



Main screen of iPocket Draw

The tools of "management"



Information on the drawing and the software

Display/Hide and settings of the grid (with a 2x tap)

Drawing tools and adjustment tools
The tools with .. have options or settings accessible with a 2x tap

To erase objects

Screen to manage files :



To return to the main screen →

Done **Files**

example 1.dxf

example 2.dxf

example_01.rcad

example_02.rcad

example_03.rcad

untitled.rcad ✓

+ Edit ↑ ↓

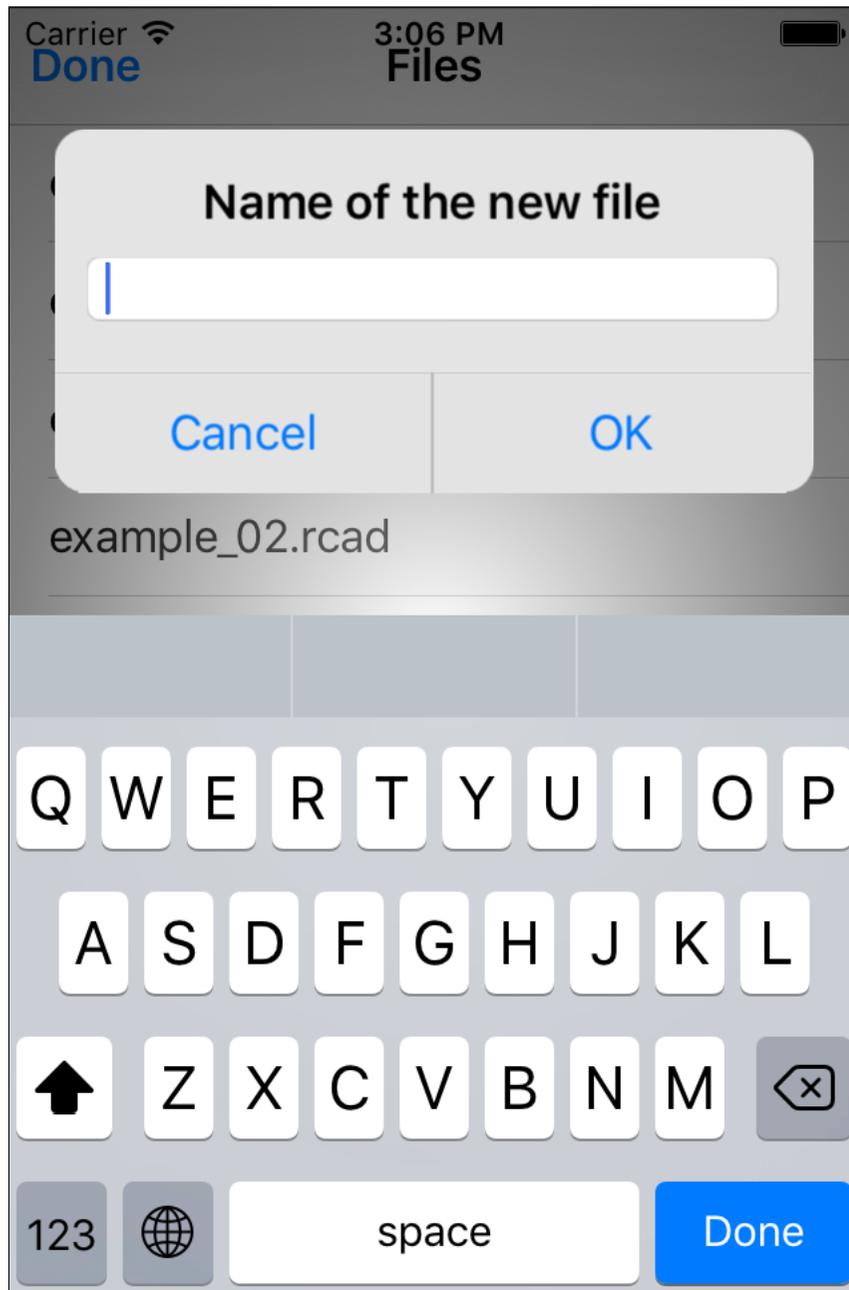
List of saved files
Are visible here only
dxf files (Autocad) and
rcad files (iPocket Draw
and RealCADD)

Selected file →

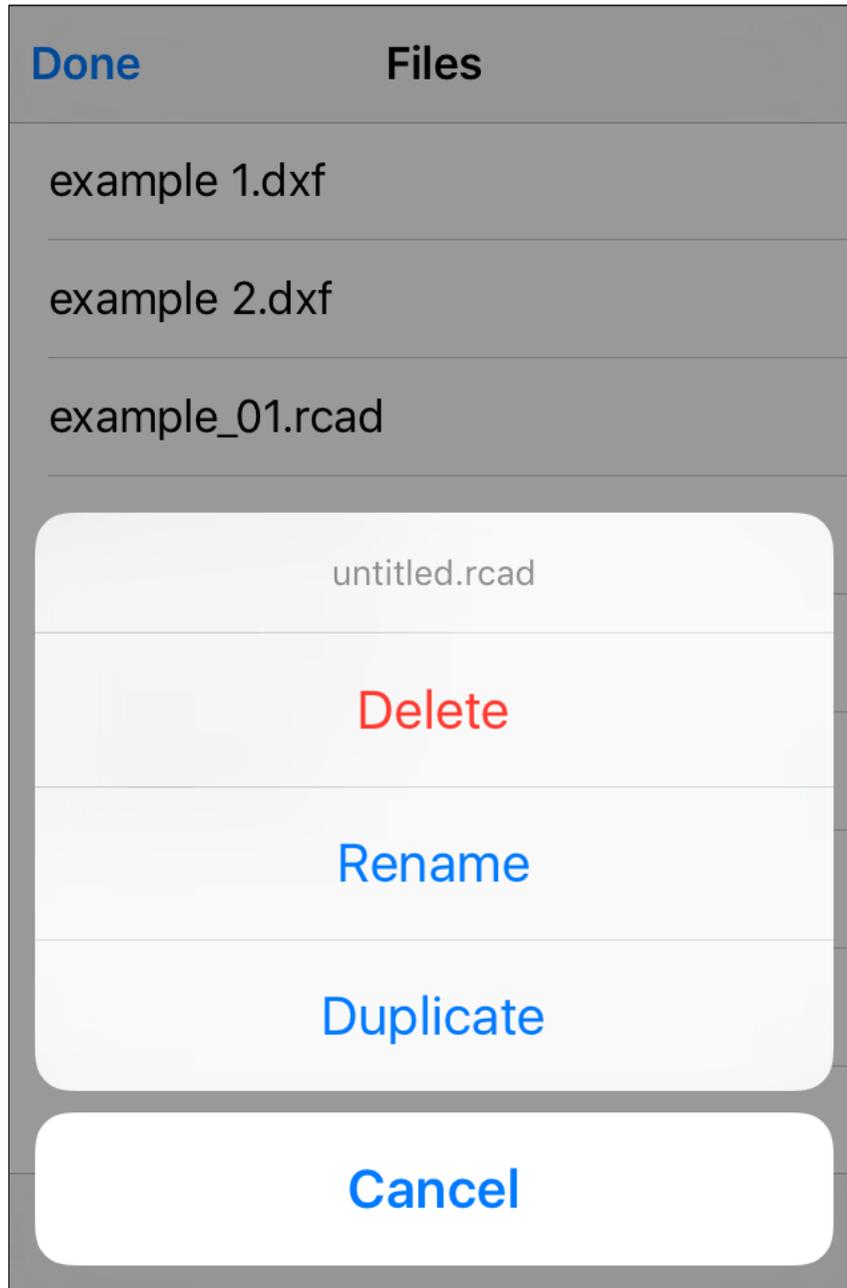
Management of files →

One tap on the wanted file and "Done" to display it in the main screen. For a dxf file, a setting screen is displayed.

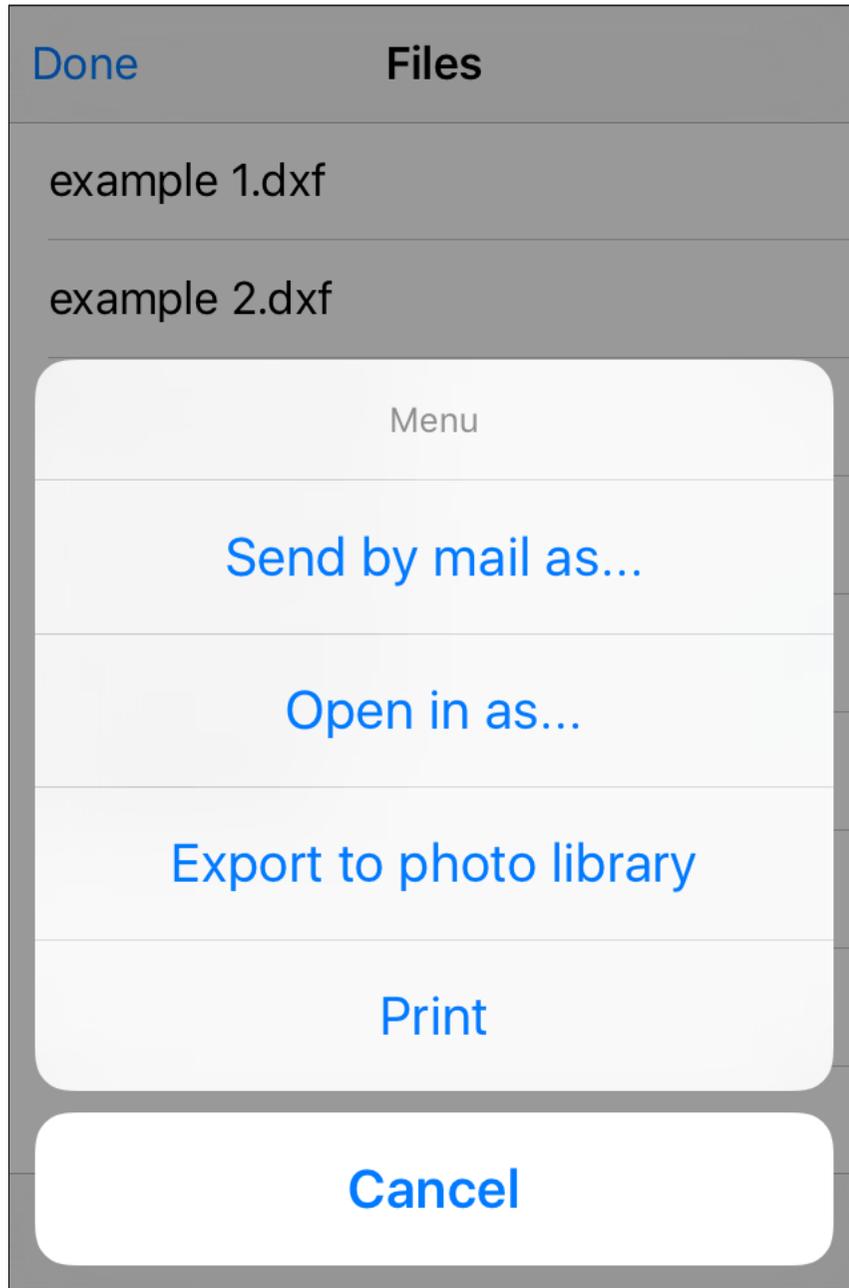
Creation of a new file :



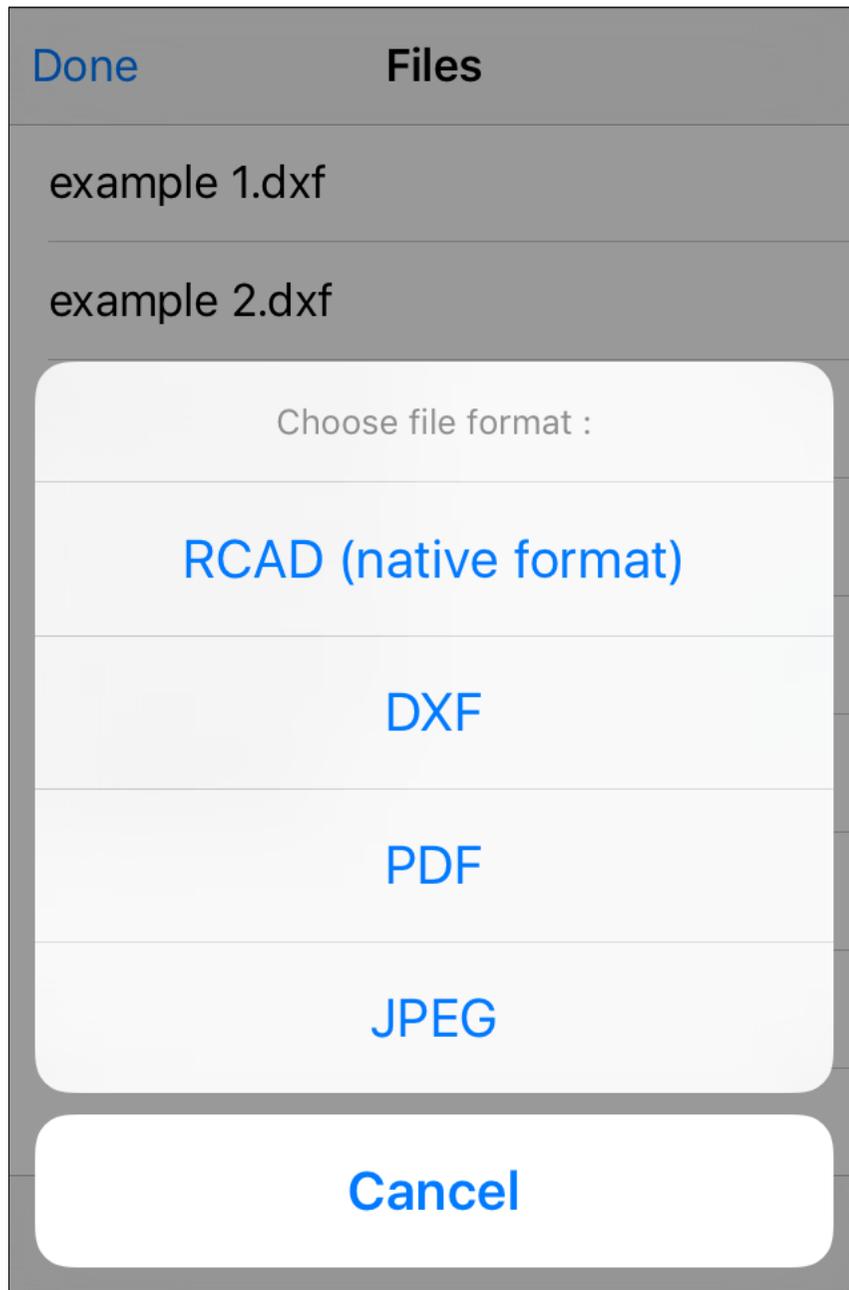
Erase, rename, duplicate a file : [Edit](#)



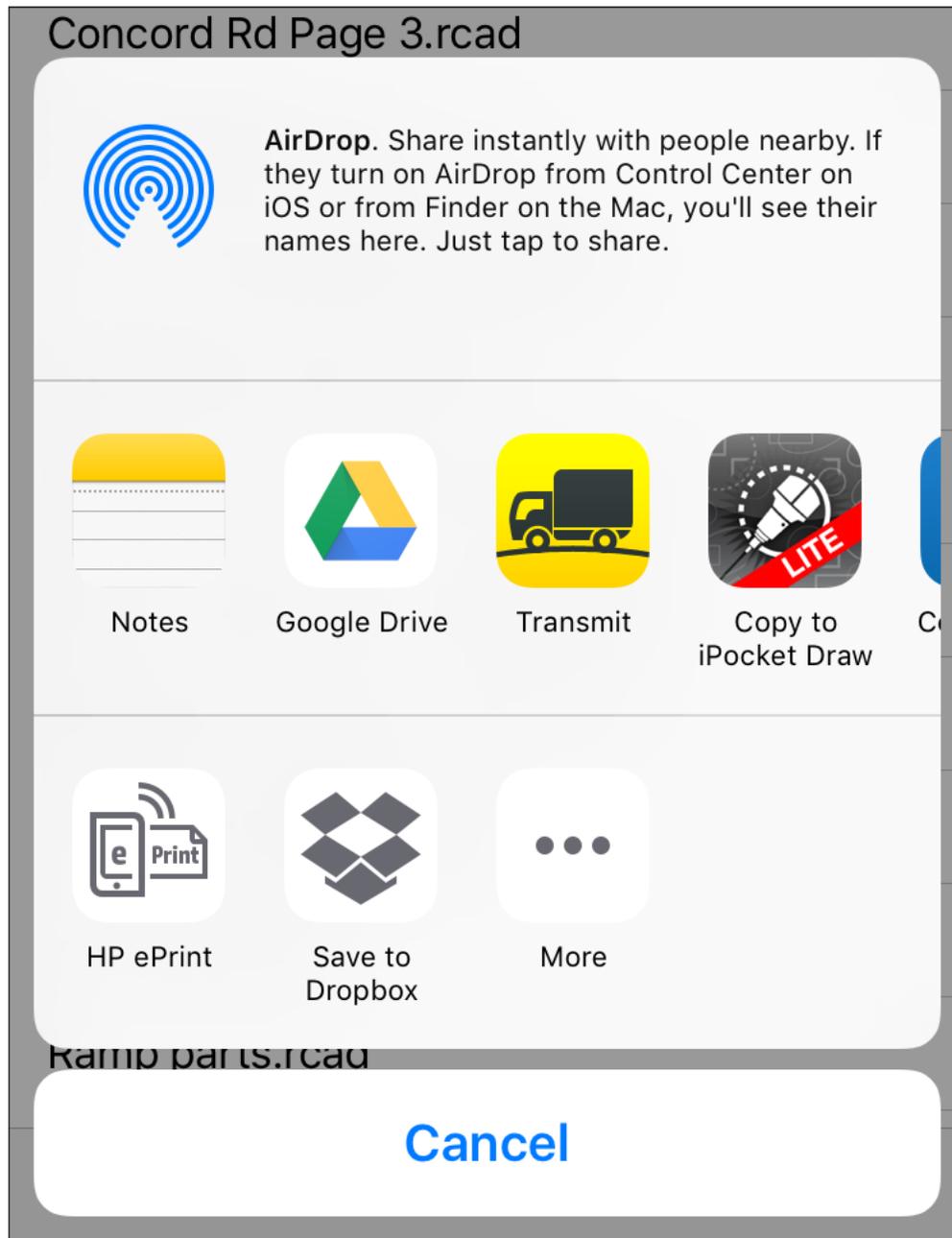
Send by mail, export, print :



Choice of file format for sending by email or transfer :



Screen to choose the app after "Open in as..." :



First options to print :

Done **Options**

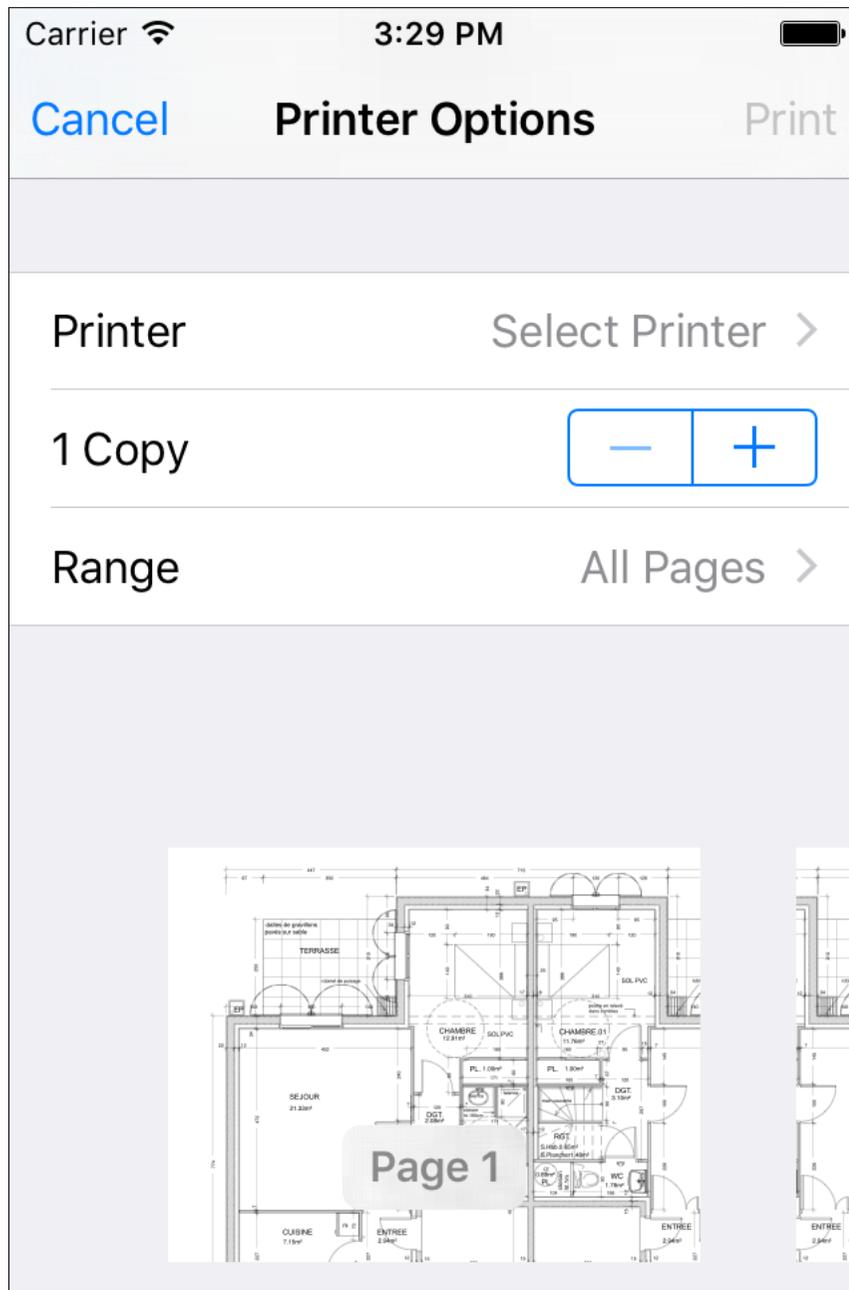
Orientation :  

Scale : %

All on one page

Center drawing

Second options to print :



Import from other apps :



Plan VAD.rcad

Ramp parts.rcad

iCloud Drive 

Box 

Google Drive 

Dropbox 

Transmit 

OneDrive 

More 

untitled.rcad

Cancel

From the screen to manage files, you can import only .rcad or .dxf files.

The import of picture files is done with the command :



Setting of preferences :



Done **Preferences**

Unit	Accuracy	Angles
meters	1	radians
centimet...	1.1	degr...
millimeters	1.123	grades
pixels	1.1234	
ft .	1.12345	

Scale = 1 /

Size of handles : pixels

Setting of grid

Setting of path

Setting of dotted lines

Setting of arrows

Unit for length and for angles and accuracy used for display the datas of objects and for the dimensioning.

WARNING :
The Dimension tools have their own preferences.

← Scale of the active layer

← Size of the handles of the selected objects

Setting of the grid : from the precedent screen or 2x tap on



Done **Grid**

Display

isometric

$\Delta x =$ cm

$\Delta y =$ cm

divisions



Snap

every cm

Grid Snap

 ON Above settings

 OFF Reverse settings

To display or not the grid.

Isometric grid.

