



CoderDojo Athenry



Code and notes by Martha Fahy, 2017

CoderDojo Athenry

"Above all, be cool"



Every week:

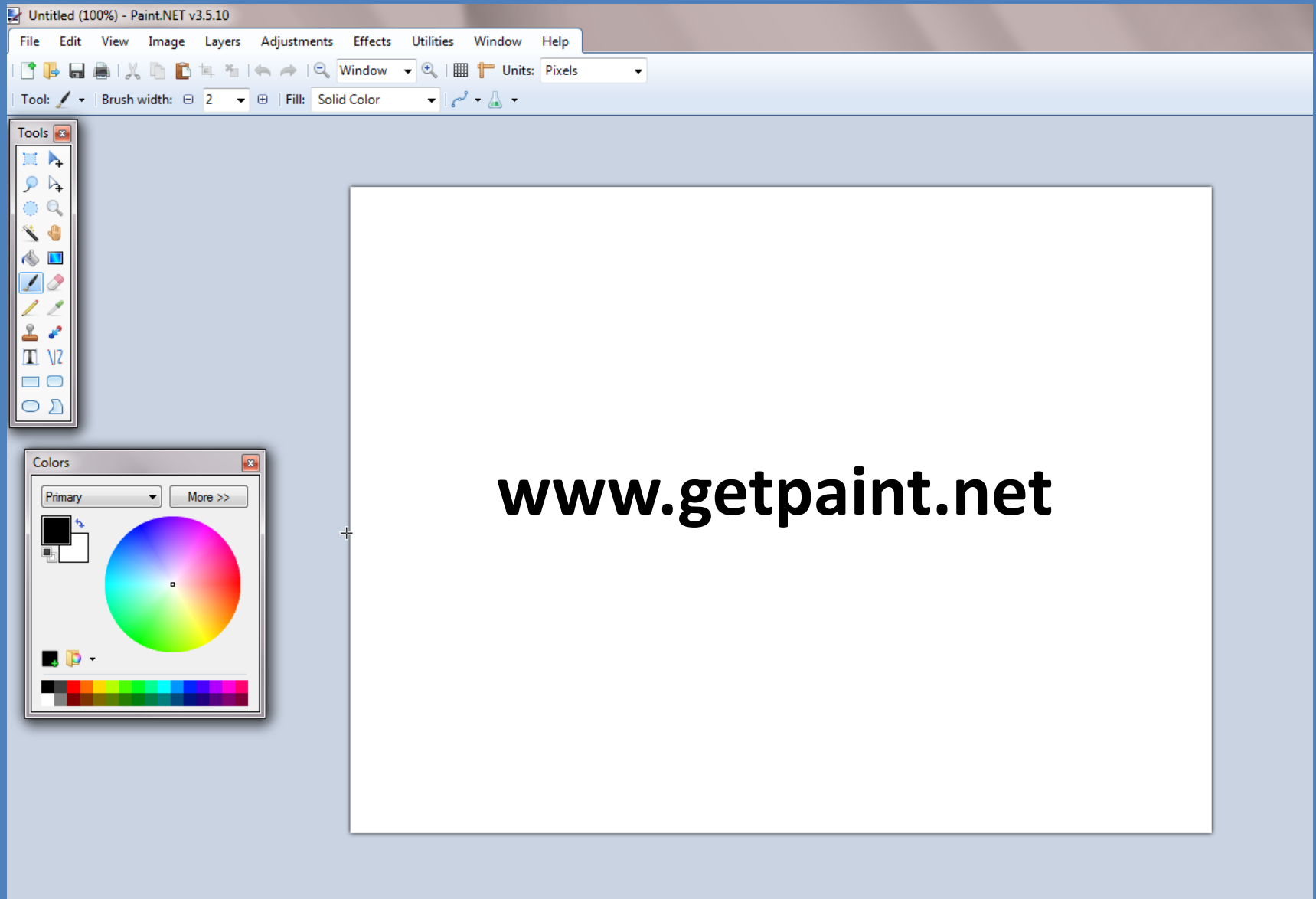
- ✓ Sign in at the door

If you are new:

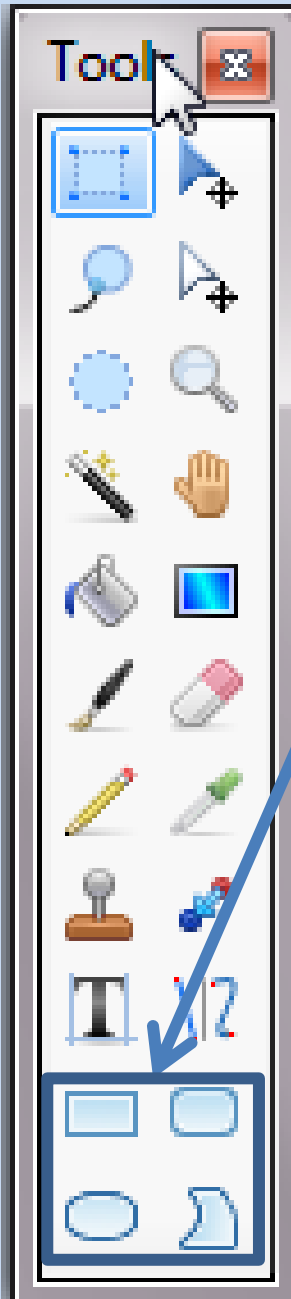
- ✓ Fill in Registration Form
- ✓ Ask a Mentor how to get started

**Make sure you are on the Athenry
Parents/Kids Google Group: email**
coderdojoathenry@gmail.com

PAIN.NET



Geometric Shapes



Rectangle

This can be used to draw rectangles and squares.



Rounded Rectangle

This can be used to draw rounded rectangles and rounded squares.



Ellipse

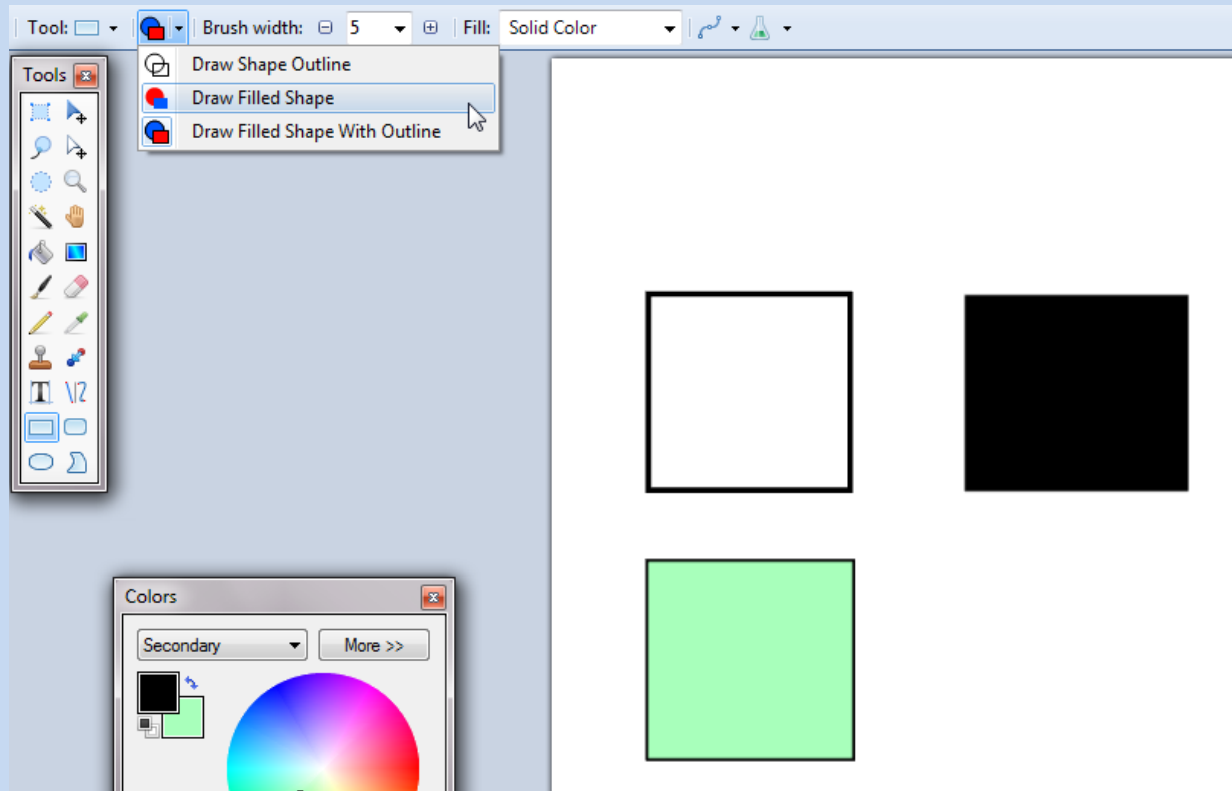
This can be used to draw ellipses and circles.



Freeform Shape

This can be used to draw a shape with a freeform outline.

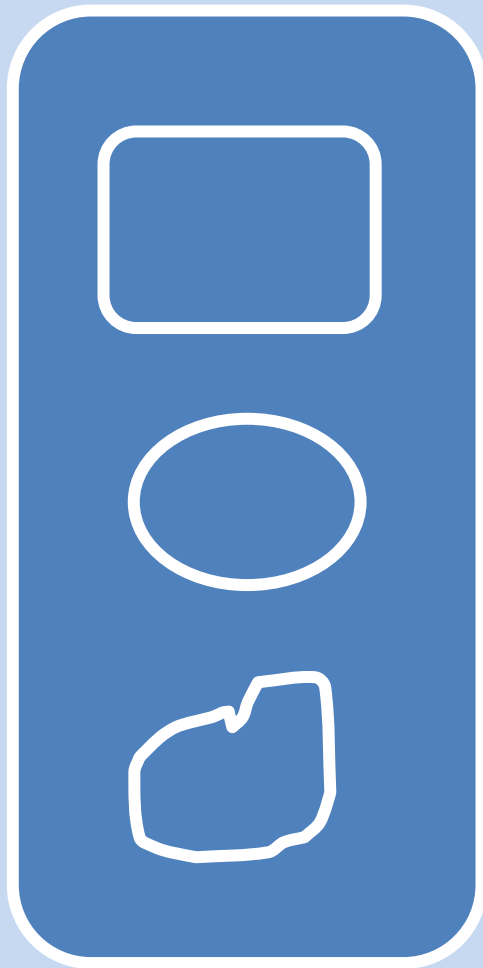
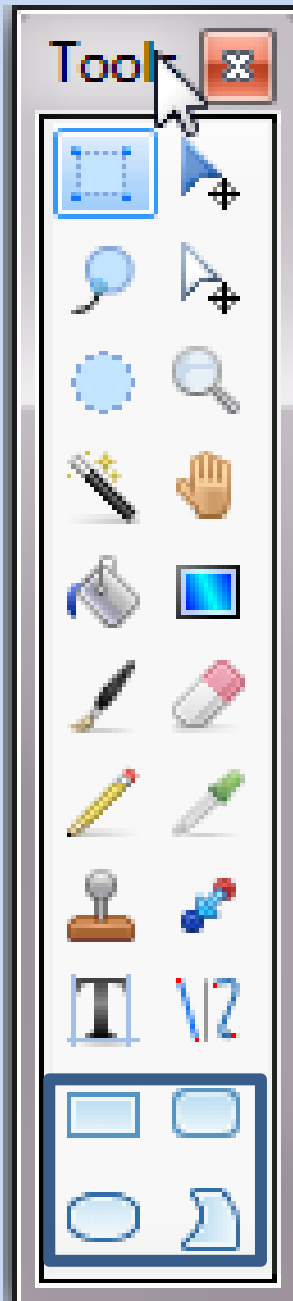
Rectangular/Squares



To draw , click and drag with the left mouse button.

