

# PaintShop Pro Tutorials

By Maureen Eyes-Lavis

**TITLE: HOW VECTORS WORK**

**PaintShop Pro X6**

**Website: Creative-Designs**

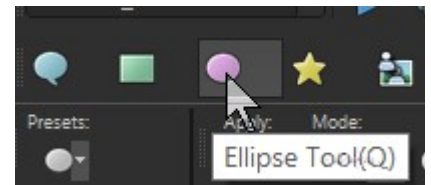
**Materials: None Required**

## DESCRIPTION:

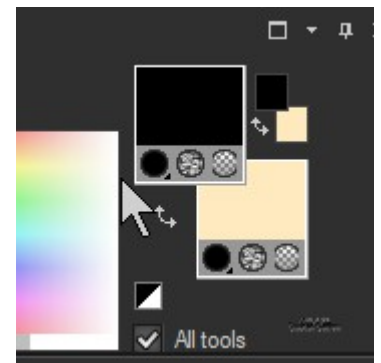
Vectors are great to create, edit and work with and enable you to draw great graphics. Understanding vectors can be a little confusing, especially as vectors have their own layers and funny little square nodes. This tutorial will work through vectors to give you a better understanding of how they work

Open a canvas about 400x400.

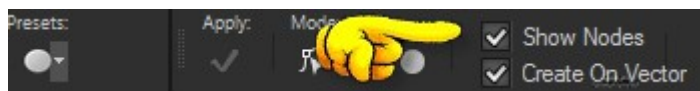
Select the ellipse tool.



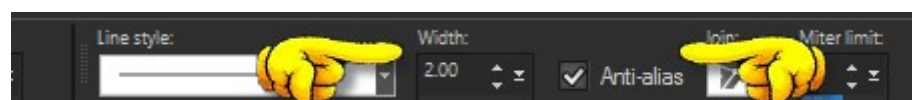
Choose a lighter background (fill) colour and black for the foreground (stroke).



Make sure that Show Nodes, Create on Vector and are all ticked

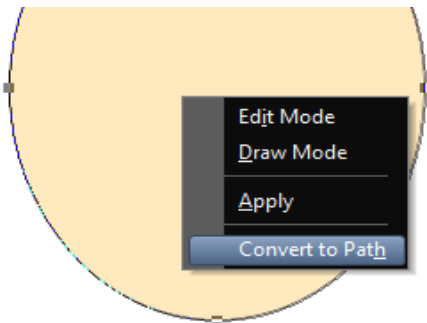
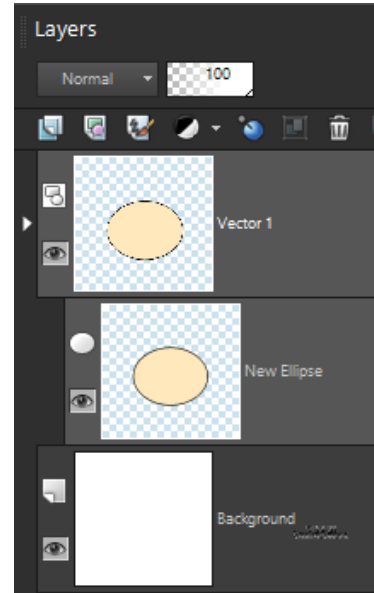
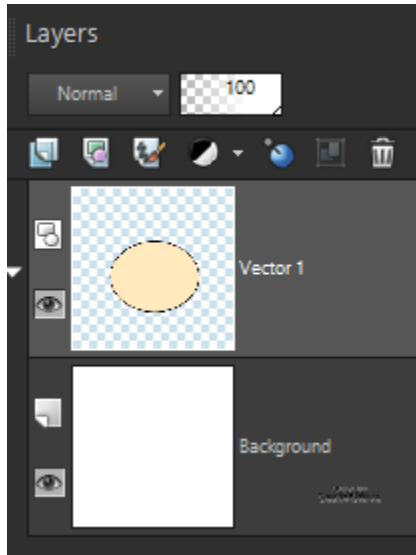


Still on the Tool Options palette make a width of 2 and tick anti -alias



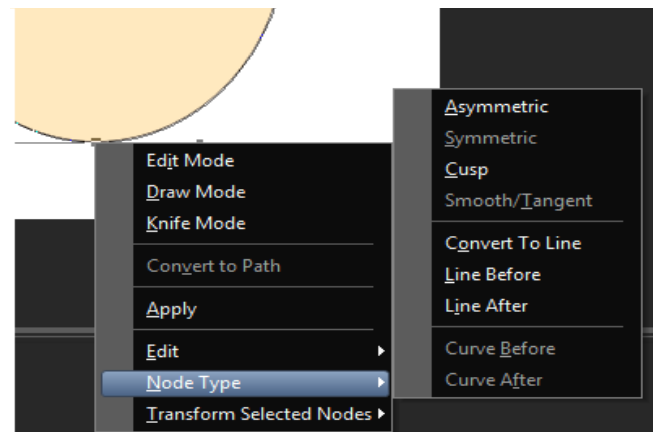
On the canvas draw an ellipse and as you draw, note that a new vector layer has been created automatically.

Click on the arrow pointing down open the sub-layer with a name New Ellipse.

