an action associated with the end of the countdown - in the case of the stop watch, can be configured. Thus, as can be observed, a predetermined sound, the execution of an arbitrary file, or simply the disregard of the time expiration, can be controlled by the user.
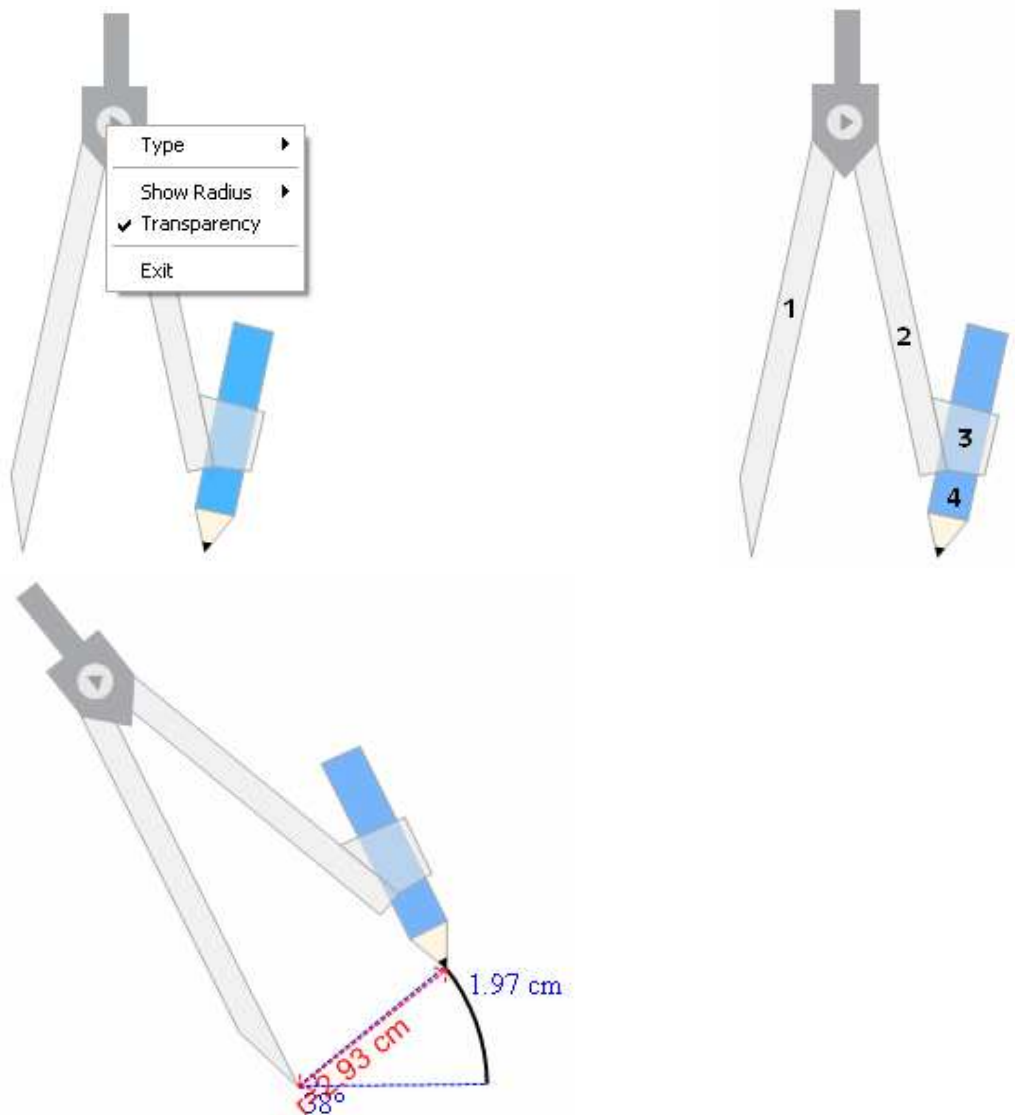
Protractor

The Protractor of the A-migo application is a powerful tool which can be used with precision to measure arbitrary angles. Its specification was carefully studied in order to make its use as intuitive as possible. Thus, to rotate it, it is sufficient to act as with a classic protractor - rotate it by the edge. To move it, simply drag it to the intended location. Using the button ☑ you can, as in the majority of the cases, obtain access to a specific menu for the control of viewing options. The orange circle can be moved for the positioning of the line which connects it to the center of the Protractor. The value of the measurement of the angle between the two orange lines is automatically shown in the selected unit.