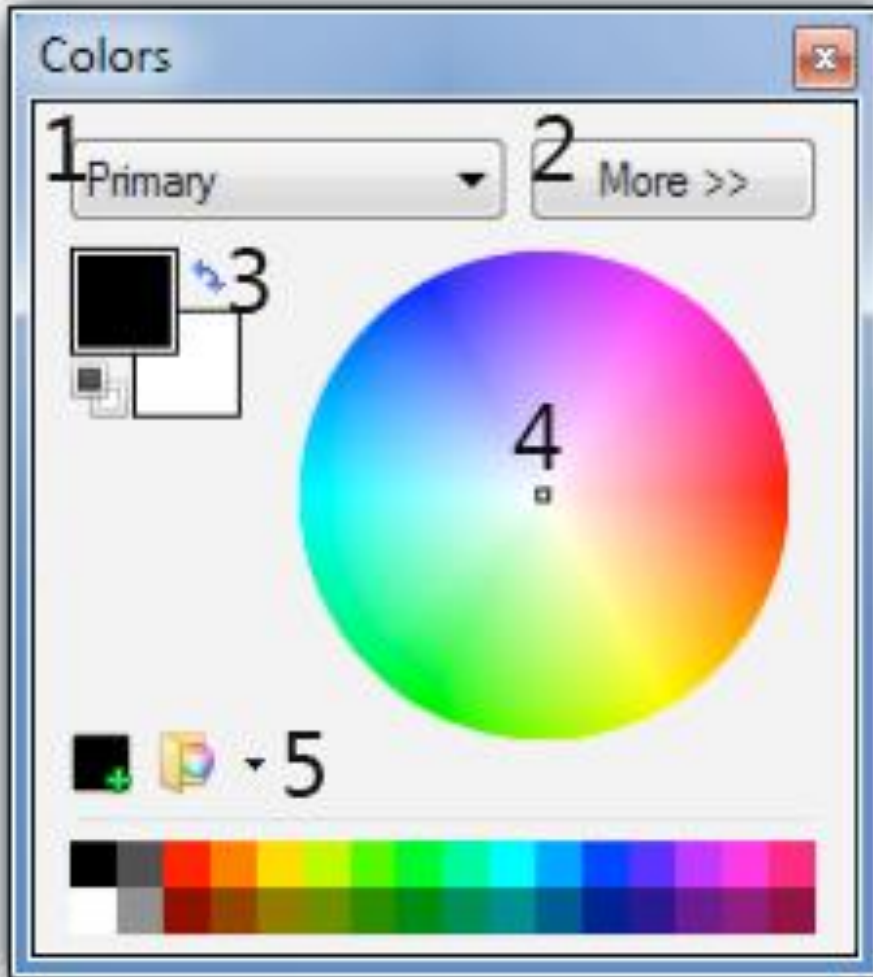
TIP

For the first three tools, you may hold down the Shift key to constrain the shape to be a square, rounded square, or a circle, respectively.



**Same for the
other
Geometric
Shapes**

Colours Window



1. Primary/Secondary Colour Selector

Select whether you would like to pick your primary or secondary colour.

2. More Options Toggle

Click this to view additional colour selection options.

3. Current Colour Selection

This shows the currently selected primary and secondary colours.

4. Colour Wheel

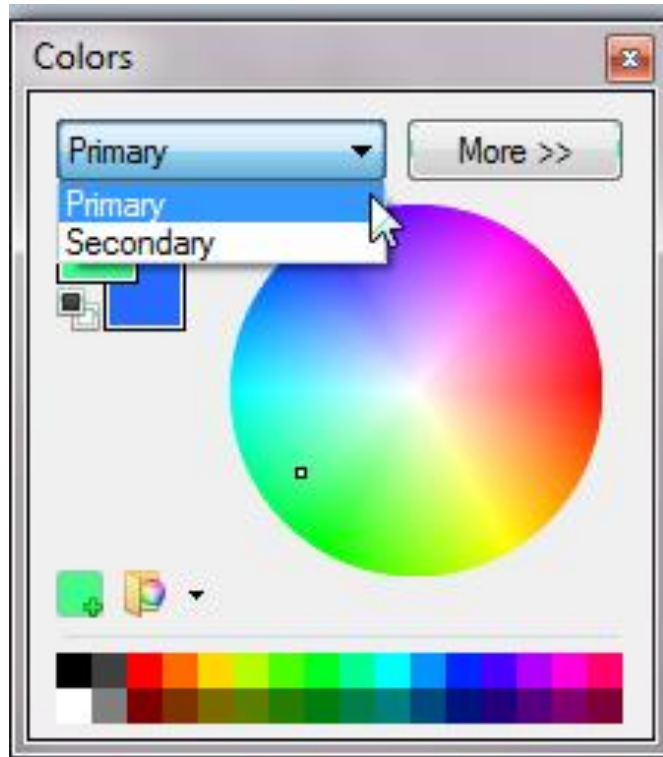
Used for colour selection.

5. Palette Buttons

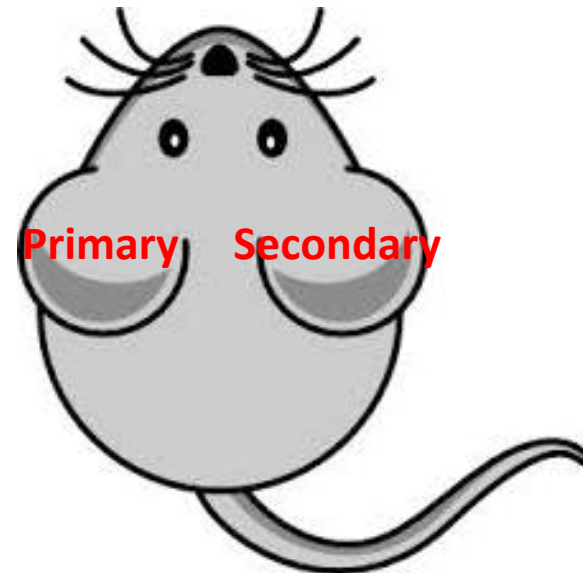
Used to manage palettes.

Colours Window

Primary and Secondary Colours



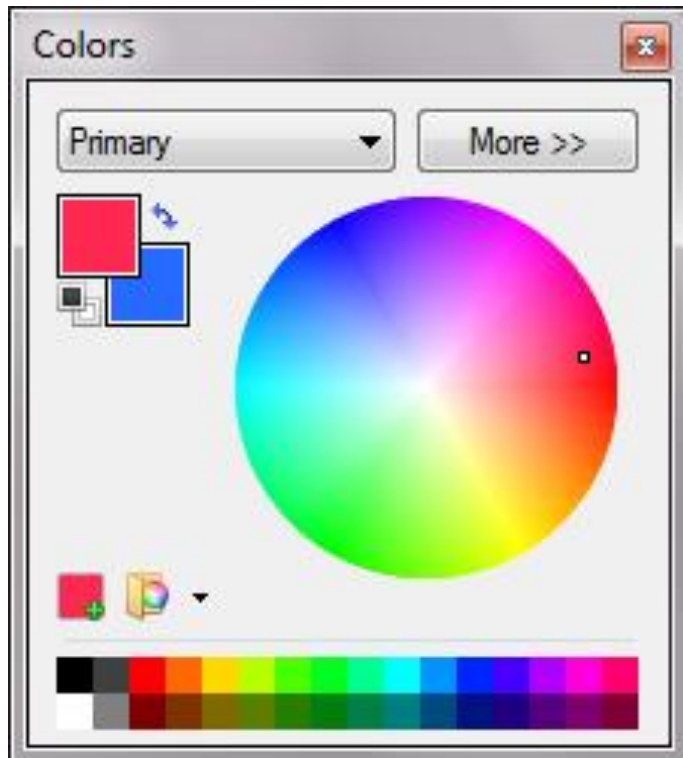
Primary, left-hand mouse button
Secondary, right-hand mouse button



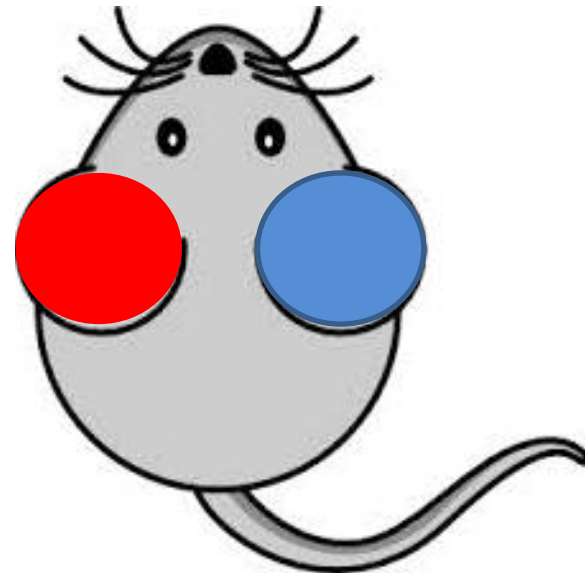
Colours

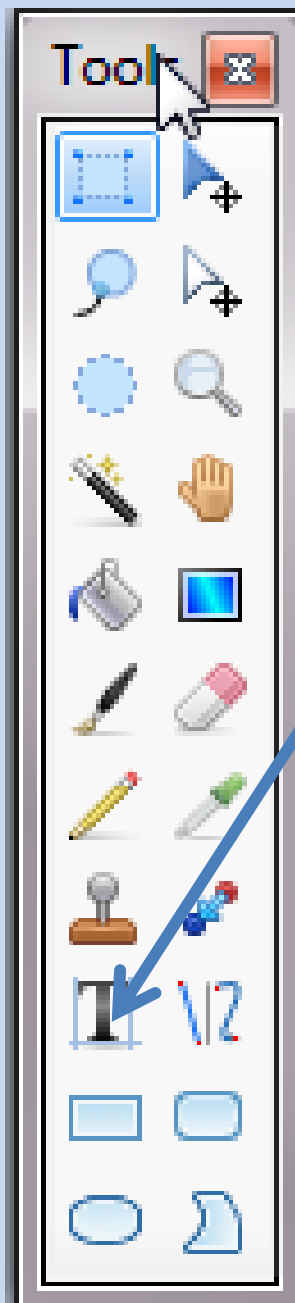
Primary Colour is set to **RED**

Secondary Colour is set to **BLUE**



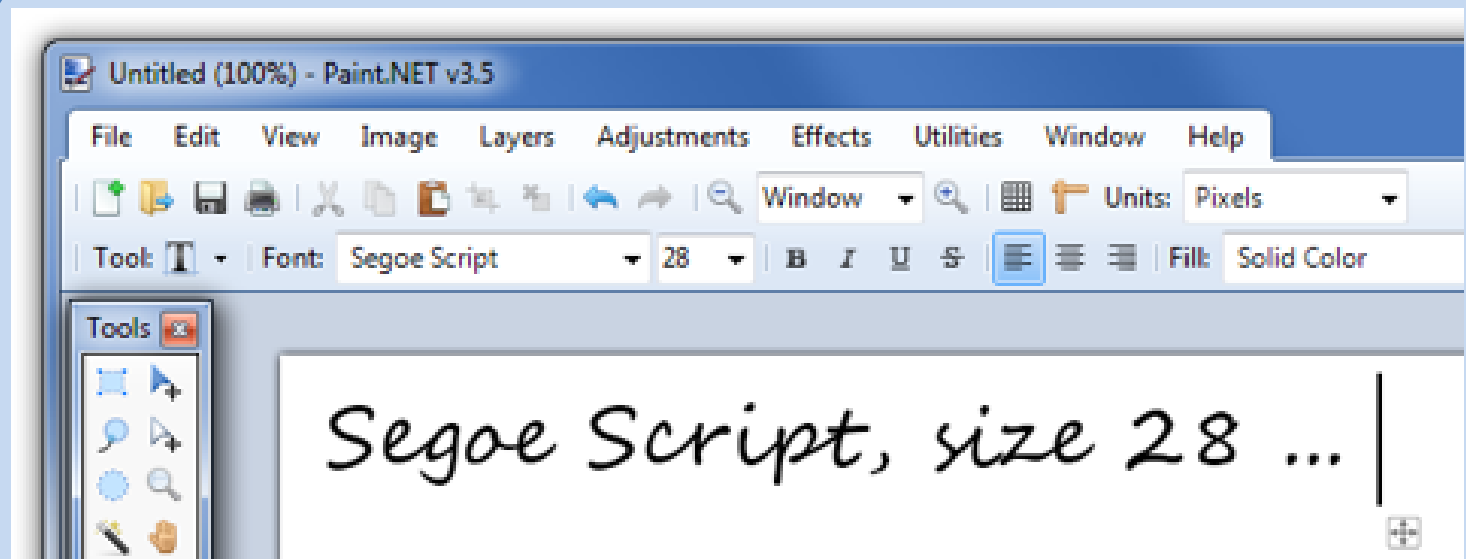
Primary, left-hand mouse button
Secondary, right-hand mouse button





Text

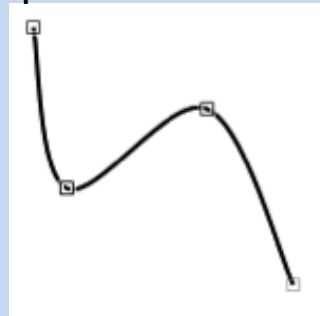
This tool allows you to type text on to the current layer. While this tool is selected, you click on the canvas to place the text cursor. While this cursor is blinking you may type to insert text



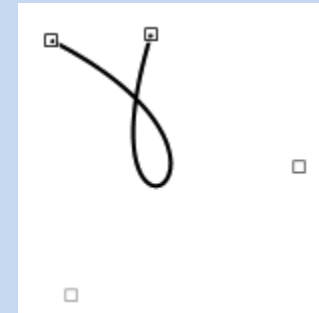
Line/Curve

You may curve the line by dragging the nubs.
Use the left mouse button for dragging, then the line will be curved using cubic spline interpolation. The curve will be drawn such that it always goes through each point.
Use the right mouse button then you will draw what is known as a Bézier curve. The curve will not necessarily go through each point, but you will be able to draw curves that are not possible with the cubic spline method.

