

## GIMP Toolbox Functionality

1. **rectangular selection tool**  
select a rectangular region
2. **ellipse selection tool**  
select an elliptical region
3. **free select tool**  
select a hand-drawn region
4. **fuzzy select tool**  
select a region based on color
5. **select by color tool**  
select regions with similar color
6. **scissors select tool**  
select shapes using intelligent edge-fitting lines
7. **foreground select tool**  
select a region containing foreground objects
8. **paths tool**  
create and edit paths
9. **color picker tool**  
set colors from image pixels
10. **zoom tool**  
adjust the zoom level
11. **measure tool**  
measure distance and angles
12. **move tool**  
move layers, selected items and other objects
13. **alignment tool**  
align layers and other objects
14. **crop tool**  
remove edge areas from layers

15. **rotate tool**  
rotate the layer or selection
16. **scale tool**  
scale the layer or selection
17. **shear tool**  
shear the layer or selection
18. **perspective tool**  
change the perspective of the layer or selection
19. **flip tool**  
reverse the selection either vertically or horizontally
20. **text tool**  
create or edit text layers
21. **bucket fill tool**  
fill selected area with a color
22. **blend tool**  
fill selected area with a gradient
23. **pencil tool**  
hard edge painting with a brush
24. **paintbrush tool**  
paint smooth strokes
25. **eraser tool**  
erase to background or transparency
26. **airbrush tool**  
paint using variable pressure
27. **ink tool**  
calligraphy-style painting
28. **clone tool**  
selectively copy from an image
29. **healing tool**  
heal image irregularities

30. **perspective clone tool**  
clone from an image source after applying a perspective transformation
31. **blur / sharpen tool**  
selective blurring or sharpening of an image using a brush
32. **smudge tool**  
selectively smudge an image
33. **dodge / burn tool**  
selectively darken or lighten an image using a brush
34. **foreground / background tool**  
the small arrows swap colors  
the black & white squares reset  
click to open the color selection box.
35. **tool options**  
all available options to edit the functionality of the selected tool open here.


### Shortcut Keys

=	Zoom in image	-	Zoom out image
D	Default colors	X	Swap Colors
O	Color picker	T	Text tool
R	Rectangle tool	C	Clone tool
F	Freehand tool	I	Ink tool
Z	MagicWand (Fuzzy) tool	A	Airbrush tool
M	Move tool	L	Blending tool
<b>Shift+M</b>	Magnify tool	<b>Shift+C</b>	Crop & Resize tool
<b>Shift+T</b>	Transform tool	<b>Shift+F</b>	Flip tool
<b>Shift+B</b>	Bucket Fill tool	<b>Shift+P</b>	Pencil tool
<b>Shift+E</b>	Eraser tool	<b>Shift+D</b>	Dodge/Burn tool
<b>Shift+S</b>	Smudge tool		
<b>Ctrl+S</b>	Save current image		
<b>Ctrl+Z</b>	Undo last change		
<b>Ctrl+C</b>	Copy current selection		
<b>Ctrl+V</b>	Paste current selection		



## Photo Editing Tools

### Crop (Ctrl + C)

The crop tool  is used to focus in on a selected area of a photo, and removes all excess imagery that you no longer wish to use, making the image focus purely on what you select. Further crop tool options appear at the bottom of the toolbox. Click and drag the tool over the image, holding *Shift* to lock in the image's current size ratio. The squares in each corner and bars that appear as you hover over the edges allow for resizing of the cropping window. Double click within the image for the crop to take effect.



### Clone Tool (C)

The clone tool is used to apply an image from one location onto another and functions similarly to a paint brush. Hold the *Ctrl* key and select a point on the image. Notice the change in the cursor. When complete then left click a distance away from your first click. You've just created a dynamic reference location. When you paint it will pull the image from where you *Ctrl* clicked and place it where you paint with the clone tool. Repeat the *Ctrl* click to create a new reference point. You can use the clone tool to remove unwanted items from your photos, such as blemishes, camera noise, dust, etc.

## Color Tools

All color tools affect the image as a whole and change the color balance of the image. All of these tools are found under "Colors" on the menu bar.

### Brightness-Contrast [1]

This tool changes the overall brightness and contrast levels of the image using slider bars. Dragging left decreases the effects and dragging right increases them.

### Color Balance [2]

Color balance affects either the shadows, midtones, or highlights of an image. Each range can have its colors fade from more of a RGB adjustment or fall more towards the Cyan Magenta Yellow spectrum.

