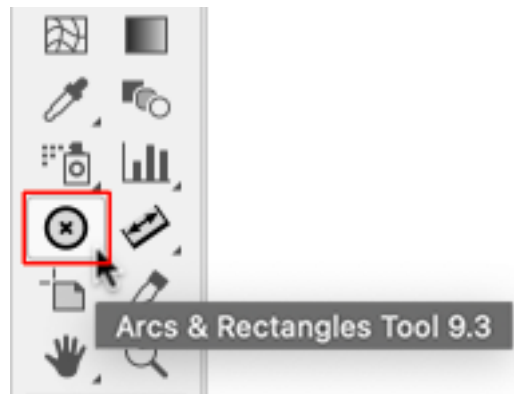# JLG-Arcs & Rectangles 9.3 (January 2023)

A new tool added to Illustrator to draw circles, arcs, sectors, rectangles or rounded rectangles.

General information.

The preferences of JLG-Arcs & Rectangles are written in a separate file named **JLG-Arcs & Rectangles-Prefs.txt**.

You need two files: JLG-Arcs & Rectangles (CC).aip and JLG-Arcs & Rectangles-Prefs.txt, both in the plug-ins folder of Illustrator.

Very important:

To display the parameters, you have to select the Arcs & Rectangles tool and click with the **ALT** key down.

If you have modified the parameters of the Arc center radius tool and want to recover the default parameters, just click Arc center radius with the **ALT** key down.

It's the same for Arc two points, Arc three points, Rectangle and Copies.

Displaying the parameters:

JLG-Arcs & Rectangles being selected, clicking outside any path with the **ALT** key down, displays the list of editable parameters.

First, the four tools (Arc center radius, Arc two points, Arc three points and Rectangle), then a parameter for the sound and the parameter copies.

By default the number of copies is set to 0, that is to say that when you use one of the four tools, you draw a single circle, arc, sector or rectangle.

JLG-Arcs & Rectangles 9.3 (January 2023)

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General information.

How to modify a shape?

To modify a circle, an arc, a sector or a rectangle, simply click on this shape when the cursor ▸ₘ is displayed. You'll be able to change the shape, to move it, to rotate it, etc..
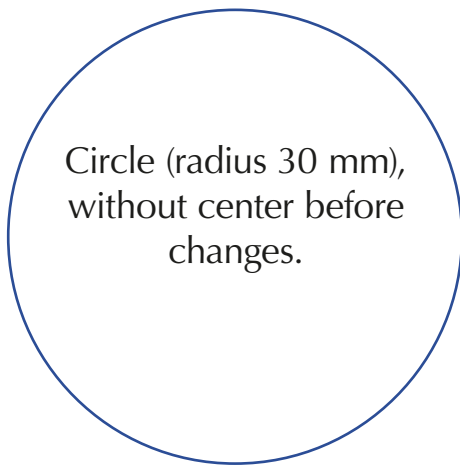
Exemple : I have drawn a circle with the Arc center radius. The radius is 30 mm and the center is not displayed. I would like a circle with a radius of 24 mm and with the center displayed.

I click with the **ALT** key down to display the parameters, I choose Arc center radius. I check the box with center.
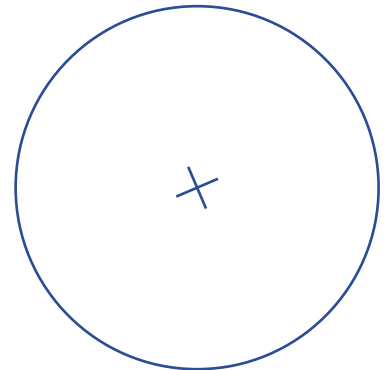
I click on the circle (radius 30 mmm) when the cursor has the shape ▸ₘ and I move the cursor until the radius is 24 mm.

With the space bar down, I can move the circle.

Very important: you have to choose fill and stroke before using JLG-Arcs & Rectangles. These values will be used to draw the circles, arcs, sectors or rectangles.

Circle (radius 30 mm), without center before changes.

Circle (radius 24 mm), with center after changes.

How to quickly change the tool?

One of the tools of JLG-Arcs & Rectangles being selected (Arc center radius, Arc tow points, Arc three points or Rectangle), clicking outside any path **with the SHIFT key down**, select the following tool according to the cycle (Arc center radius, Arc two points, Arc three points, Rectangle).
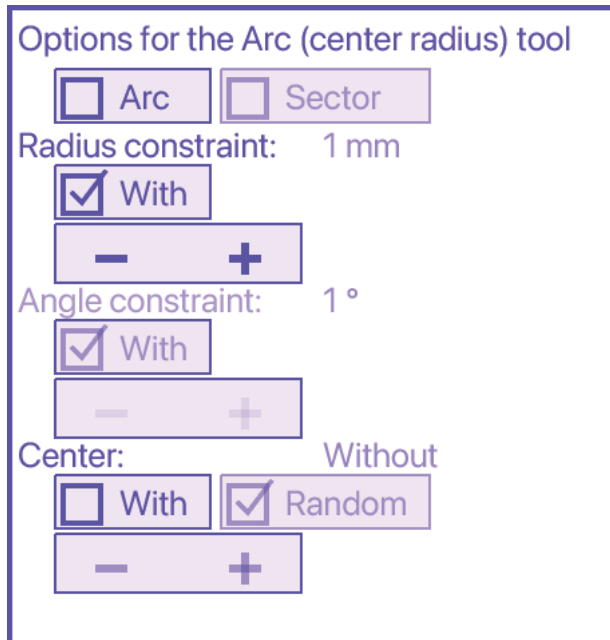
JLG-Arcs & Rectangles 9.3 (January 2023)

A new tool added to Illustrator to draw circles, arcs, sectors, rectangles or rounded rectangles.