Spline Curve

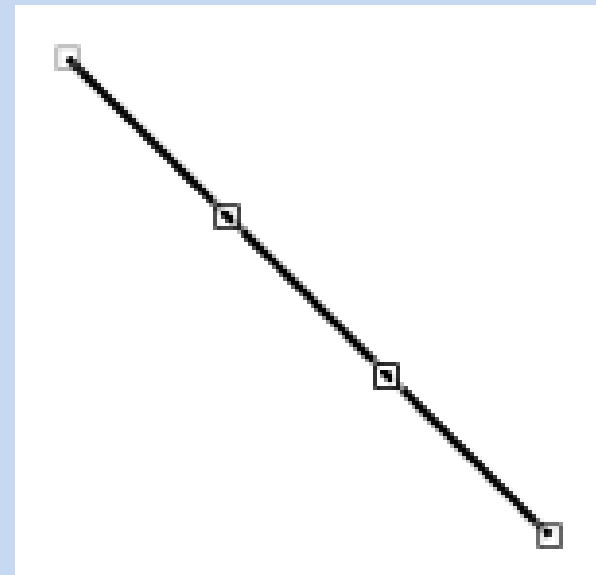


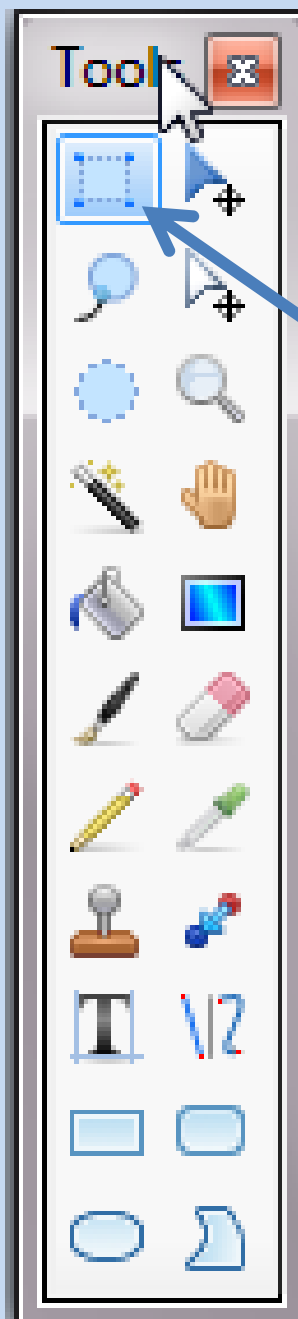
Bézier Curve



Line/Curve

Drawing a line is simple: click where you want the line to start and then drag over to the ending point and release the mouse button. You will see four handles, or nubs, appear on the line.



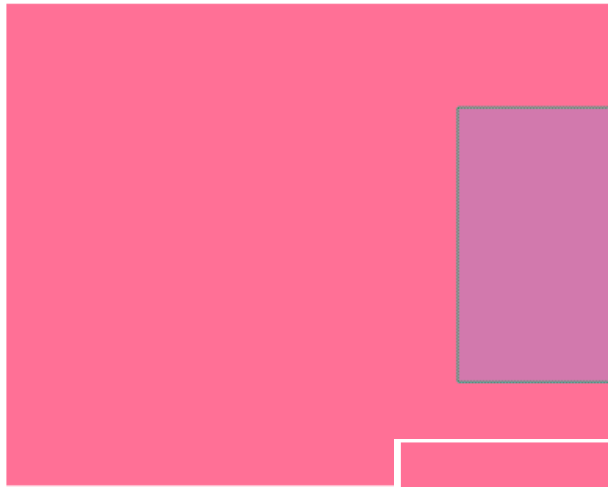


**Rectangular
Select**

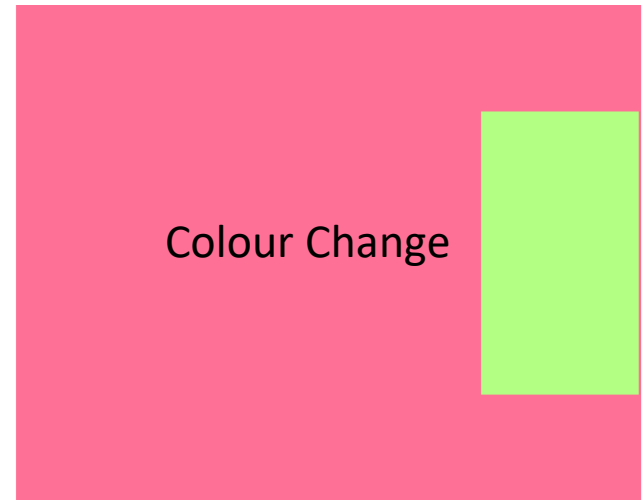
Tool:  ▼ | Selection Mode:  ▼ |  Normal ▼

Shortcut Key – S
Will toggle through select options

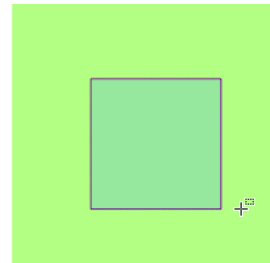
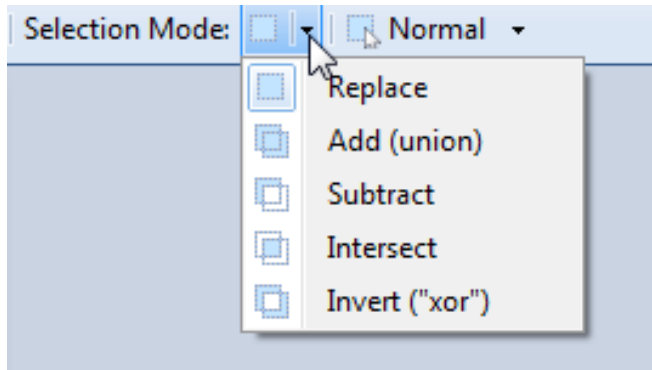
Using – Rectangular Select



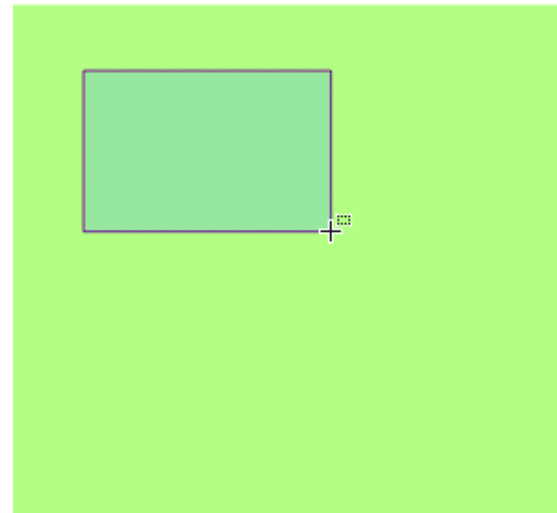
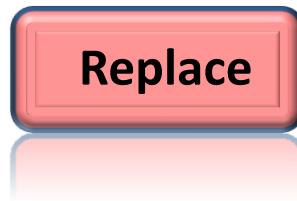
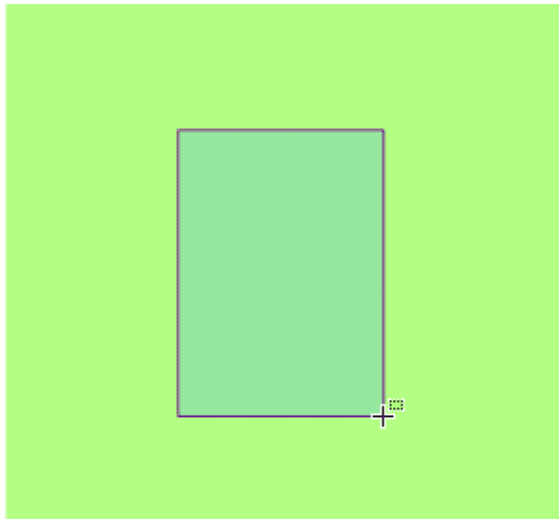
Once area is selected you can then remove this section ie. Delete or Change colour etc.



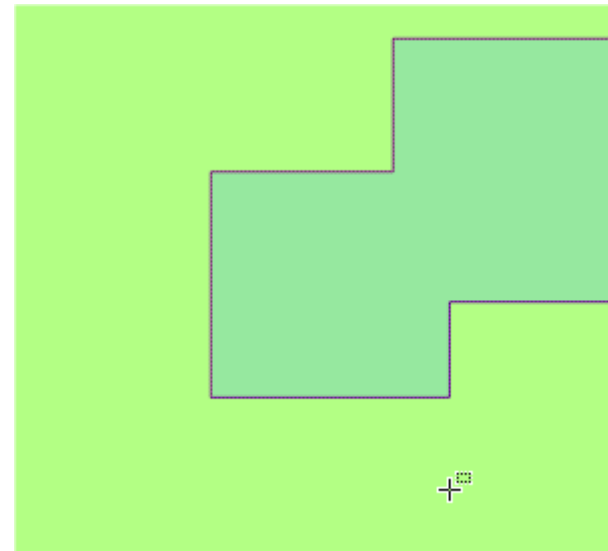
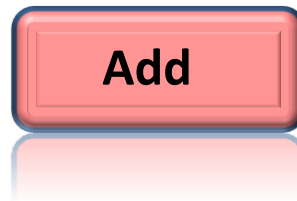
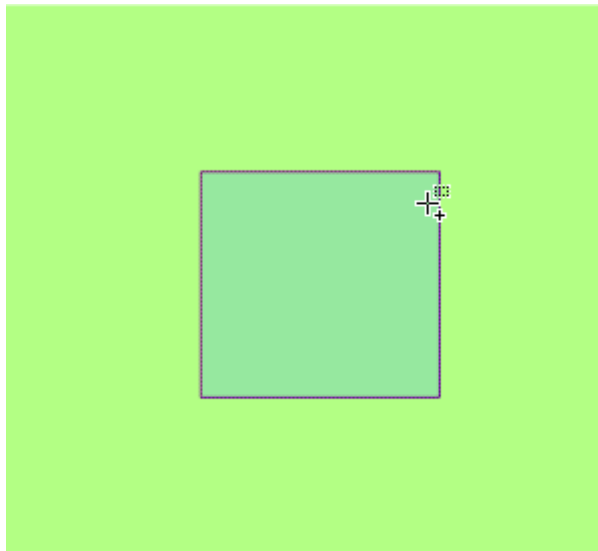
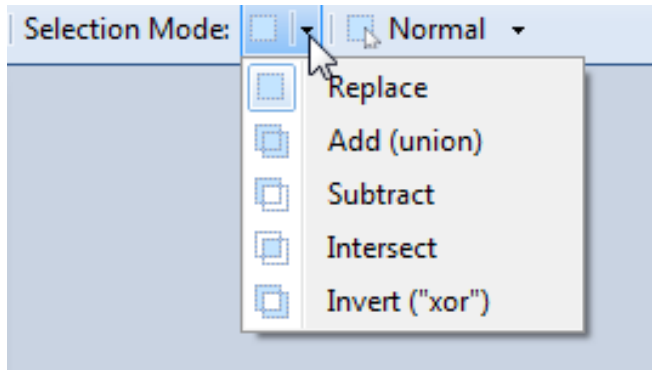
Selection Mode