Settings to display the grid on the screen :

Step x

Step y

Number of divisions

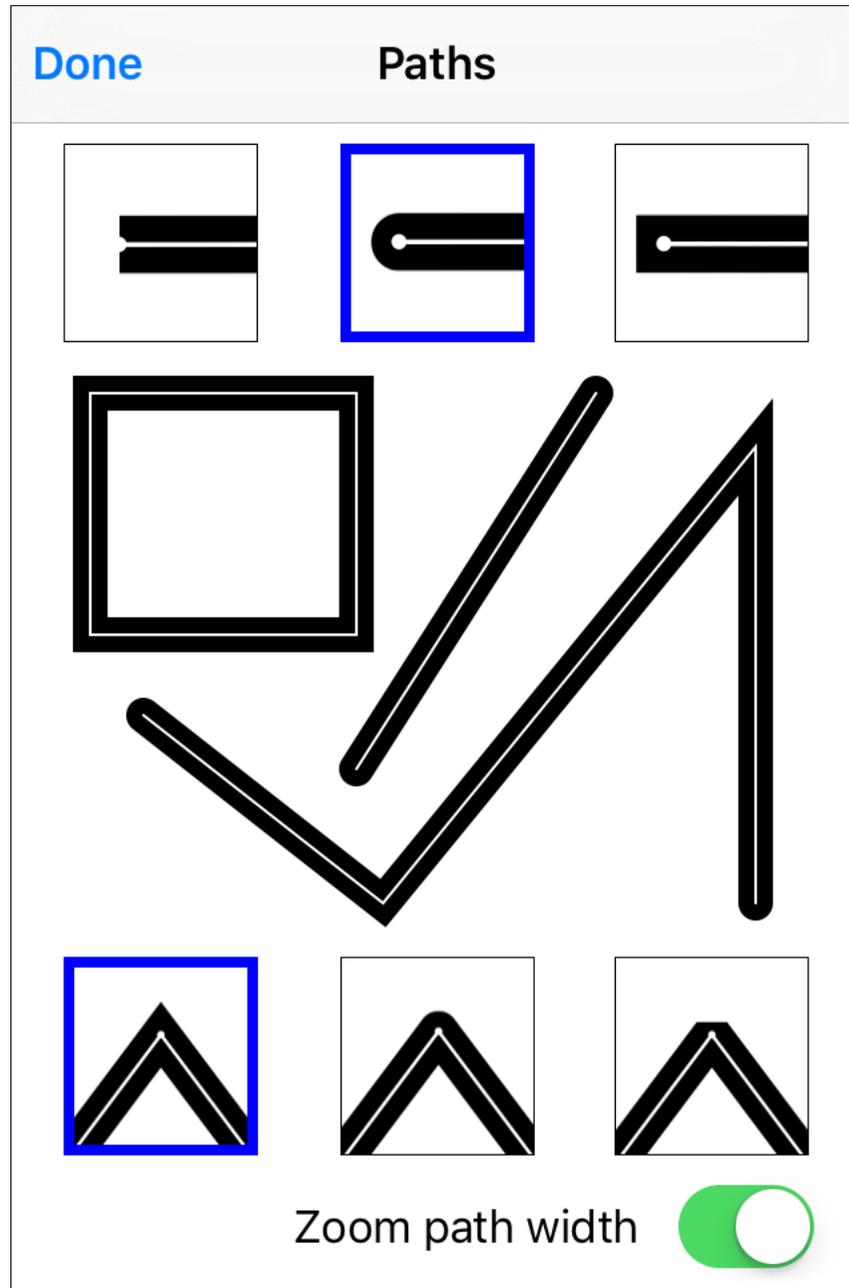
Color of the grid

One tap on the square of color display a screen to select a new color.

Setting of attraction on the grid.

Reminder of the functioning of the button "Grid" on the main screen.

Definition of paths :



Now you can choose between :

3 kind of line cap styles

This drawing is updated according your choices.

3 kind of line join styles

and if the path width is modified by the zoom.

Definition of dashes :

Done **Dashes**



L1 = pixels

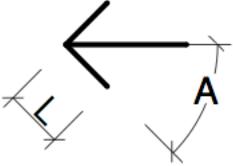
e1 = pixels

Settings of the two kinds
of predefined dotted lines :
One simple dotted line
One double dotted line

The setting of dashes is
specific for each object.
The change of predefined
dotted lines doesn't change
the existing objects.

Definition of arrows :

Done **Arrows**



L = pixels

A = degrees

Settings of the predefined arrows :
empty circles
filled circles
empty arrows
filled arrows
inclined line

Like for dotted lines,
the setting of arrows is
specific for each object.
The change of predefined
arrows doesn't change
the existing objects.

Settings of the layers :



List of layers
Each has a name (Layer0),
a scale (1/50), a default
color (black).
All this values can be
changed.

+ : To create a new layer →

← Attribute of the layer

A = The layer is active

The active layer is this one on which the objects are created or copied. Only one can be active. ! The objects duplicated stay on the layer of the original object.

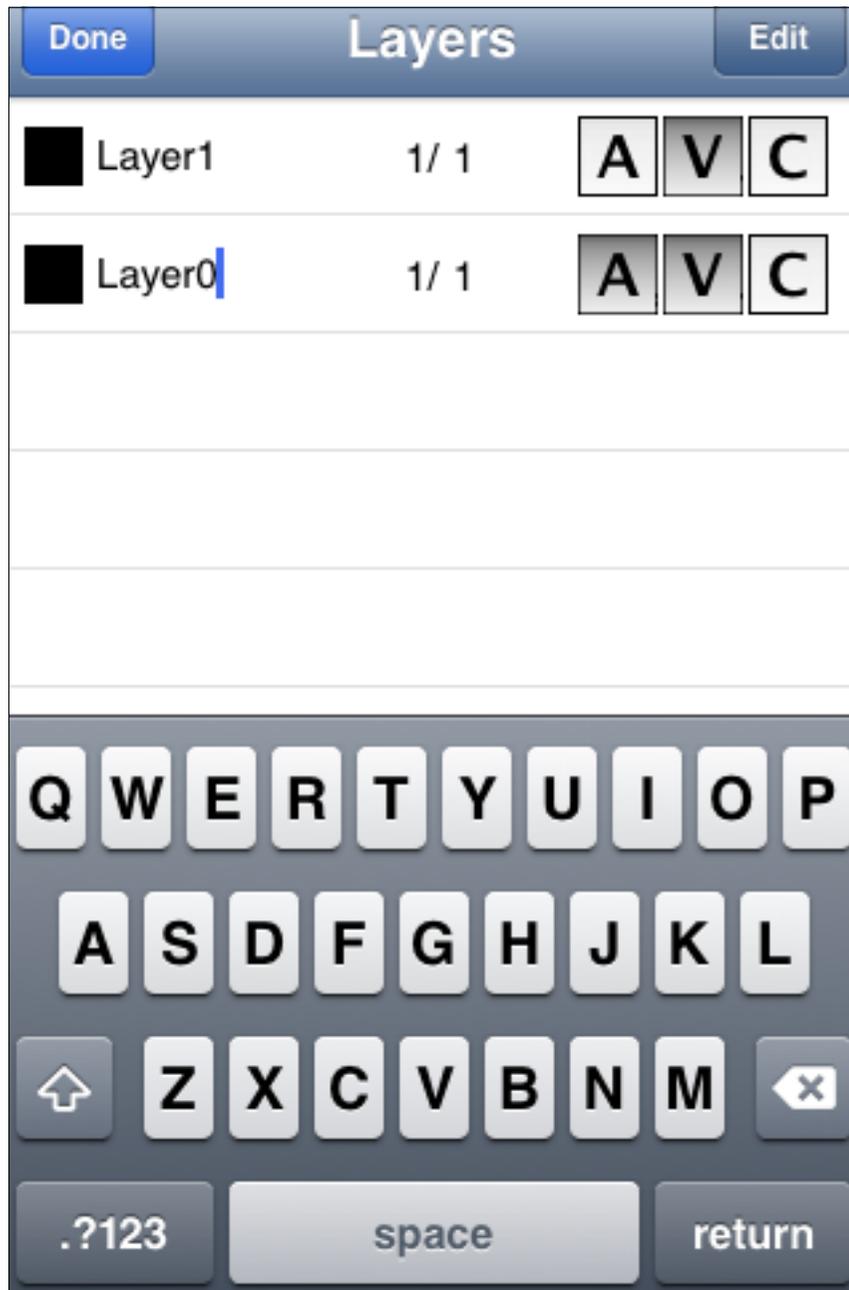
V = The layer is visible
selected = visible

C = Default color

If selected, the color of all objects of the layer will be this one of the layer. This allows to control more easy on which layer is each objects. To change the default color of a layer, tap on the filled square (black here) in front of the name of the layer.

← Options of the layers

Settings of the layers : continuation



A new layer has been created with a tap on +

A tap on the name of the first layer allows to edit it.

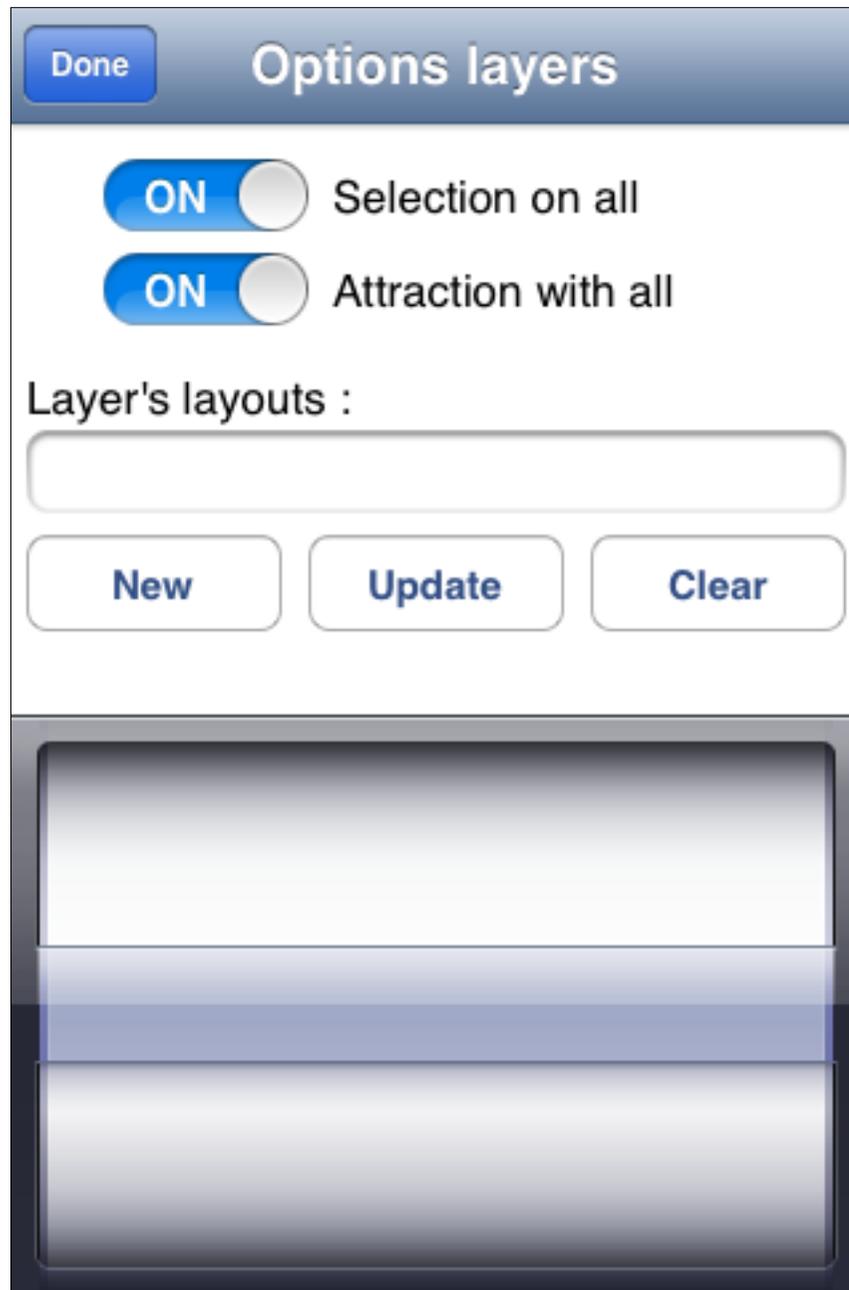
Settings of the layers : continuation



A tap on the second part of the scale allows to edit it.

An important difference between Autocad and iPocket Draw is that with iPocket Draw, you draw with a chosen scale like by hand. Although the scale can be changed during design, it is easier to fix before you start drawing. With this method you can easily mix different scales in the same drawing with the use of layers. It is possible to have a layer "Overview" with a scale of 1/100 for example and a layer "Details" to 1/10. Objects take automatically the scale of the layer on which they are drawn.

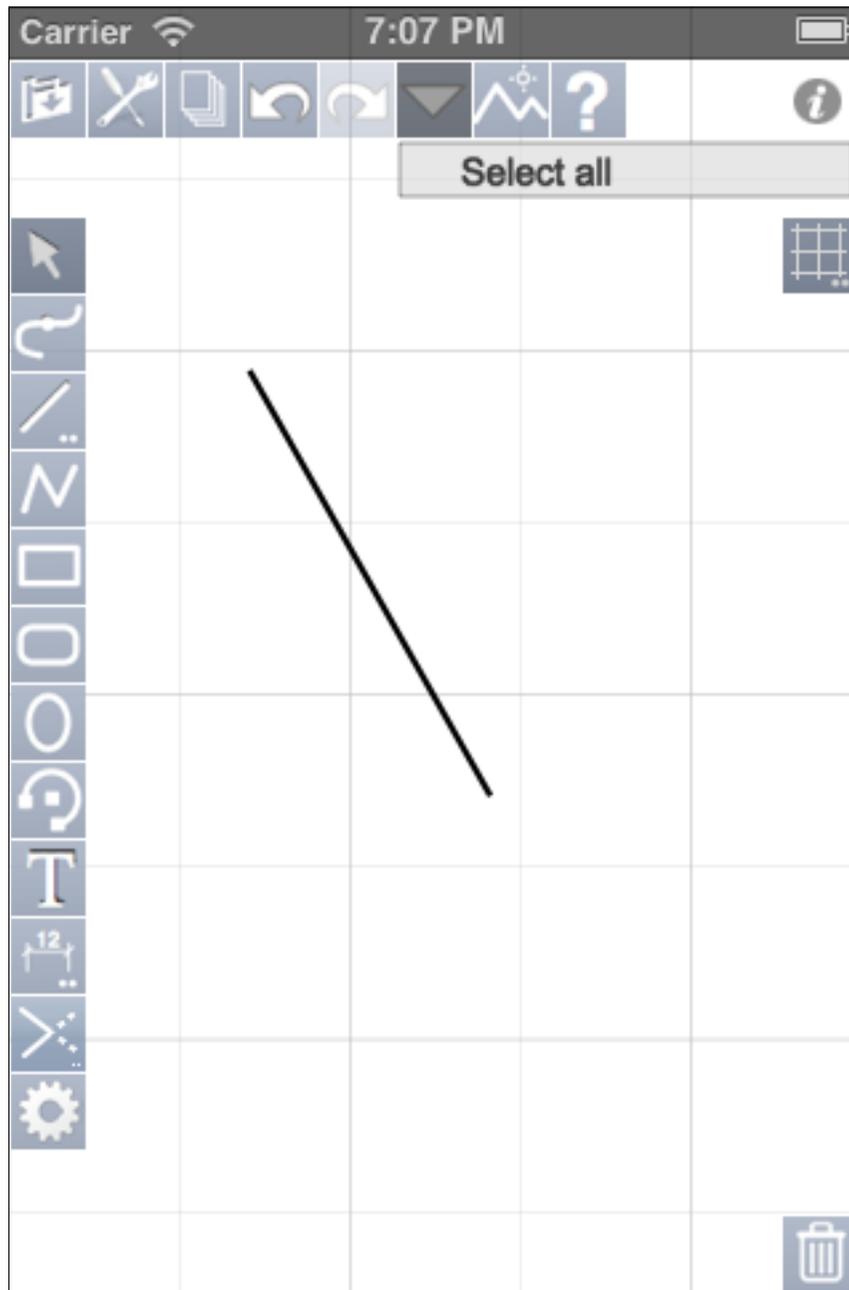
Options of the layers :



You can limit the selection and the attraction at only the objects of the active layer (buttons off) or allow this on the objects of all visible layers.

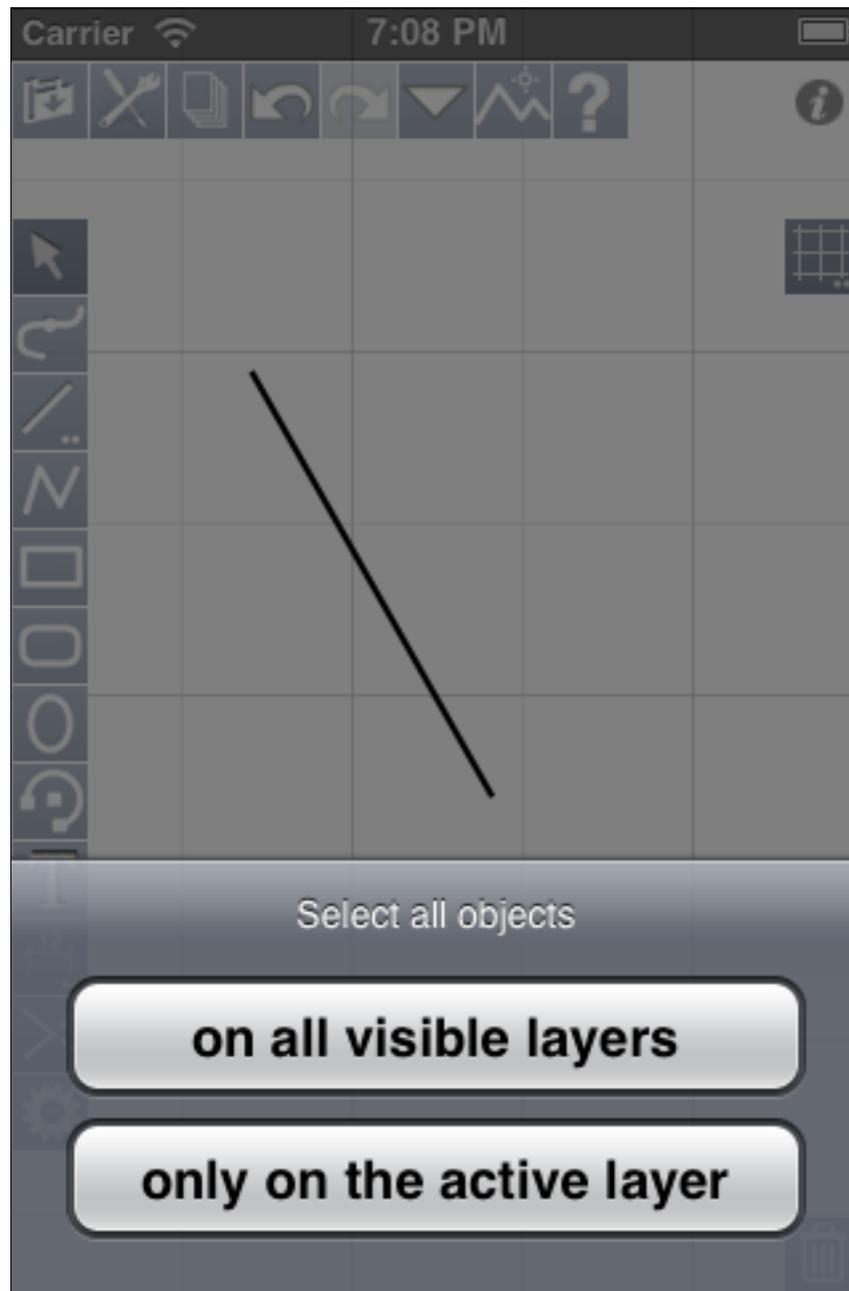
Here, you can define layer's layouts. The file "example_03" shows how this works.

The menu "Action" :



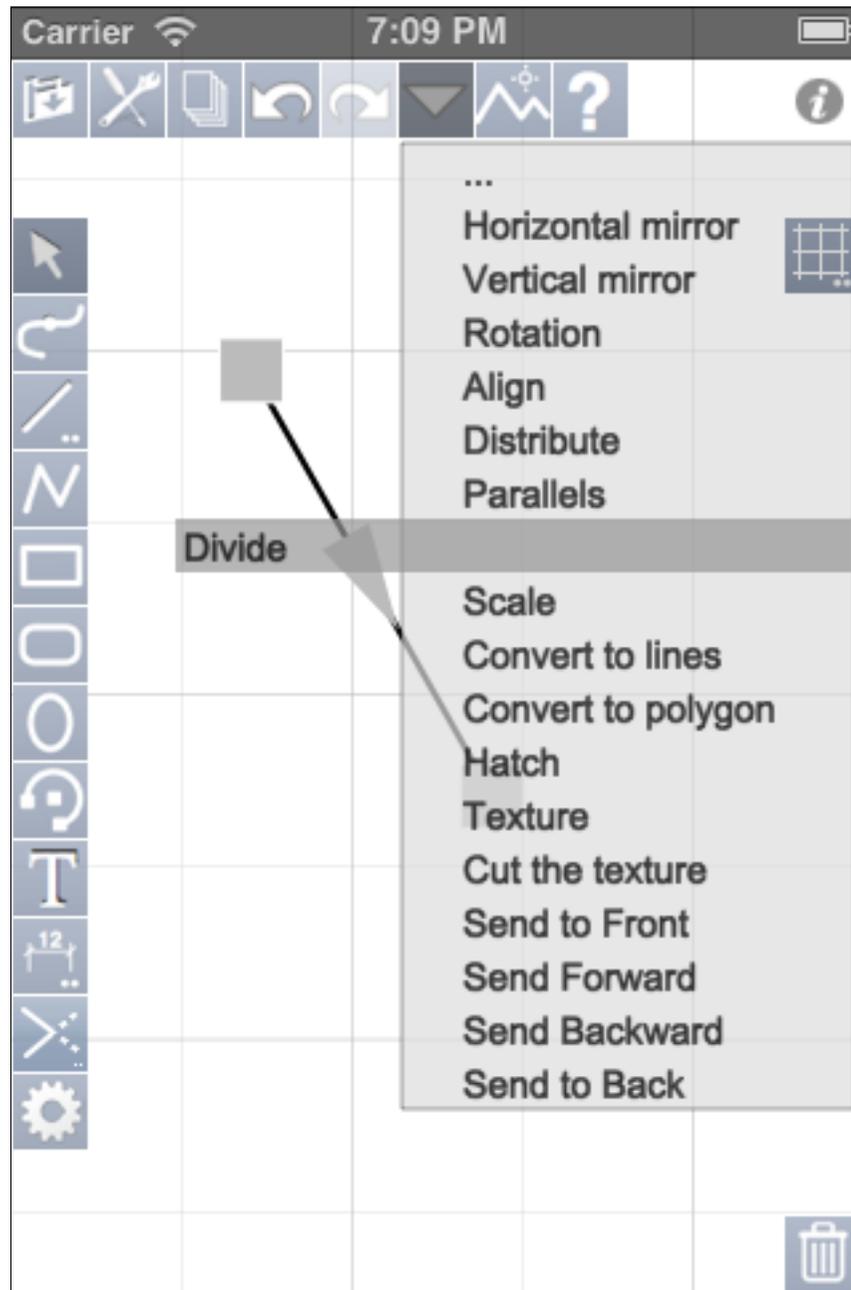
Press upon this button to display a menu on the iPhone. On iPad, a tap displays a pop-up screen. The content of the menu (or pop-up screen) is according to the context. Here none object is selected and the clipboard is empty, thus the only possible action is "Select all".

The menu "Action" :



Many actions will propose to you some choices or parameters to do the choosen action. Here "Select all" has been activated and a choice is proposed to you.