Use of the tools.

Arc center radius tool.

With this tool, you can draw a full circle, an arc or a sector.
You click once for the center of the circle (of the arc or the sector), then a second click for the radius.

Options for the Arc center radius tool.
  The default values are:
  Arc box unchecked, Sector box disabled,
Radius constraint.
  With box checked, the radius constraint being 1 mm. The radius will vary from 1 mm to 1 mm. You can change this constraint clicking the - and + buttons or unchecking the With box. For instance, if you want to draw circles with radius 10 mm, 20 mm and 30 mm, it will be very easy to set the radius constraint to 10 mm clicking the + button.
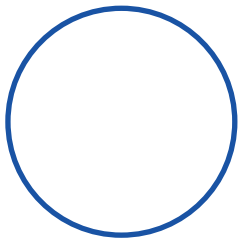Angle constraint: 1°. Disabled.
  With box disabled, - and + buttons disabled.
Center: Without.
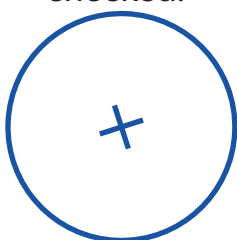 With box unchecked. The center of the circle will not be drawn.
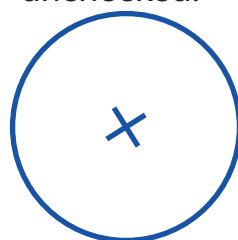 Random box disabled, - and + buttons disabled.

Circle (radius 15 mm), without center. With center box is unchecked.

When the With center box is checked, the center of the circle will be drawn. The center will be a cross. You can adapt the length of the branches of the cross using the - and + buttons.
When the With center box is checked, the Random box is enabled.
When the Random box is checked, the center cross has a random orientation. When the Random box is not checked, the center cross is always oriented at 45°.
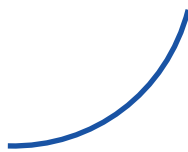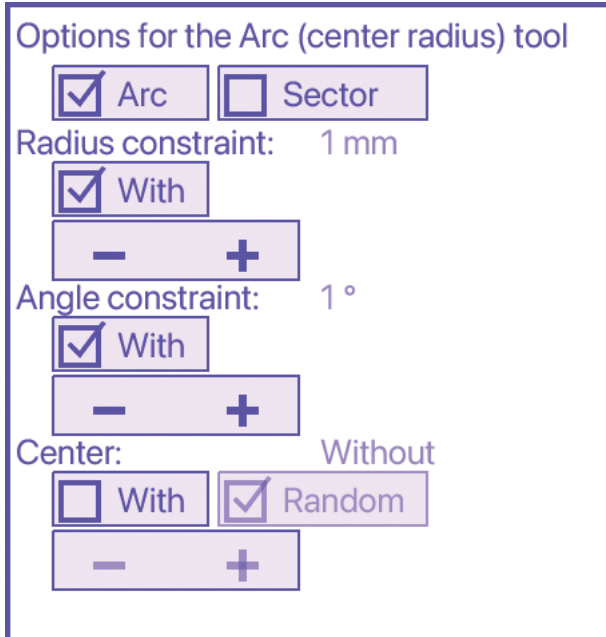
With the Random box checked.

With the Random box unchecked.

Circles (radius 15 mm), with center.

3

JLG-Arcs & Rectangles 9.3 (January 2023)

A new tool added to Illustrator to draw circles, arcs, sectors, rectangles or rounded rectangles.
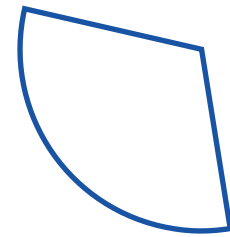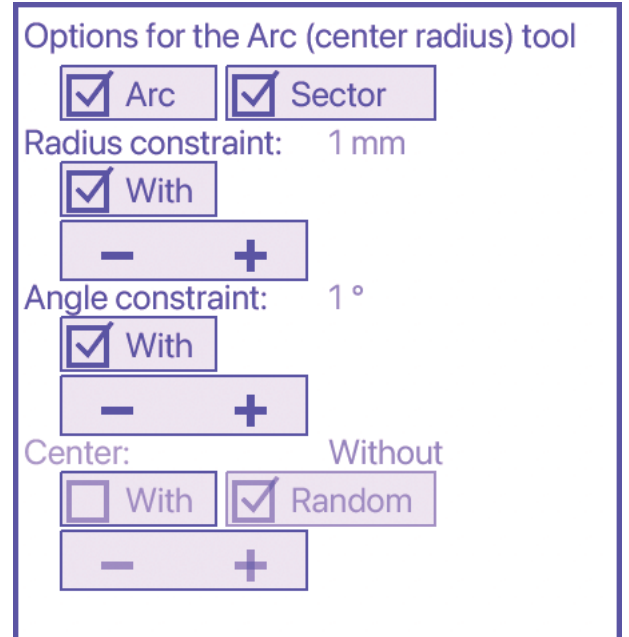
Use of the tools.