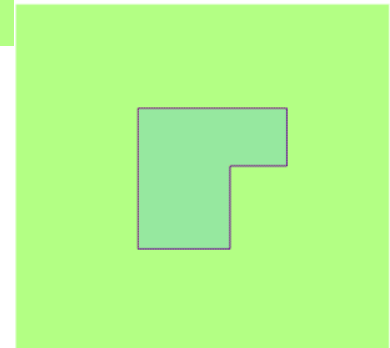
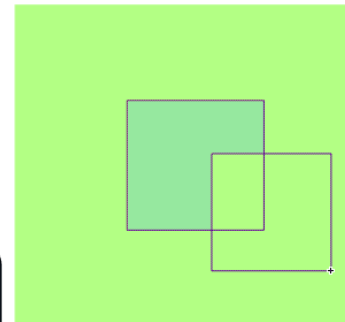
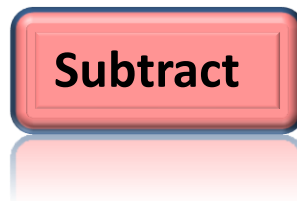
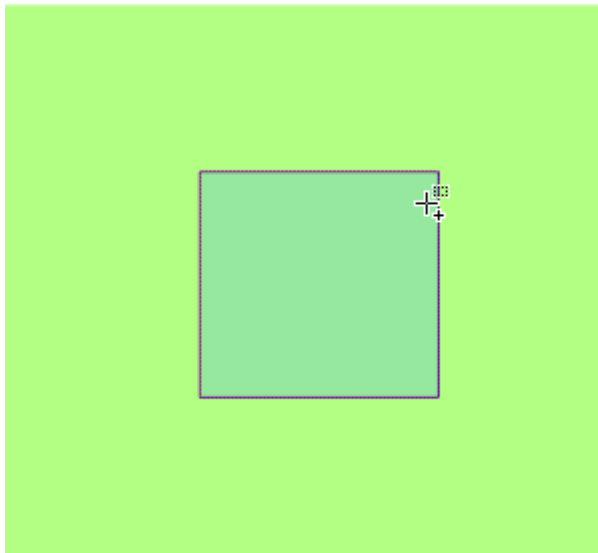
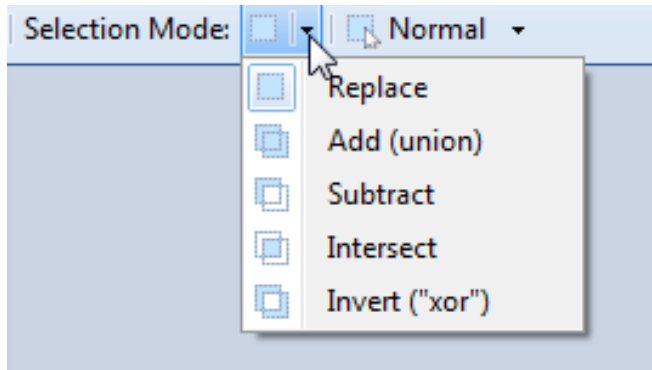
**Hold down
SHIFT KEY
While selecting
to force a square**



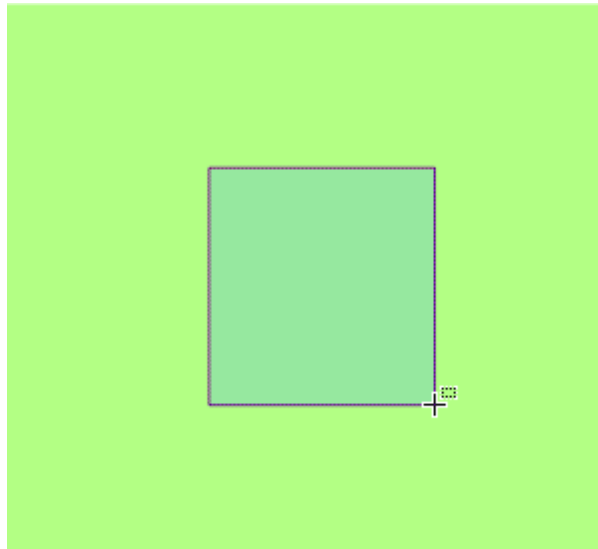
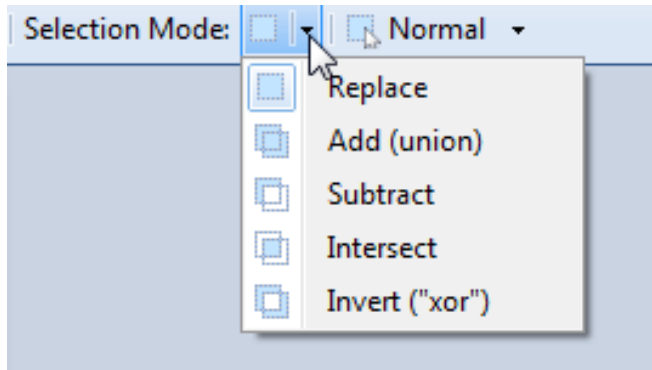
Selection Mode



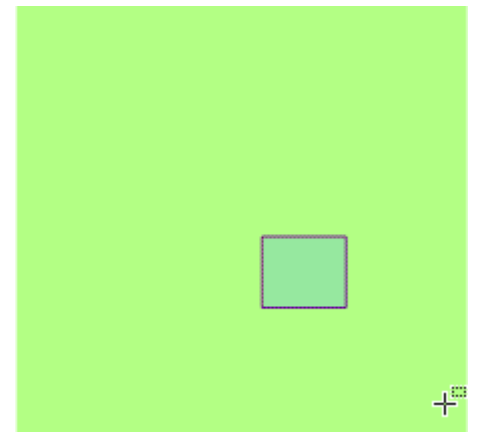
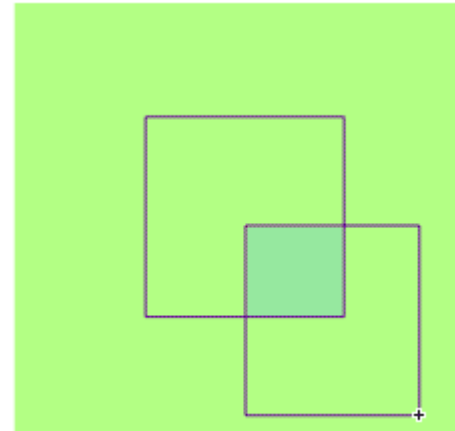
Selection Mode



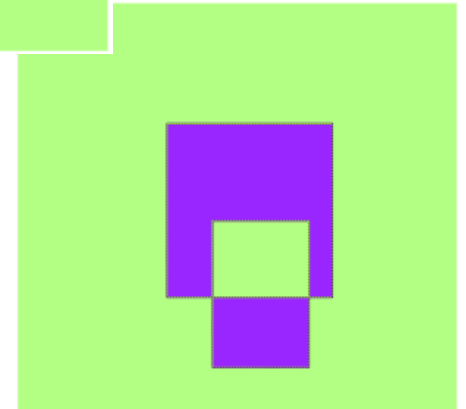
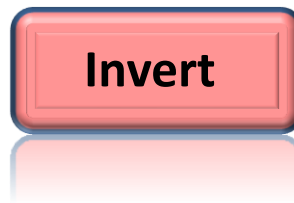
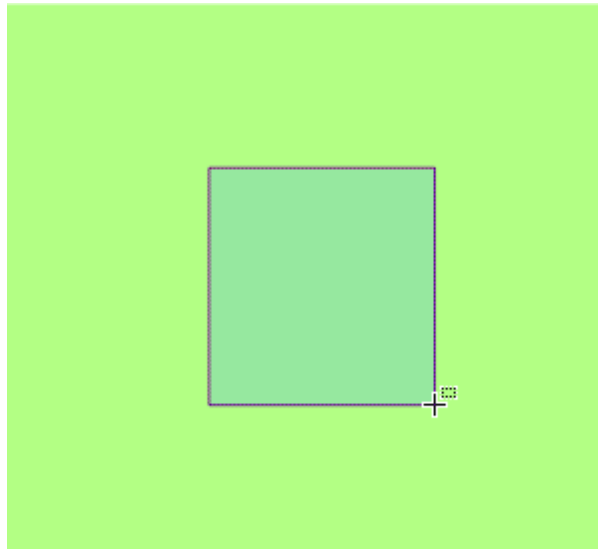
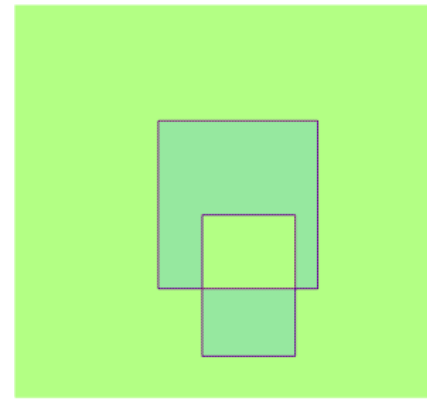
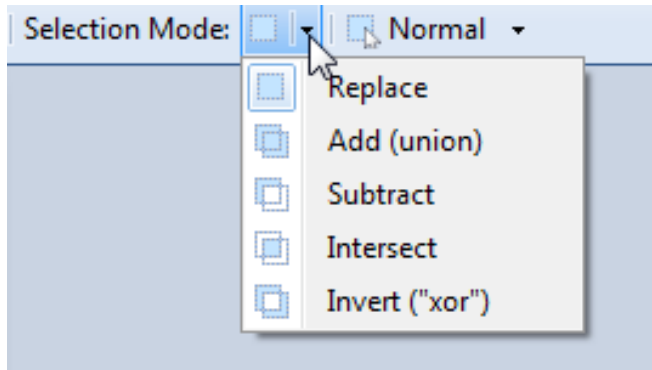
Selection Mode

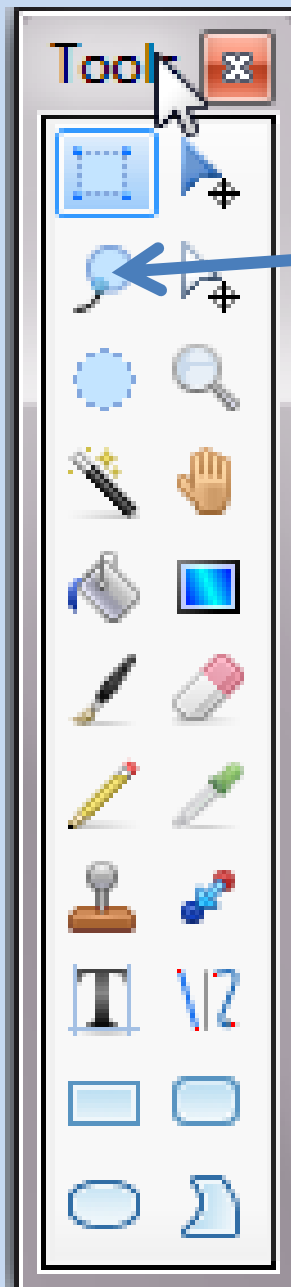


Intersect

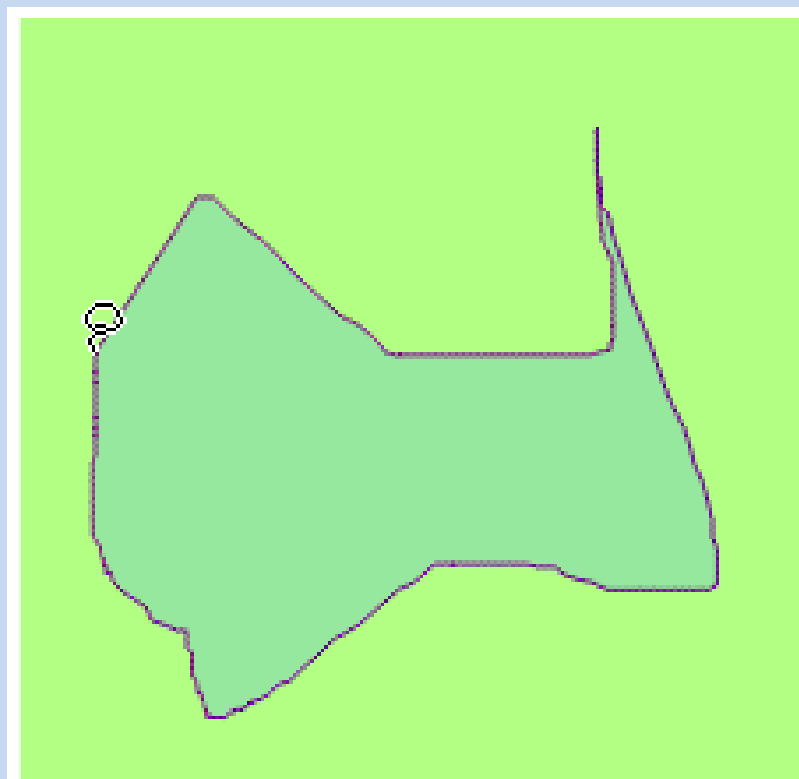


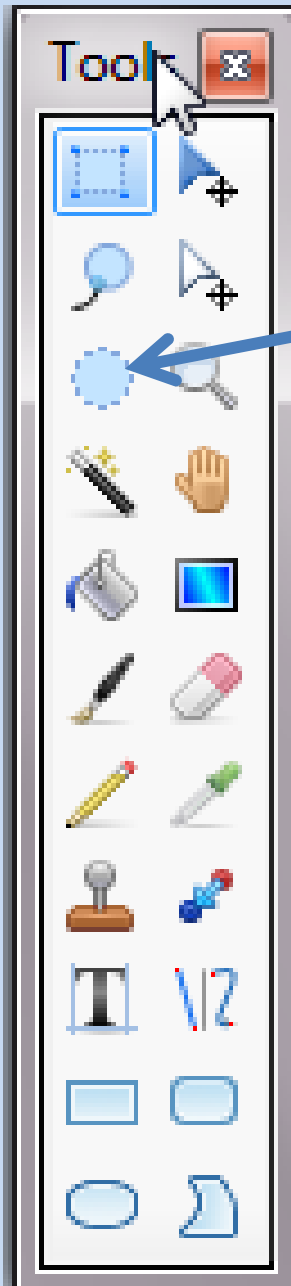
Selection Mode



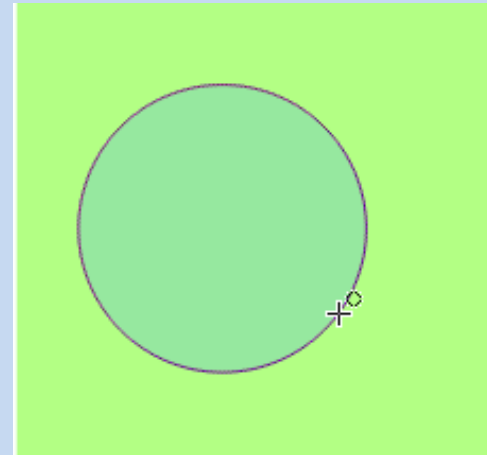
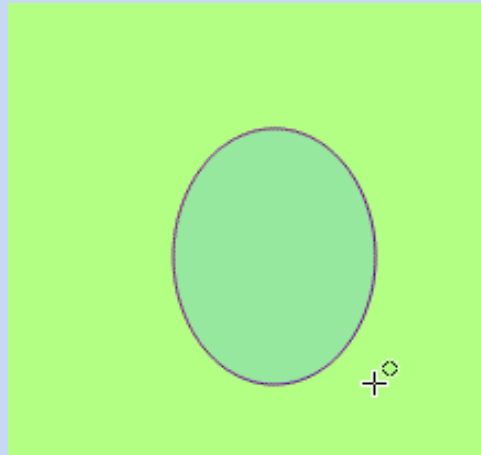