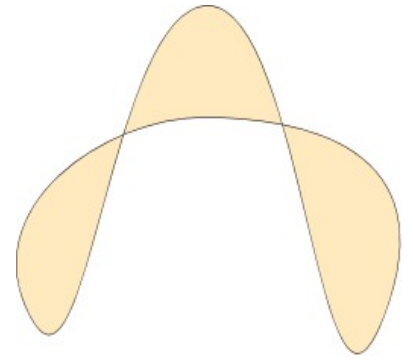


On the canvas, select Pick Tool, Right Click and Convert to Path.

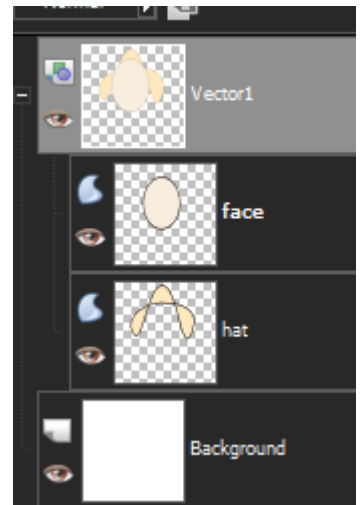
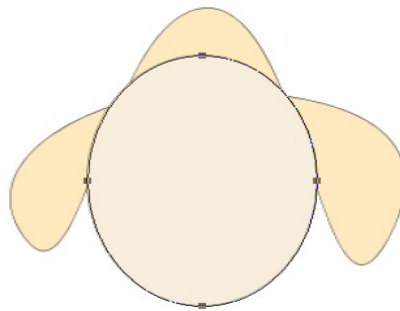
Select the Pen Tool, right click on the lower node and choose Asymmetric.



Grab the bottom node and pull up to the top as shown in the image. Pull out the side nodes slightly to give the image a hat look. Click on the **Apply** button on the Tools Options palette.



Change the background colour to a lighter colour. Select the Ellipse tool again and draw another oval. There is no need to add a new vector layer. When done click the **Apply** button.



On the Layers palette, click the + to open the layers. The sign will then become a -.

***It is advisable to rename the layers as shown in the image above right. Click on the layer, where it says Vector 2 etc. a white box will show. Type a new name. Do this for each of the layers except Vector1 and Background. Naming layers helps you identify them easily.***

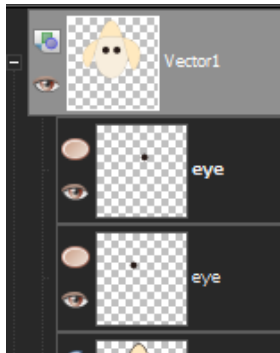
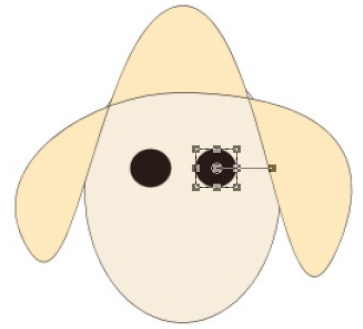
With the Pick tool selected, right click face oval and move below the hat.

We are still only on Vector 1 but adding more sub-vectors.

Always remember to click the Apply button when you have finished making your path. With the Ellipse tool again, black background, foreground null, draw a small ellipse to make an eye. Tick the **Apply** button.

Look in the Layers palette and you will see New Ellipse. Change the name to eye.

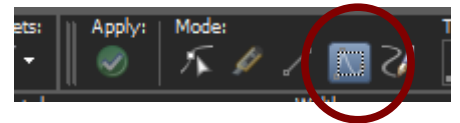
Change to the Pick tool, and with the black eye highlighted, go to Edit, Copy and Paste as a new Vector Selection and place it next to the left eye.



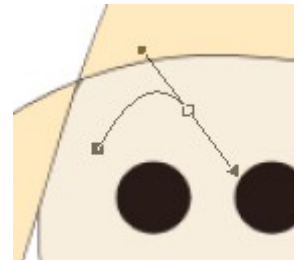
Look again in the Layer palette, you have two vector layers named 'eye'. PSP, automatically named the layer when you copied/pasted as a Vector selection.

You will now have the main Vector1 and 4 sub-vector layers and the Background.

Adding eyebrows. With the pen tool, choose Point to Point. Make sure you are on Vector1.



Place the pen above the left eye and tap. Next move toward the centre of the brow but **do not let go of the pen** at this stage. Hold it and pull down to form an arch then let go.



Click **Apply** button and change to the Pick tool. In the Layer palette there's a New Path, change the name to eyebrow as you have done above.

Click on the eyebrow layer so it highlights it on the canvas, go to Edit, Copy and Paste as a New Vector Selection and place it over the right eye. You may need to adjust the eyebrows with the Pick tool, or you can draw two separate eyebrows if you want to make them look different, or edit the vector.

Do the same as here for the nose and mouth. For the mouth, use the Pen tool, Point to Point as you did for the eyebrows.

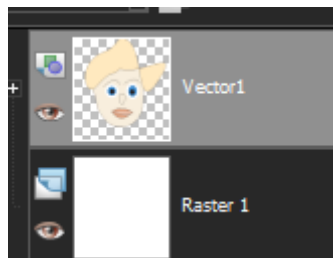
This tutorial is not about making the image but showing you that a Vector image can be made on one Vector layer with sub-layers.

To Edit, select a layer then go to the Tools Option palette, select Mode - Edit. With the Pen tool you can apply changes to the nodes and make new shapes.

***Each layer is added automatically after clicking the Apply button***

You can accumulate a lot of layers, so it is important to name them.

Click on the Vector1 layer - to hide the sub-layers. This does not merge the layers.



When done, save it as a PspImage as you never know. you may want to use these Vectors again.