Ruler

In a manner similar to that of the Protractor, the Ruler permits the measurement of distances. The manner of use is equally coherent. Move the Ruler to any arbitrary point, rotate it, positioning the pen over it, and ⟳ resize it by dragging it to the final extremity.
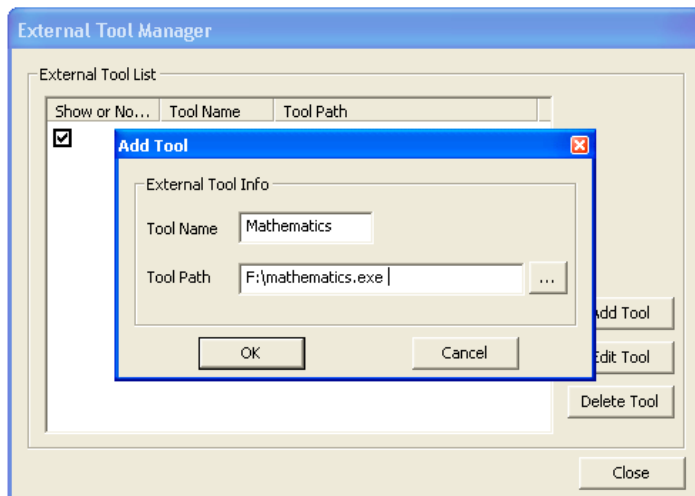
Compass

The Compass provided by the A-migo application is truly versatile and of intuitive usage. To use it:

  1 -Drag it by the pointed shaft to the position in the center of the rotation.
  2 and 3 - Rotate it by the pencil shaft and control the opening by dragging it by its support, for positioning in the design starting point.
  4 - Rotate it by the pencil to design the arc of the intended circumference.

The specific menu permits the selection of drawing modes of the circumference arc or circular sectors, or to show or hide the radius - in pixels or in centimeters, during the opening process. While designing the compass will interactively show the angle of the arc or sector designed up until the current position, as well as the perimeter of the line. Observe that all of the measurements are consistent with those obtained by other tools. An arc of 45° for example, will be measured with the same value by the Protractor. Similarly, and opening of 2.93cm, such as that represented can be directly verified by the Ruler.

External Tools

The option to include External Tools is of great utility. Suppose that a determined tool obtained from the Internet is frequently used. In the traditional mold, if its use becomes necessary during a presentation, the work would require interruption in order to access the folder where this tool is stored in order to provide the command for its execution. With the possibility to include it as an external tool, it will remain directly accessible by the menu option on the A-migo application. In this manner when the user requires its use all that is necessary is to select the corresponding option - in a way that the external tools become part of the application. Verify below the consequent result of the presented configuration.

This functionality is even more valuable as the tool configuration is associated and stored in a form adapted to the user profile. Thus the External Tools that are configured are only available for the user that installed them, and these are always available when required.
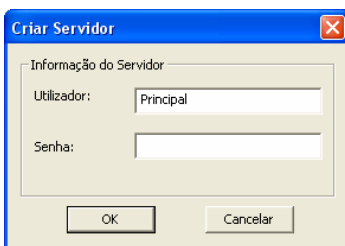
4.8. Collaboration

Collaboration Menu

The possibility to develop a group project with the A-migo application is a reality. The only pre-requisite is the existance of connectivity between the systems involved. This connectivity can be through a LAN or the Internet.
In the simplest case, the work environment can be shared from a primary system with one or more remote systems. The most complex options will even permit the group task on a shared instant of the A-migo application, with the communication between the diverse entities by means of multi-point videoconferencing. The possibility to allocate the capabilities attributed to each participant is always present.
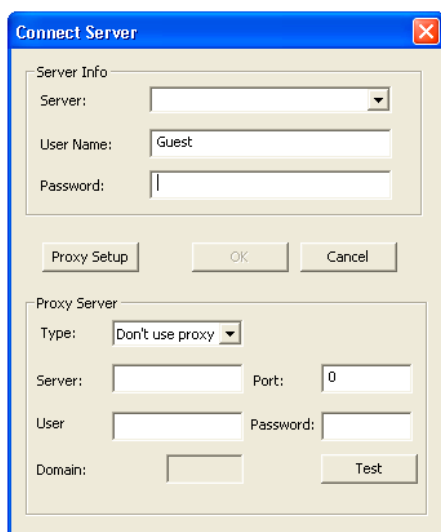

Create Server

This is the option that allow the initiation of a group session between various systems. In a window similar to that represented below, the name to attribute as the system service can be defined, in addition to the password, whose knowledge will be required from those who intend to participate in the session.

Connect to a Server

Each system that intends to join an existing session should select this option. Prior knowledge of the name or IP address of the server as well as the password for access to the session is required.

In the event that the location in which the system is installed does not permit direct connection to the server, a server *Socks5* can be used, which will overcome this limitation. In this case, configure the access through the Proxy server, filling in the fields required with the adequate content. Consult the responsible systems administrator to obtain this information.