Lasso Select

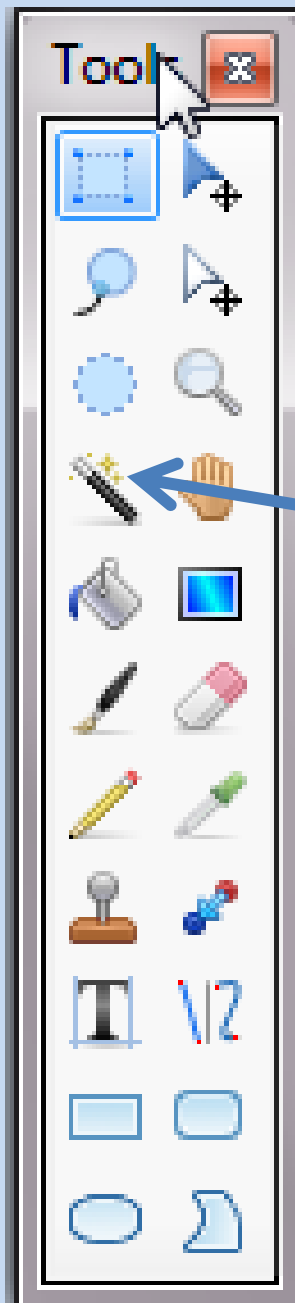




Ellipse Select



**Hold down SHIFT KEY
While selecting to force
circle**



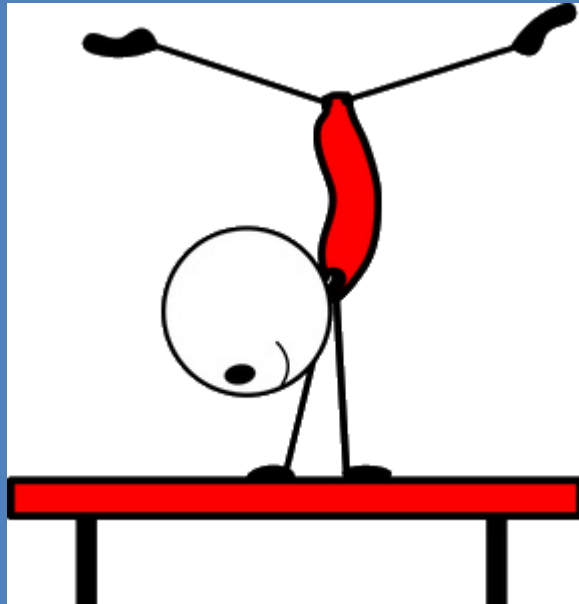
Magic Wand

Selection Mode:  | Flood Mode:  | Tolerance:

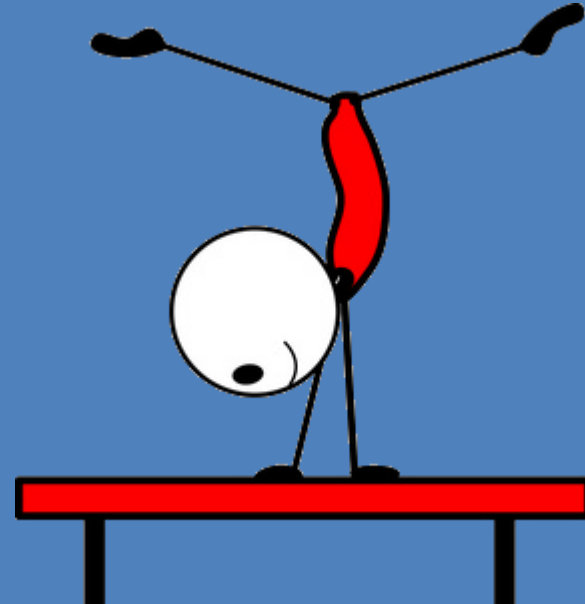
Using – Magic Wand

Example of why you might use it.

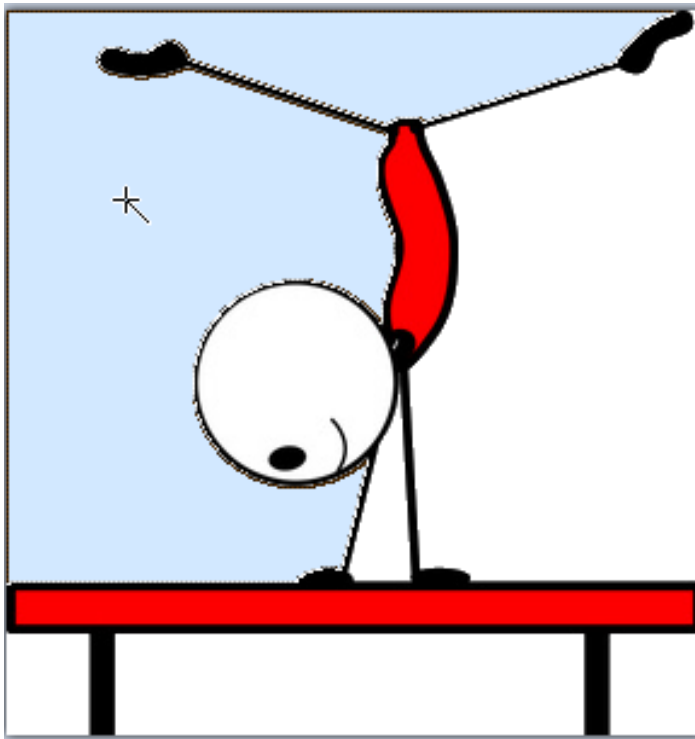
WITHOUT



WITH



Using – Magic Wand



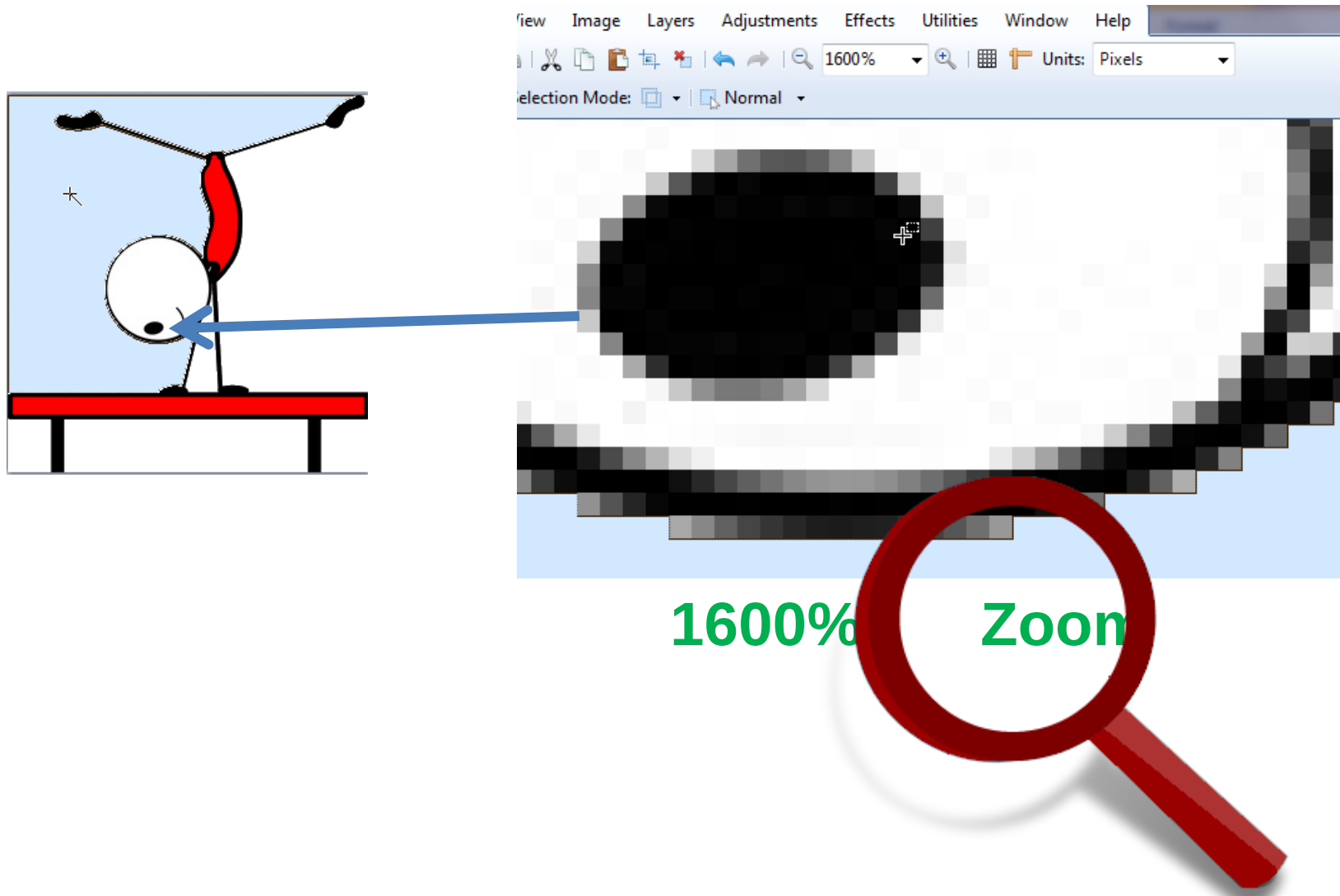
The Magic Wand tool creates a selection by using the tolerance setting to select pixels of a similar shade.