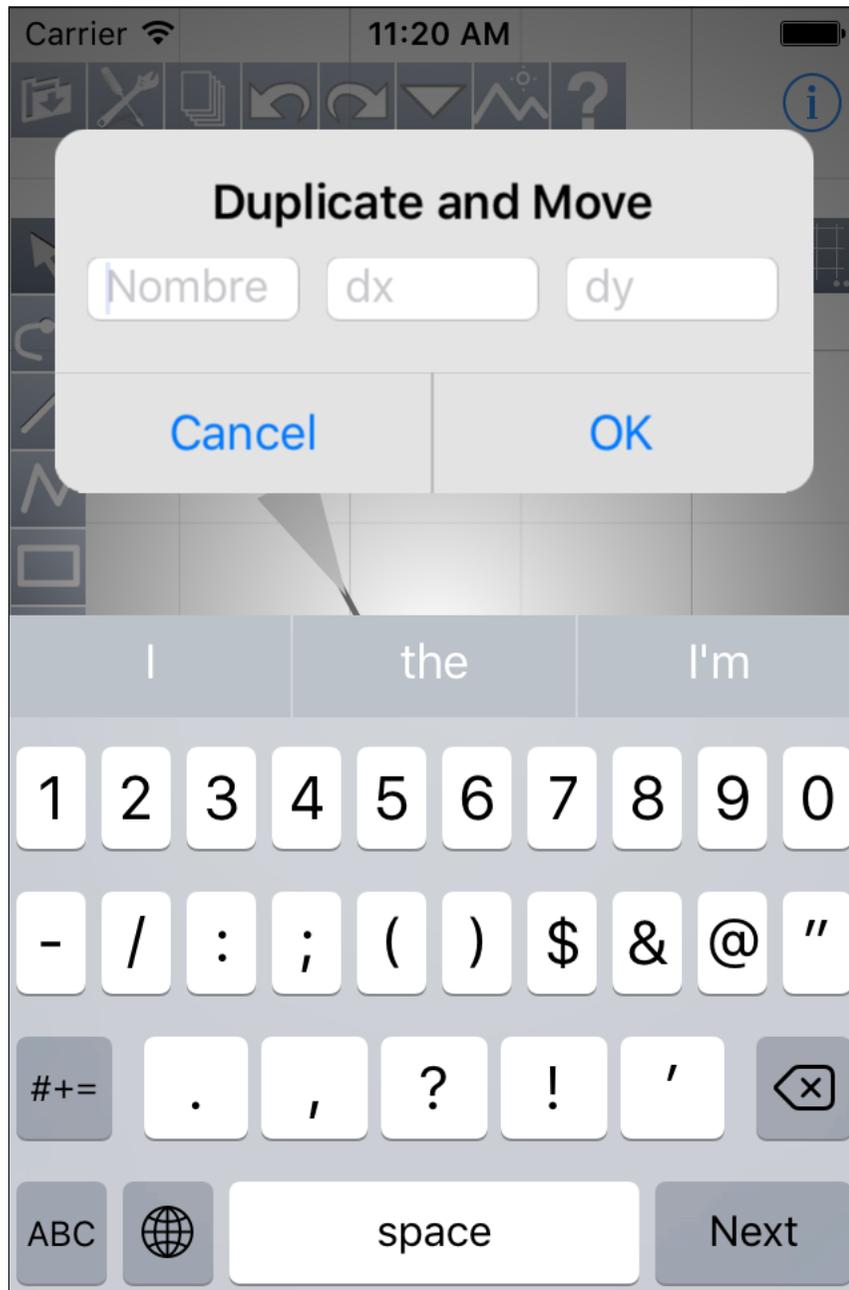
The menu "Action" :



The bottom of the menu
The first line "..."
shows you that there
is others actions.

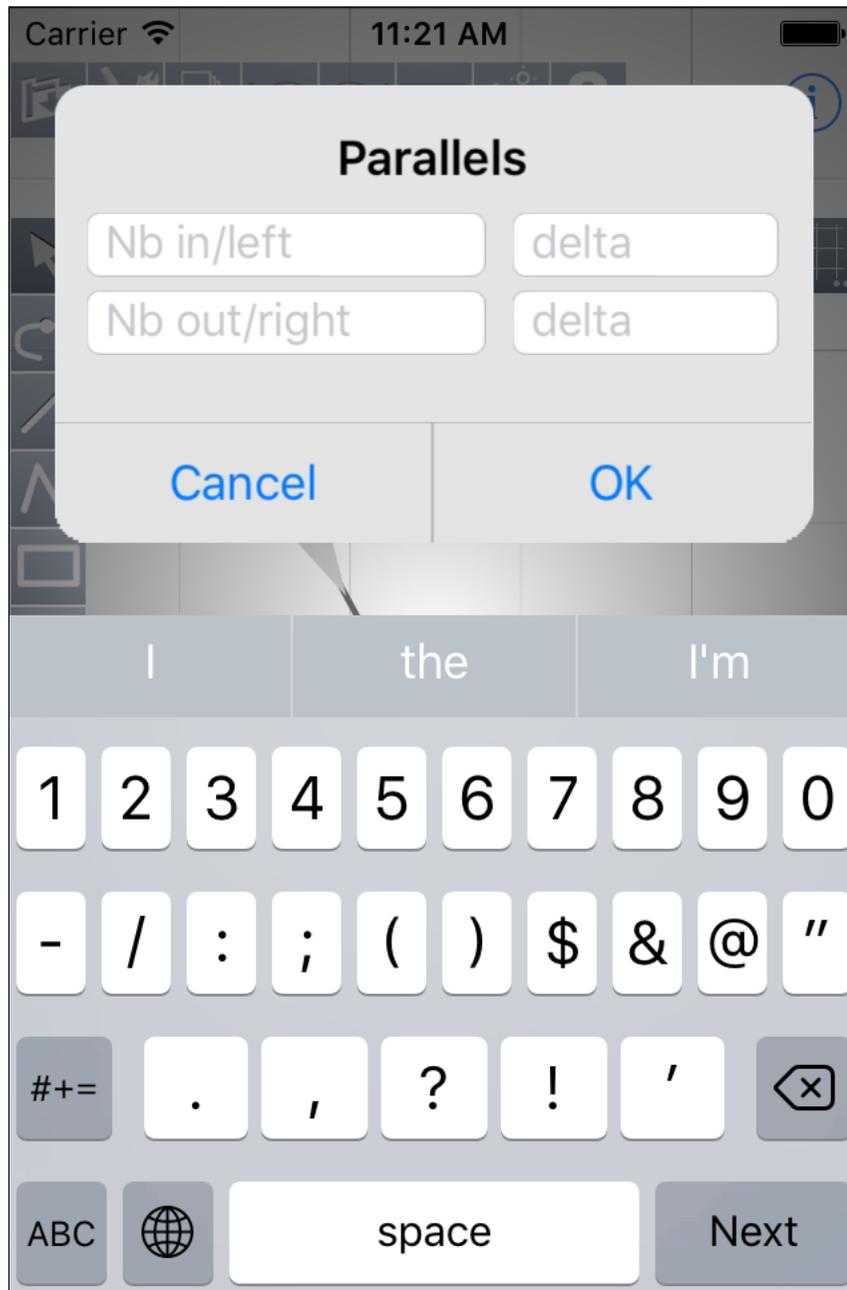
The 3 next pages show
you examples of asks
for choice or data to
do the choosen action.

The menu "Action" : Duplicate and Move



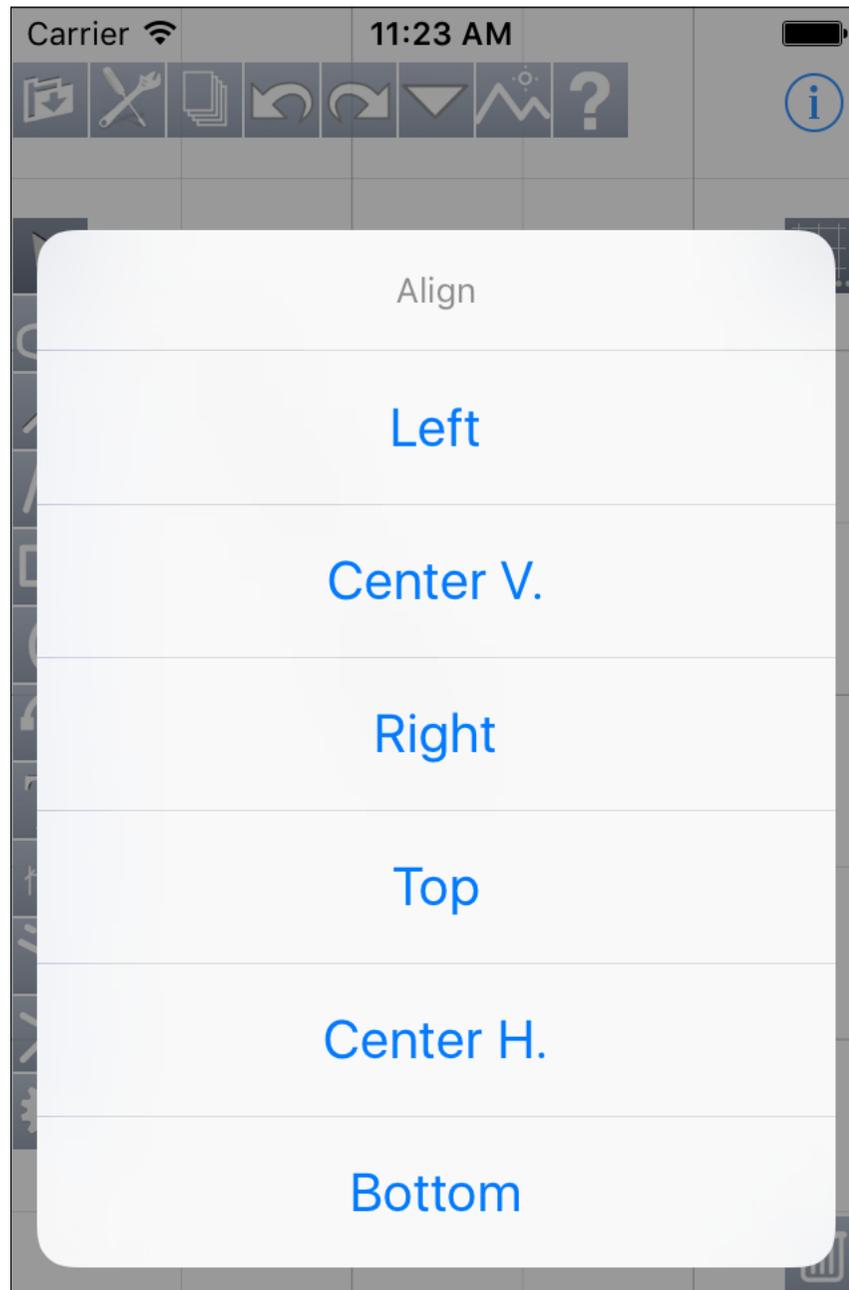
Parameters of the action
"Duplicate and Move".

The menu "Action" : Parallels



Parameters of the action "Parallels".

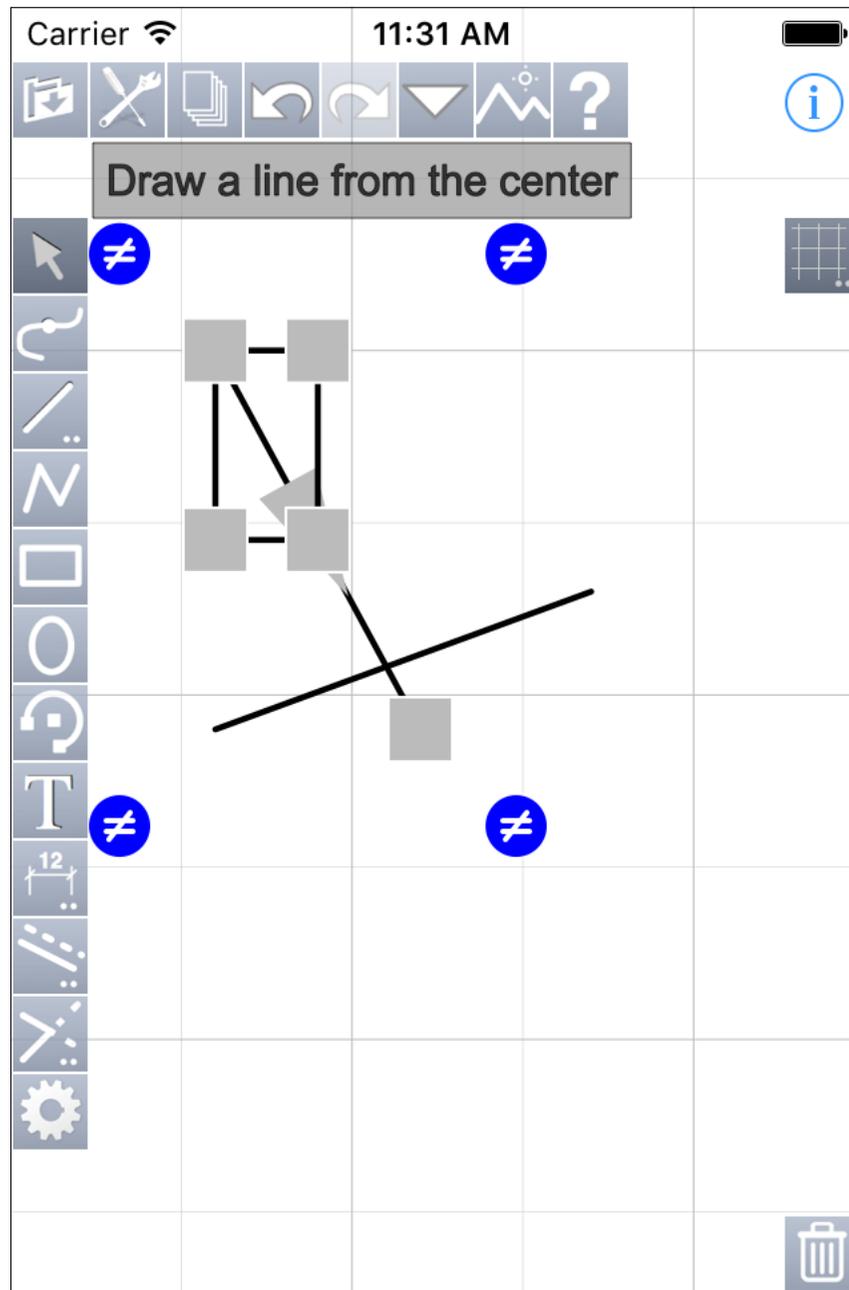
The menu "Action" : Align



Choice of how align.

If in the selected objects,
one of them is locked, the
alignment will be done on it.

The menu "Action" : Manual rotation



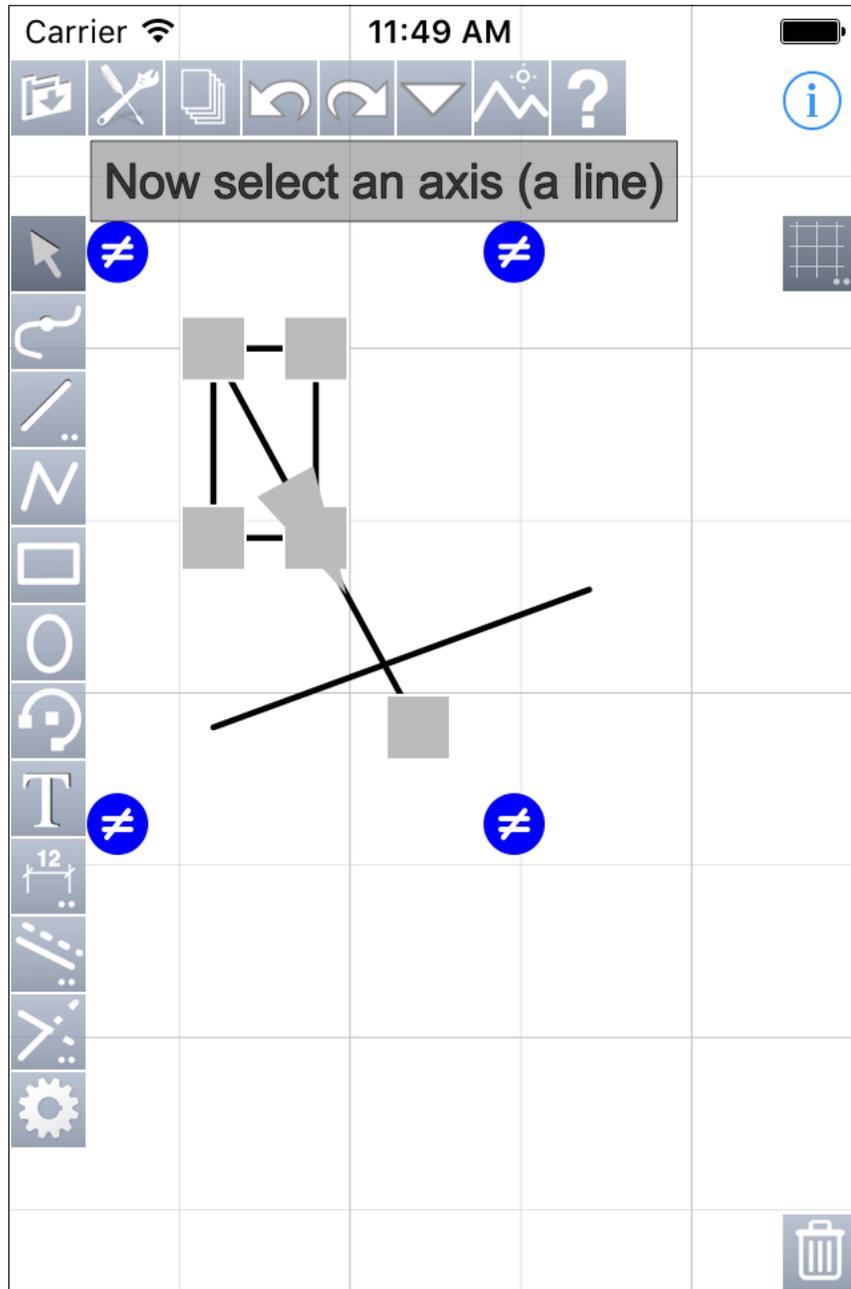
Two commands, Manual rotation and Symmetry with an axis need some complementary actions from you.

iPocket Draw shows you what to do with a text below the icons.

Here, for Manual rotation, the action is to draw an arc by beginning with a line which shows the center of rotation.

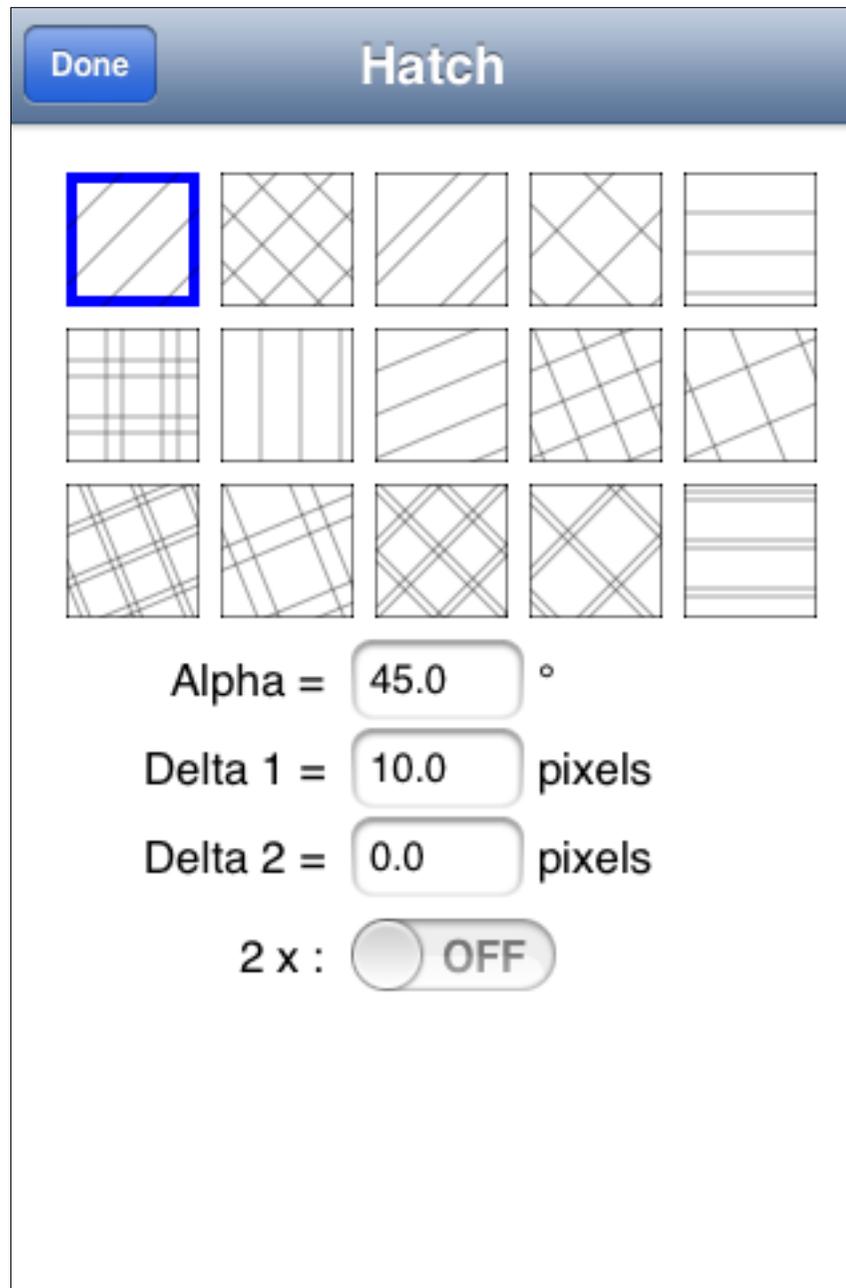
When the line (radius of the arc) is drawn, iPocket Draw asks you to draw the arc himself. (see next page)

The menu "Action" : Symmetry with an axis



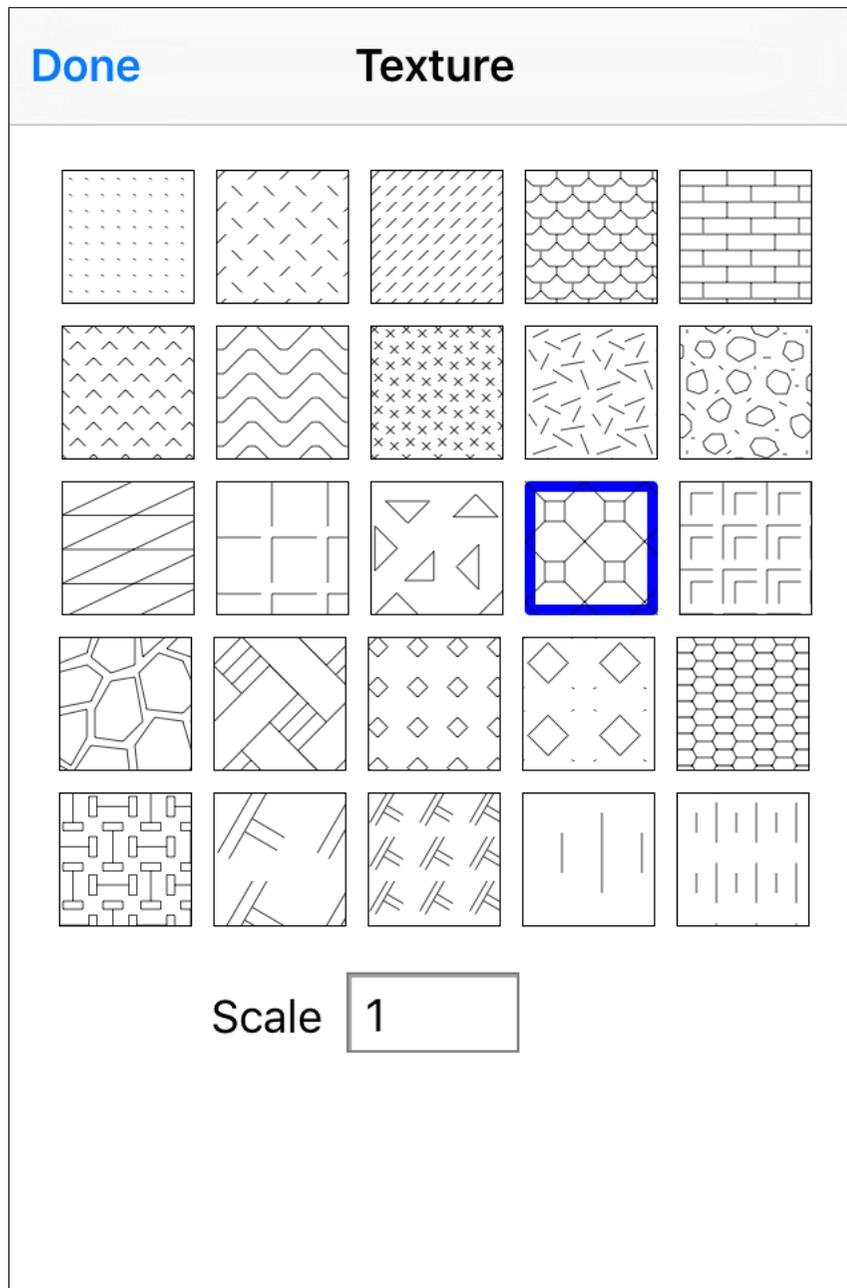
For this command, you have only to select a line which will be the axis of the symmetry.

The menu "Action" : Hatch



Parameters of action "Hatch". Here you can choose between the 15 predefined hatches or modify the parameters of the selected hatch.

