

CoderDojo Athenry

Scratch Beginners/Advanced



Code and notes by Martha Fahy, 2013

CoderDojo Athenry

"Above all, be cool"



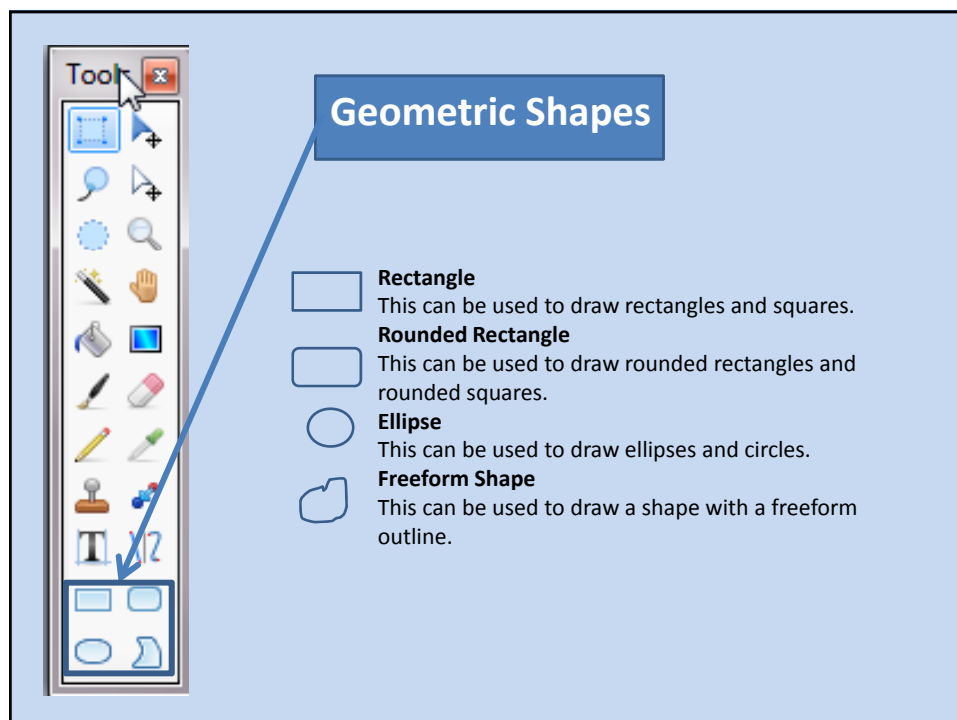
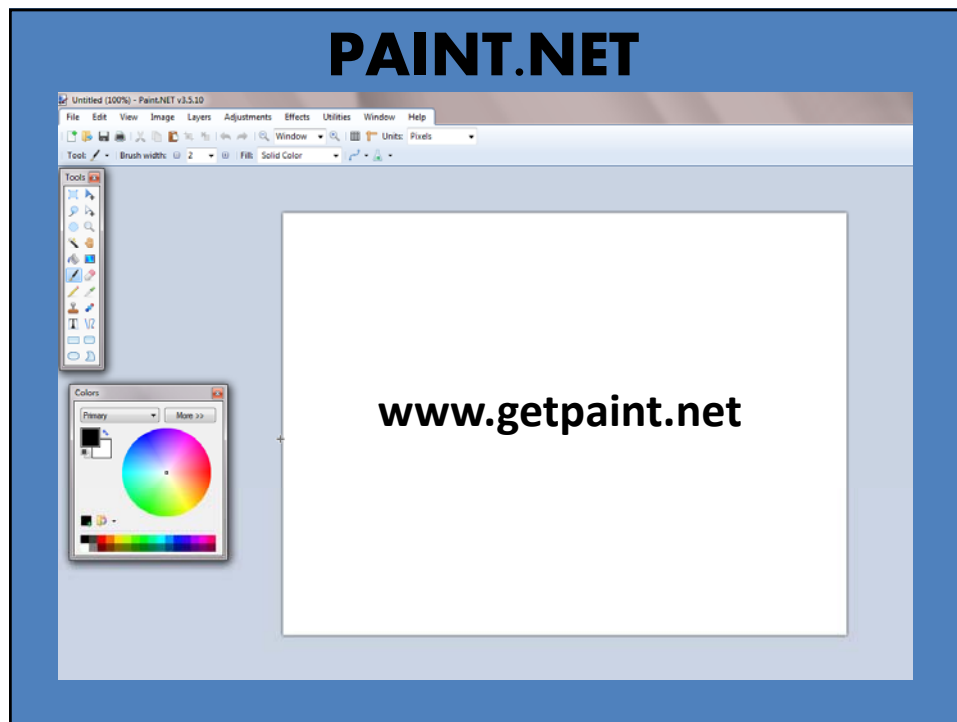
Every week:

- ✓ Sign in at the door

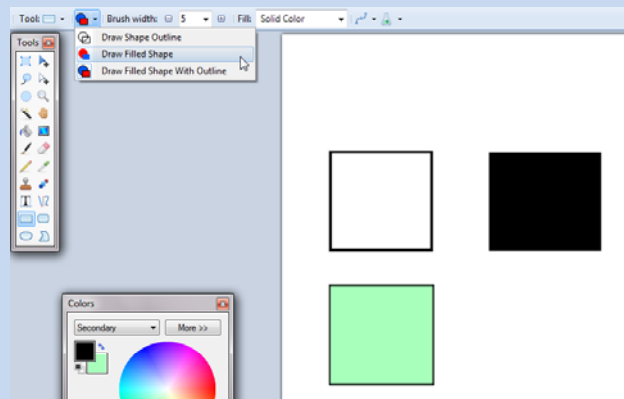
If you are new:

- ✓ 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



Rectangular/Squares

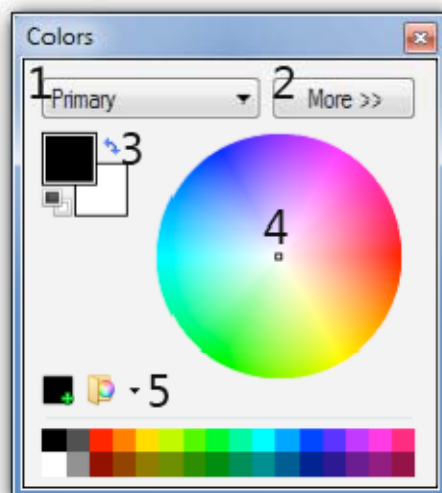


To draw , click and drag with the left mouse button.

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.

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.

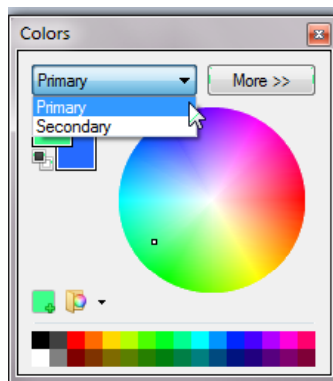
3. Current Colour Selection
This shows the currently selected primary and secondary colours.

4. Colour Wheel
Used for colour selection.

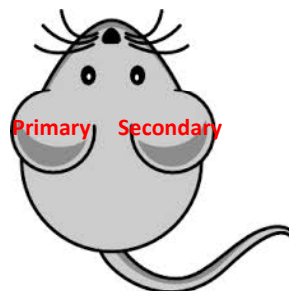
5. Palette Buttons
Used to manage palettes.