Selection Mode:  ▼

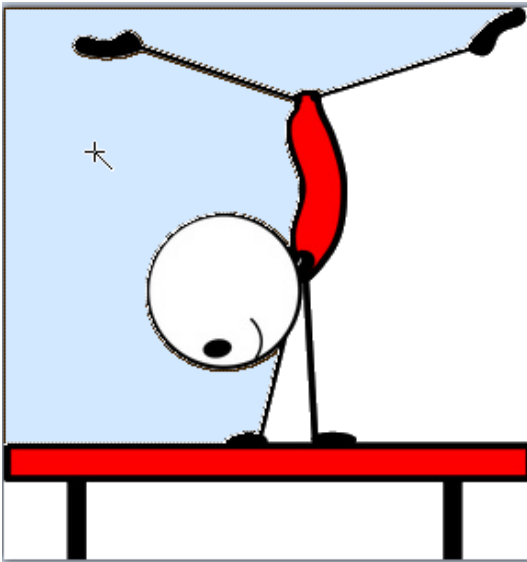
Flood Mode:  ▼

Tolerance:

Using – Magic Wand



Using – Magic Wand



By deleting
the selection
we now
make that
area
Transparent

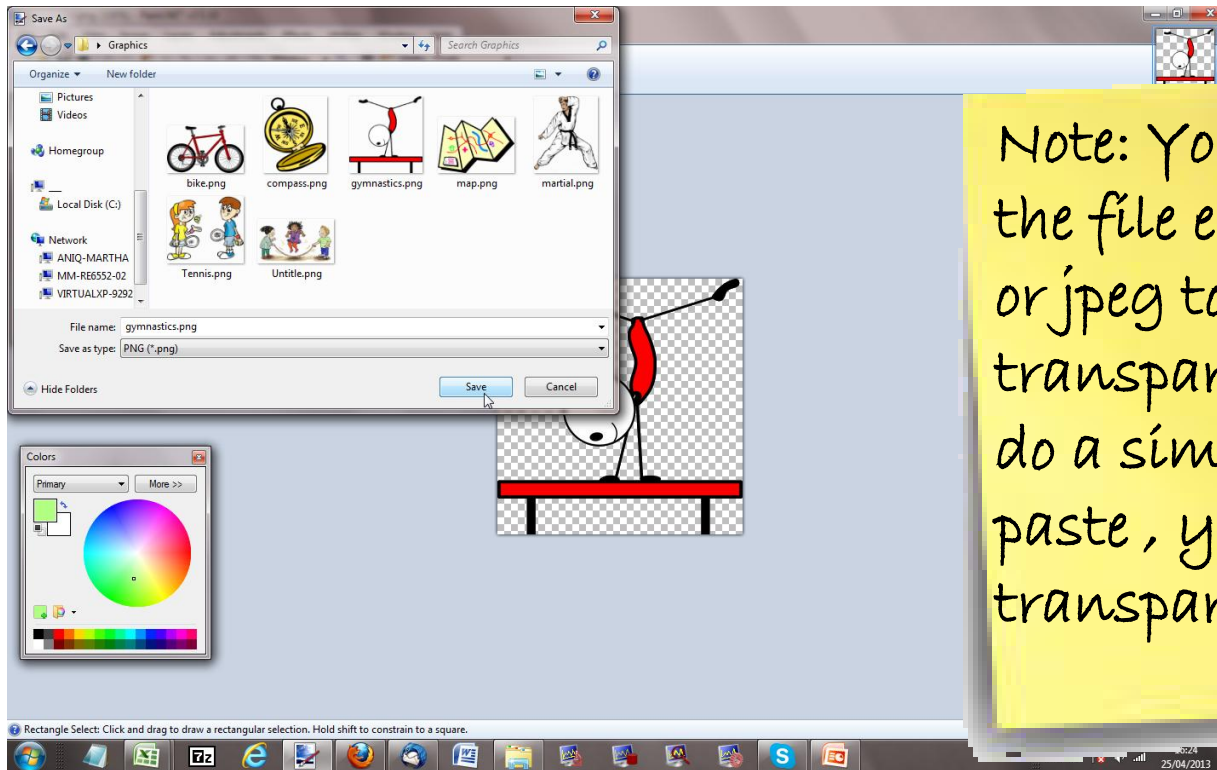


Selection Mode:  ▼

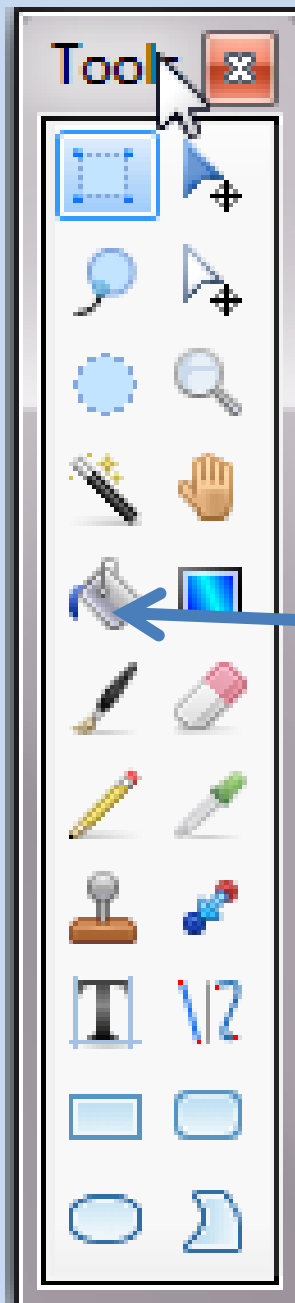
Flood Mode:  ▼

Tolerance:

Using – Magic Wand



Note: You must save the file either as a png or jpeg to retain the transparency, if you do a simple copy and paste, you will lose the transparency.



Paint Bucket

Flood Mode:  | Fill: Solid Color | Tolerance: |  | 

Using – Paint Bucket

This tool may be used to fill an area with a specific colour

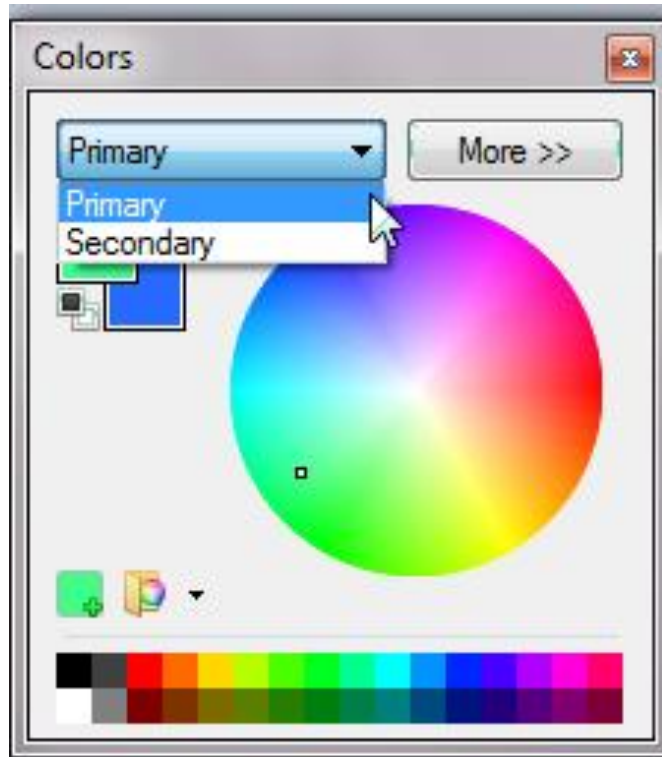


The region that gets filled is defined as the area surrounding where you clicked that has a uniform colour.

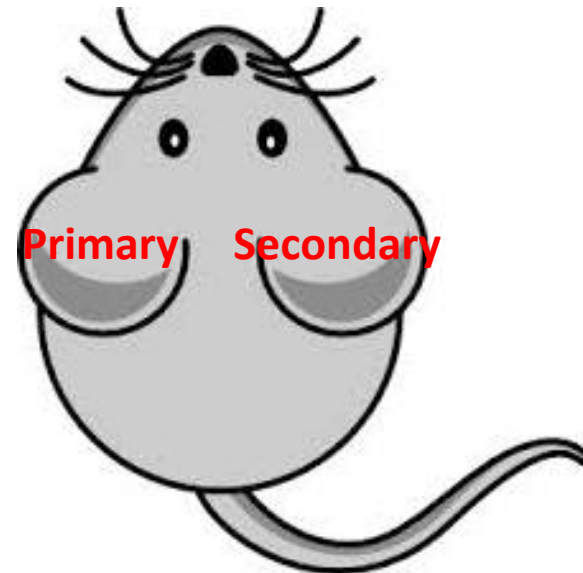


Using – Paint Bucket

Primary and Secondary Colours



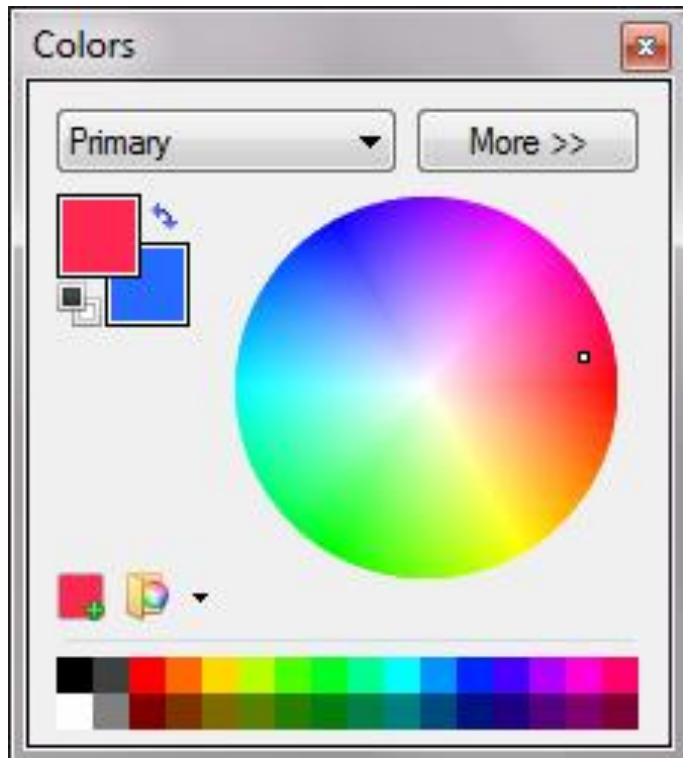
Primary, left-hand mouse button
Secondary, right-hand mouse button



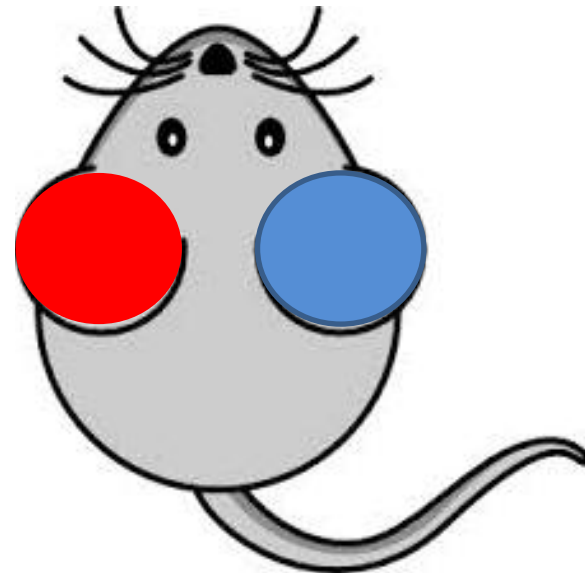
Using – Paint Bucket

Primary Colour is set to **RED**

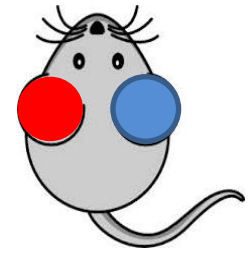
Secondary Colour is set to **BLUE**



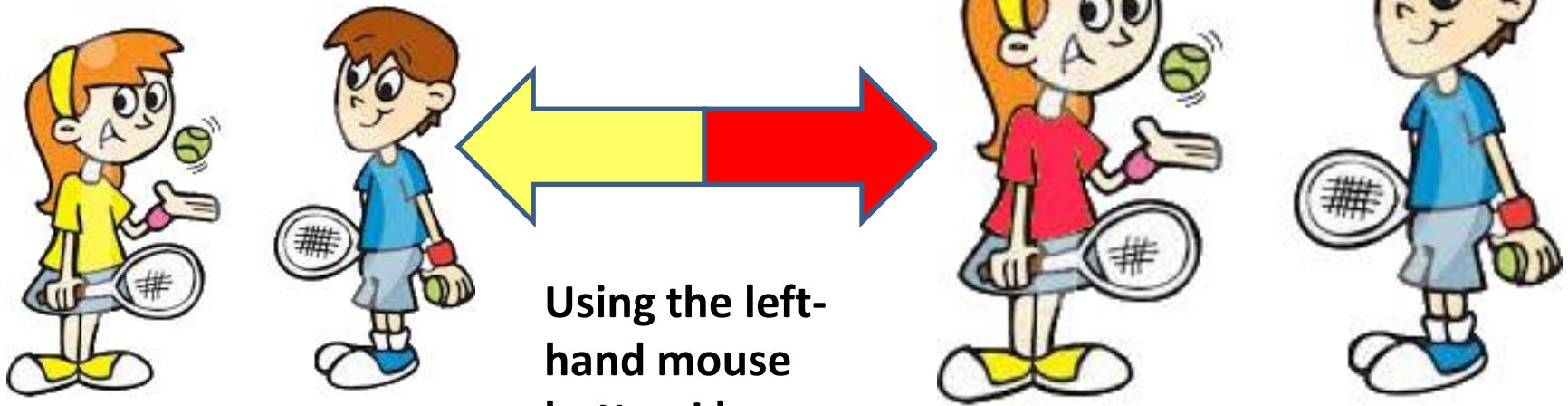
Primary, left-hand mouse button
Secondary, right-hand mouse button



Using – Paint Bucket

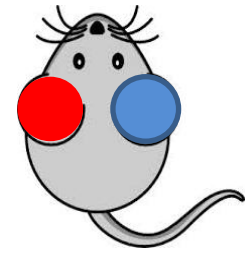


Example of where you might use it.