The menu "Action" : Texture

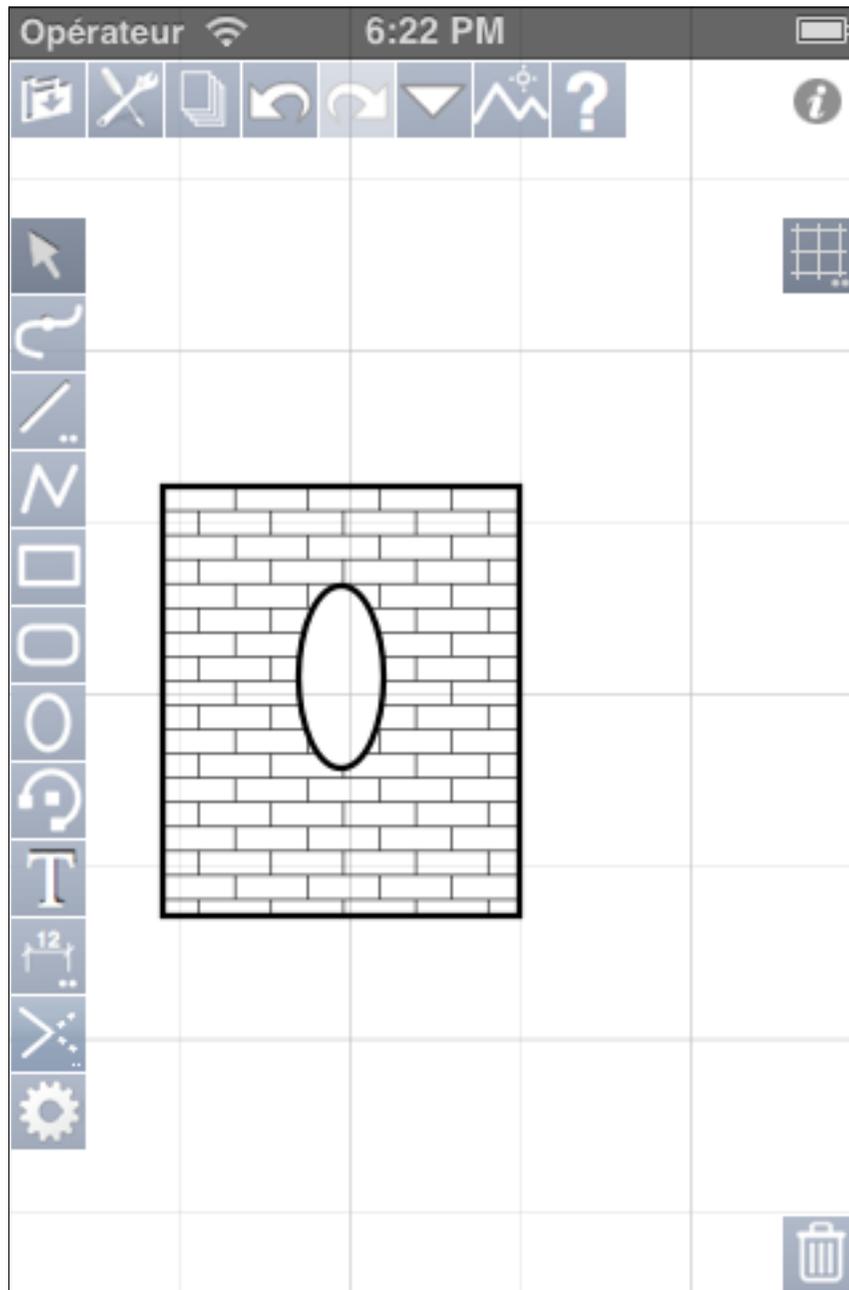


Parameters of action "Texture".
You can choose between the 15 predefined textures.

The hatches and textures can be applied on simple objects (rectangles, circles, ellipses) but also on overlapped objects and on areas defined by a set of lines, arcs, polygons. Once they are created, the hatches and the textures are independant objects.

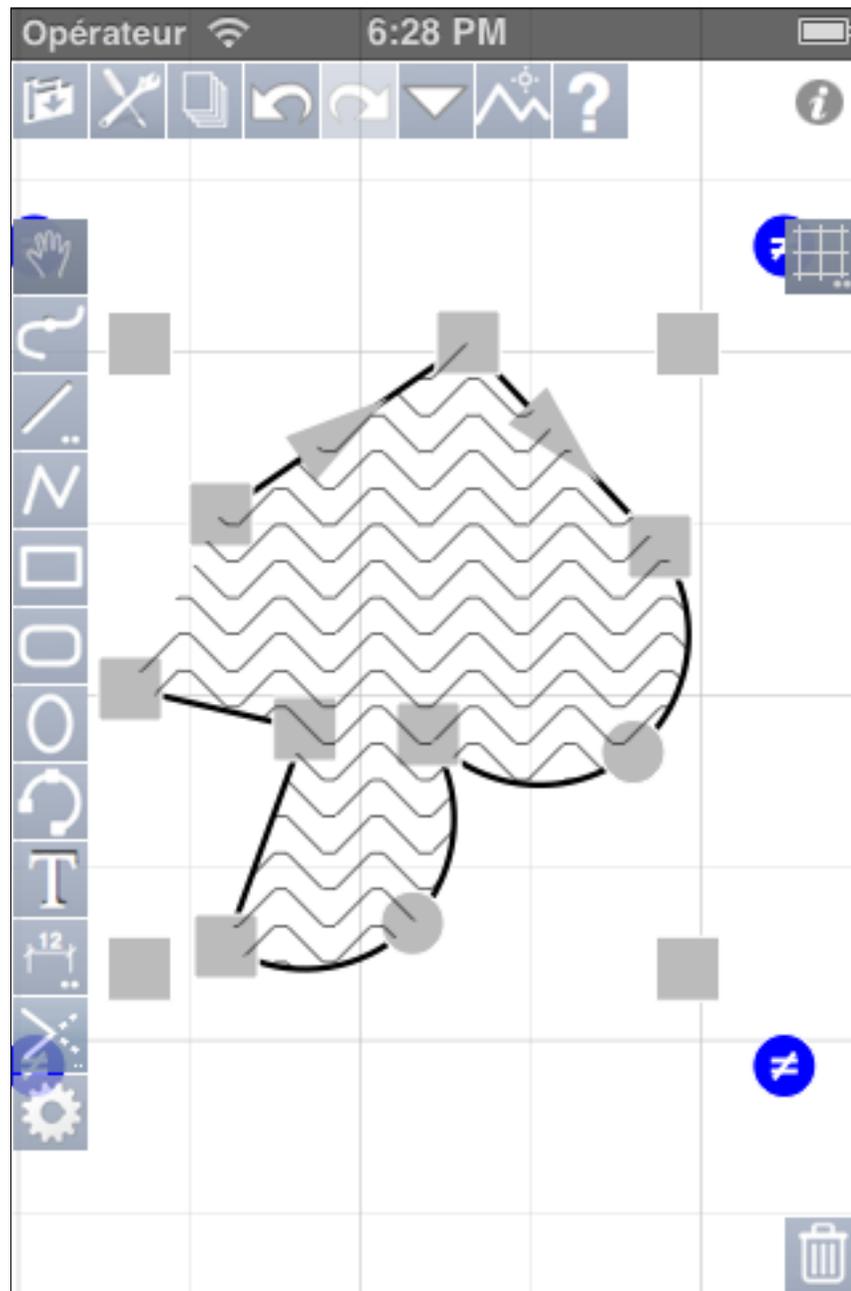
When you create a texture you can modify its scale.

The menu "Action" : Hatch or Texture



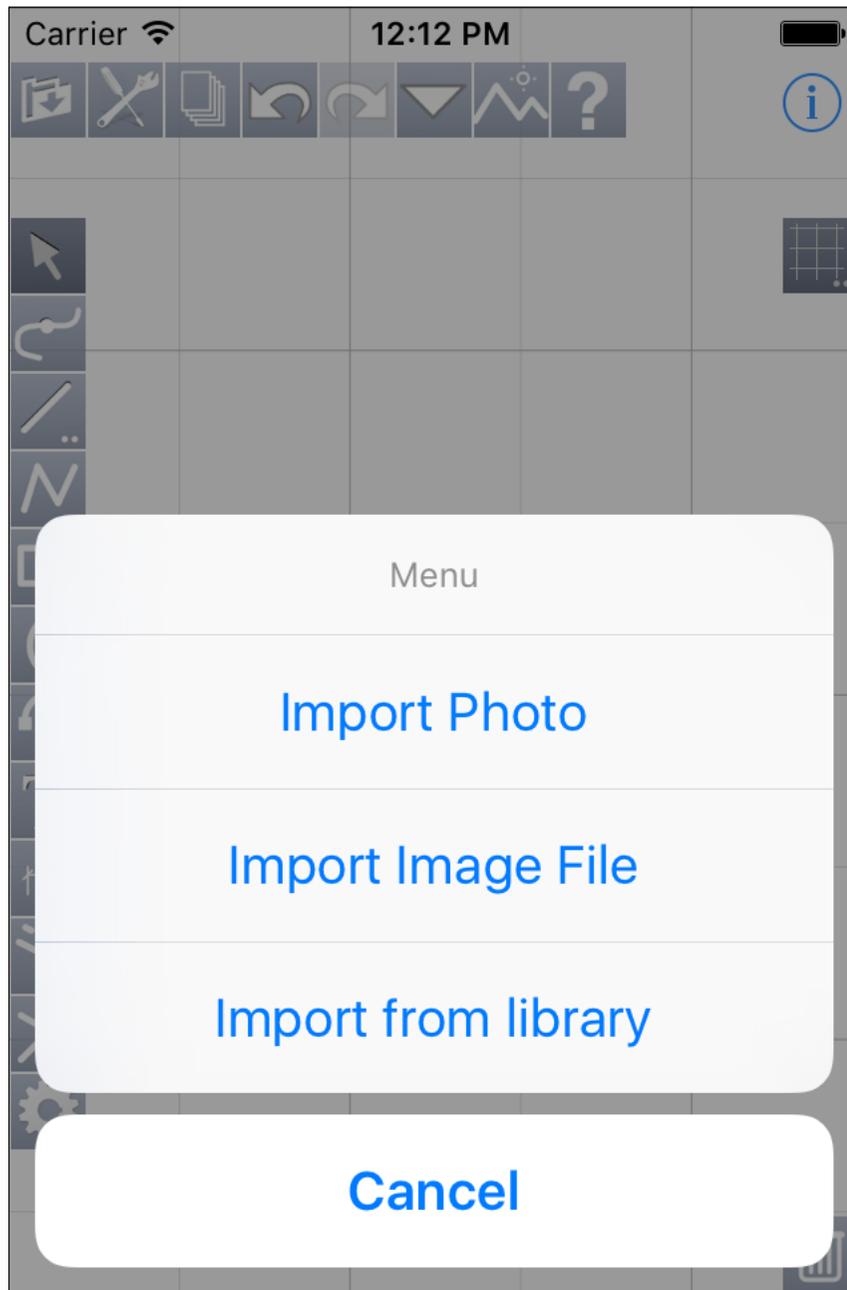
Obtained texture with the rectangle and the ellipse selected together. The result would be similar with a hatch.

Le menu "Action" : Hachure ou Texture



Obtained texture with a selection containing two lines, two arcs and a polygon with two sides. The result would be similar with a hatch.

Importation :

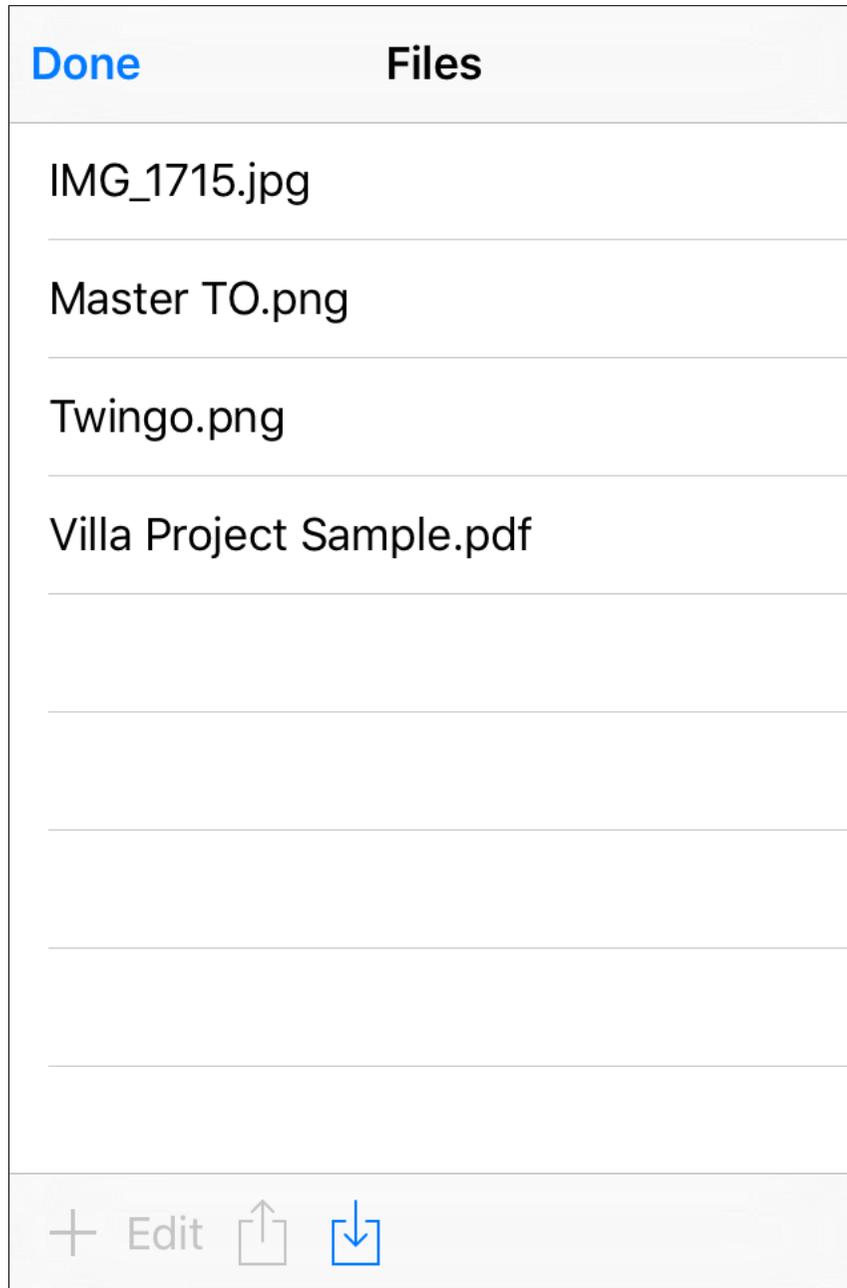


This button allows to import :

- a photo from album;
- a picture file;
- a drawing from library.

Files of picture (jpeg, png or pdf) are transferred into iPocket Draw via iTunes or apps like Air Sharing or Box or DropBox with their command "Open in".

Importation of a picture file :

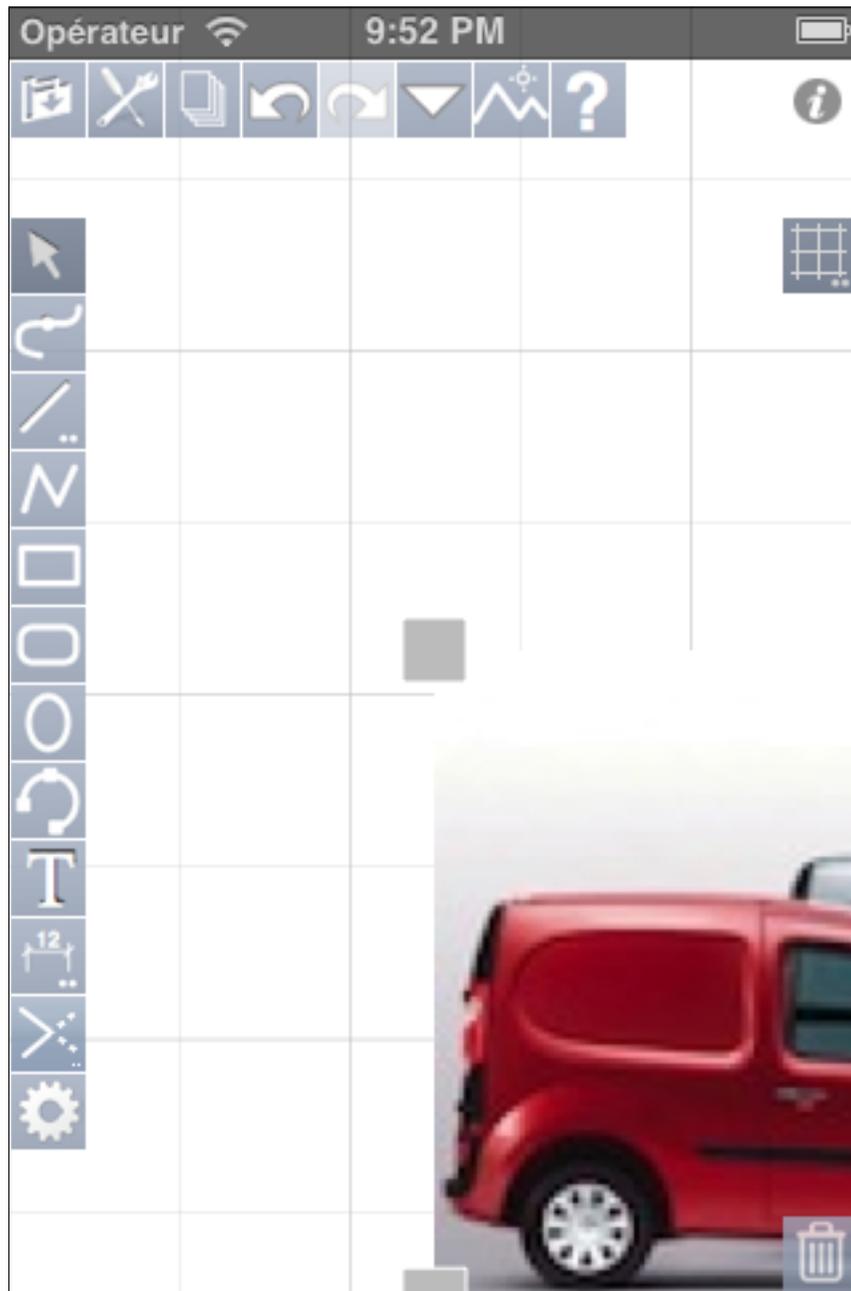


The picture files available are listed and you can choose one of them to add it into your drawing.

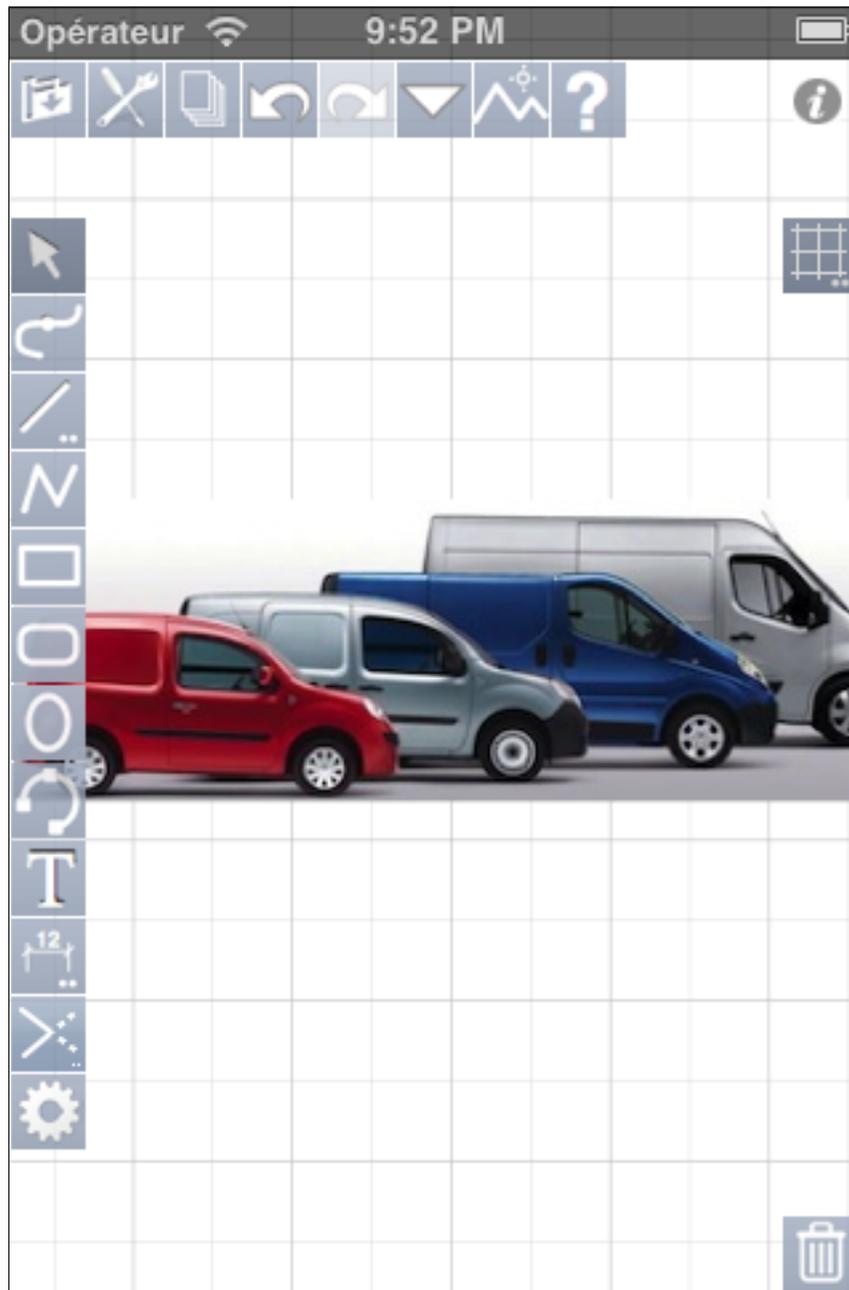
From this screen, you can import other picture files from other apps with :



Importation of a picture file :

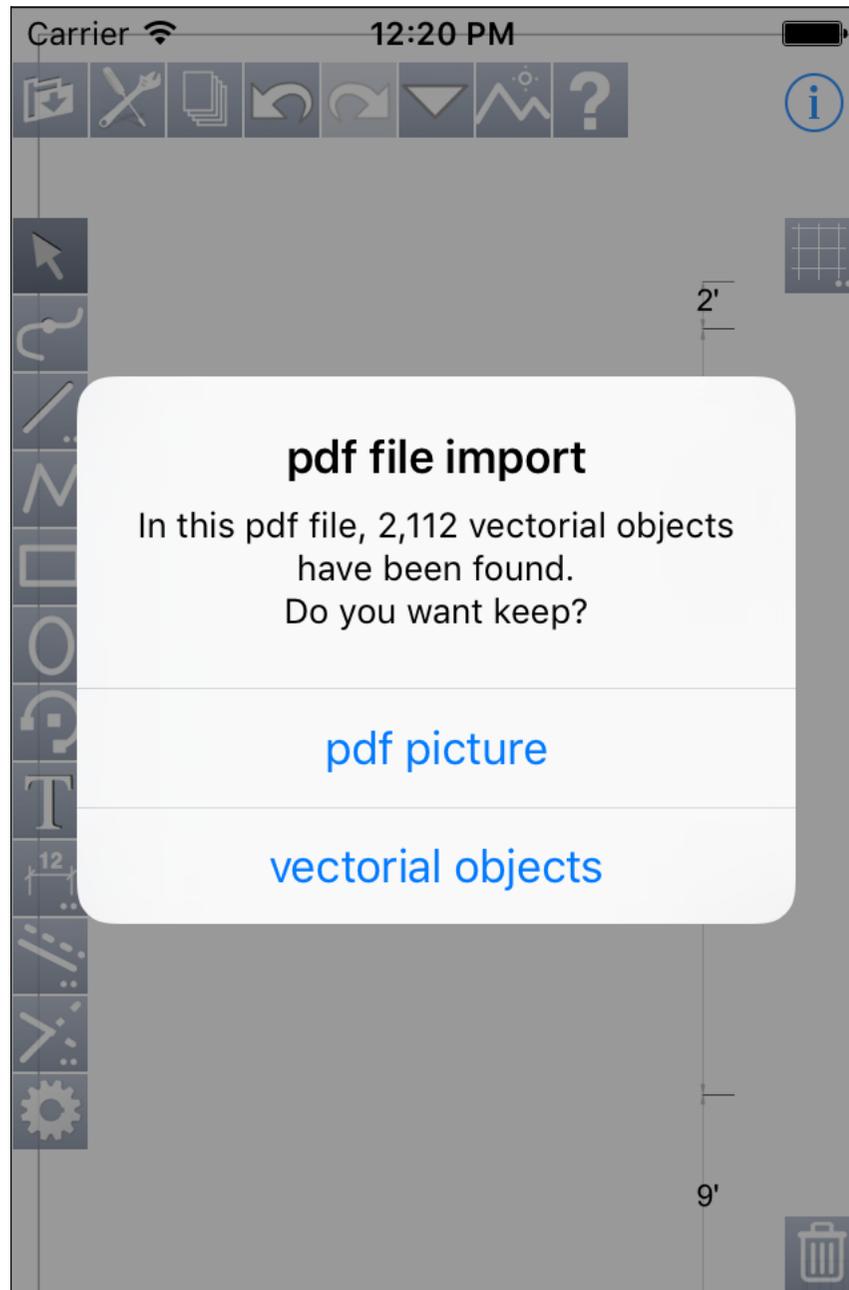


Importation of a picture file :