Arc center radius tool (end)

With this tool, you can also draw an arc of a circle or a sector.

Options for the Arc (center radius) tool	Options for the Arc (center radius) tool
☑ Arc ☐ Sector	☑ Arc ☑ Sector
Radius constraint: 1 mm	Radius constraint: 1 mm
☑ With	☑ With
− +	− +
Angle constraint: 1 °	Angle constraint: 1 °
☑ With	☑ With
− +	− +
Center: Without	Center: Without
☐ With ☑ Random	☐ With ☑ Random
− +	− +

Arc of a circle (radius 24 mm), with random center.
The angle of this arc is 77°.

Sector (radius 24 mm). the angle of this sector is 112°. For sectors, the center is never drawn (it's unnecessary).
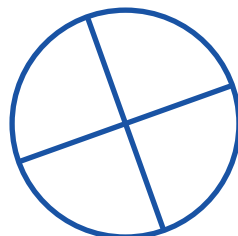
While you draw an arc or a sector, the key **ALT**, changes the angle (<180° or >180°).
If you press the **SPACE** bar, you can change the position of the arc (or sector).

When the Angle constraint is checked, the angle varies discontinuously.
By default, the constraint is 1°. The angle will therefore vary by 1° in 1°. This value can be modified by clicking on the - and + buttons.
For example, with 5°, the possible angles will be 5°, 10°, 15°, etc.

When the Center With box is checked, the - and + buttons are enabled and you can change the length of the branches.

Center: with, L=6 mm
☑ With   ☑ Random
−   +

Circle (radius 15 mm) with center and L = 30 mm.
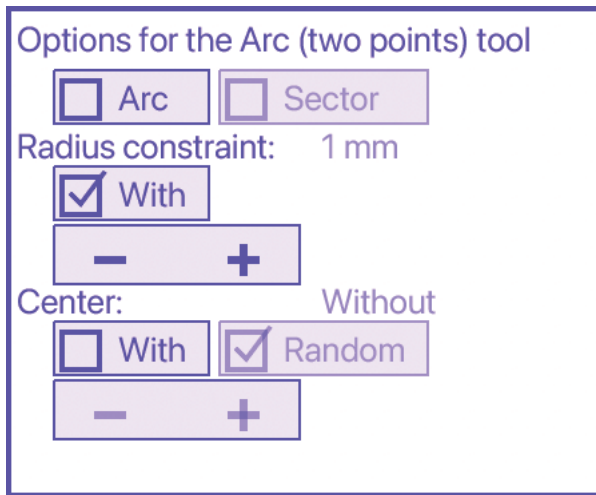
4

JLG-Arcs & Rectangles 9.3 (January 2023)

A new tool added to Illustrator to draw circles, arcs, sectors, rectangles or rounded rectangles.

Use of the tools.

Arc two points tool.

This tool allows you to draw an entire circle, an arc or a sector that passes through two given points.

Click on the first point, then on the second point and move the cursor to create the circle (or the arc or the sector).

Options for the Arc (two points) tool

Options for the Arc two points tool.
   The default values are:
   Arc box unchecked, Sector box disabled,
Radius constraint.
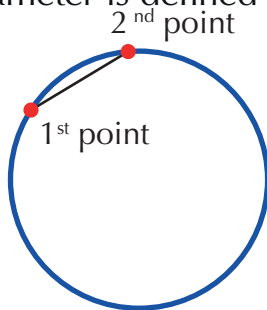   With box checked, the radius constraint being 1 mm. The radius will vary from 1 mm to 1 mm. You can change this constraint clicking the - and + buttons or unchecking the With box.
Center: Without.
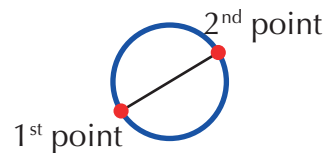   With box unchecked. The center of the circle will not be drawn.
   Random box disabled, - and + buttons disabled.

Very important note: if you press the **SHIFT** key while drawing the circle, it is the circle whose diameter is defined by the two clicked points that is drawn.