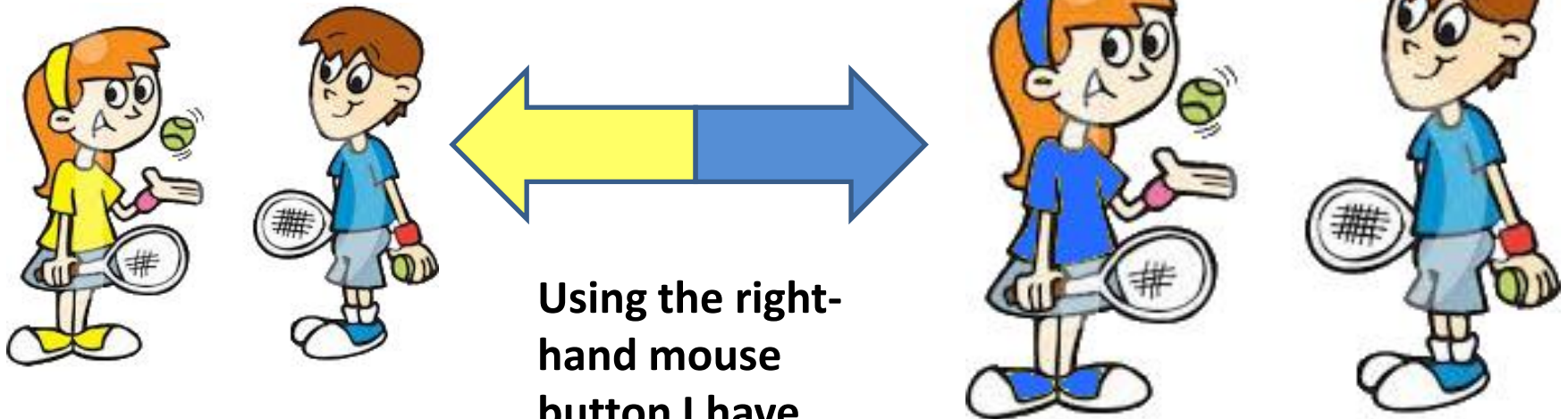


Using the left-hand mouse button I have changed the girl's shirt from Yellow to Red

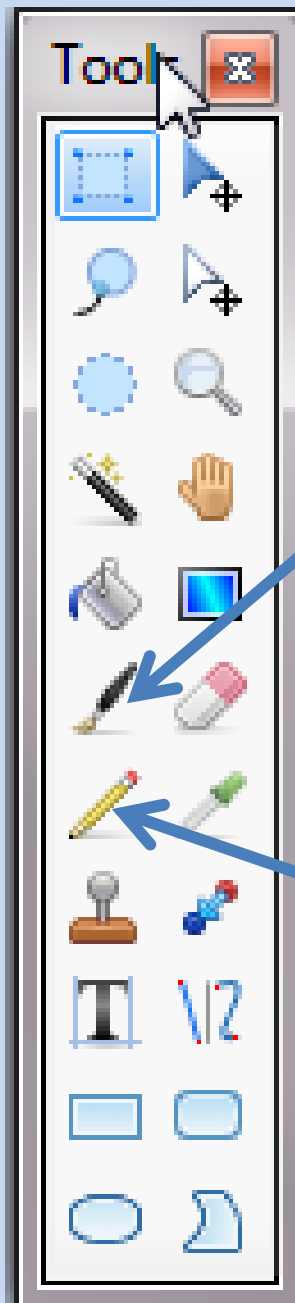
Using – Paint Bucket



Example of where you might use it.



Using the right-hand mouse button I have changed the girls shirt/hairband and socks from yellow to Blue

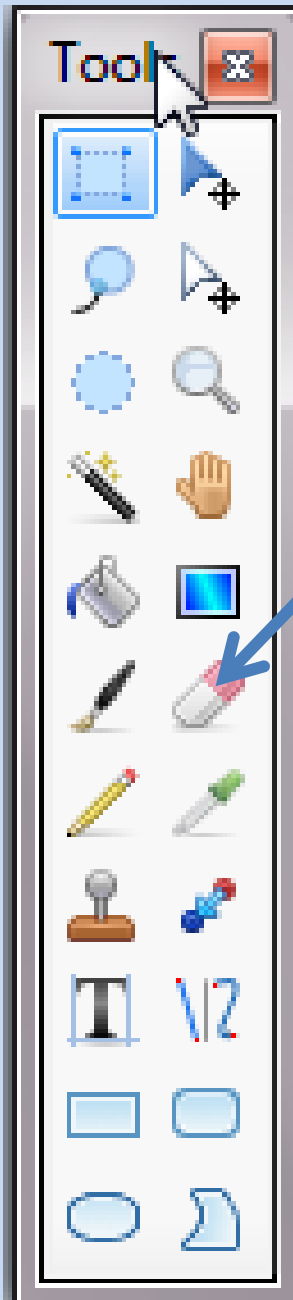


Paint Brush

To draw using this tool,
simple left click and
drag the mouse

Brush width: | Fill:

Pencil



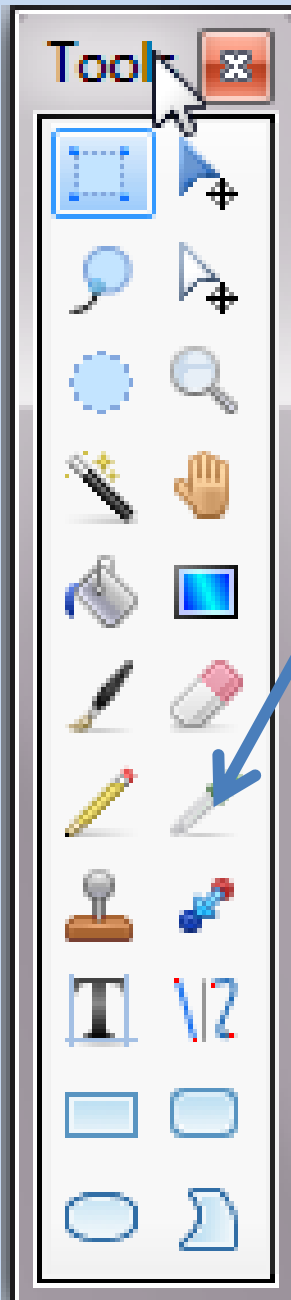
Eraser

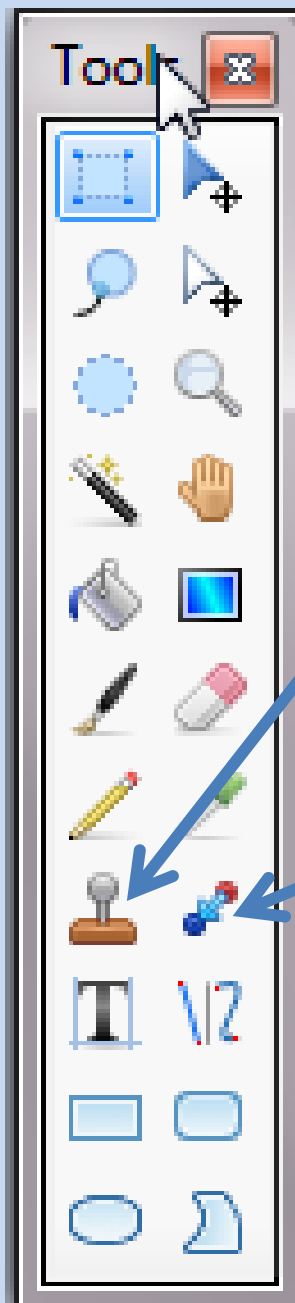
This tool is useful for erasing parts of the image.

Note, however, that it works by marking areas of a layer as being transparent

Picker / Dropper

The colour picker can be used to transfer the colour of the pixel at the mouse cursor's position to either the primary or the secondary colour. If you left click, the primary colour will be changed. Right clicking will change the secondary colour.



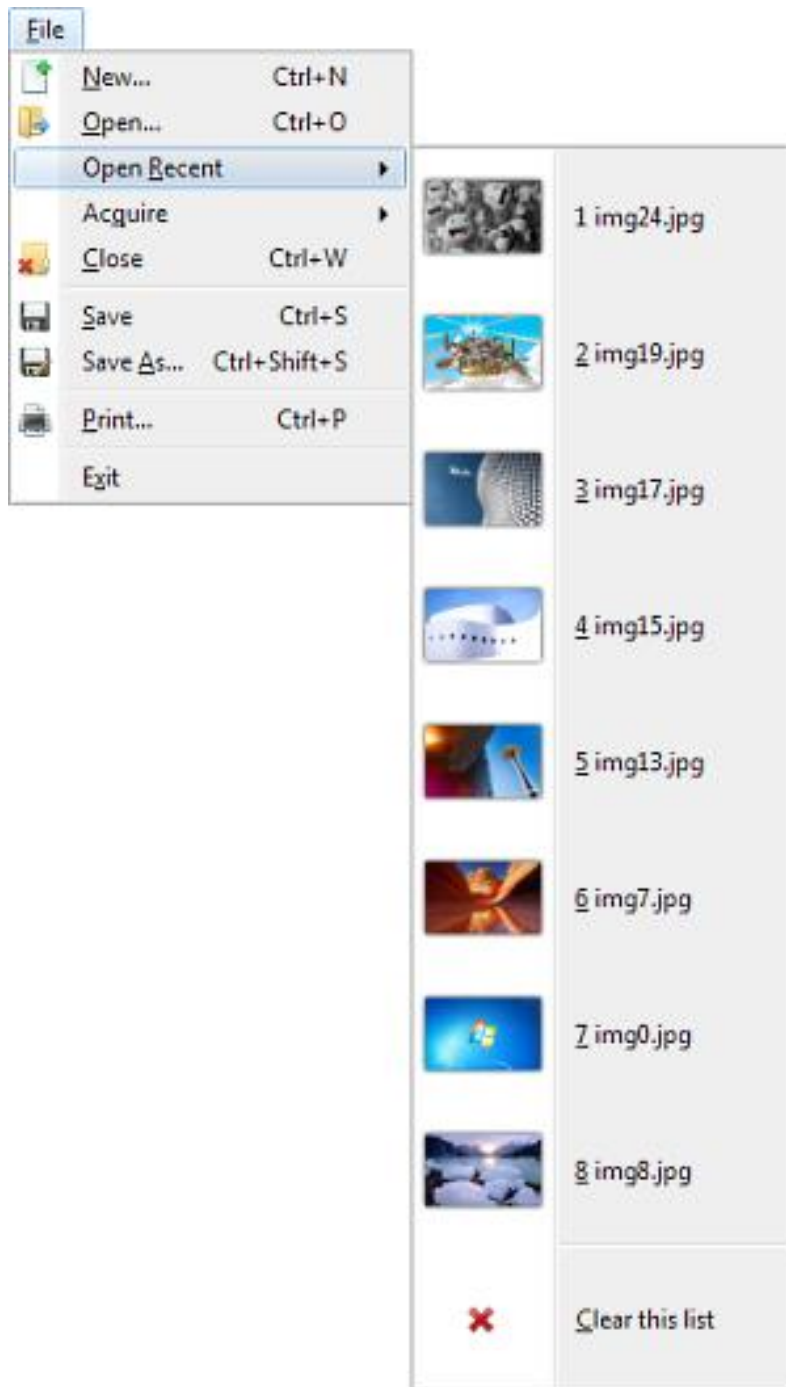


Clone Stamp

This tool is useful for copying regions of pixels

Recolour

This tool is useful for replacing one colour with another. When re-colouring with the left mouse button, the primary colour signifies the replacement colour, and the secondary colour represents the colour to replace. If you use the right mouse button, these roles are reversed.