Disconnect from the Network

Select this option to terminate an active session.

4.9. Interface

Interface Menu

The Interface menu provides for the selection of the color most appreciated by the user for use in the application interface A-migo. The selection made will be stored in association with the user profile. In this way when you return to the application A-migo, it will remember your preferred color and will adjust itself accordingly.

```
  Orange Skin
✔ Green Skin
  Blue Skin
```

5. Customize

The A-migo application provides for the storage of the specific configurations of each user in such a way that the work environment is always the most adequate.
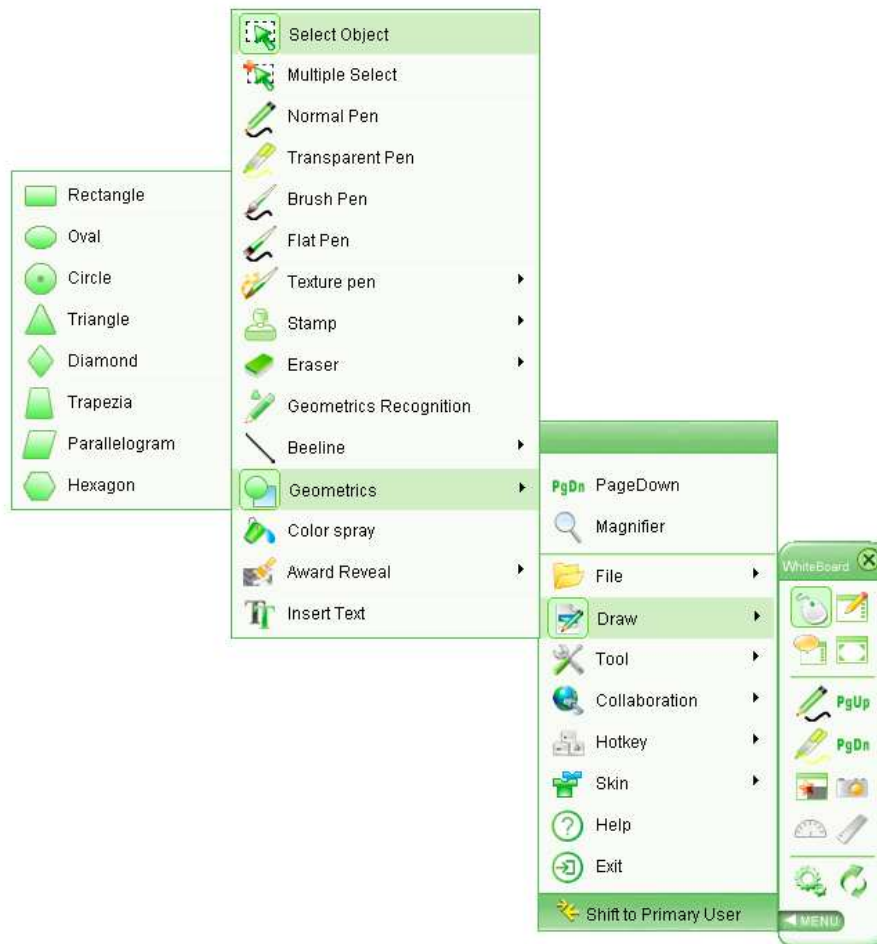
In educational contexts, for example, this capability is of primordial importance. If each teacher saves the configurations associated with it's profile, then it will never run the risk of delaying the beginning of the class due to the work environment reconfiguration.

According to the philosophy of the A-migo application, the functionality support process is transparent to the user. Any change that is made in aspects such as pen configurations, text, or even the floating toolbar, can be stored within the active user profile. Thus when the user returns to the A-migo application, the entire environment will be restored without any additional specific actions by the user.

Examples of configurations that may be saved in the individual user profile:

- Configurations related to sending e-mail

- Interface color used

- Preferences in the drawing tools. Here configurations of pens, brushes, highlighters and others are included

- Pre-defined options for text writing

- Object configurations from the personal gallery

- Default configurations used, in accordance with the definitions made in the "Options" window of the "Tools Menu "

- External Tools

- Buttons on the floating toolbar

5.1. Floating Toolbar

The A-migo floating toolbar can function in two distinct manners; respectively the simple user mode, and the advanced user mode.

In the simple mode, the toolbar will present a reduced set of tools. This mode is intended for users that are not very familiar with the tool, and which may feel intimidated by a more complex tool bar.

Upon alternating to the advanced mode, the toolbar will become completely flexible. It is possible to open a menu that is equivalent to the main application and drag the desired tools to customize the toolbar. In the opposite manner, if tools are to be removed from the floating bar, press the electronic pen over the tool button to be removed, wait one second, and drag it off the bar.