Circle (radius 17 mm). It passes through the two clicked points, without center.
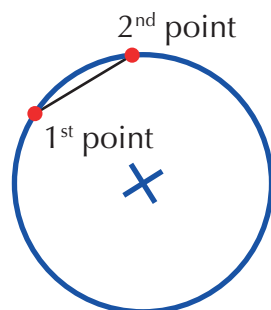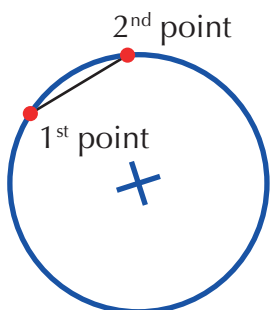The With center box is unchecked.

The same thing but with the **SHIFT** key down, the diameter of the circle is the black segment of length 15 mm.

Center: with, L=6 mm

When the With center box is checked, the circle will have its center drawn. The center will be drawn as a cross whose length of the branches can be modified by clicking on the - and + buttons.

With the Random box checked.   With the Random box unchecked.

When the With center box is checked, the Random box is enabled.

When the Random box is checked, the center cross has a random orientation.

When the Random box is not checked, the center cross is always oriented at 45°.
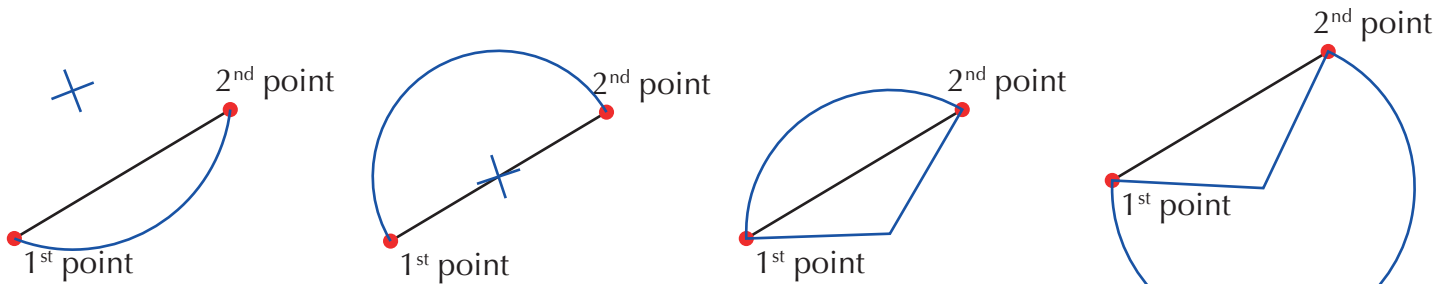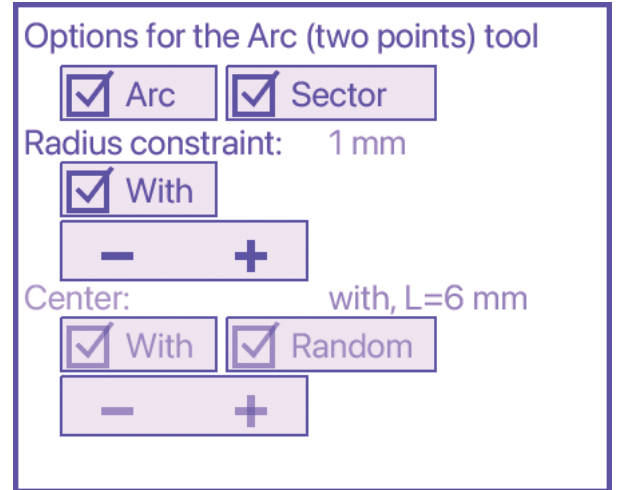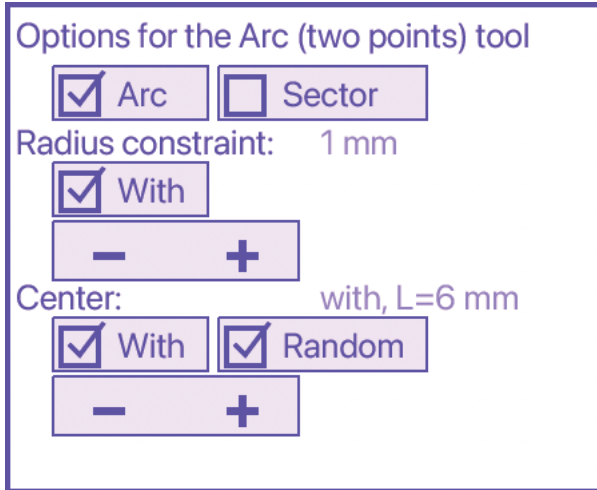
JLG-Arcs & Rectangles 9.3 (January 2023)

A new tool added to Illustrator to draw circles, arcs, sectors, rectangles or rounded rectangles.

Use of the tools.

Arc two points tool (end).