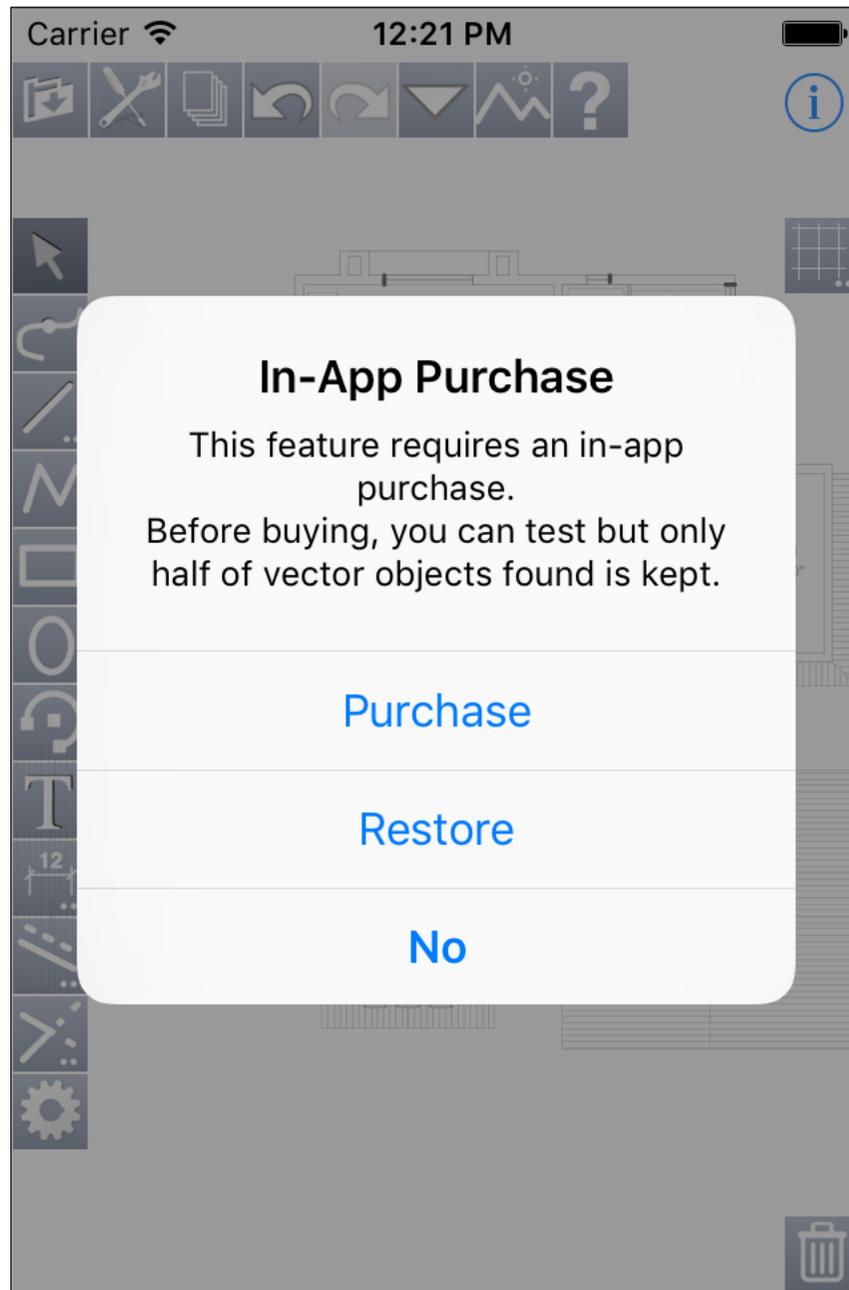
With a "Zoom all"
(4x taps), you can
display all your drawing.

Importation of a vectorial pdf file :



When importing a vectorial pdf file (= not scanned) iPocket Draw detects the presence of vector objects and offers to keep either the image or the vector objects.

Importation of a vectorial pdf file, next :



The import of vector objects requires an additional purchase. But as indicated by the warning shown against, before buying you can test it but only half vector objects found is kept.

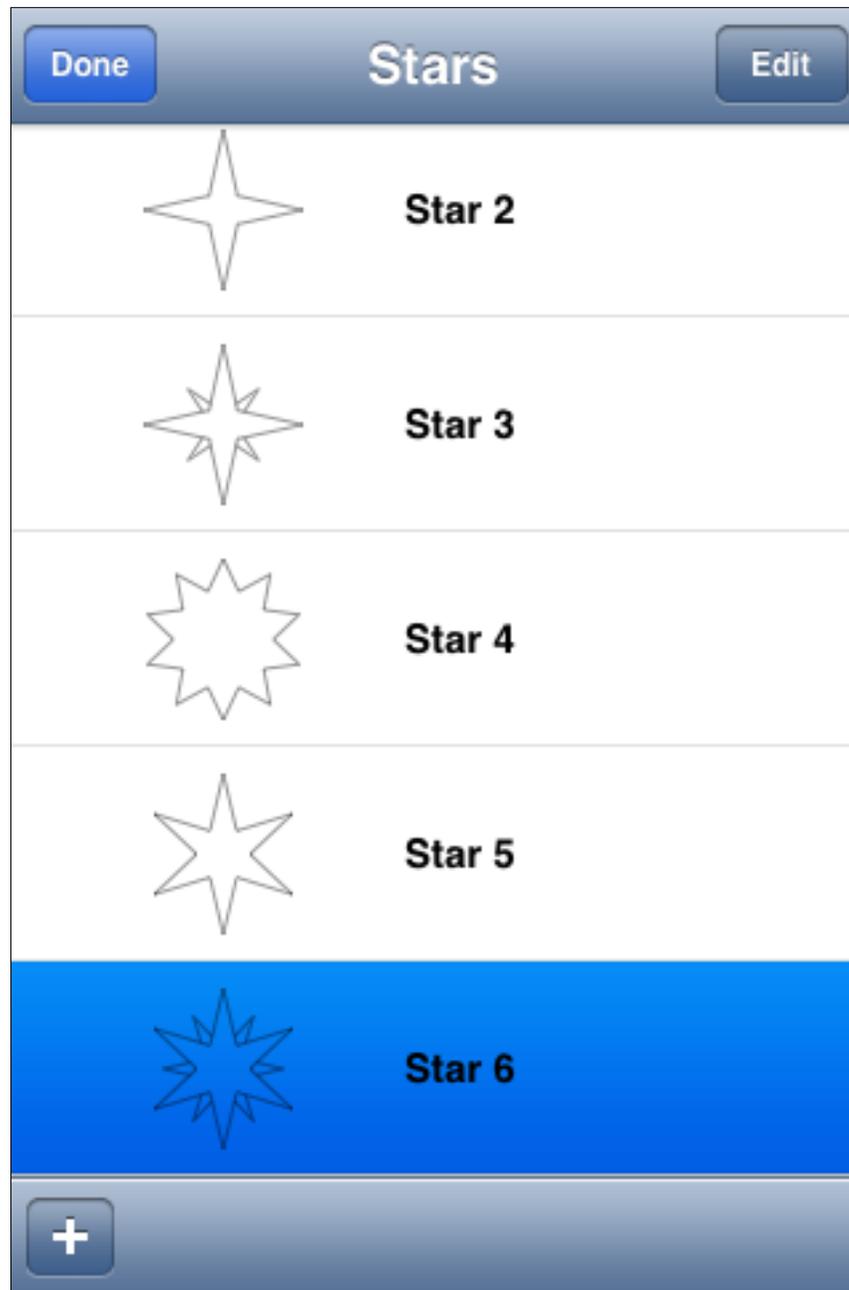
Depending on the source of the PDF file, the recognition of certain objects, especially the texts or dashed objects, may not work correctly.

Importation from library :



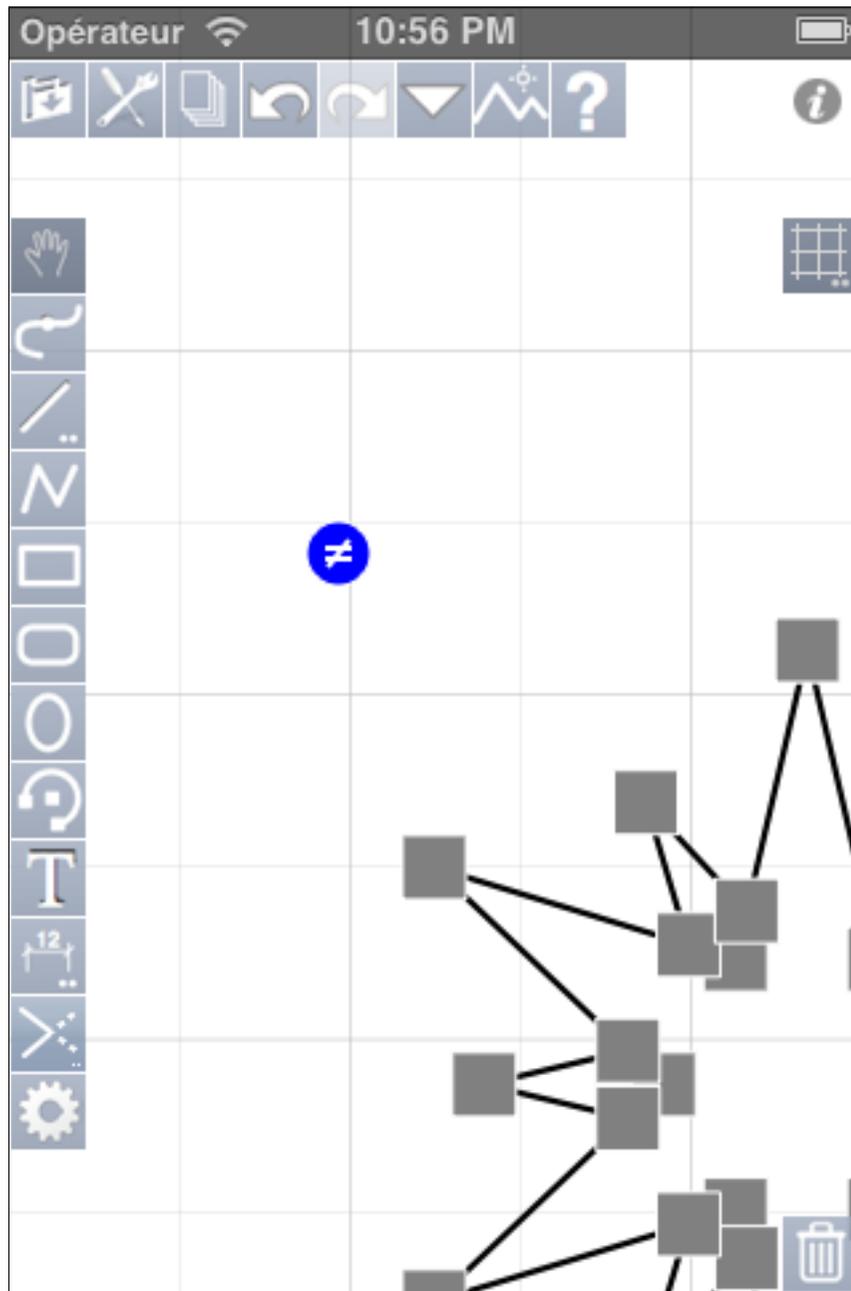
The library's files are displayed. By default, iPocket Draw has two library files : Arrows and Stars. Select this one in which you want choose a drawing.

Importation from library :



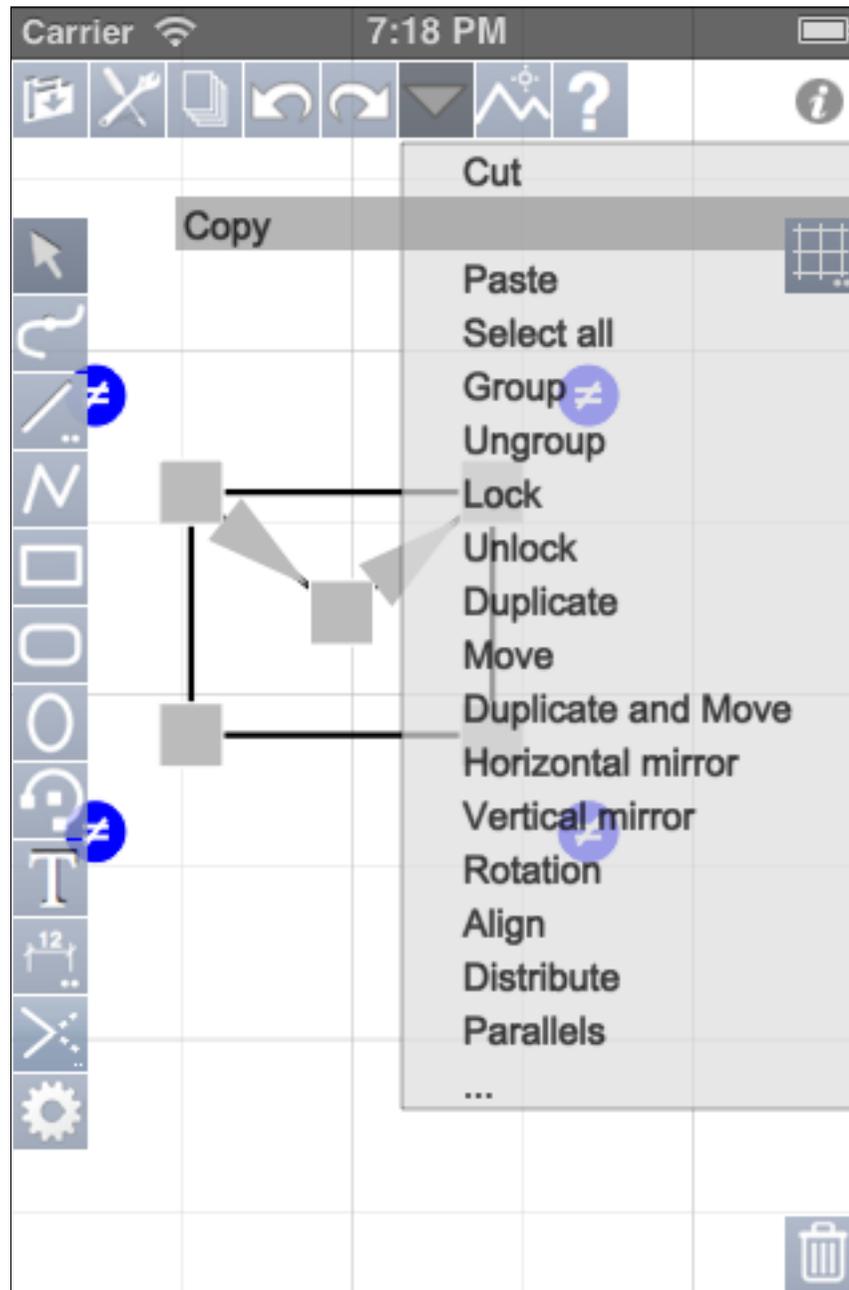
The file "Stars" was chosen.
The list of all available
drawings is displayed.
Select which one you want.

Importation from library :



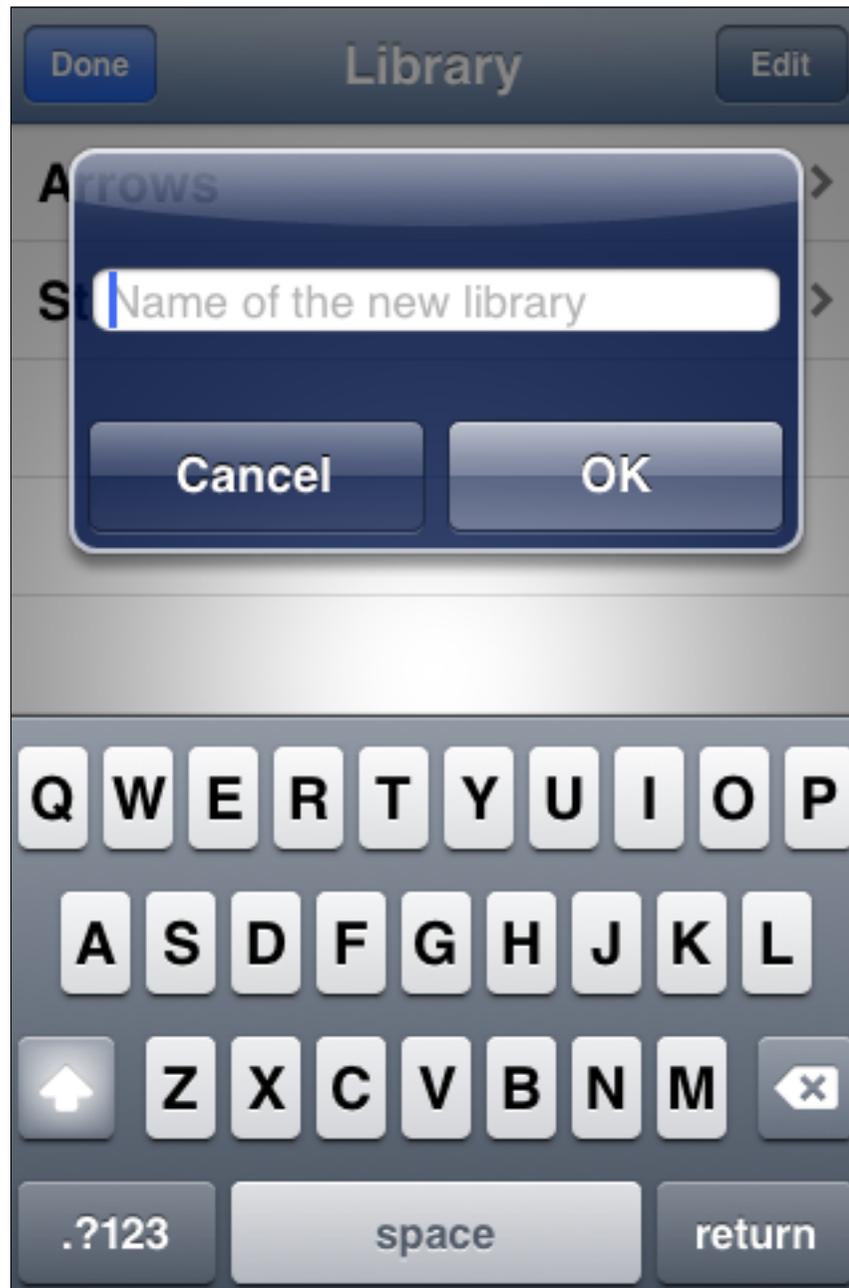
Then he is added to your drawing.

Enrich the library :



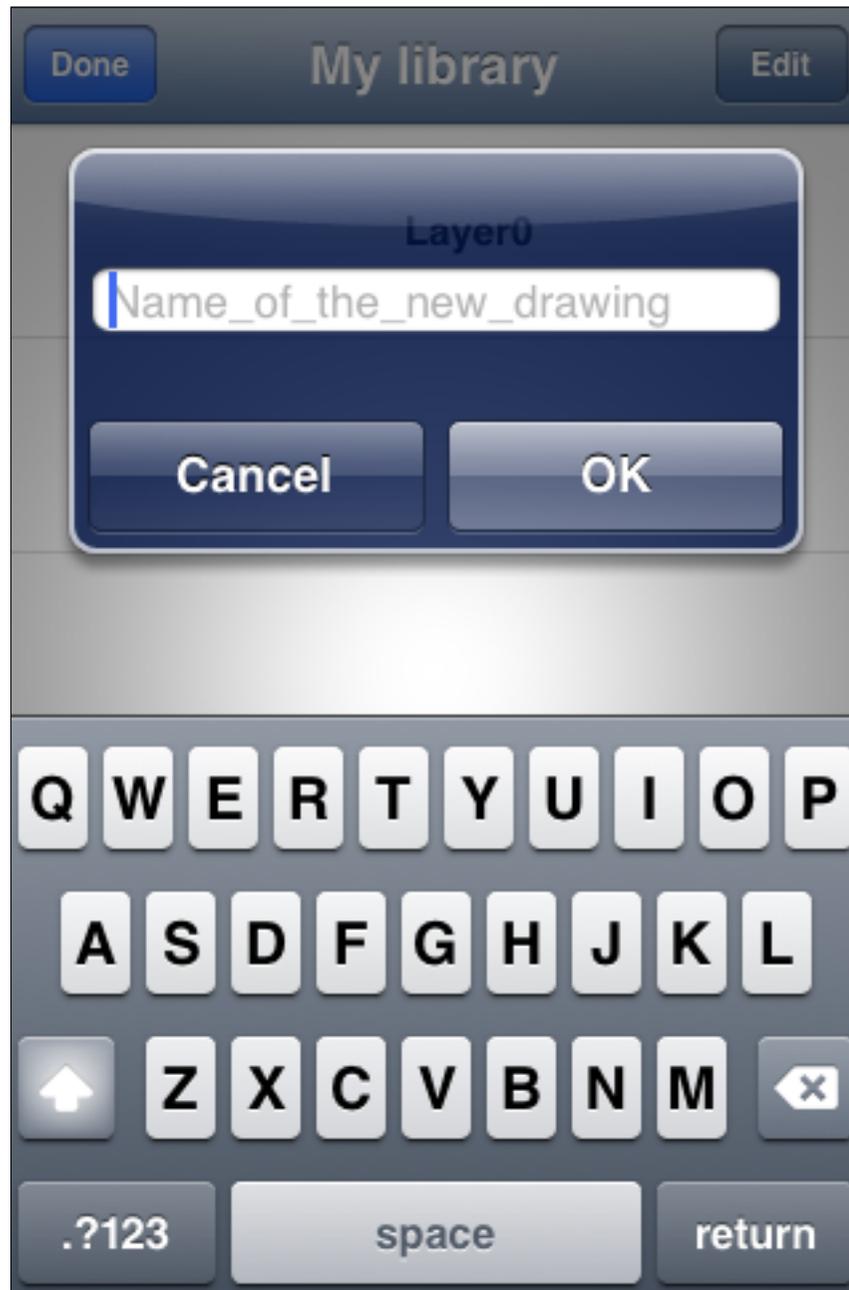
Of course you can enrich the library by adding into it your own symbols. To do this, begin by drawing a symbol, select it, then copy it (menu action - Copy).