Colours Window

Primary and Secondary Colours



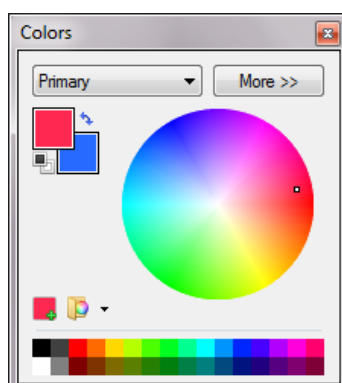
Primary, left-hand mouse button
Secondary, right-hand mouse button



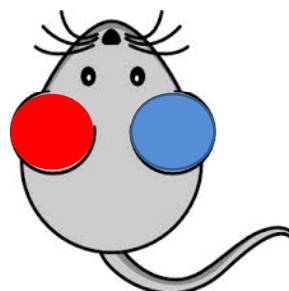
Colours

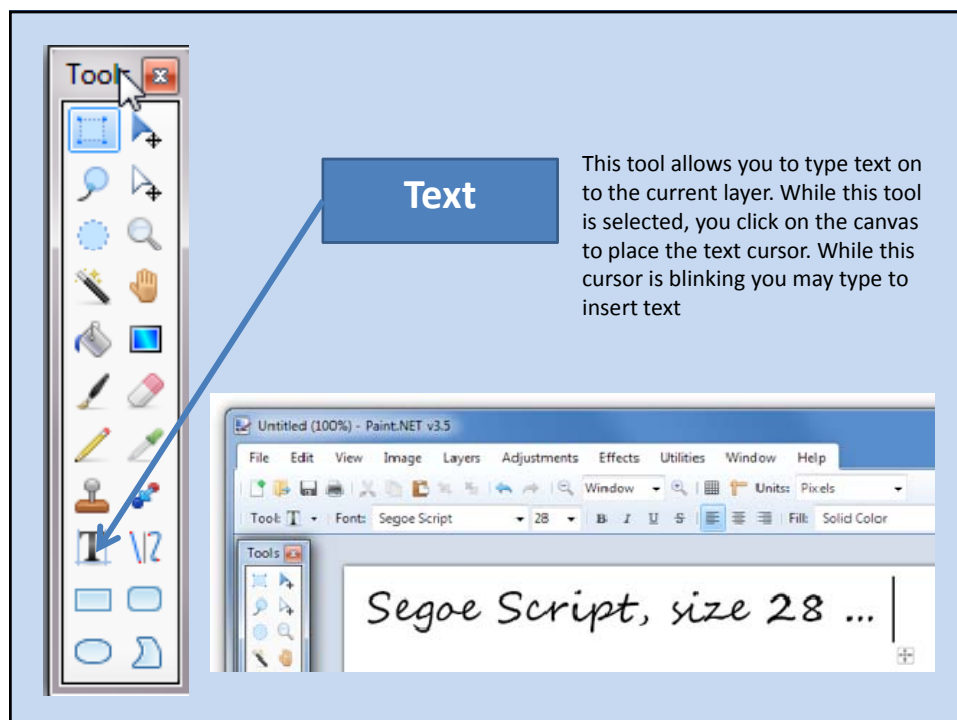
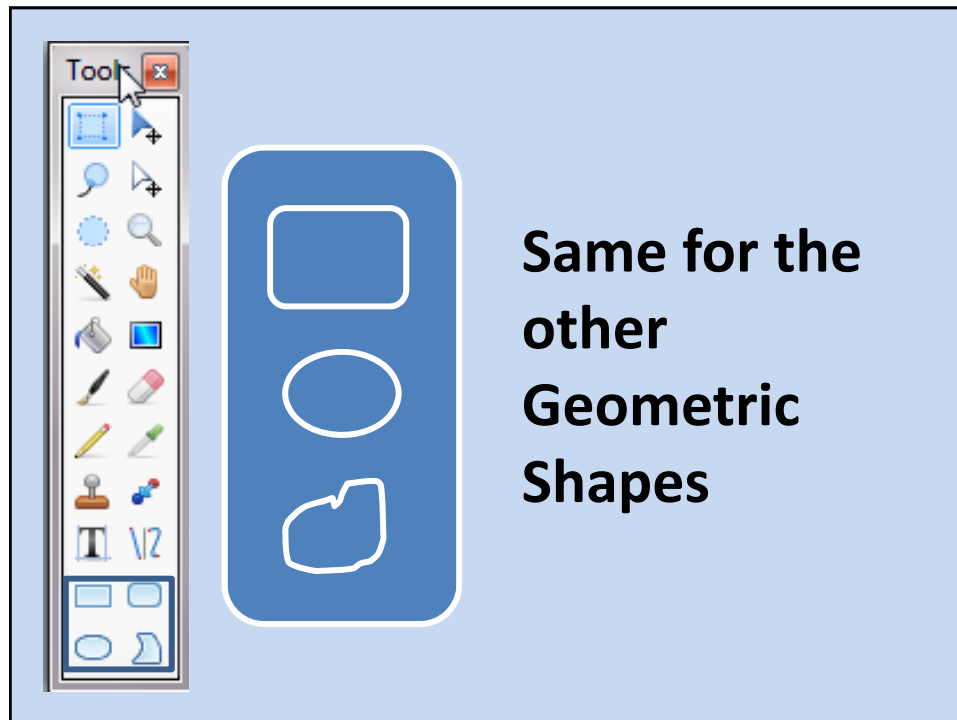
Primary Colour is set to **RED**

Secondary Colour is set to **BLUE**



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





Line/Curve

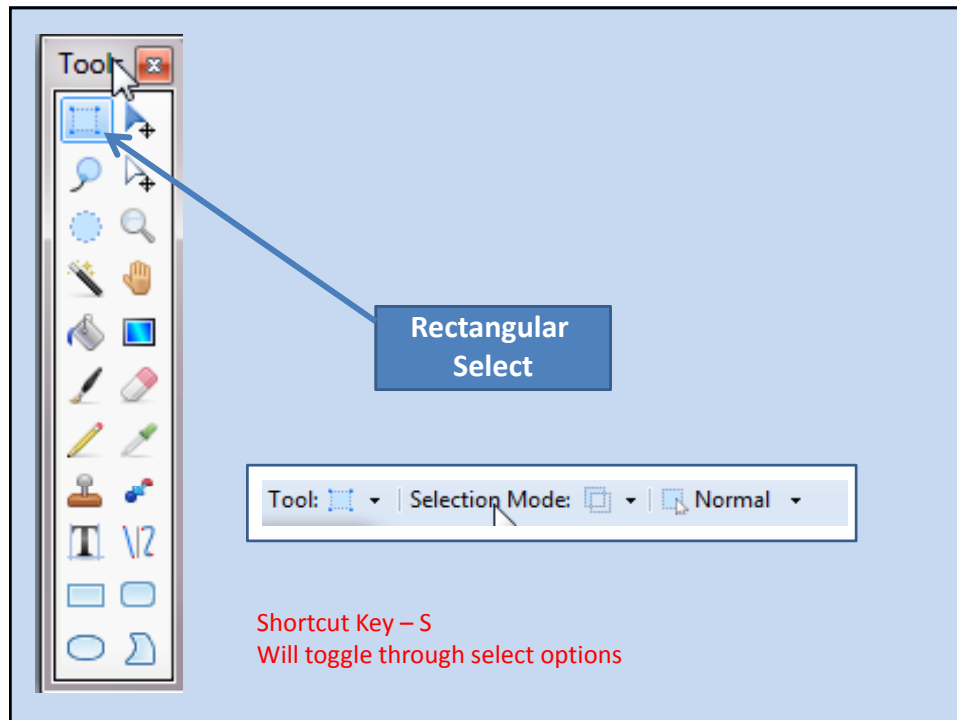
You may curve the line by dragging the nubs.
 Use the left mouse button for dragging, then the line will be curved using cubic spline interpolation. The curve will be drawn such that it always goes through each point.
 Use the right mouse button then you will draw what is known as a Bézier curve. The 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