When the Arc box is checked and the Sector box is not, an arc of a circle will be drawn.
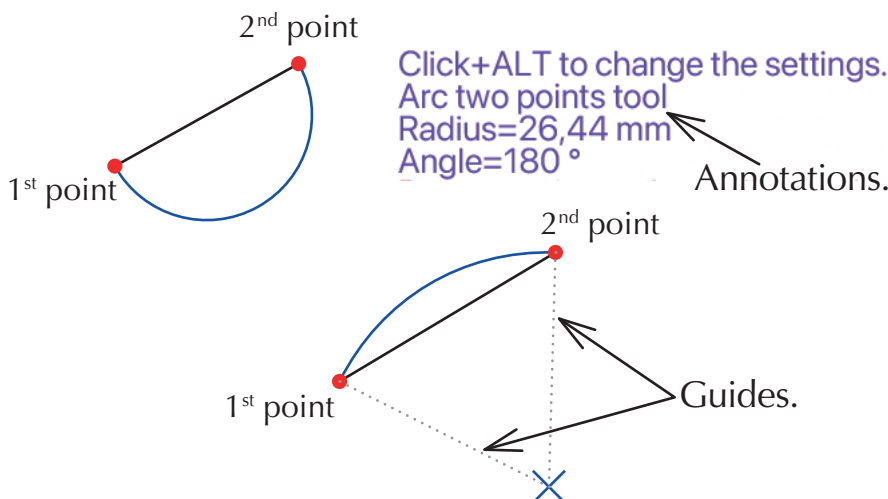When the two Arc and Sector boxes are checked, a sector will be drawn.

| Arc of a circle which passes through the two clicked points, with random center. | Semi-circle which passes through the two clicked points, with random center. The **SHIFT** key must be pressed. | Sector that passes through the two clicked points, in this case, the center is never drawn. | Sector >180° that passes through the two clicked points. The **ALT** key has been pressed. |

Click+ALT to change the settings.
Arc two points tool
Radius=26,44 mm
Angle=180 °

Annotations.

Guides.

While drawing, guides appear and annotations indicate very useful information such as the radius and the angle here.
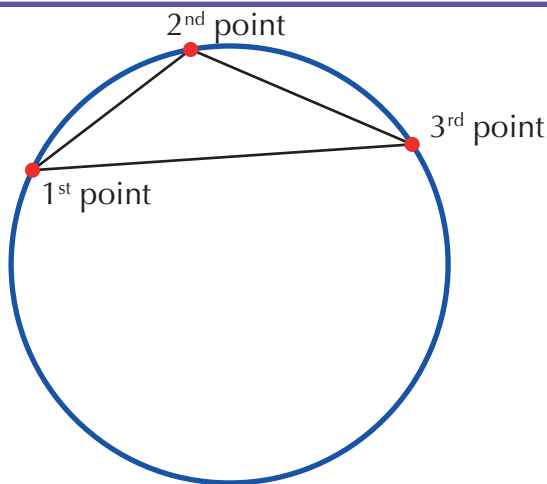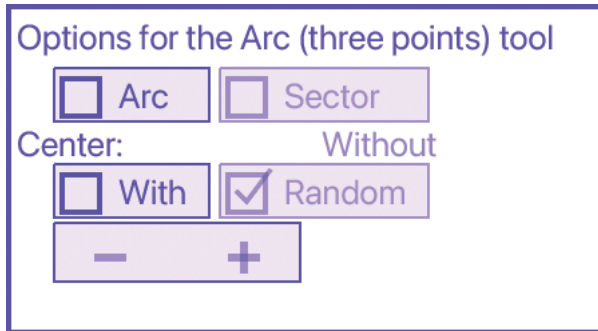
JLG-Arcs & Rectangles 9.3 (January 2023)

A new tool added to Illustrator to draw circles, arcs, sectors, rectangles or rounded rectangles.

Use of the tools.

Arc three points tool.

This tool allows you to draw an entire circle, an arc or a sector that passes through three given points.

Click on the first point, on the second point and finally on the third point. If the mouse button is released, the circle (or arc or sector) is created. You can also move the cursor to create the circle (or arc or sector).

Options for the Arc three points tool.
The default values are:
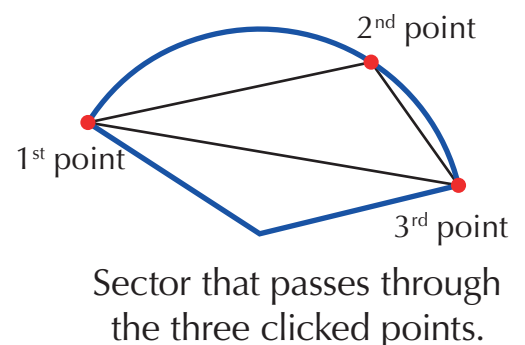Arc box unchecked, Sector box disabled,
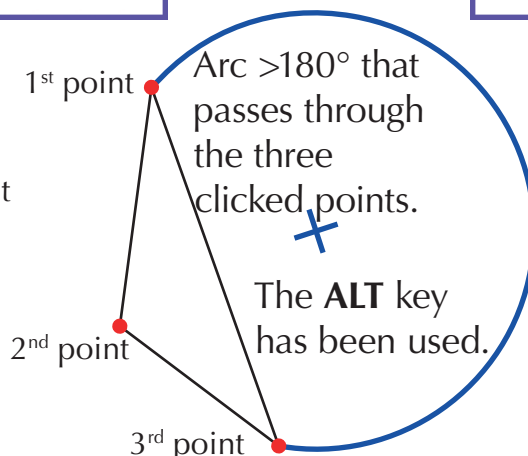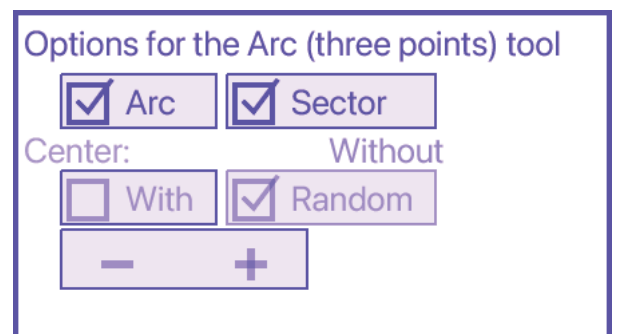Radius constraint.
With box checked, the radius constraint being 1 mm. The radius will vary from 1 mm to 1 mm. You can change this constraint clicking the - and + buttons or unchecking the With box.
Center: Without.
With box unchecked. The center of the circle will not be drawn.
Random box disabled, - and + buttons disabled.