Enrich the library :



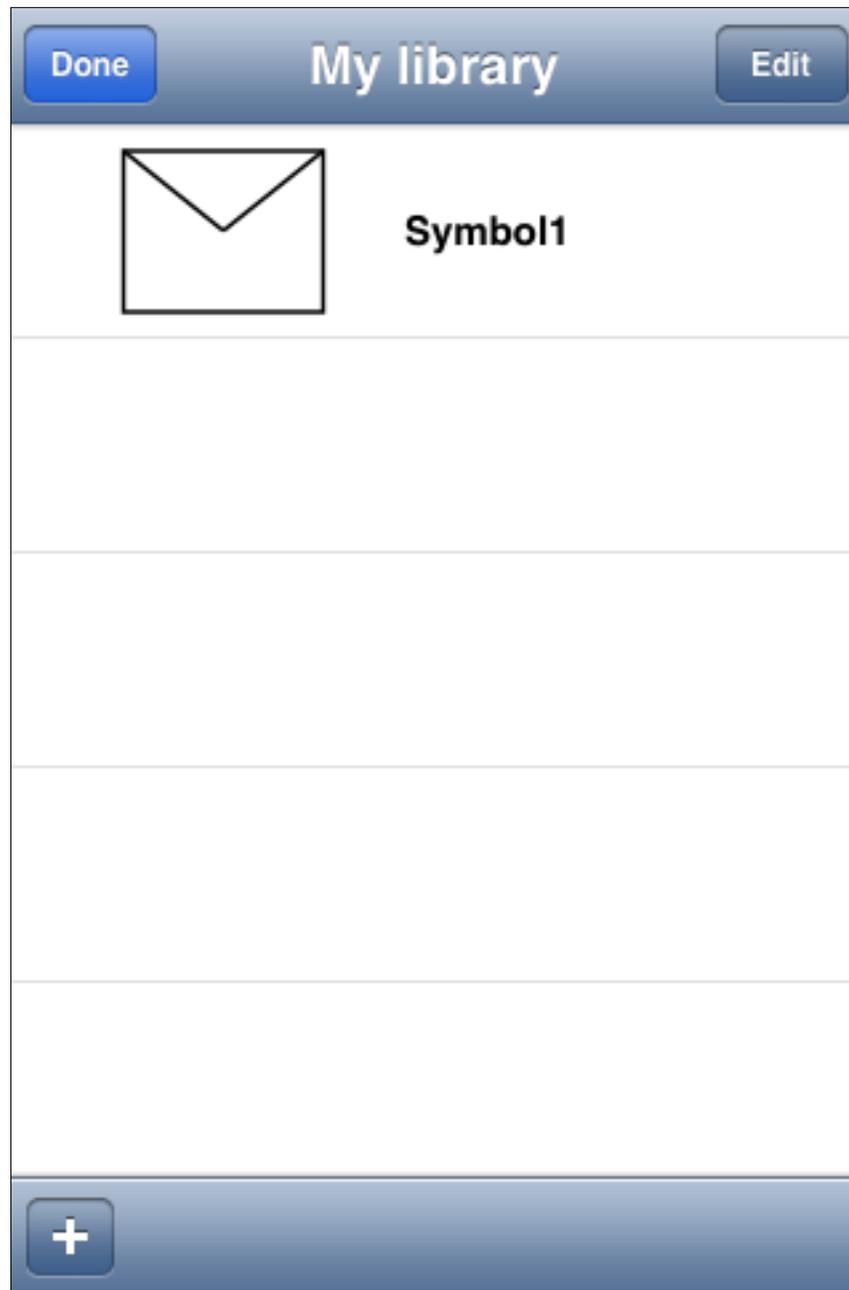
You can create a new library file or you can add a drawing into an existing library file. To create a new library file, tap on the button "+" of the library screen. A dialog is displayed to enter the name of the new library file.

Enrich the library :



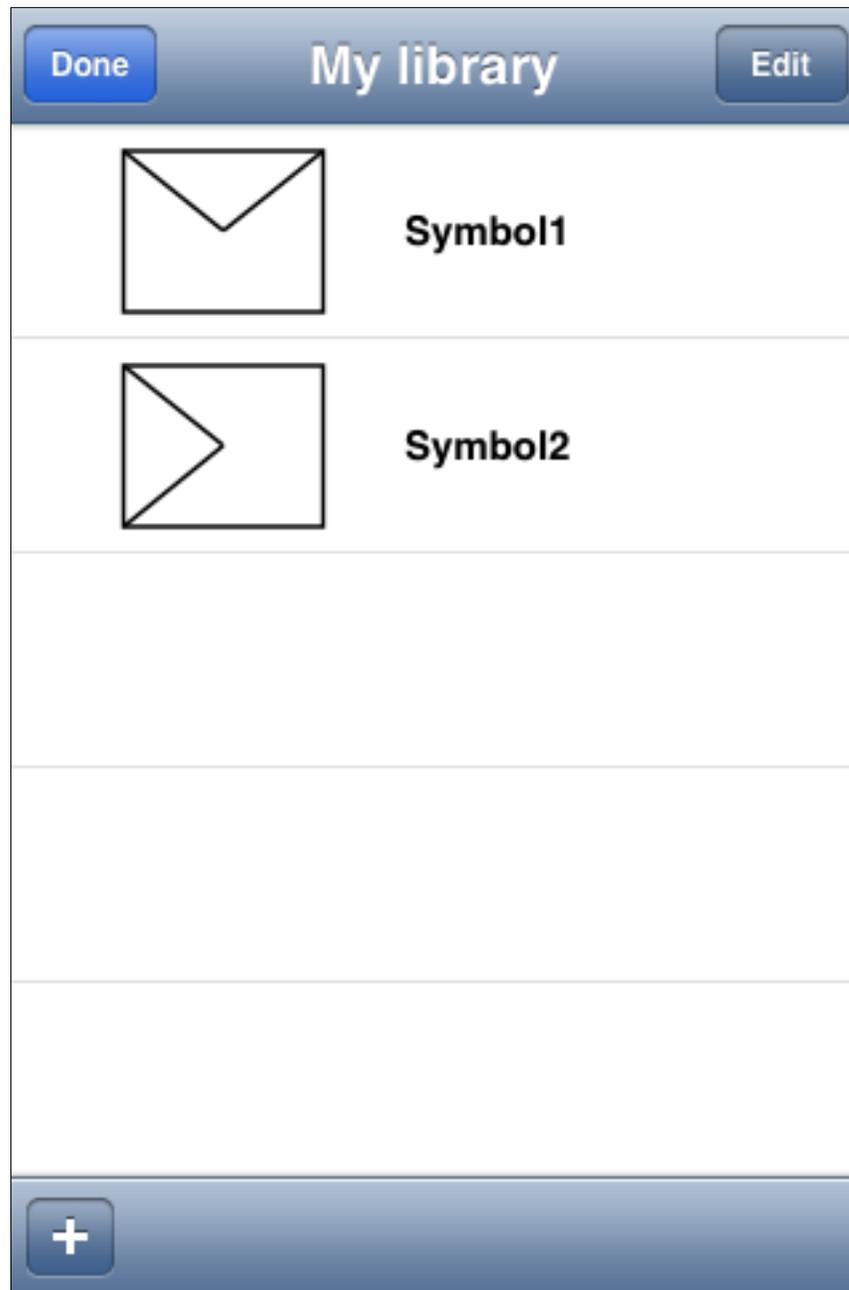
The file "My library" just comes to be created, now you must name the new drawing.

Enrich the library :



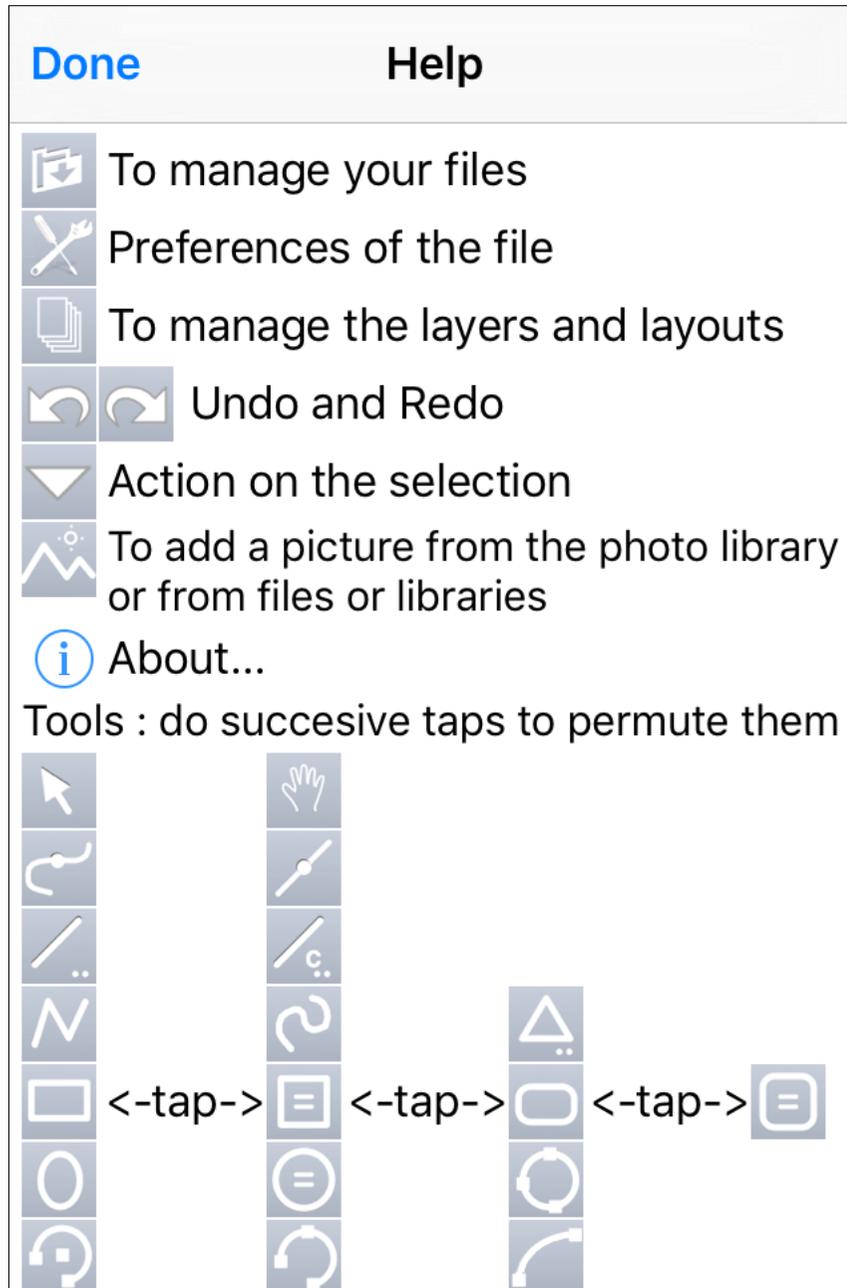
The drawing "Symbol1" has been added into the library file "My library".

Enrich the library :



The drawing "Symbol2" has been added into the displayed library file with the button "+" of this screen.

The help screen :



The top of the screen.

The help screen :



Done **Help**

Icons with .. = tools with options :
2x taps to display them

Tools that can draw from center, long press to switch

To select, move, modify objects

To move the drawing

Free line without/with vectorization

... **T** To draw objects

constrained lines

to have $dx = dy$

arc by center and radius

arc by 3 points

The center of the screen.

The help screen :



Done **Help**

-  arc by 3 points
-  arc of ellipse
-  Dimensions simples and multiples
-  Angular dimensions
-  Parallels tool
-  Extend and cut lines
-  Chamfer and fillet tools
-  Default attributes of tools or attributes of selected object
-  Grid, attractions and settings
-  Delete last or selected or all objects

2 fingers to move the drawing or to zoom in or out
2x taps on an object for its attributes
2x taps and drag to move the drawing
3x taps to reset moving and zooming
4x taps to view all objects

The bottom of the screen.

The information screen : 

iPocket Draw - release 1.93

Vectorial drawing software for
iPhone and iPad

© **Eric Pousse (author of RealCADD)**

iPocket Draw Forums

- Draw
- Modify
- Edit
- Save
- Share

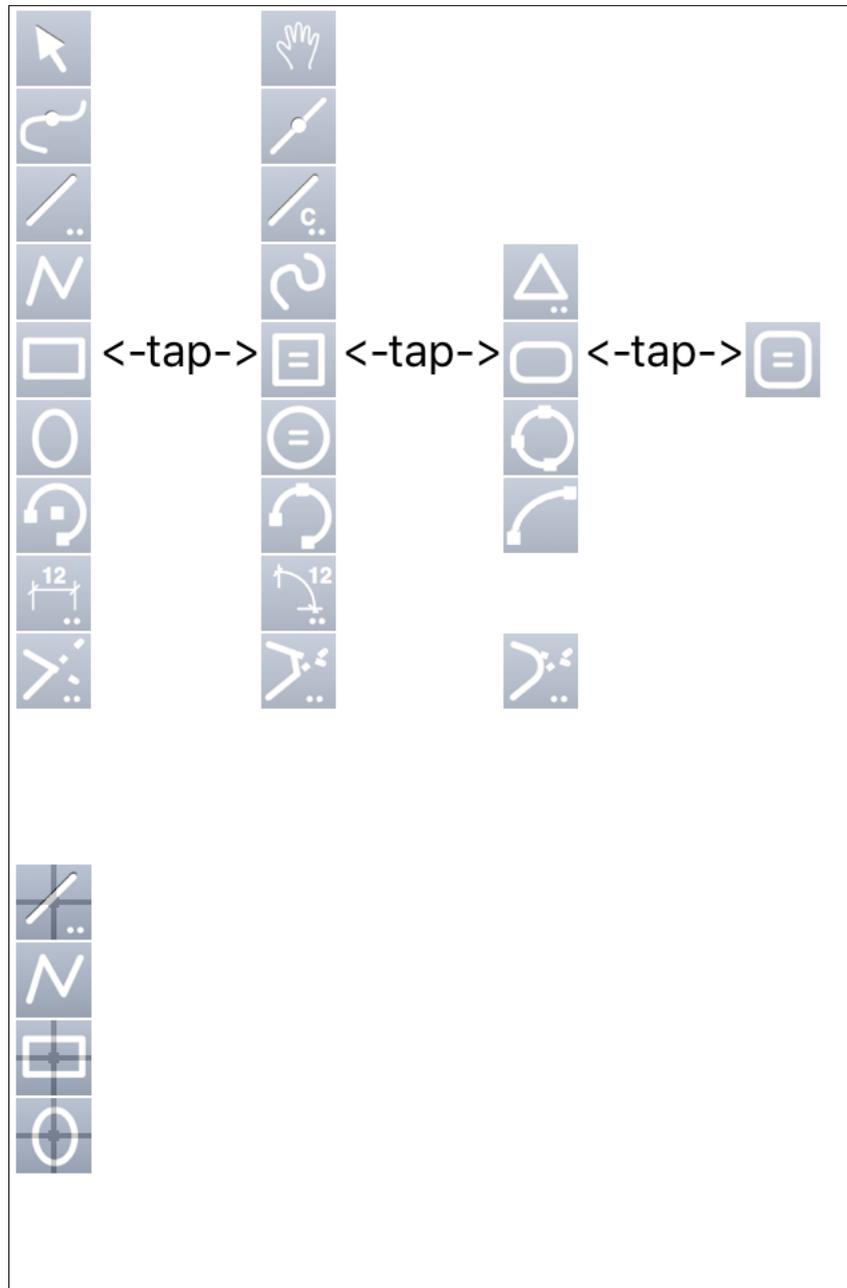
Icon of iPocket Draw is from Paul Robot Cunha

Current drawing :

untitled.rcad
2 layer(s)
3 objects

This screen gives you some informations whose the number of layers and of objects into the open drawing.

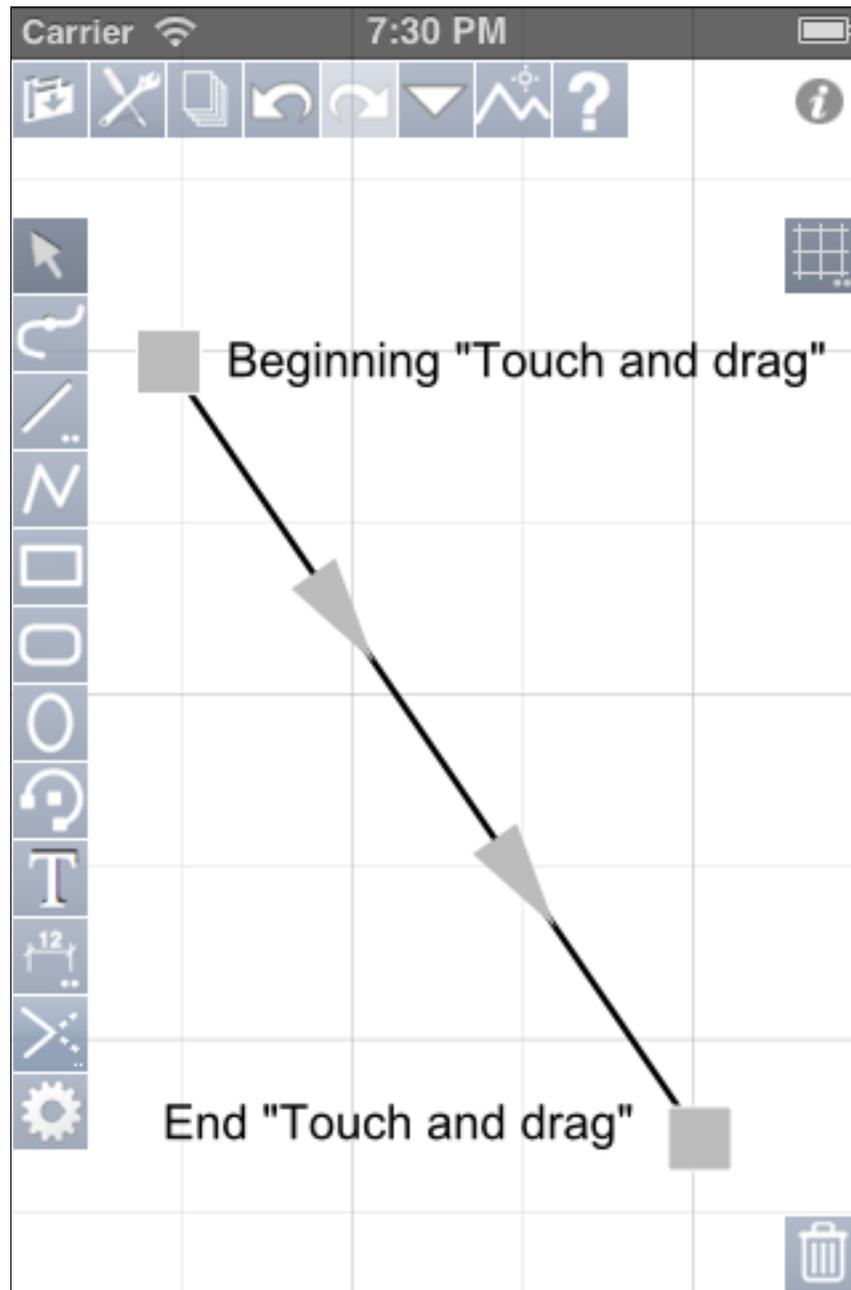
The drawing tools :



The drawing tools are not displayed all at the same time on the screen. When a tool is selected, the next tap on its icon display the next tool. The tools are grouped by kind. The tool "Arrow" permutes with the tool "Hand", the tool "Polygon" with the tool "Spline" then the tool "Regular polygon", etc. All tools with ".." can be parametered. A double tap displays the parameters screen.

A long press on the tools "Line" or "Rectangle" or "Rounded rectangle" or "Ellipse" allows to choose the drawing mode by center. A second long press resets the drawing mode. Icons of this tools in the drawing mode by center.

The drawing tools :



The use of the drawing tools is intuitive, for example, to draw a line, select the tool "Line" then put a finger on the screen to define the first point of the line then move your finger on the screen until the second point of the line then remove your finger from the screen. All tools which need two points work the same way. If more than two points are needed, the two first are done like for a line and the others with others "touch and drag".

Parameters of the tool "Constrained line" :



Done **Constrains angles**

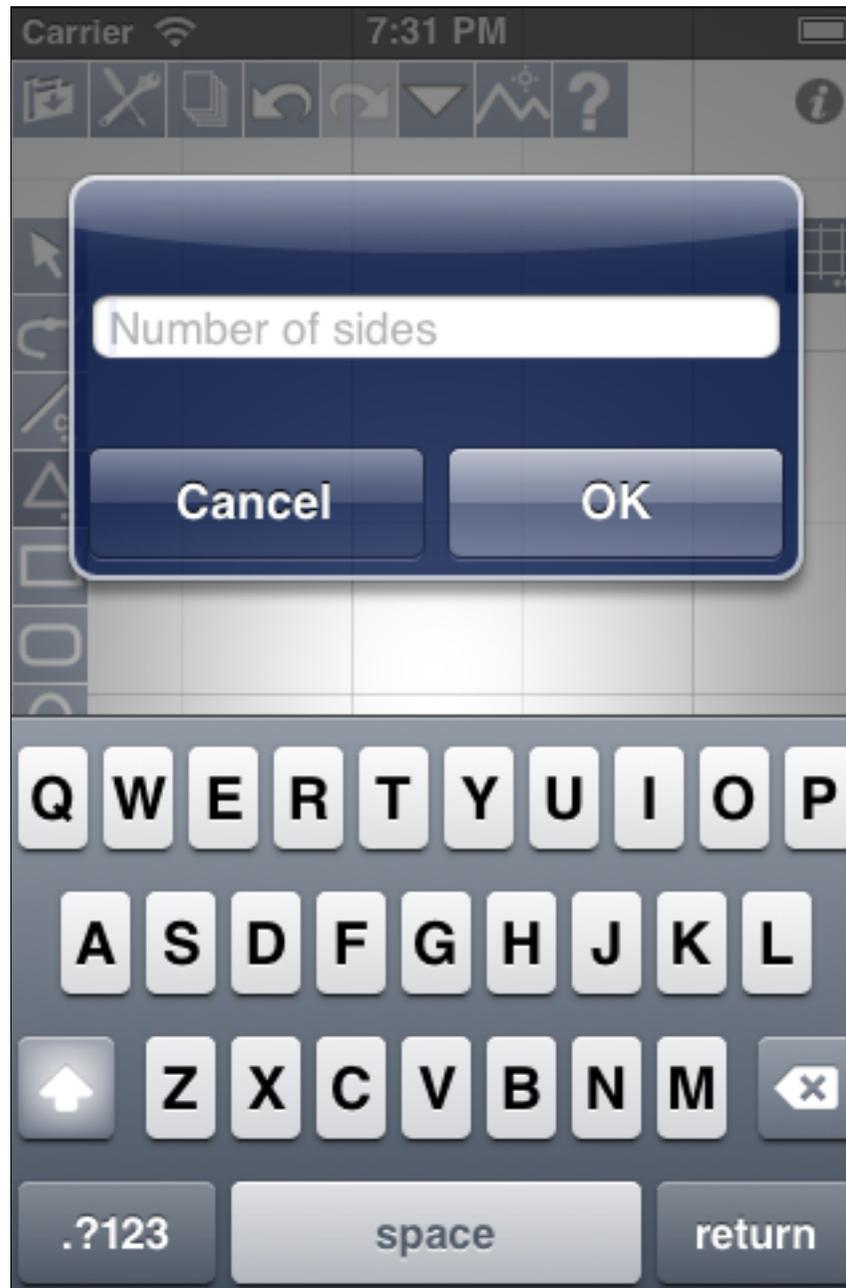
Enter angles only between 0 and 180°, for each, angle and angle + 180° is constrain.

Angles in degrees :

0	45	90
135		

The tool "Constrained line" allows you to draw lines according predefined angles that you define with this screen. Enter only angles between 0° and 180°.

Parameters of the tool "Regular polygon" :



The tool "Regular polygon" needs only one parameter : the number of sides of the polygon to create.

Parameters of the tool "Dimension" :



Done **Dimensions**

L1 pixels
L1 =

L2
L2 =

L3
L3 =

OFF Display unit

ON XX.0 -> XX

ON Turn texts

Line and text attributes

Unit and accuracy

The tool "Dimension" has much more parameters. You can set the length of the bond line and its kind. If L1 and L2 are set, the bond line will have a fixed length (L1+L2) but if L3 is fixed instead of L2, the bond line may be variable.

See the next page.

You can choose the kind of arrow.

You can also choose to display the unit of length, to remove unnecessary zeros and also to turn the texts according the dimension lines.

After the first dimension line, the tool is changed as multiple dimension line



to allow you to continue the same dimension line. To begin a new dimension line, select again the tool.

Line and Text attribute of the tool "Dimension" :



Done

Line's Width : 0,25

Line : [Color palette]

Opacity : 100%

Back : [Color palette]

Opacity : 100%

Filled : OFF **B** **/** **U**

Arial Rounded M...	10
Trebuchet MS	11
Arial	12
Marion	14
Menlo	16

The "Dimension" tool has its own prefs for its lines and its texts and you can set them here.