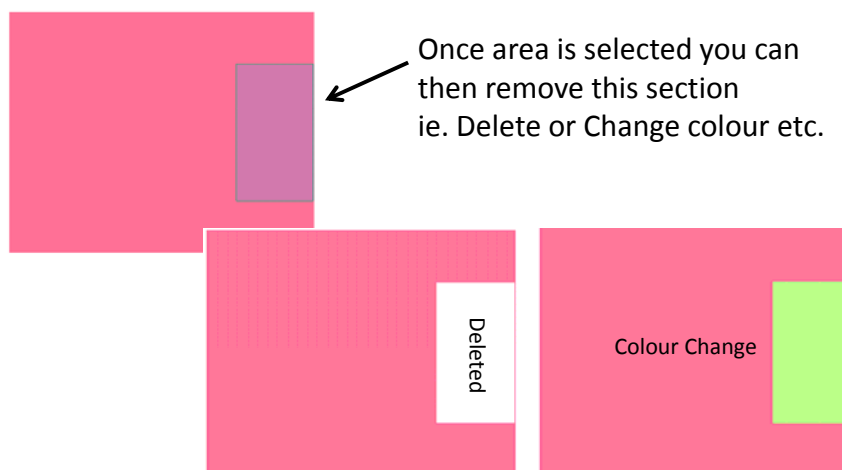
Bézier Curve

Line/Curve

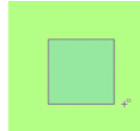
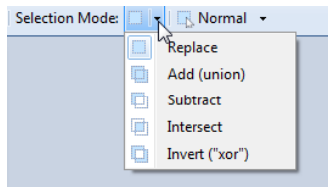
Drawing a line is simple: click where you want the line to start and then drag over to the ending point and release the mouse button. You will see four handles, or nubs, appear on the line.



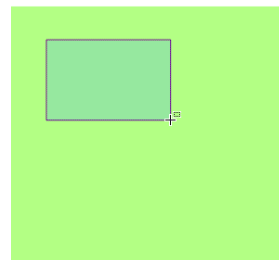
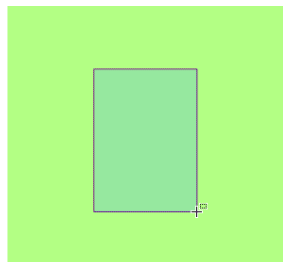
Using – Rectangular Select



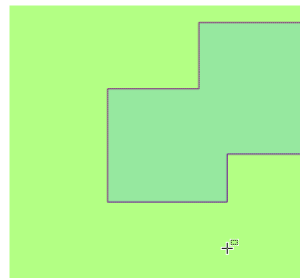
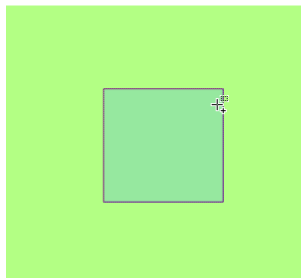
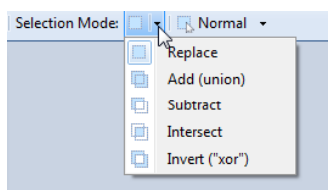
Selection Mode



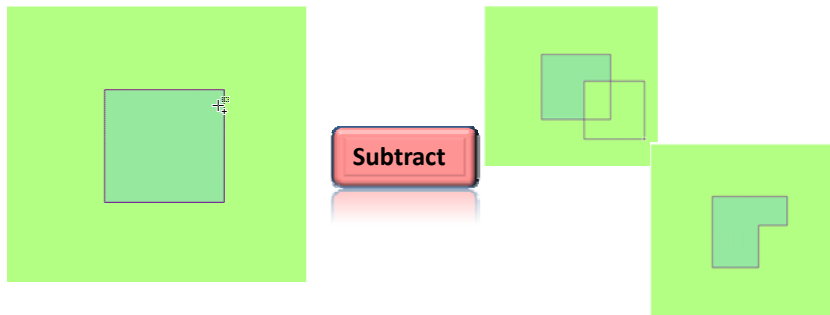
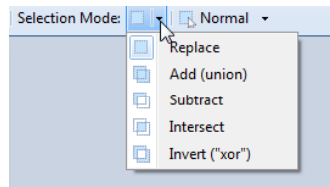
**Hold down
SHIFT KEY
While selecting
to force a square**



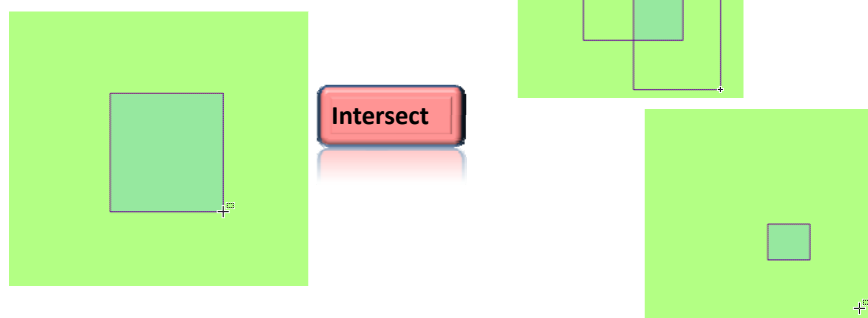
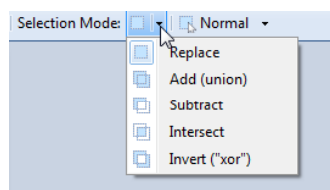
Selection Mode