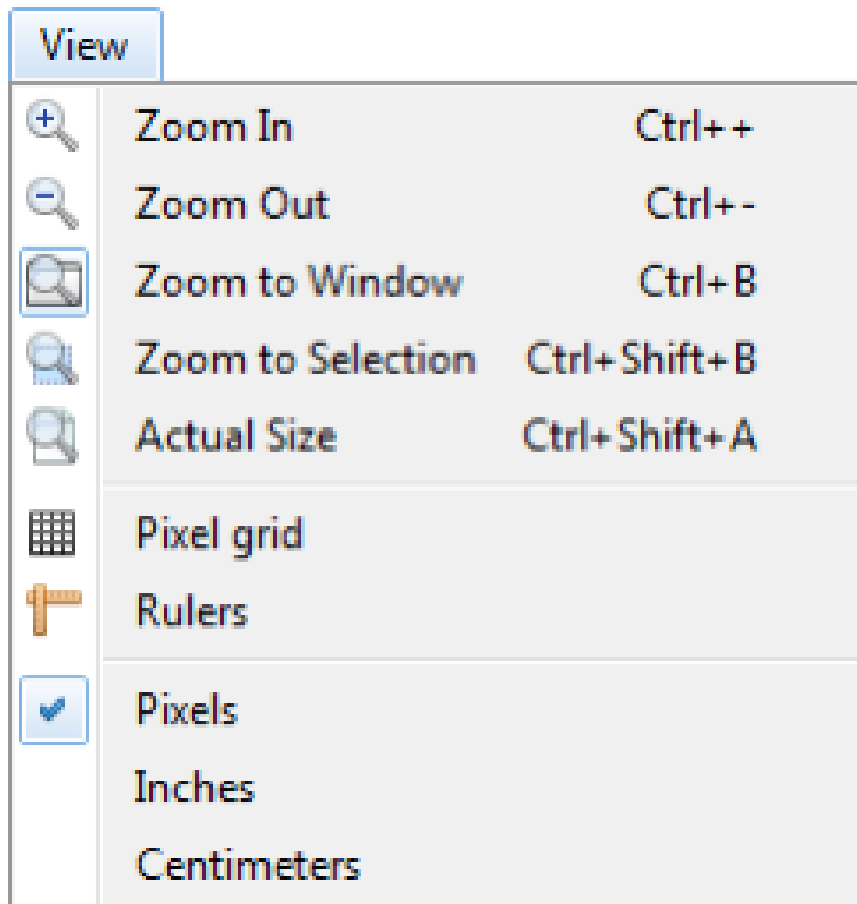
File Menu



Edit		
	Undo	Ctrl+Z
	Redo	Ctrl+Y
	Cut	Ctrl+X
	Copy	Ctrl+C
	Paste	Ctrl+V
	Paste in to New Layer	Ctrl+Shift+V
	Paste in to New Image	Ctrl+Alt+V
	Erase Selection	Del
	Fill Selection	Backspace
	Invert Selection	Ctrl+I
	Select All	Ctrl+A
	Deselect	Ctrl+D

Edit Menu





View Menu



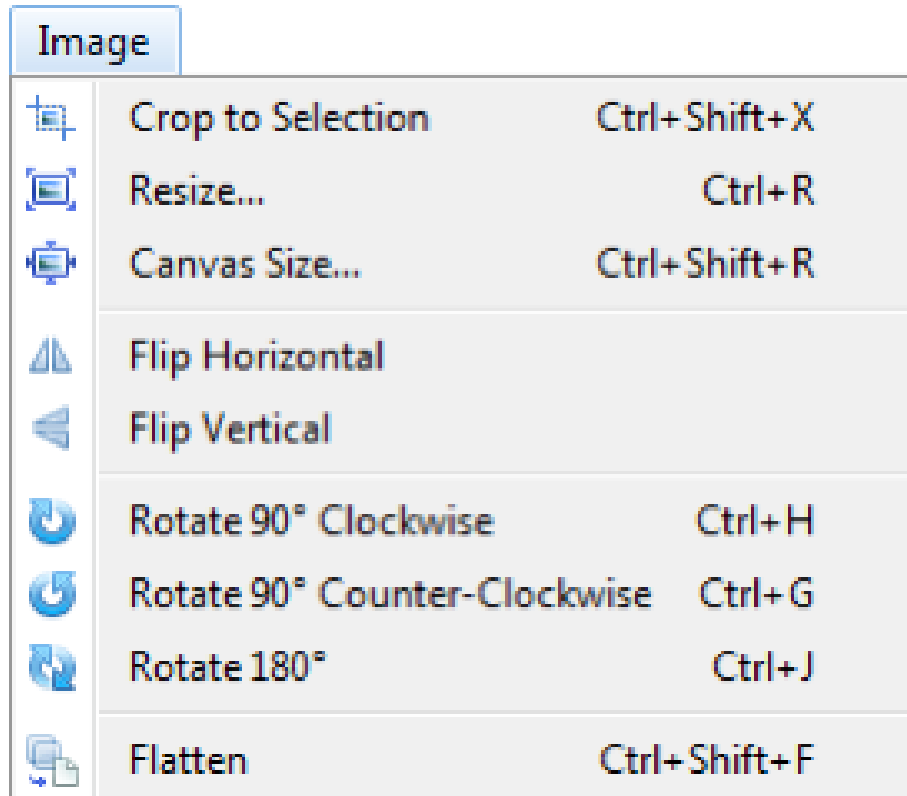
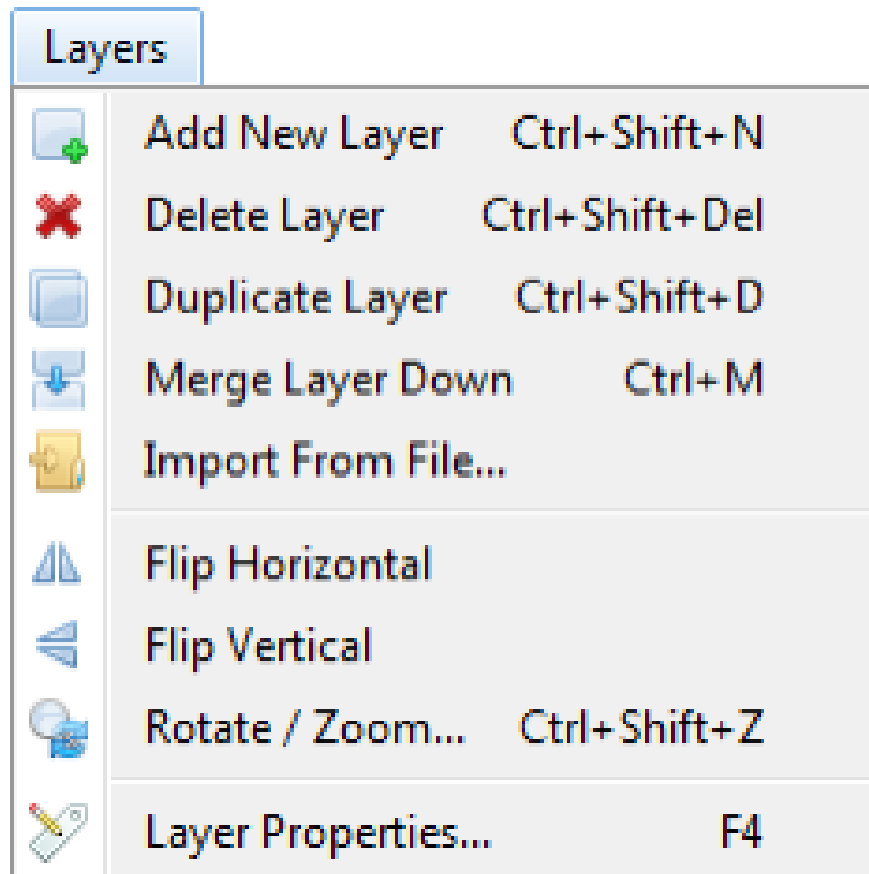


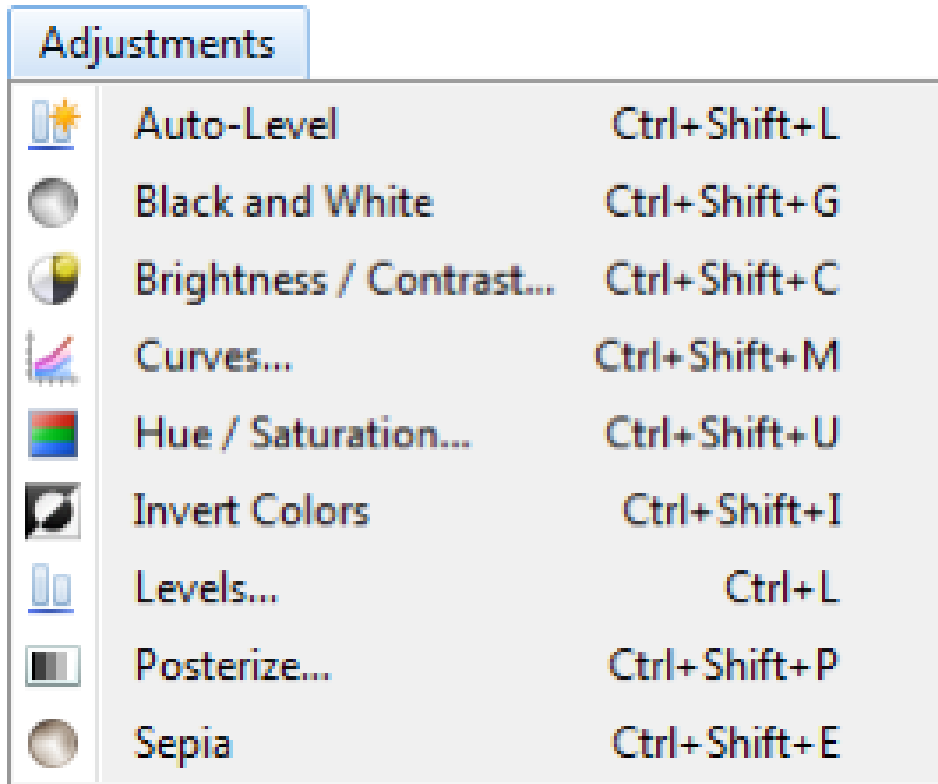
Image Menu





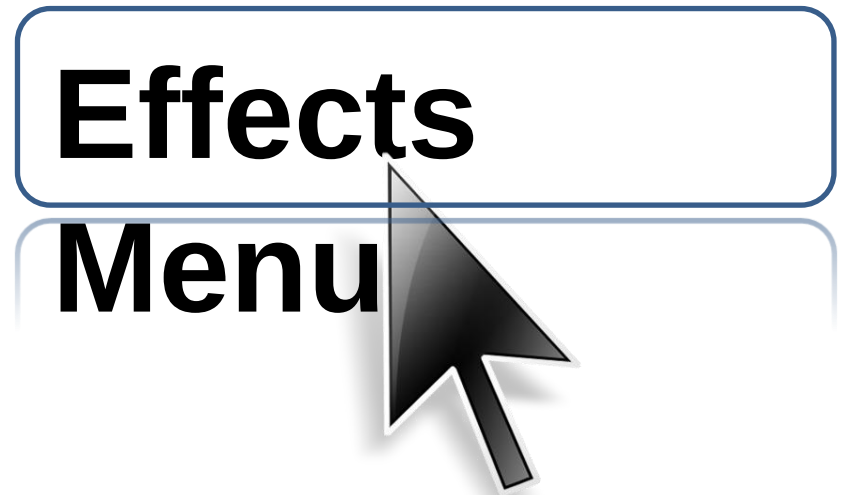
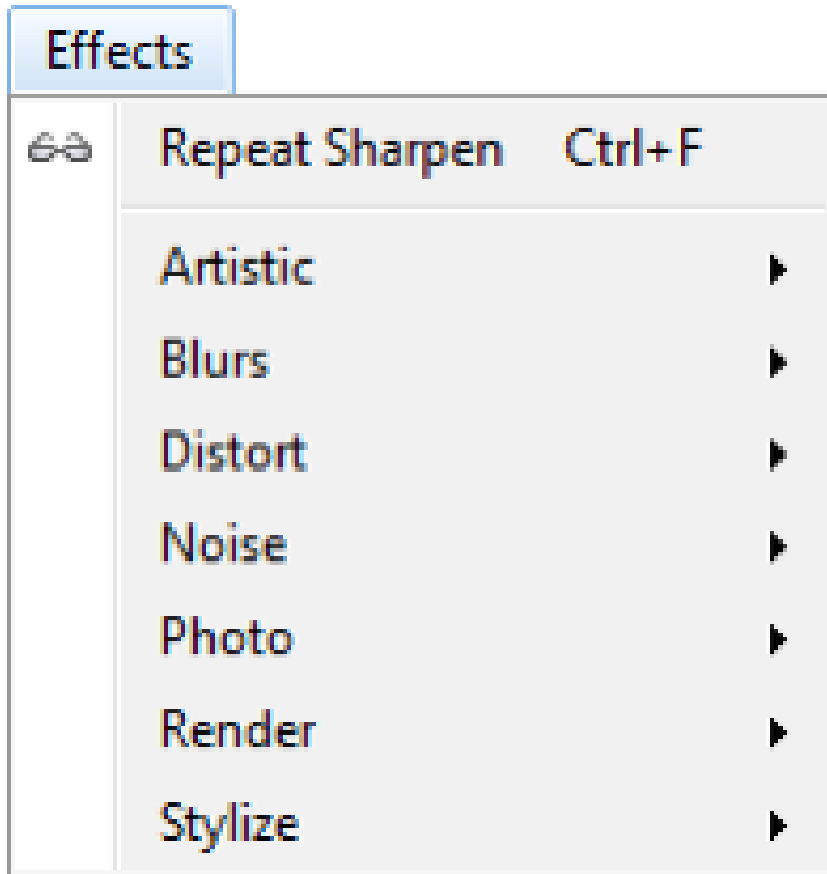
Layers Menu





Adjustments Menu







Hope you enjoyed

Now try it out yourselves

The next couple of weeks..



The next couple of weeks..