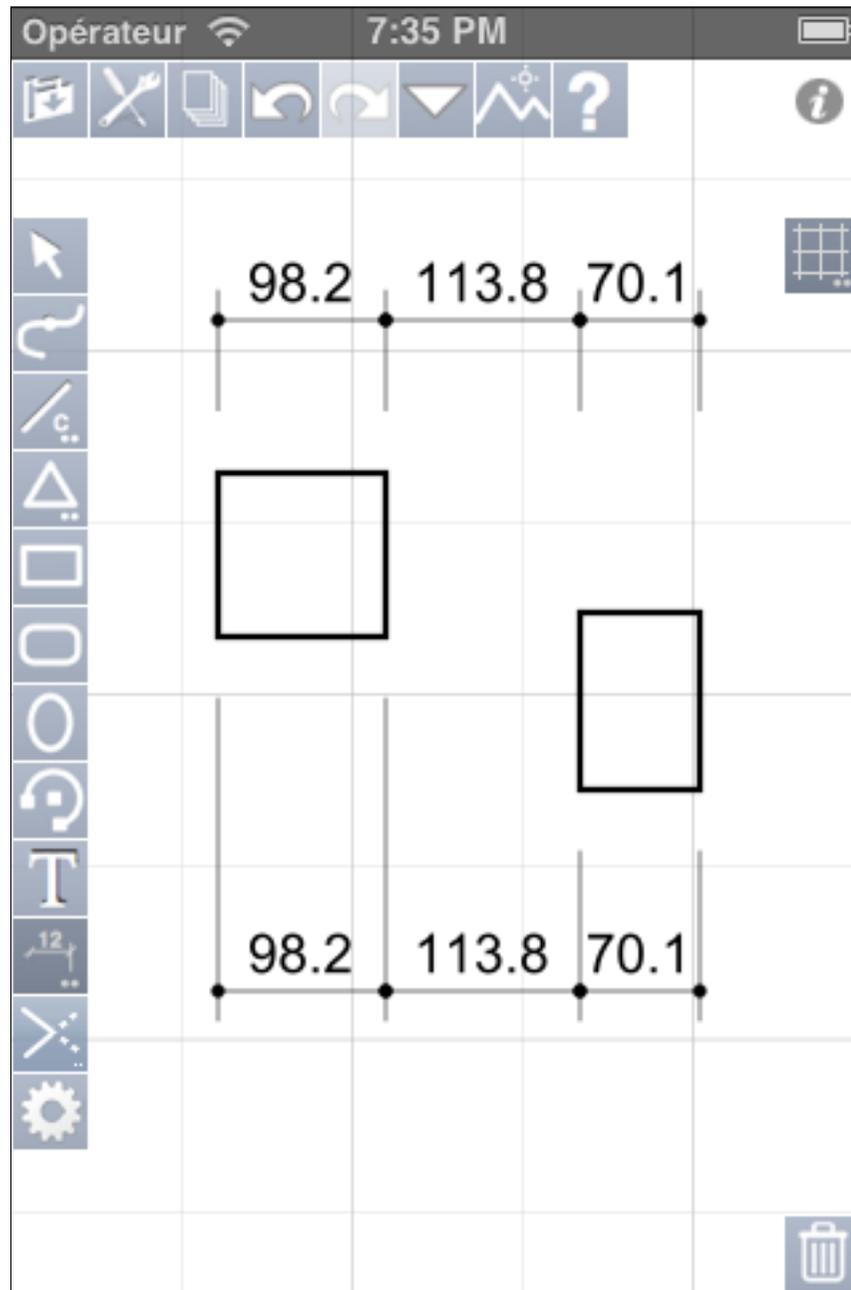
Unit and Accuracy of the tool "Dimension" :



Preferences	
Unit	Accuracy
meters	1,1
centimeters	1,12
millimeters	1,123
pixels	1,1234

The unit and the accuracy of the "Dimension" tool can be different than those of the drawing. For example, you can draw in meters and do dimensions in centimeters.

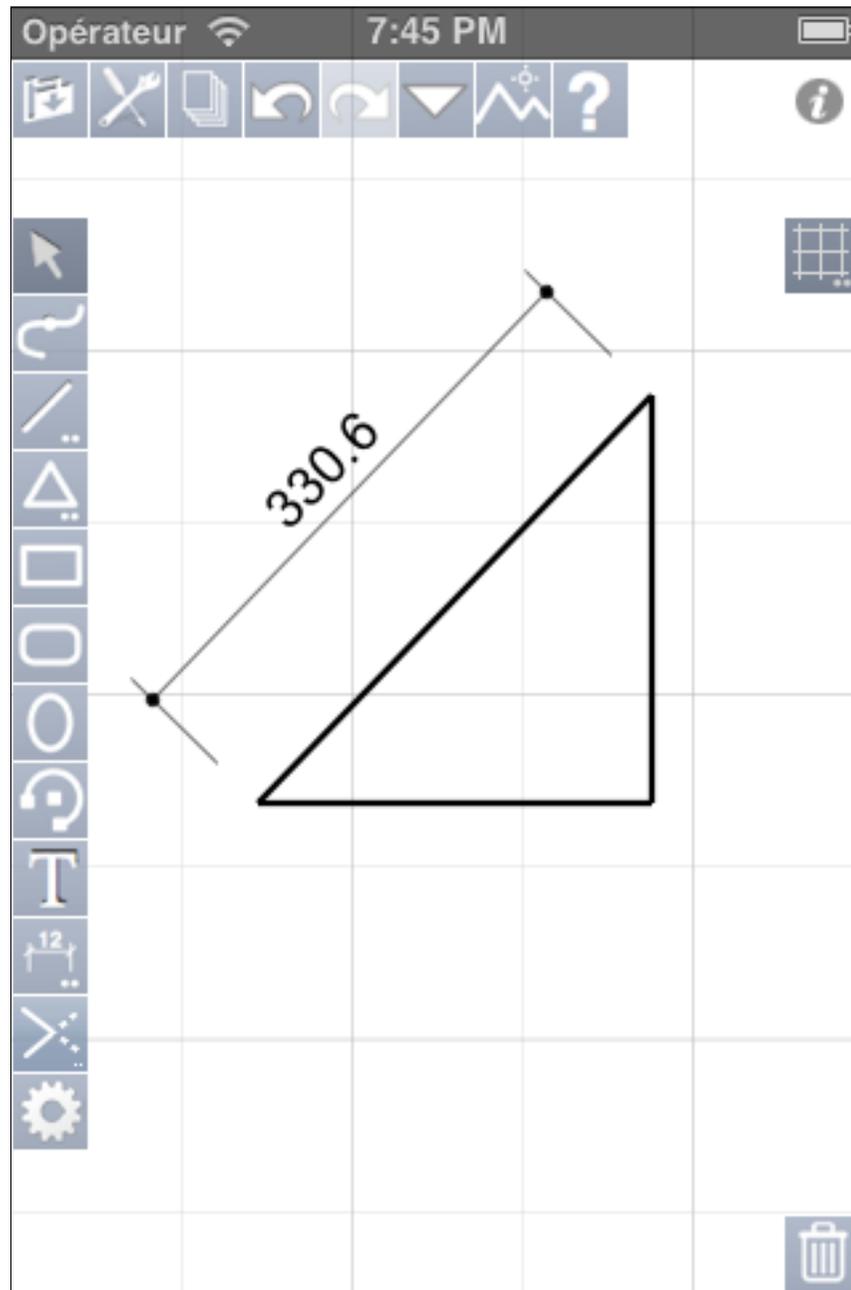
Parameters of the tool "Dimension" :



Dimensions with
L1 and L2 fixed.

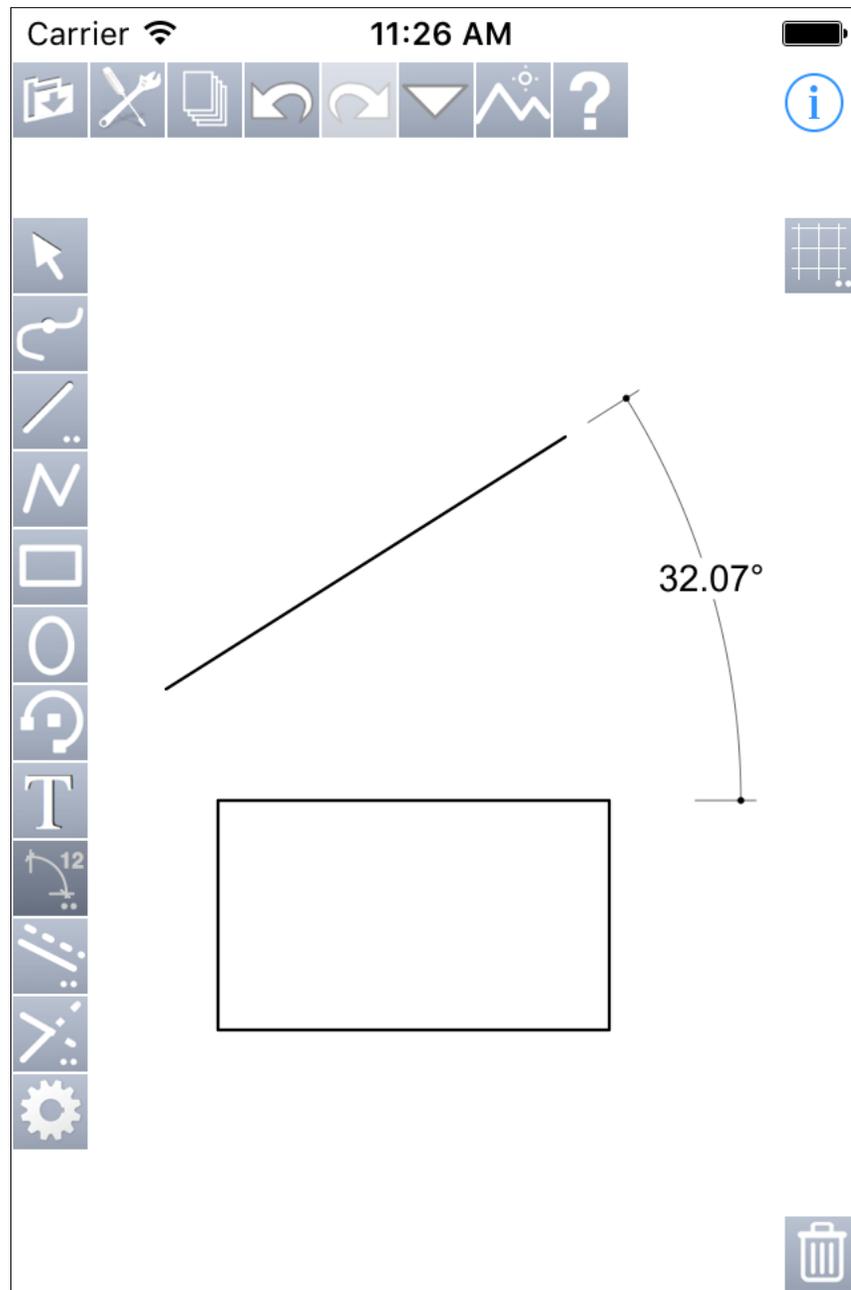
Dimensions with
L1 and L3 fixed.

The tool "Dimension" :



Of course, this tool allows you to draw inclined dimension lines.

The tool "Angular Dimension" :



The tool "Parallels" :



Done **Parallels**

Number :

Offset : cm

Offset mode :

Interactive Single Multiple

New objects on Active Layer

If off, new objects will be added on same layer than initial object.

Via the settings screen, you choose between an interactive mode, single or multiple of shifting. The value for the shift don't need to be indicate in interactive mode since in this case the offset is given by a "tap and drag". For the other two modes the choice of the side of the parallel(s) is given by the user also with a "tap and drag" from the object of which you want parallels.

Parameters of the tool "Prolong and cut" :



Done Options

ON Extend

and

ON Cut

and

ON Delete

ON Second line

The options of this tool allow to use it by different ways :

- only to prolong lines
- to prolong and cut lines
- to prolong, cut and delete.

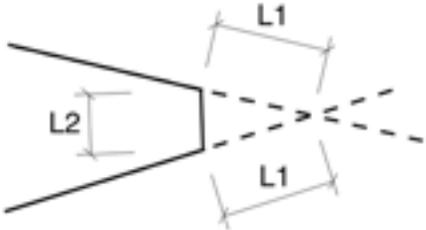
To use this tool, select it and drag a line between two objects whose at least a line.

If you use it on two lines, the last switch allows to do the action on the two lines or only on the first.

Parameters of the tool "Chamfer" :



Done Options chamfer



L1 = pixel

ou

L2 = pixel

To use this tool, select it and drag a line between two lines after having fixed L1 or L2.

Parameters of the tool "Fillet" :



Options fillet

L1 = pixel

ou

R = pixel

To use this tool, select it and drag a line between two lines after having fixed L1 or R.

Default attributes of objects :



Done **Default Attributes**

Line's Width : 1.00

Line :

Line :

Opacity : 100%

Back :

Opacity : 100%

Filled : OFF **B** **/** **U**

Arial Rounded...	12
Trebuchet MS	14
Arial	16
Merion	18

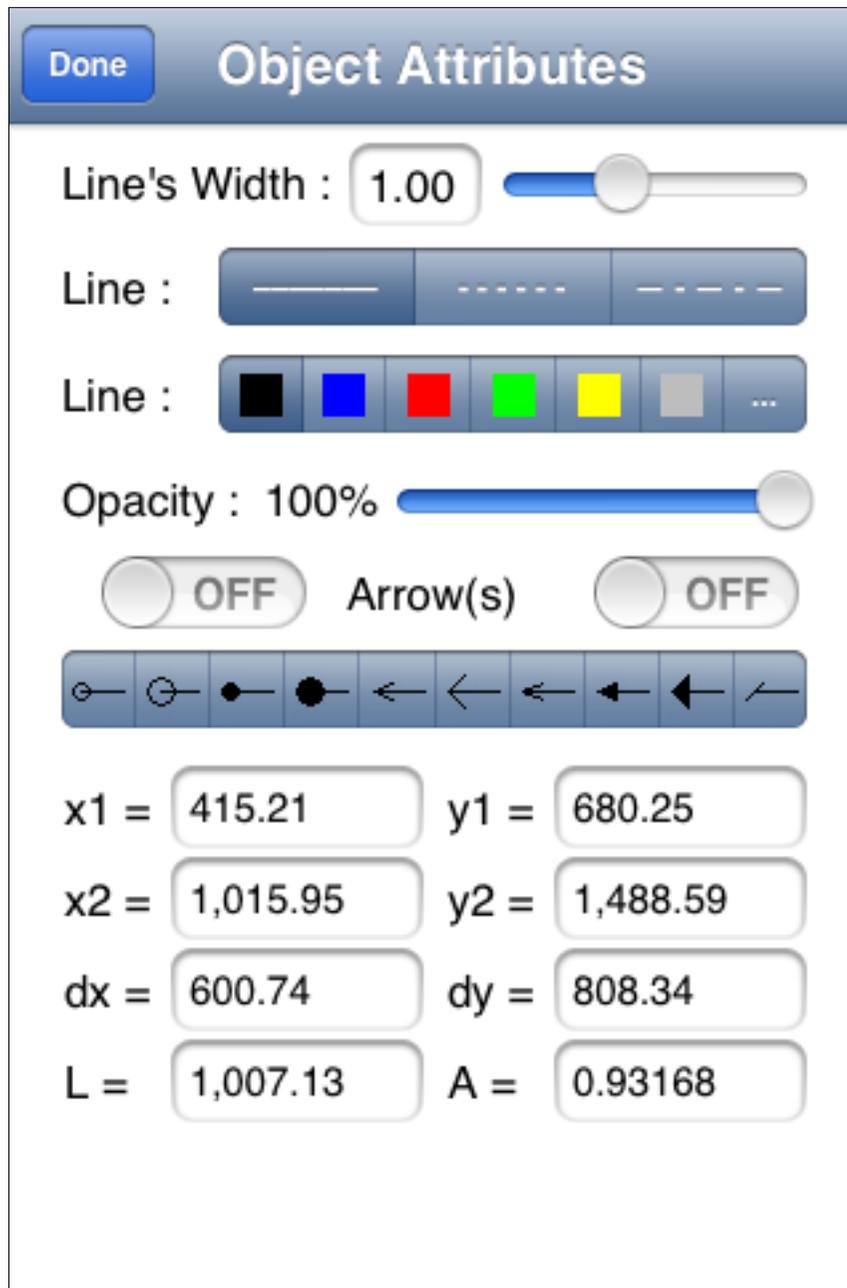
One tap on this button displays this screen to fix the default attributes of objects to be create. So you can define : the width, kind, color and opacity of lines, the color and opacity of fill color and choose if objects will be filled or not.

After you have text attributes : B, I, U to have bold, italic and underlined text then the choice of font and the size of characters.

If none object is selected before that a new one is created, this default attributes will be used.

By cons, if an object is selected before the start of a new object, the selected object's attributes will be applied at the new object.

Object's attributes :  or 2x tap on object



Done Object Attributes

Line's Width : 1.00

Line :   

Line :       ...

Opacity : 100%

OFF Arrow(s) OFF



x1 = 415.21 y1 = 680.25

x2 = 1,015.95 y2 = 1,488.59

dx = 600.74 dy = 808.34

L = 1,007.13 A = 0.93168

When the same screen is called with at least one object selected, its content is adapted according to the kind of the object.

Here with an object "Line". The screen displays the object's attributes and also its geometric data. For a line, the abscissa and the ordinate of its two points, its dx and dy, its length and its angle.

All this data can be modified.

Object's attributes :  or 2x tap on object

OFF Arrow(s) OFF



x1 = 415.21 y1 = 680.25

x2 = 1,015.95 y2 = 1,488.59

dx = 600.74 dy = 808.34/2

L = 1,007.13 A = 0.93168

1 2 3 4 5 6 7 8 9 0

- / : ; () \$ & @ ”

#+= . , ? ! ’ 

ABC space Done

To modify a value,
you can enter a new
value or a formula.
Here we want to
divide by 2 the dy.

Object's attributes :  or 2x tap on object

Done **Object Attributes**

Line's Width : 

Line : 

Line : 

Opacity : 100% 

Back : 

Opacity : 100% 

Filled : OFF

x1 = y1 =

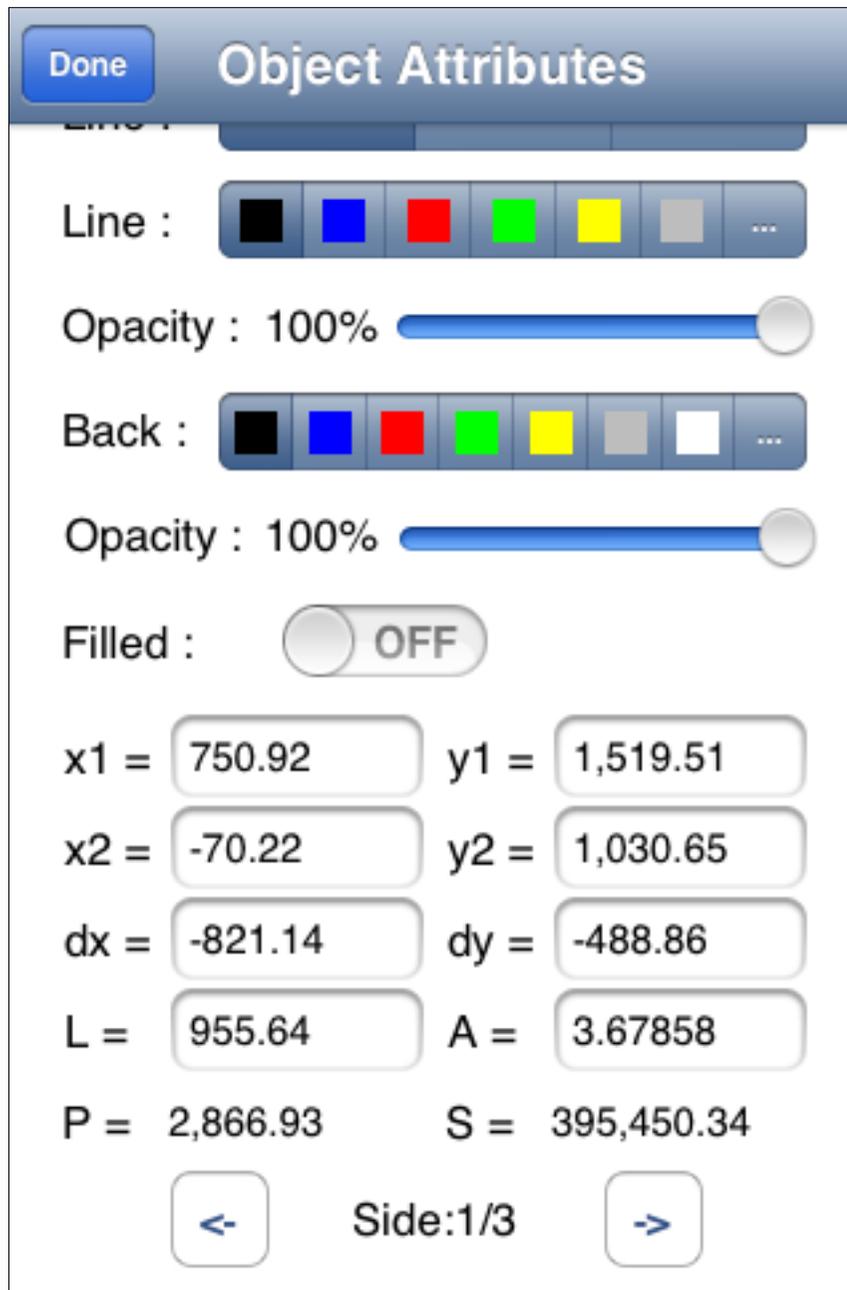
x2 = y2 =

dx = dy =

P = 2,782.82 S = 482,908.65

Here a rectangle is edited.
There is no more length
and angle but there is
the perimeter (P)
and the area (S).

Object's attributes :  or 2x tap on object



Done **Object Attributes**

Line : 

Opacity : 100% 

Back : 

Opacity : 100% 

Filled : OFF

x1 = y1 =

x2 = y2 =

dx = dy =

L = A =

P = 2,866.93 S = 395,450.34

 Side:1/3 

When a polygon or a spline is edited, you can scroll the screen and there is a new line at the bottom which indicates the number of sides of the object and the digit of the edited side (Side: 1/3). The two buttons of this line allow you to edit the other sides.

Object's attributes :  or 2x tap on object

Done Object Attributes

Line : 

Opacity : 100% 

Back : 

Opacity : 100% 

Filled : OFF **B** / **I** **U**

Text :

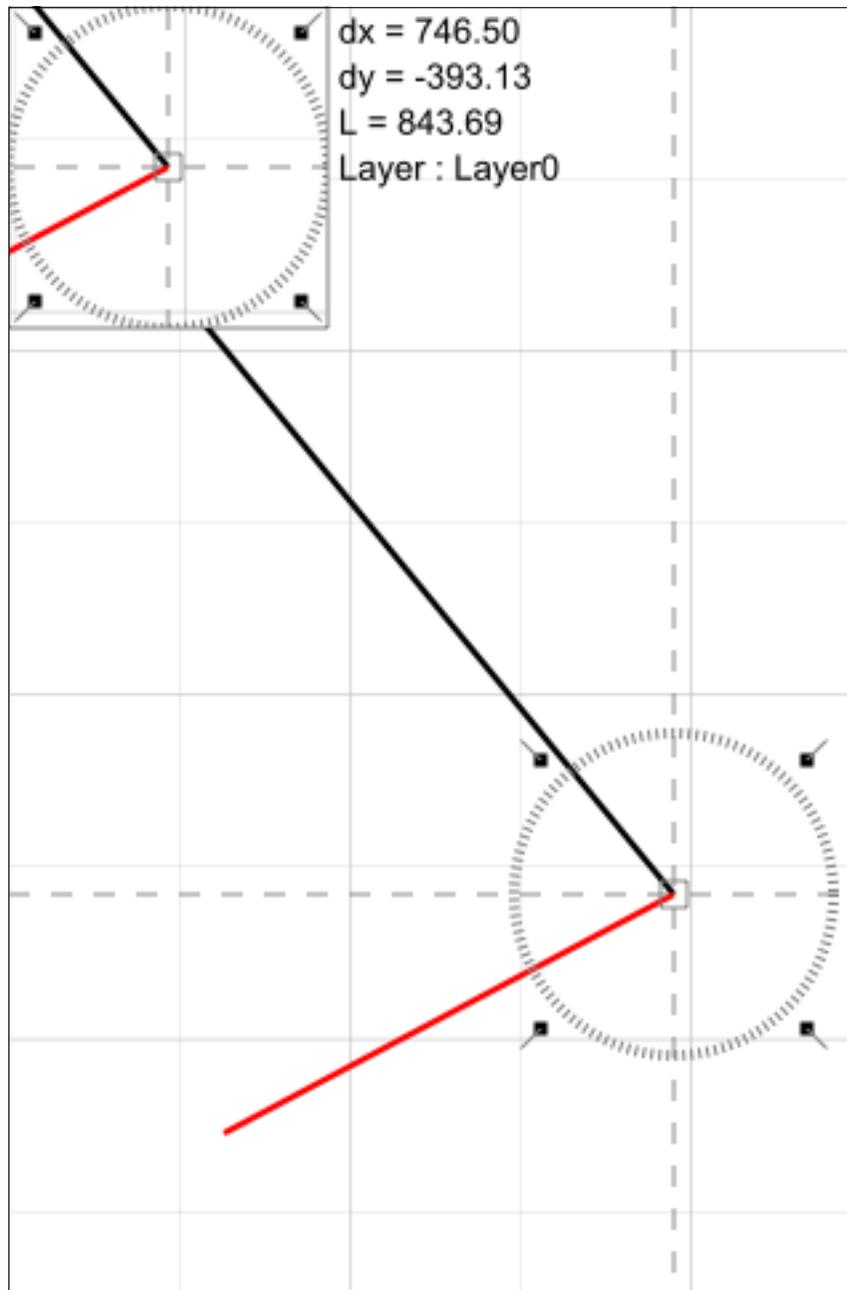
x1 = y1 =

A =

Arial Rounded...	12
Trebuchet MS	14
Arial	16
Merion	18

When you edit an object "text", you can modify the text itself.