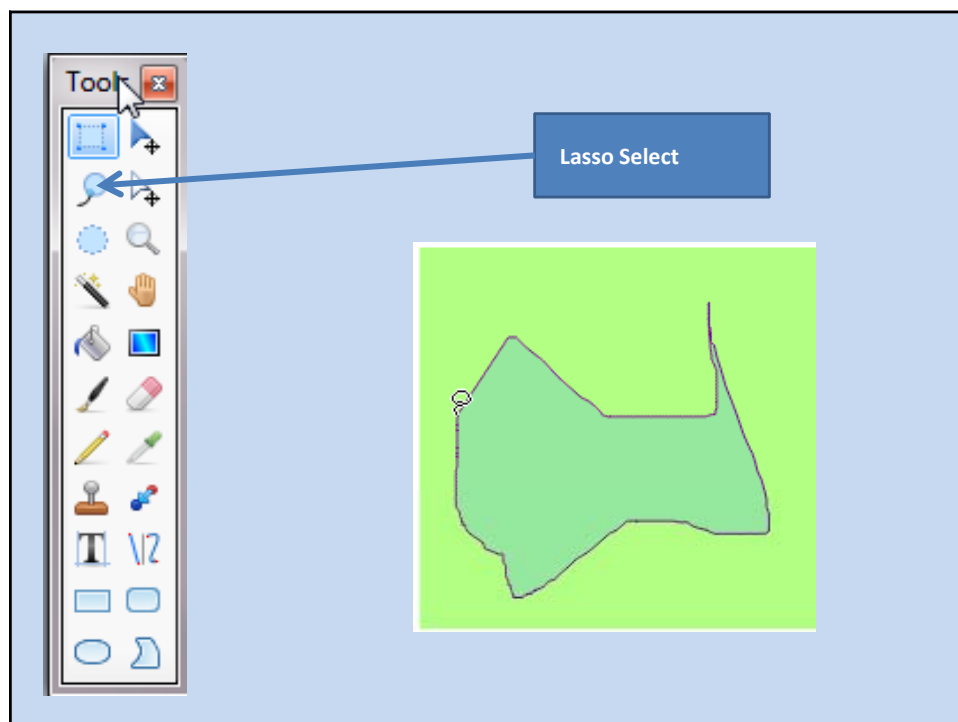
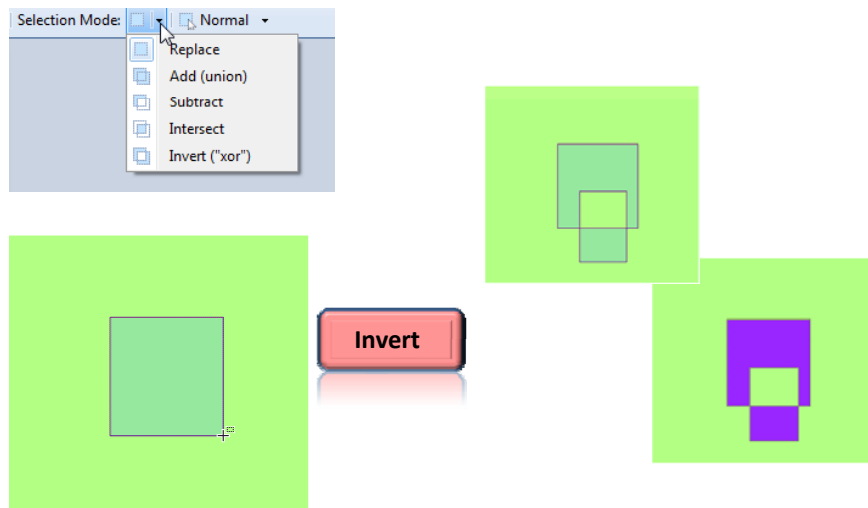
Selection Mode

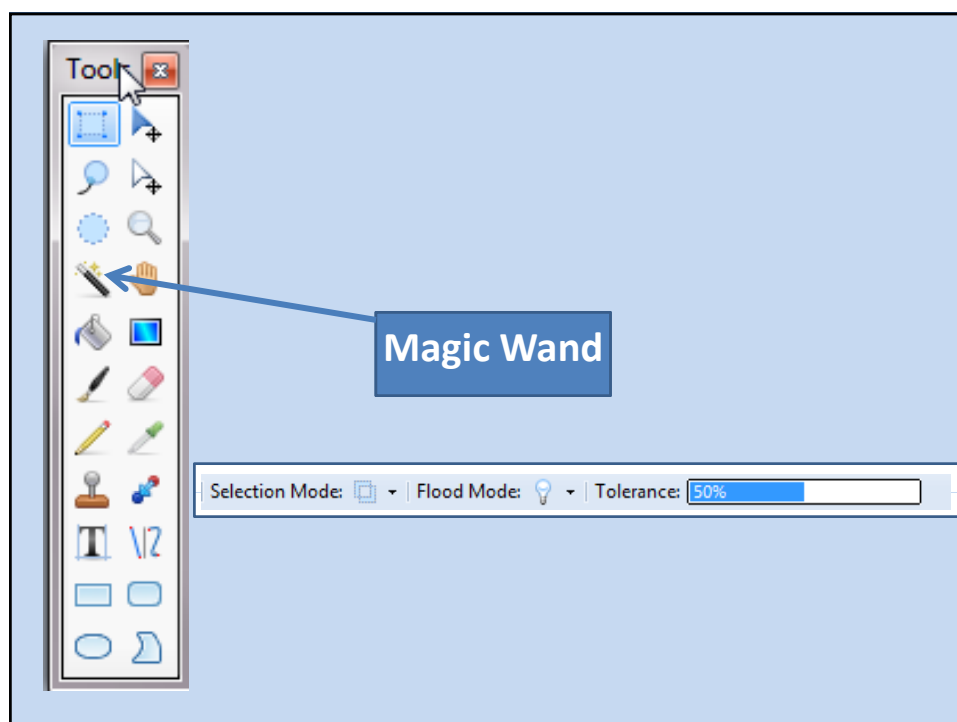
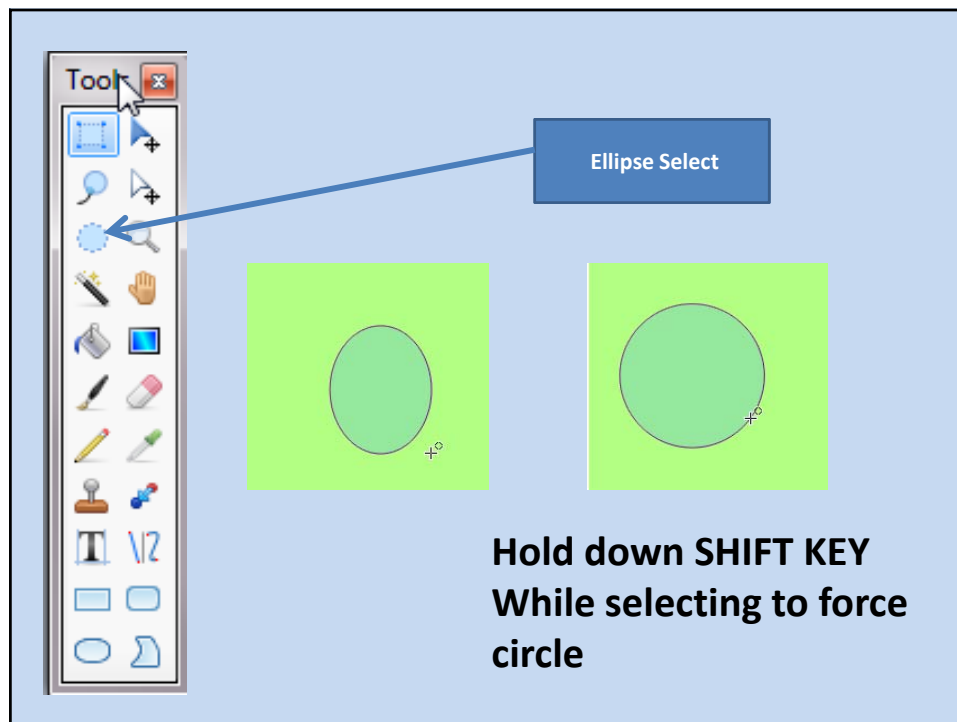