Circle with a radius of 28.9 mm, which passes through the three clicked points. It's the circle circumscribed to the black triangle. The center box is not checked, the center is not marked.

Arc <180° that passes through the three clicked points.

Arc >180° that passes through the three clicked points.

The **ALT** key has been used.

Sector that passes through the three clicked points.

JLG-Arcs & Rectangles 9.3 (January 2023)

A new tool added to Illustrator to draw circles, arcs, sectors, rectangles or rounded rectangles.

Use of the tools.

Outil Rectangle.

This tool allows you to draw a rectangle or a rectangle with one or more corners of various shapes (rounded, inverted rounded, truncated or elegant).

Click to fix the starting point of the rectangle and we move the cursor while keeping the mouse button pressed in order to create the rectangle.

Options for the Rectangle tool.
   The default values are:
Length constraint.
   With box checked, the length constraint being 1 mm. The length will vary from 1 mm to 1 mm. You can change this constraint clicking the - and + buttons or unchecking the With box.
Width constraint.
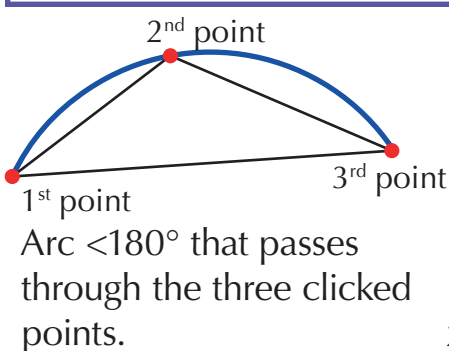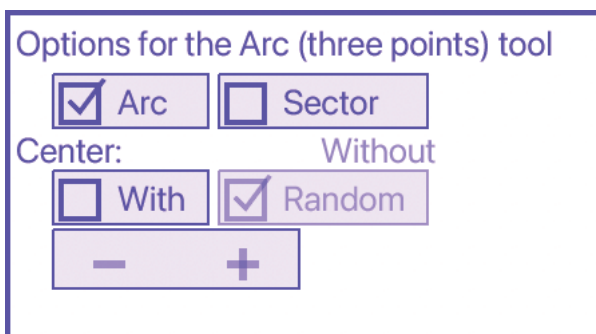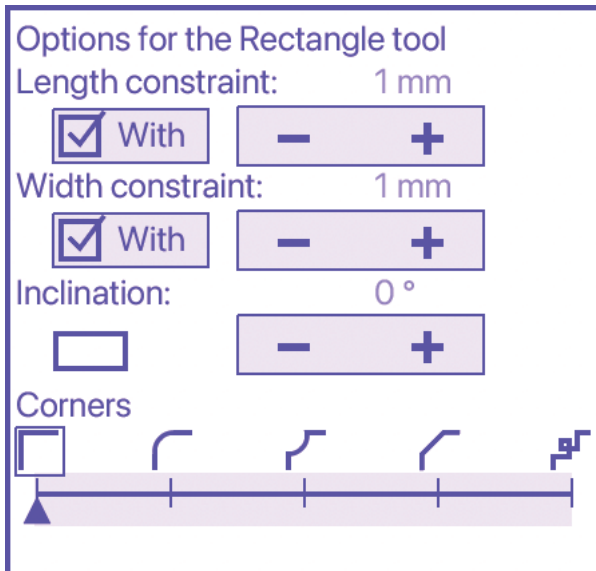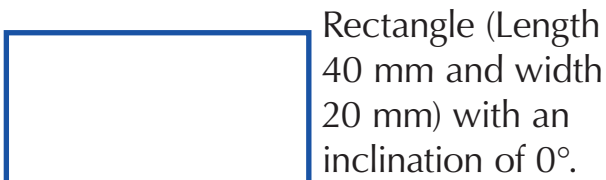   With box checked, the width constraint being 1 mm. The width will vary from 1 mm to 1 mm. You can change this constraint clicking the - and + buttons or unchecking the With box.
Inclination : 0°
   By default, the rectangles are horizontal, but by clicking on the - and + buttons, you can change the inclination of the rectangles

Rectangle (Length 40 mm and width 20 mm) with an inclination of 0°.