The attractions when drawing :

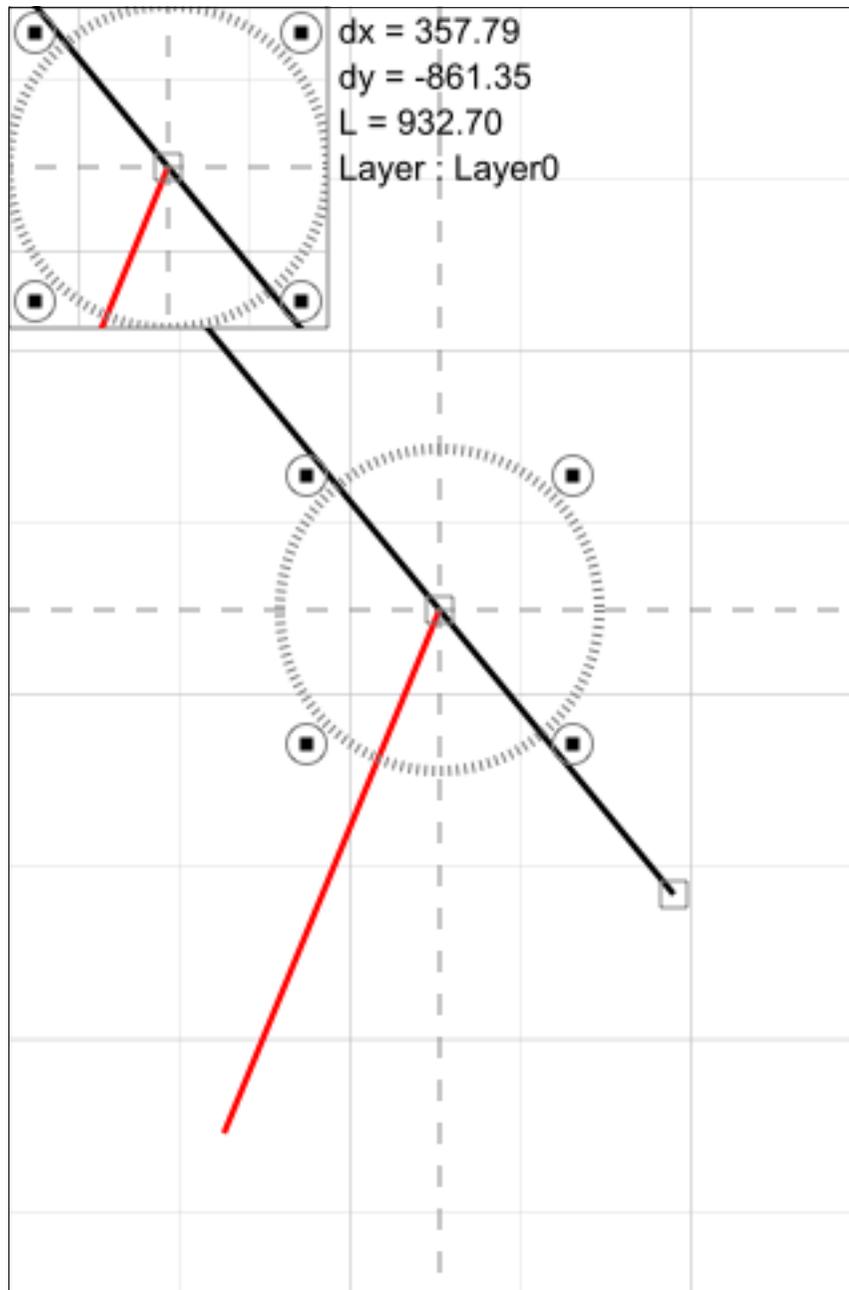


When you draw or modify a drawing, iPocket Draw indicates you the detected attractions. Here the red line is being created and one attraction has been detected at the end of the other line. As soon as you go near enough some particular points, the attraction occurs and the extremity of the object being created is "magnetized" on the detected attraction. The different attractions are :

- extremity;
- center and middle;
- intersection;
- surface;

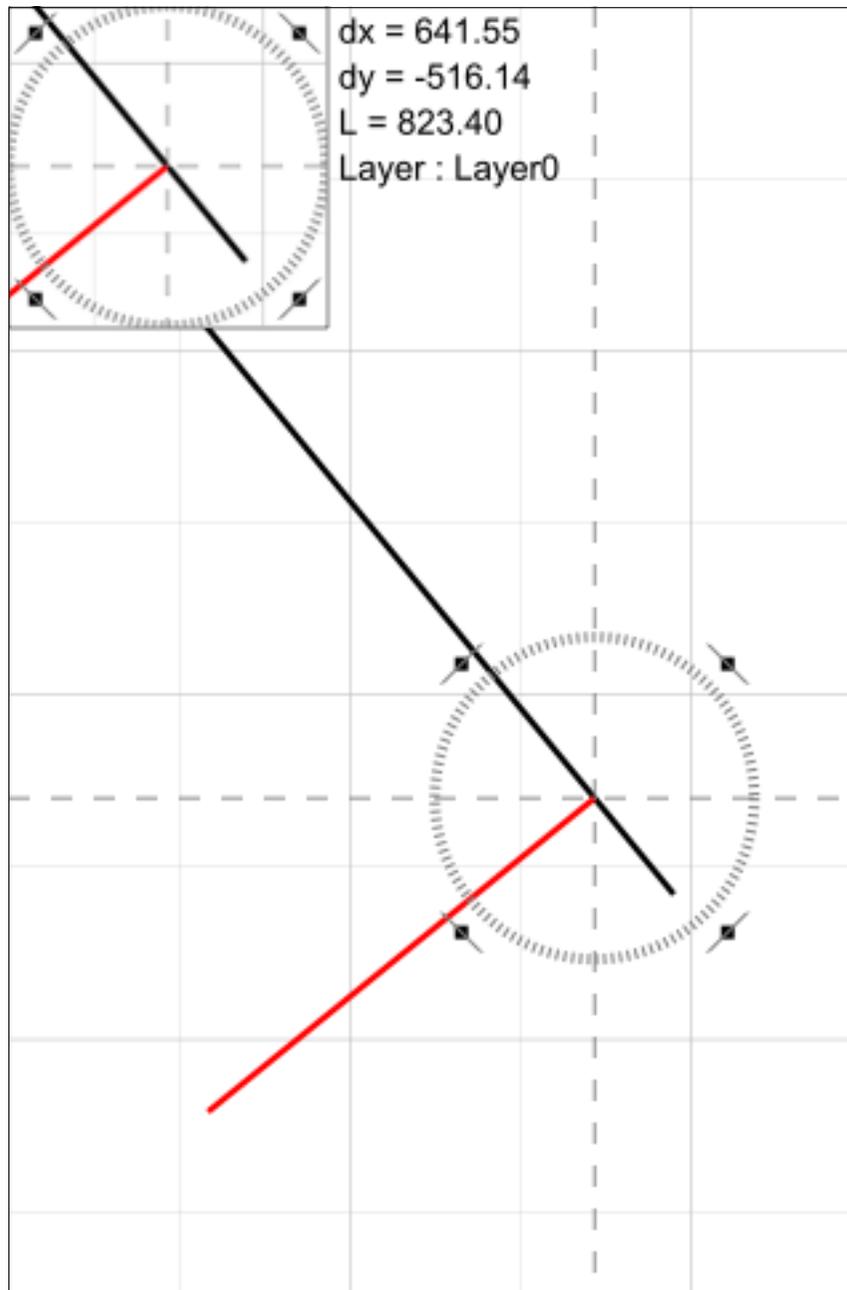
When an attraction is detected, you are sure that the points will be the same. Here the extremity of the 2 lines will be exactly equal.

The attractions when drawing :



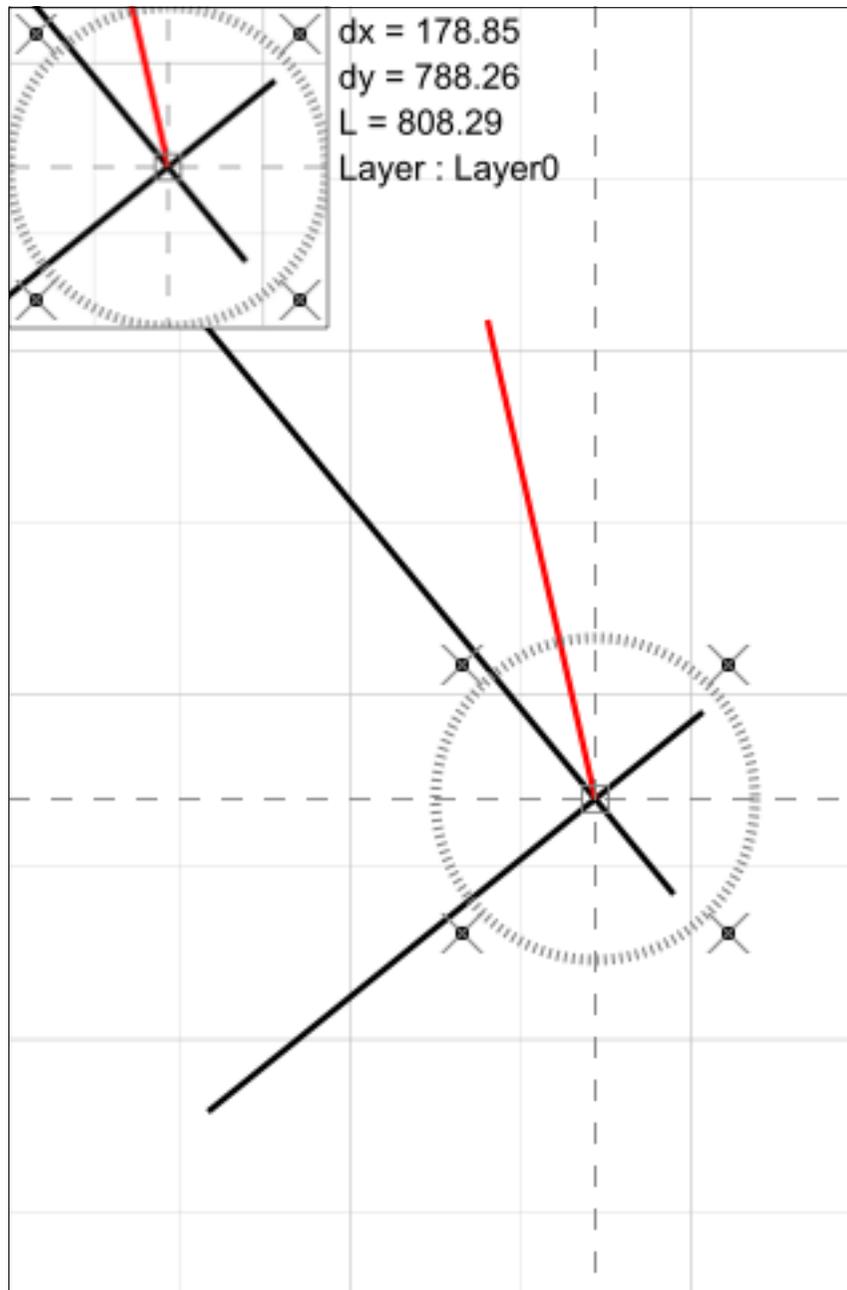
Here the attraction has been detected on the middle of the black line. Note the change of the attraction symbol.

The attractions when drawing :



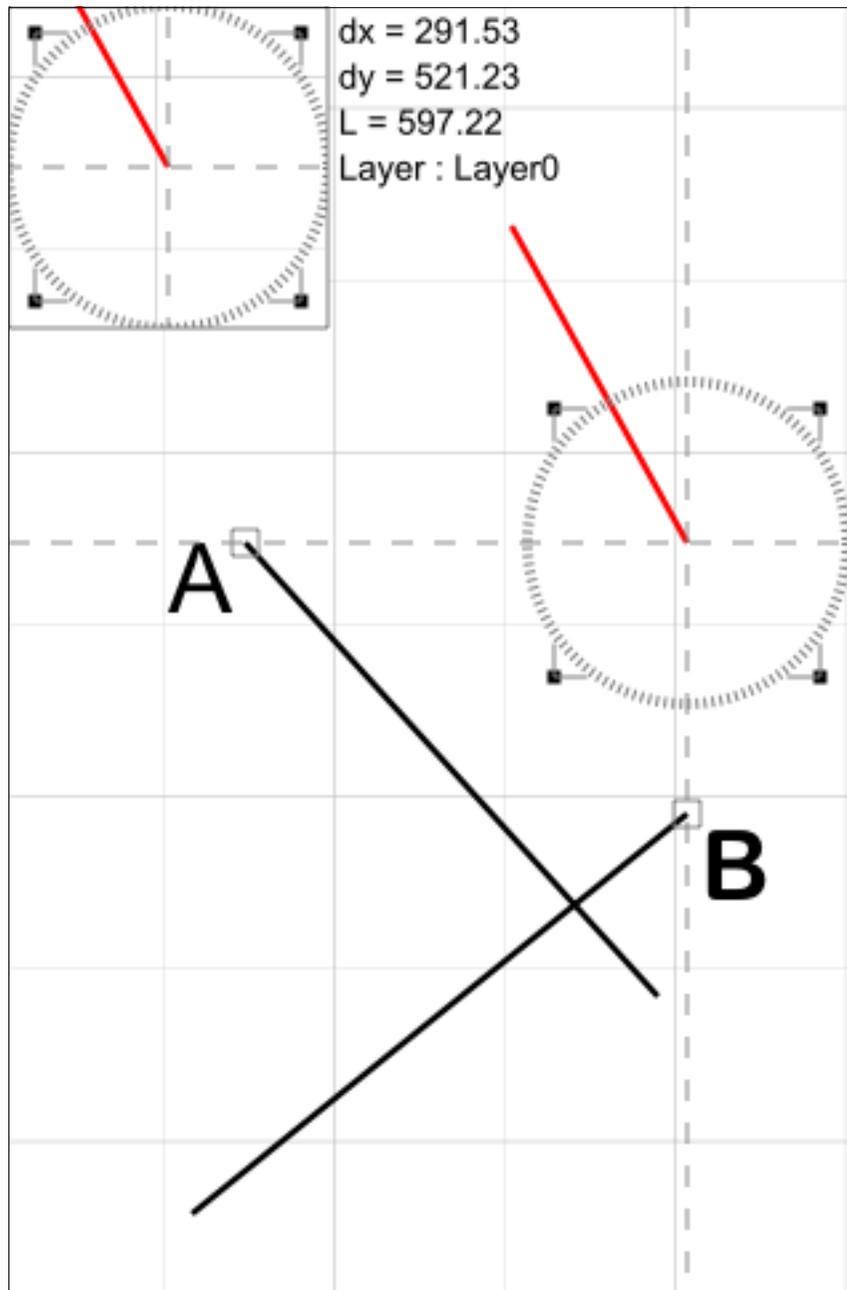
Here the attraction has been detected on the surface of the black line. Note the change of the attraction symbol.

The attractions when drawing :



Here the attraction has been detected on the intersection between the 2 black lines. Note the change of the attraction symbol.

The attractions when drawing :

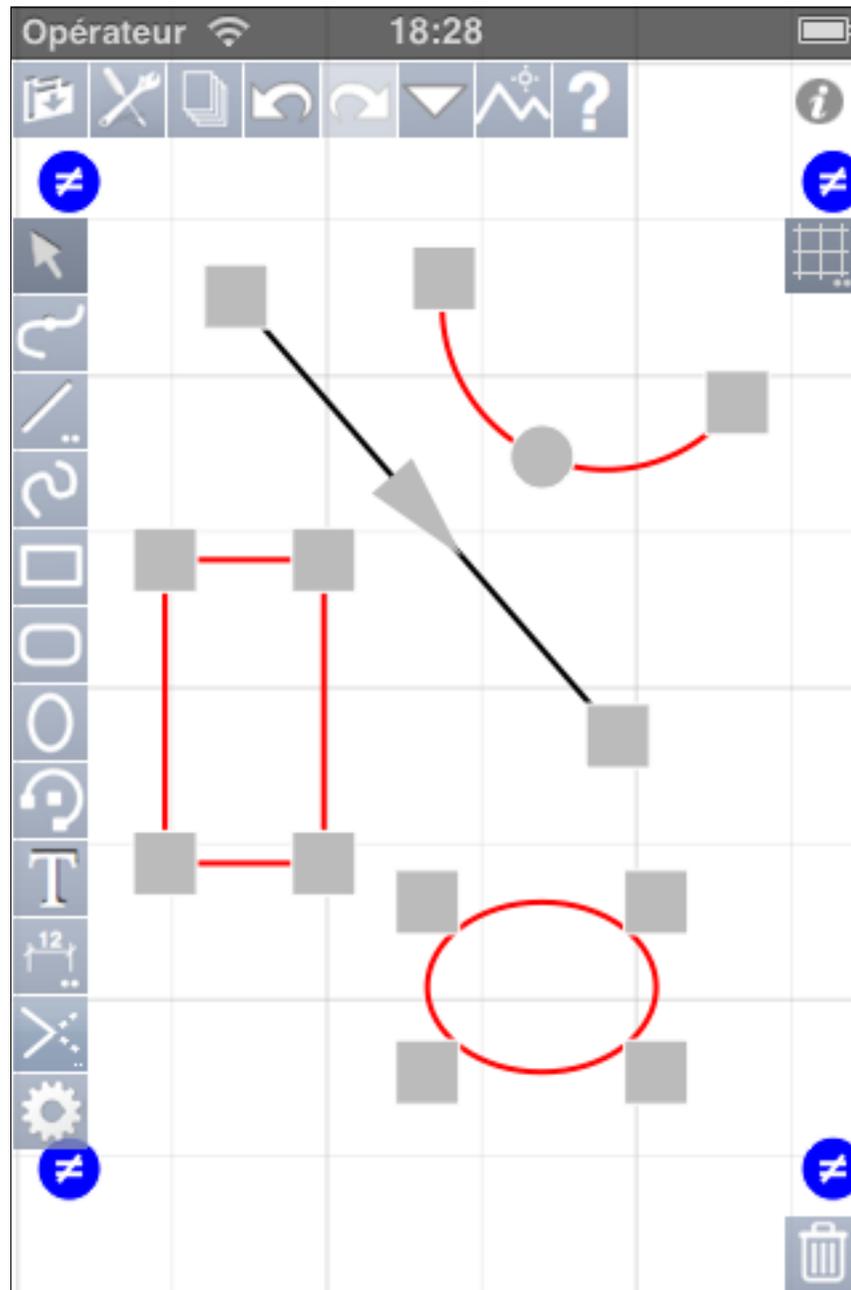


You can also have attractions in alignment with previously detected points. Here after starting the red line we activated the attraction on points A and B which are then stored as reference and allow an attraction in alignment.

The last three points detected by attraction at the extremity or center or intersection are kept for the attraction Alignment.

These points are reset when a new object is drawn or an object modified.

Displacement-Modification of objects :



When objects are selected, squares are drawn at their extremities. On lines, arrows are drawn to indicate their direction and for arcs, a filled circle is added. The squares allow to take the objects in attraction "extremity" and modify them.

If you do this when several objects are selected, the object taken by its handle will be modified and the others only moved.

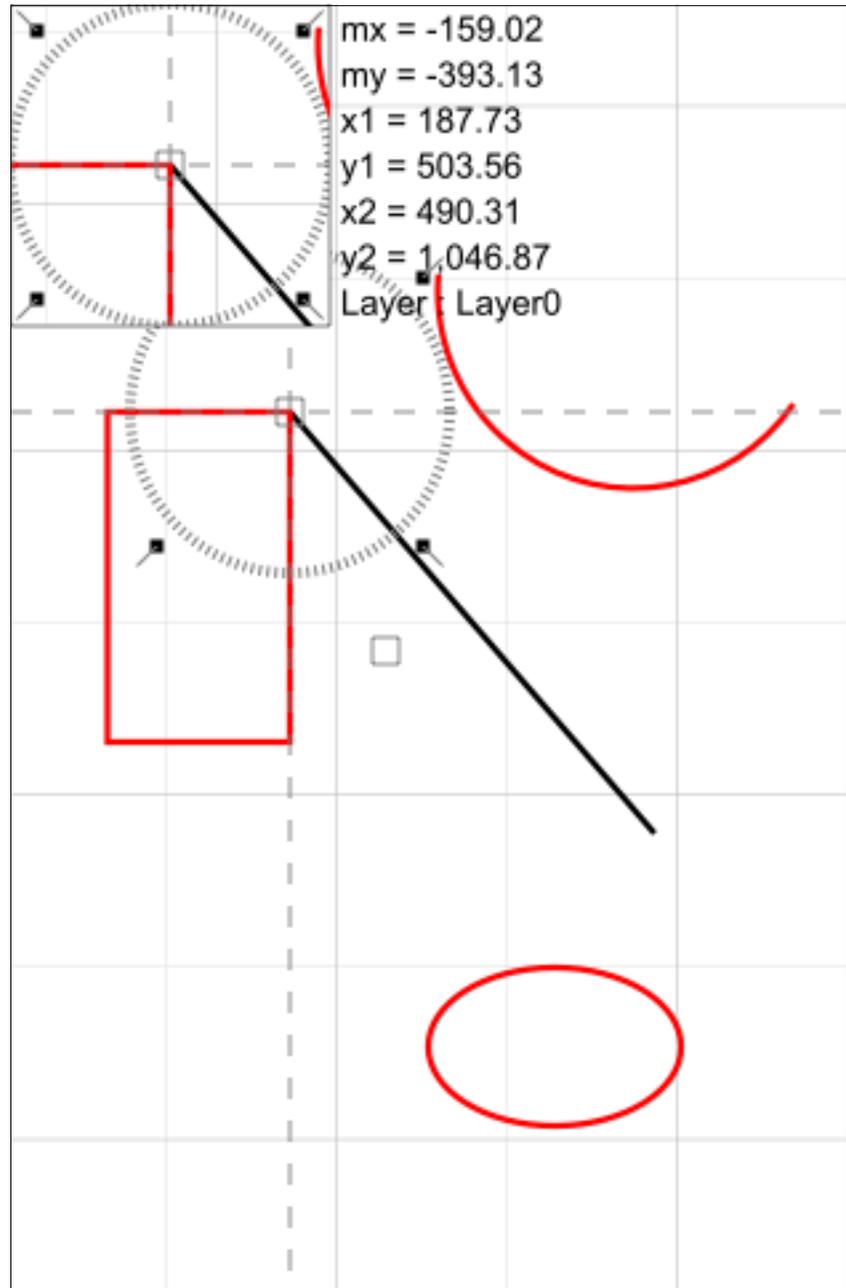
The filled circles on arcs allow to modify their radius.

If you want only move selected objects, you must take one outside the handles.

The blue circles allow to deform all selected objects, freely (circles with \neq) or by keeping the proportions (circles with $=$).

You switch between $=$ and \neq with a 2x tap on the tool "Arrow" or "Hand".

Displacement-Modification of objects :



You can also "take" an object by attraction "extremity" or "center" to move it. Here the rectangle has been taken by the upper-right corner and placed in attraction on the end of the line. So the points superimposed themselves perfectly. To take an object by attraction "extremity" without deform it, just do not select it before.

Watch our tutorial videos on YouTube : <https://www.youtube.com/user/ericpousse/videos>

Visit and use our forum about iPocket Draw : <http://www.adx-online.com/forums/>