Selection Mode



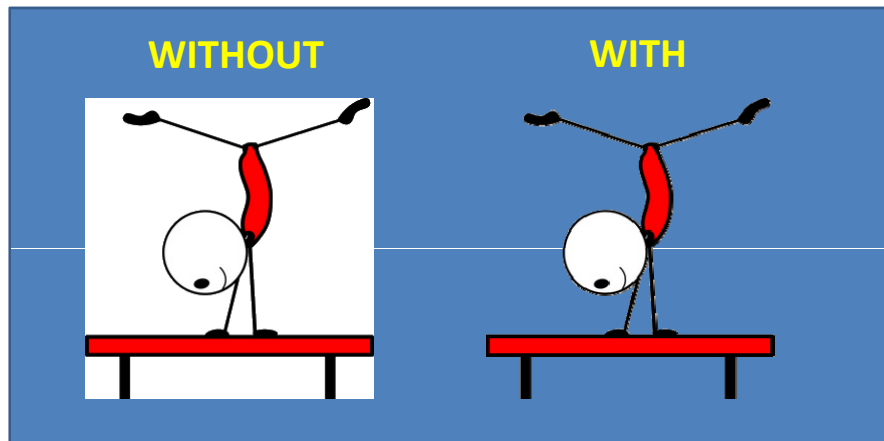
Selection Mode



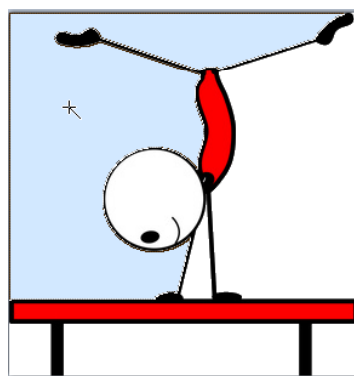


Using – Magic Wand

Example of why you might use it.



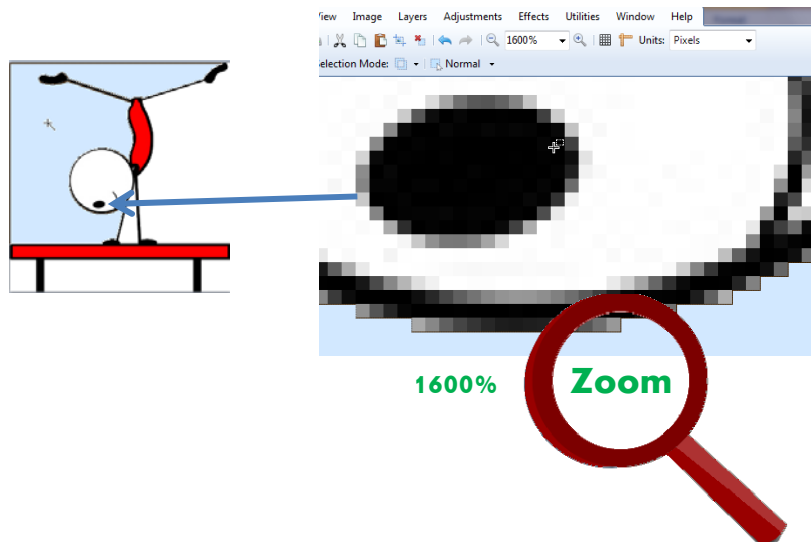
Using – Magic Wand



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

Selection Mode:  | Flood Mode:  | Tolerance: 50%

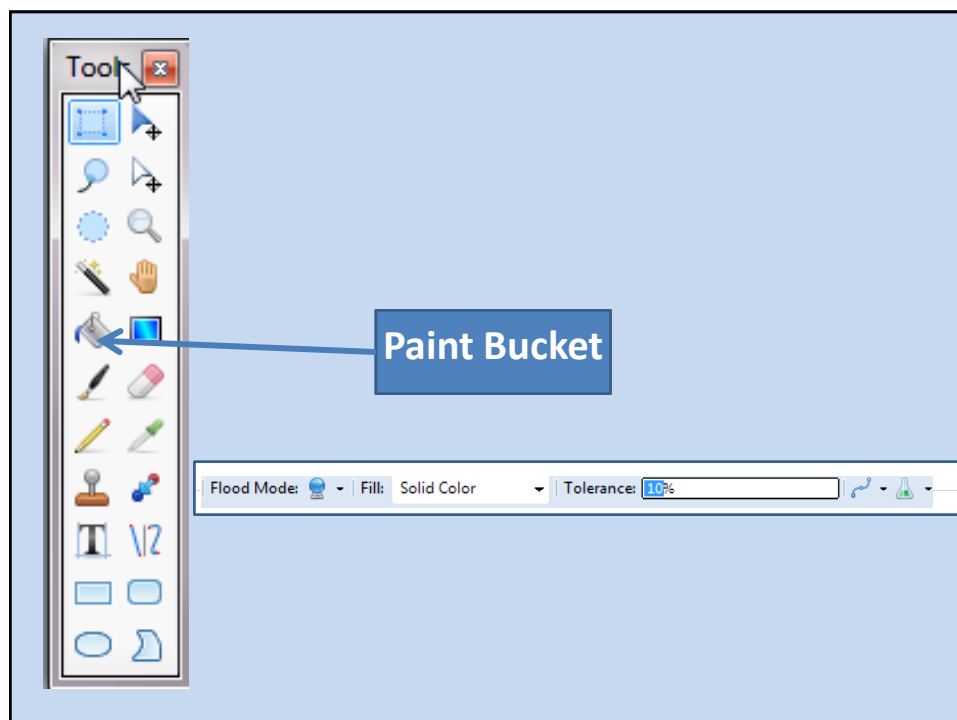
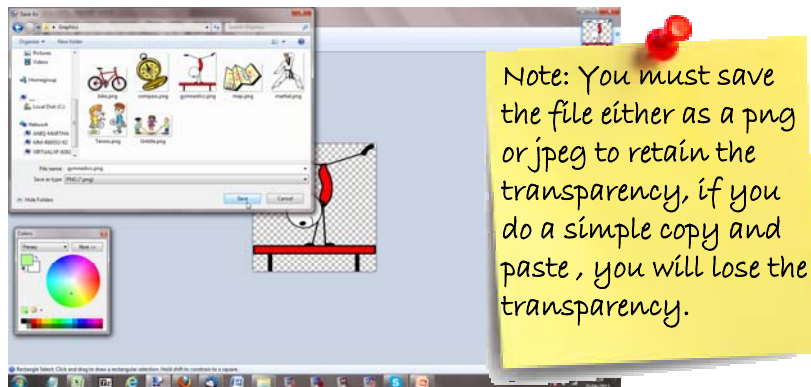
Using – Magic Wand



Using – Magic Wand



Using – Magic Wand



Using – Paint Bucket

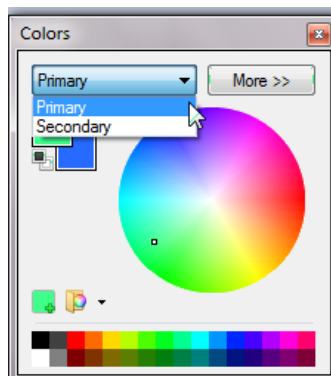
This tool may be used to fill an area with a specific colour



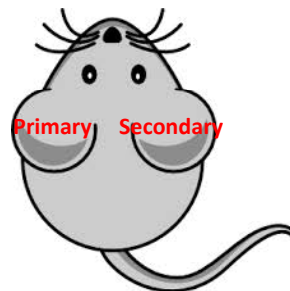
The region that gets filled is defined as the area surrounding where you clicked that has a uniform colour.