If you press the **SHIFT** key while drawing a rectangle, you get a square.
If you press the **ALT** key while drawing a rectangle, you draw it from the center.
If you press the **CTRL** key while drawing a rectangle, you modify the inclination.
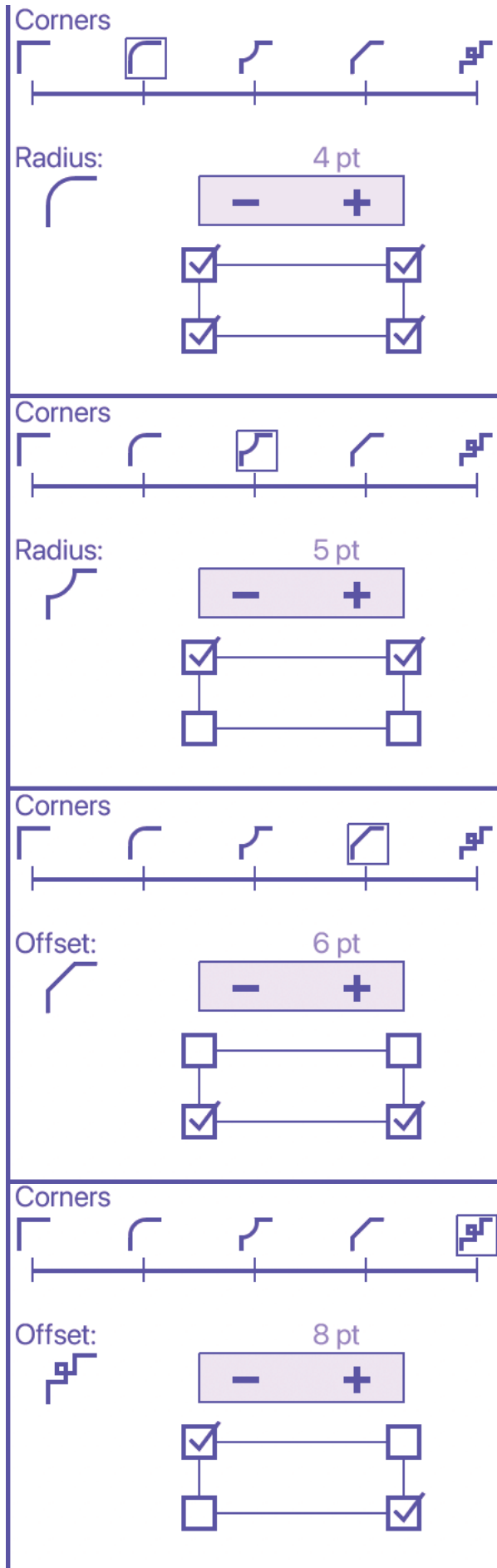If you press the **SPACE** bar while drawing a rectangle, you move the origin of the rectangle.

Rectangle (Length 40 mm and width 20 mm) with an inclination of 10°.

JLG-Arcs & Rectangles 9.3 (January 2023)

A new tool added to Illustrator to draw circles, arcs, sectors, rectangles or rounded rectangles.

Use of the tools.

Rectangle tool (end).

Corners

Radius: 4 pt
− +

The 4 corners rounded with a radius of 4 points.

The 4 corners rounded with a radius of 10 points.

The 4 corners rounded with a radius of 2 points.

Corners

Radius: 5 pt
− +

2 top corners with an inverse rounding of radius 5 points.

2 top corners with an inverse rounding of radius 10 points.

2 top corners with an inverse rounding of radius 2 points.

Corners

Offset: 6 pt
− +

2 truncated bottom corners with an offset of 6 points.

2 truncated bottom corners with an offset of 10 points.

2 truncated bottom corners with an offset of 2 points.

Corners

Offset: 8 pt
− +

2 elegant opposite corners with an offset of 8 points.

2 elegant opposite corners with an offset of 10 points.

2 elegant opposite corners with an offset of 2 points.

JLG-Arcs & Rectangles 9.3 (January 2023)

A new tool added to Illustrator to draw circles, arcs, sectors, rectangles or rounded rectangles.

Use of the tools.

Copies parameter.

Copies settings

Nunmer of copies: 0

   —   +

Horizontal offset of the copies:

   —   +

Vertical offset of the copies:

   —   +

Scale of the copies:

   —   +

Angle of the copies:

   —   +

Par défaut, les valeurs du paramètre des copies sont :

Number of copies : 0 The maximum number of copies is 20.
  By default no copy is made.
Horizontal offset of the copies
  Is disabled by default.
Vertical offset of the copies
  Is disabled by default.
Scale of the copies
  Is disabled by default.
Angle of the copies
  Is disabled by default.