Using – Paint Bucket

Primary and Secondary Colours



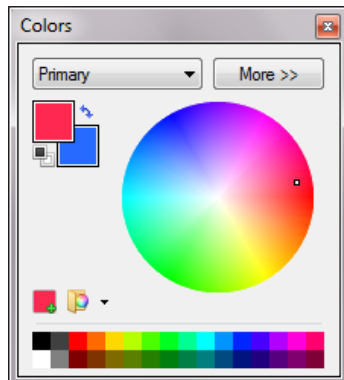
Primary, left-hand mouse button
Secondary, right-hand mouse button



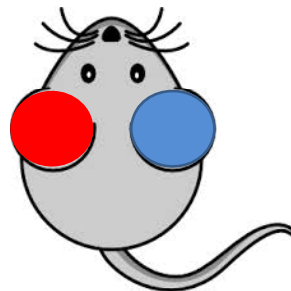
Using – Paint Bucket

Primary Colour is set to **RED**

Secondary Colour is set to **BLUE**

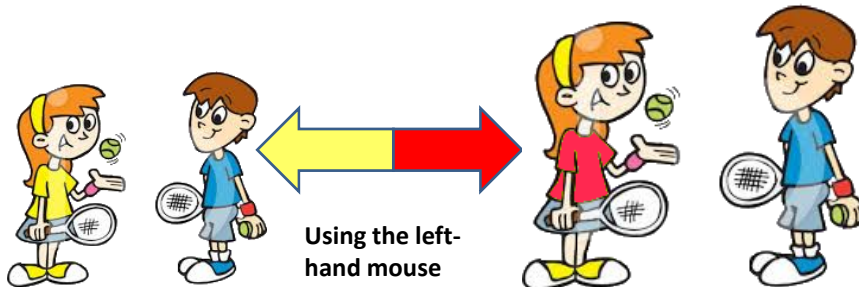
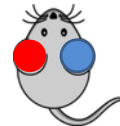


Primary, left-hand mouse button
Secondary, right-hand mouse button



Using – Paint Bucket

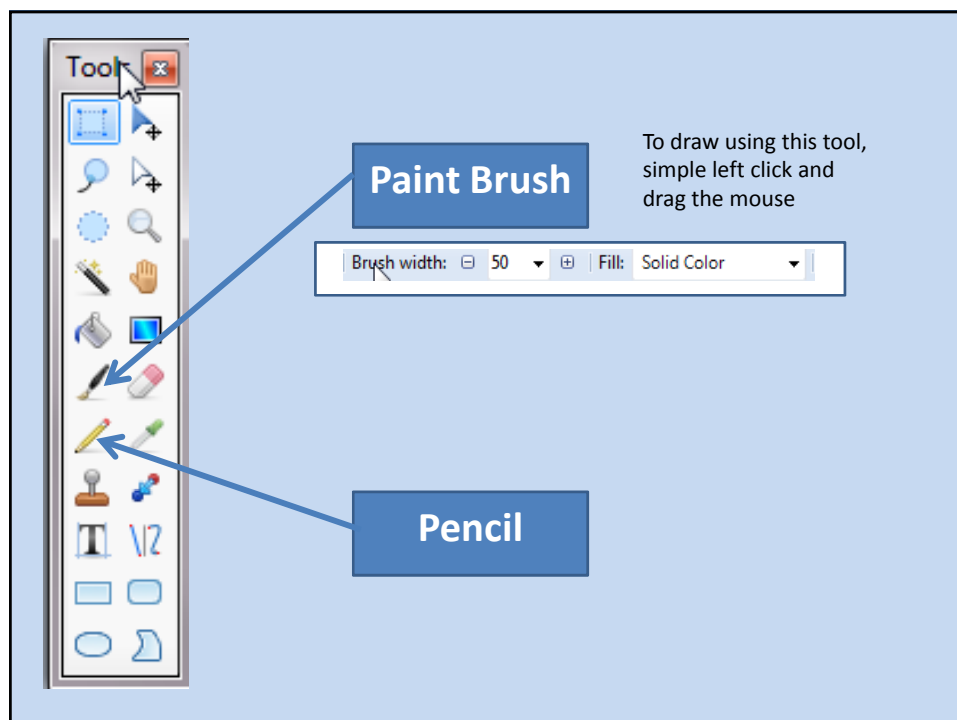
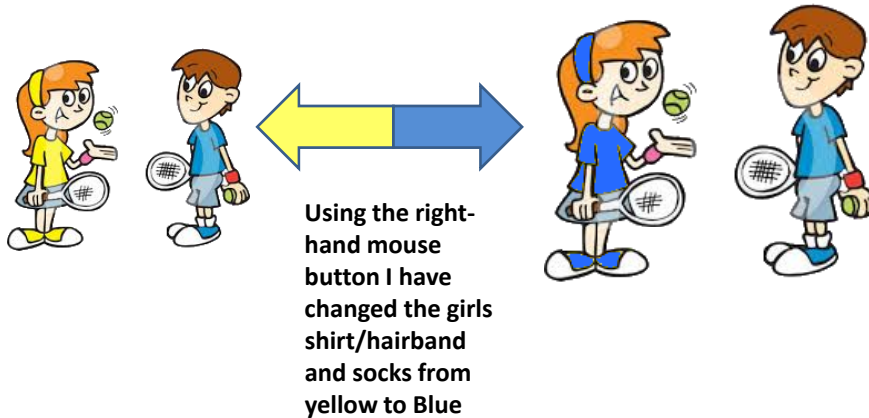
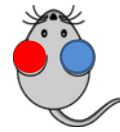
Example of where you might use it.




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.






The screenshot shows a vertical toolbar with various icons. The Eraser tool, which looks like a white eraser, is highlighted with a blue arrow pointing to it from the 'Eraser' label box.

Eraser

This tool is useful for erasing parts of the image.

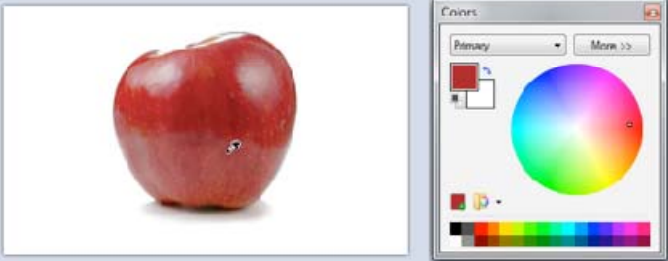
Note, however, that it works by marking areas of a layer as being transparent



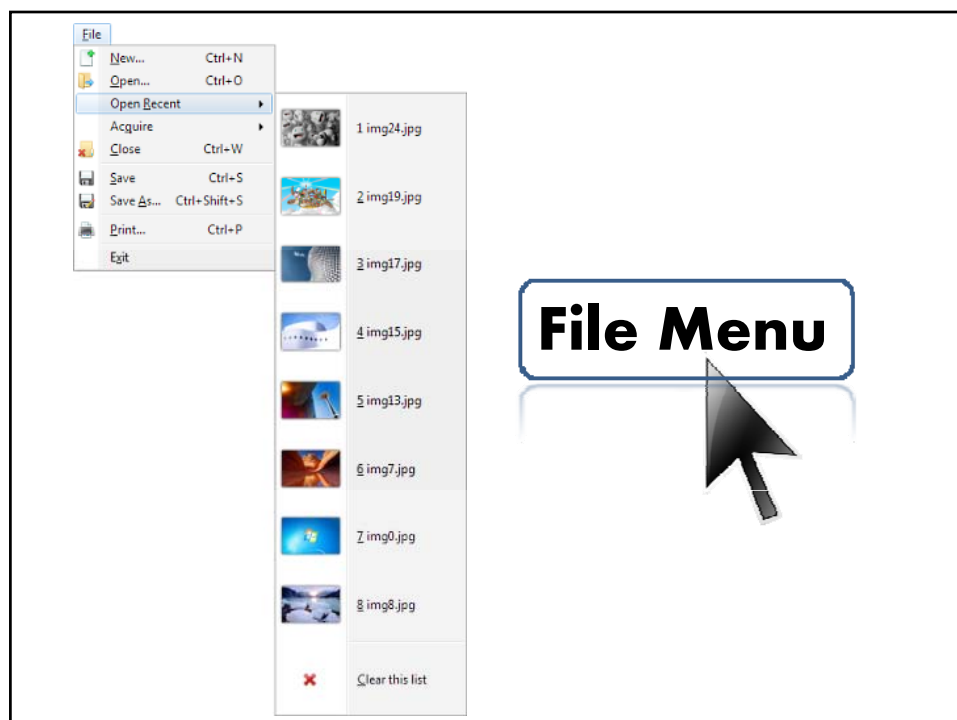
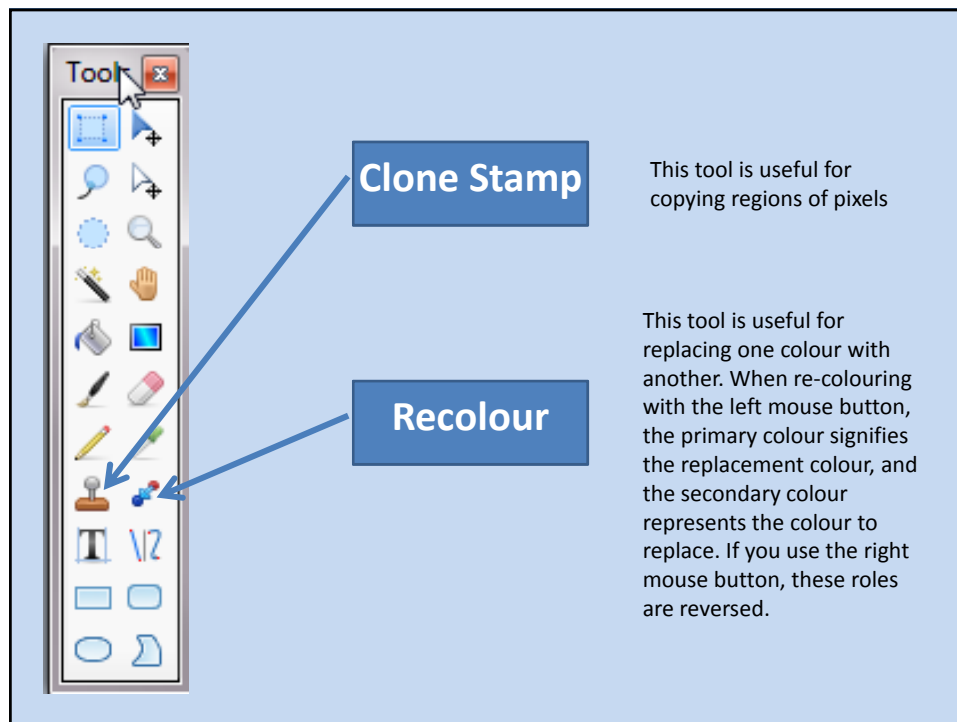
The screenshot shows the same vertical toolbar as above. The Picker/Dropper tool, which looks like a small dropper, is highlighted with a blue arrow pointing to it from the 'Picker /Dropper' label box.

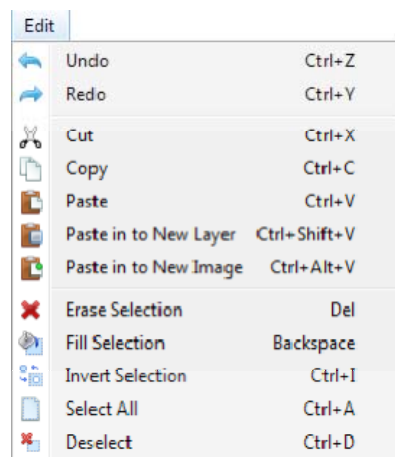
Picker /Dropper

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.

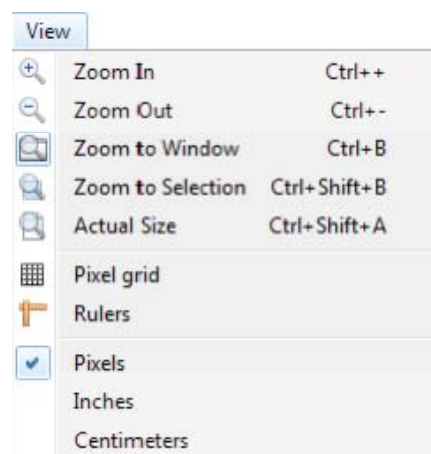


The image shows a red apple on the left and a 'Colors' dialog box on the right. The dialog box has a 'Primary' dropdown menu, a 'More >>' button, and a color wheel with a red dot selected. Below the wheel is a color bar with various color swatches.