These options will apply to all shapes drawn thereafter. To return to the default parameters and no longer have copies, simply display the list of parameters and click with the **ALT** key pressed on the Copies parameter.
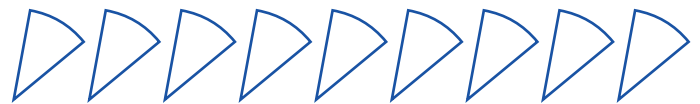
A few examples.

Copies settings

Nunmer of copies: 3
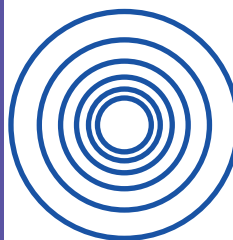
   —   +

Horizontal offset of the copies: 10 mm

   —   +

Vertical offset of the copies: 4 mm

   —   +

Scale of the copies: 100%

   —   +

Angle of the copies: 0 °

   —   +

8 copies, horizontal offset 10 mm, vertical offset 0 mm, scale 100% and angle 0°.

5 copies, horizontal offset 0 mm, vertical offset 0 mm, scale 75% and angle 0°.

5 copies, horizontal offset 0 mm, vertical offset 0 mm, scale 90% and angle 0°. With the **ALT** key.

5 copies, horizontal offset 2 mm, vertical offset 0 mm, scale 85% and angle -6°.

10 copies, horizontal and vertical offset 0 mm, scale 90% and angle 6°. With the **ALT** key.
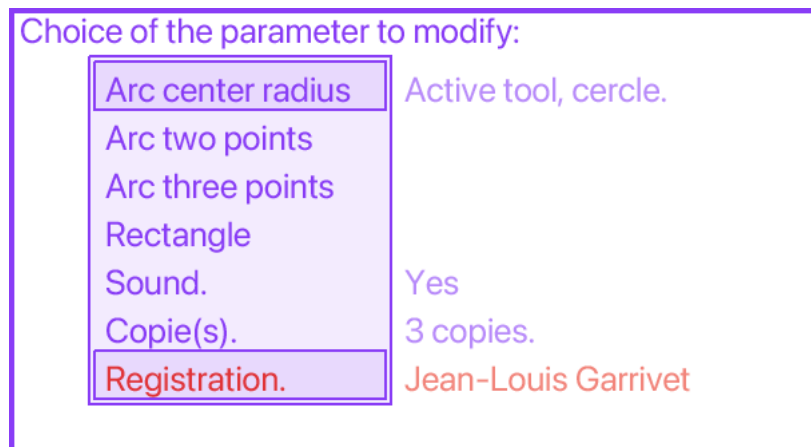
JLG-Arcs & Rectangles 9.3 (January 2023)

A new tool added to Illustrator to draw circles, arcs, sectors, rectangles or rounded rectangles.

Registering JLG-Arcs & Rectangles.

To remove the restrictions of the demo version (the shapes are distorted and your settings are not saved), you need to send your user name to **jlgarrivet@orange.fr**.

The user name is shown on the right side of the Registration parameter (in red) at the end of the parameters list. In my case, it's Jean-Louis Garrivet.

This red line is no longer displayed after you have registered your version.

To find this name, you can also use the menu Help/System info…

In the dialog that appears, scroll to see User Name:

WATCH OUT! THIS USER NAME CANNOT BE CHANGED!

JLG-Arcs & Rectangles 9.3 (January 2023)

A new tool added to Illustrator to draw circles, arcs, sectors, rectangles or rounded rectangles.

Registering JLG-Arcs & Rectangles.

When you sent me your username, you received a serial number in the format xxxx-xxx-xxxx.

Select the number received in the mail and copy it in the clipboard.
Select the Registration parameter (bottom of the list and red) and click the Paste button.

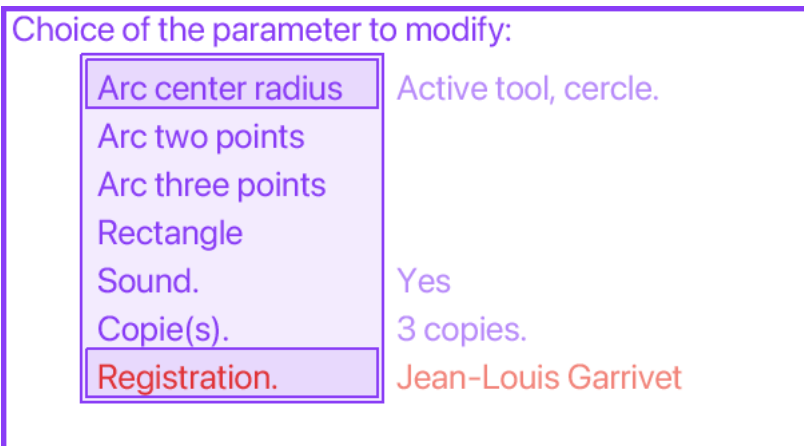You can also enter your serial number clicking the keys of the small keyboard.

< to delete the last character.
^ to switch from lowercase to uppercase.

When you click outside the keyboard, a dialog will inform you that the full version is available.

You can check it easily because now the shapes are no longer distorted and the red line at the bottom of the annotations saying Demo version->shape distorted will disappear.

END