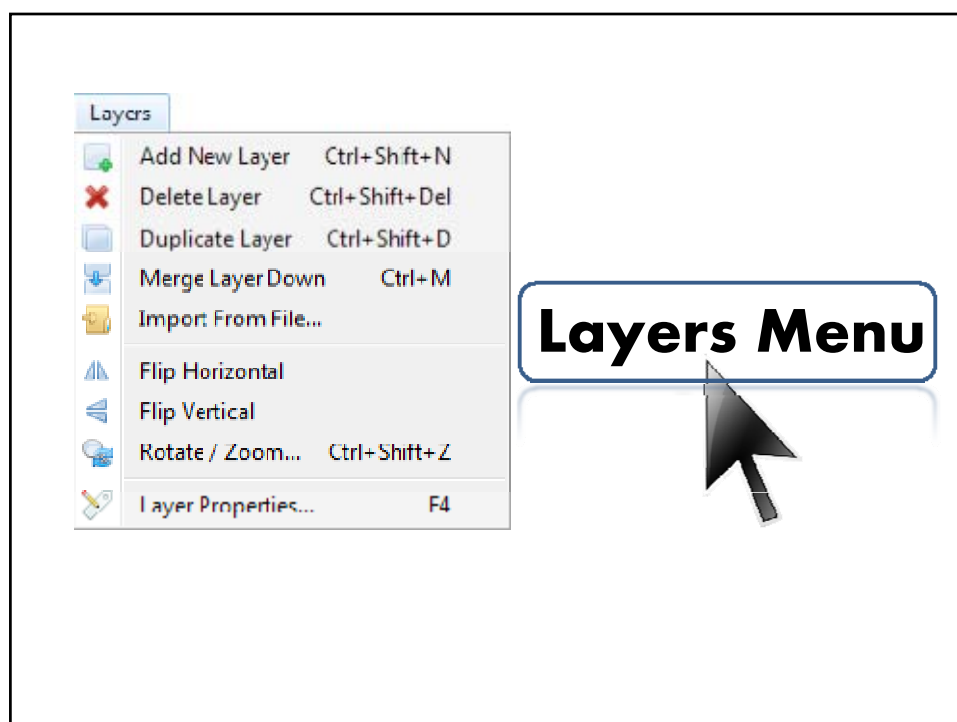
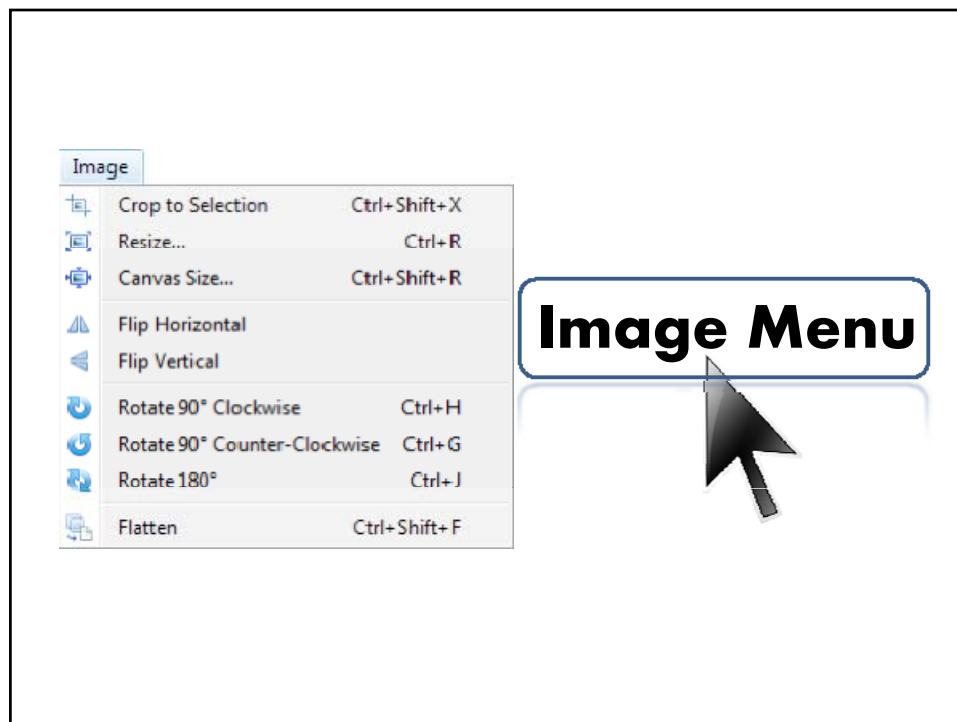


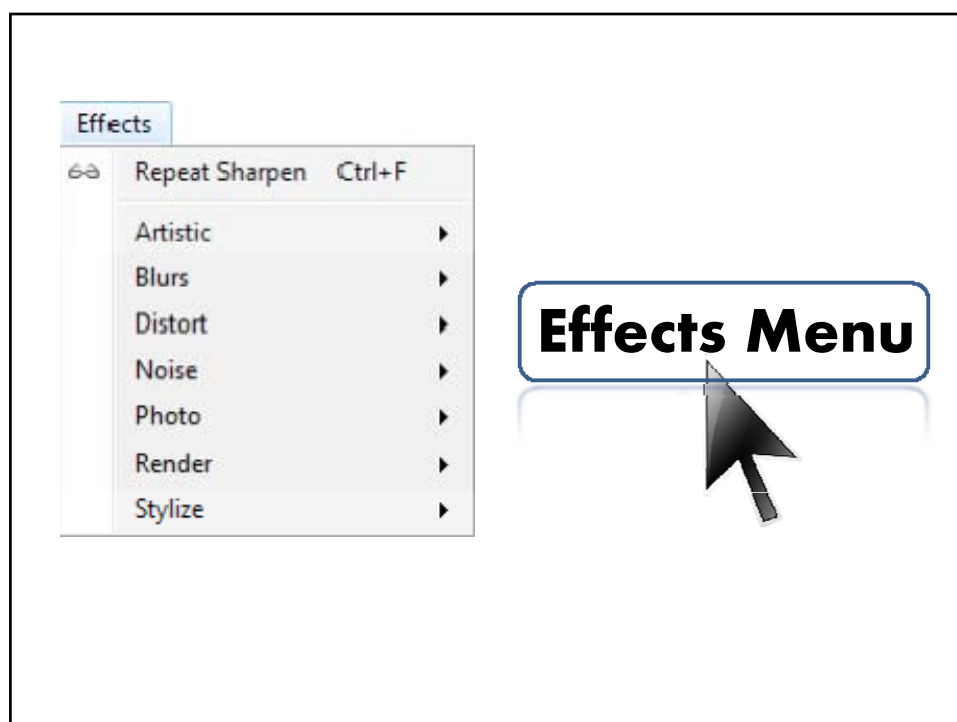
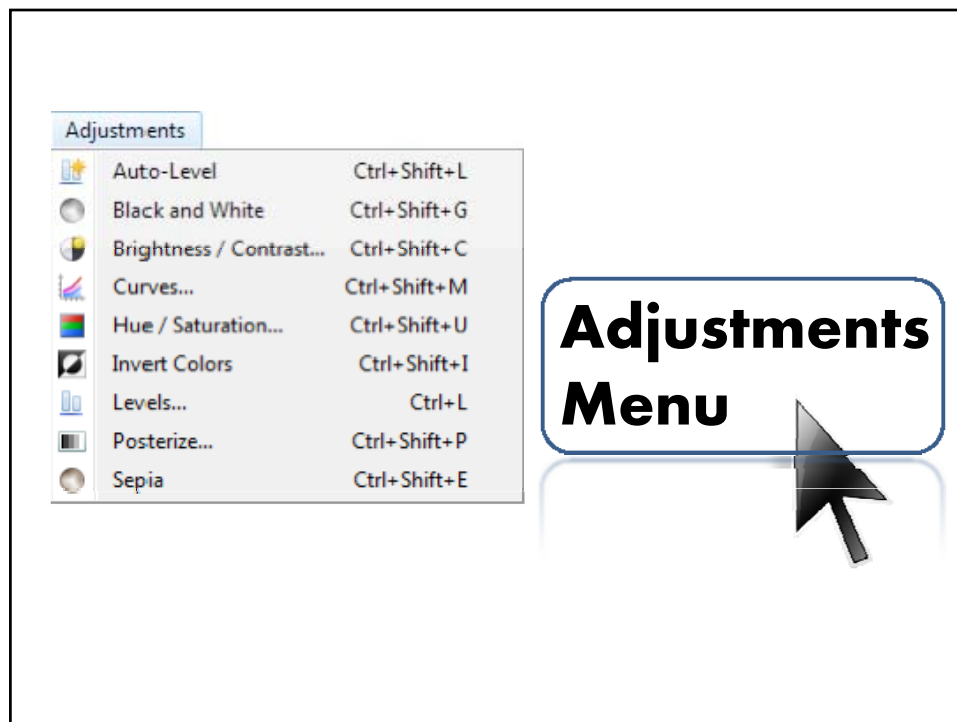


Edit Menu



View Menu







Hope you enjoyed

Now try it out yourselves