### Levels [3]

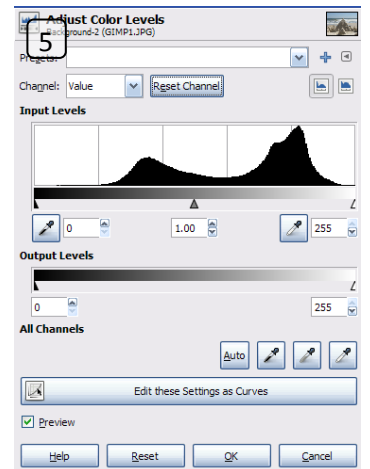
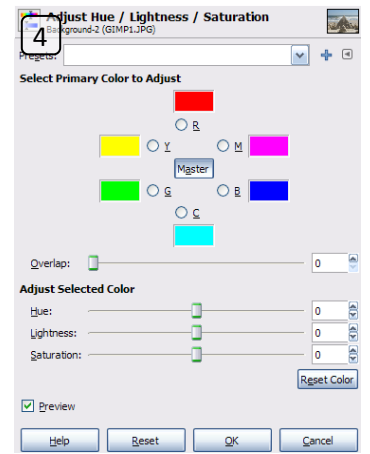
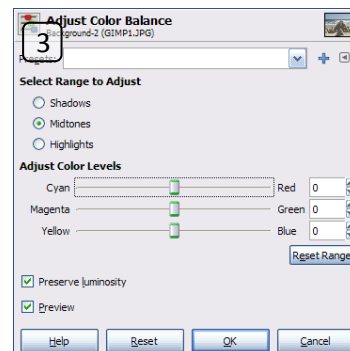
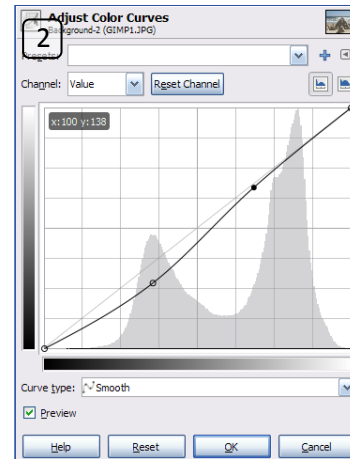
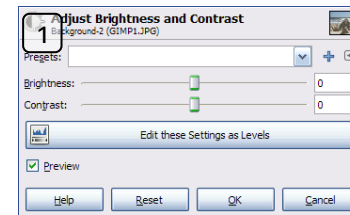
The levels tool is similar to brightness and contrast but all pulled into one. It has a histogram to represent the colors of the image and you can drag pointers referencing the black, midtones, and whites in the image. You usually drag the black and whites closer to the histogram rather than trailing on the ends.

### Hue-Saturation [4]

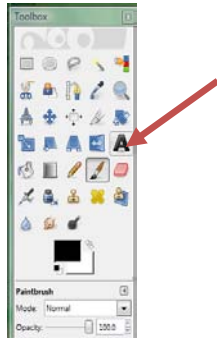
Hue and Saturation tool allows the user to affect the color spectrum as a whole. With the sliders they can adjust the hue, which changes the colors throughout the entire pallet. You can also select specific color ranges to change its hue. The same is true for saturation. Instead saturation forces the colors to either towards the grayscale or to the purer RGB ends of the spectrum.

### Curves [5]

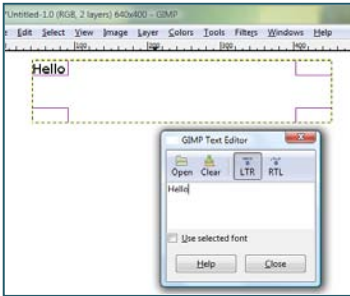
The curves tool allows you to affect both tone and contrast. It is intimidating because it is a complex tool that can over extend its effects and make the image appear posterized, so it needs to be used in moderation. You either plot one or two points then adjust the line into a curve for average to decent results.



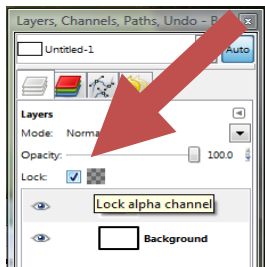
1 Click on the Text Tool from the Toolbox.



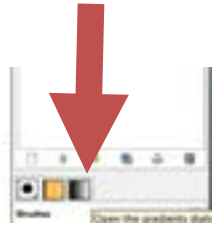
2 Click the stage, draw a rectangle, and then type your text into the GIMP Text Editor. Then Close the editor.



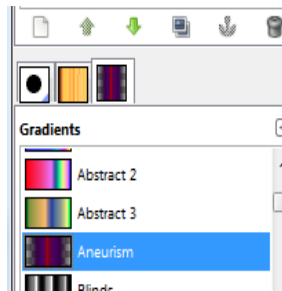
3 Check the Lock box next to the Alpha box located in the Layers menu.



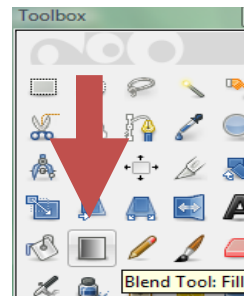
4 Click on the Gradients button on the Layers menu.



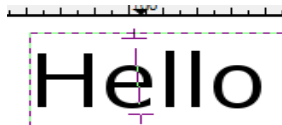
5 Choose a gradient from the options that appear on the Gradients list.



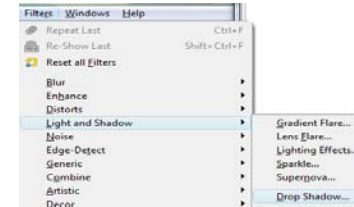
6 Click on the Bend tool from the Toolbox menu.



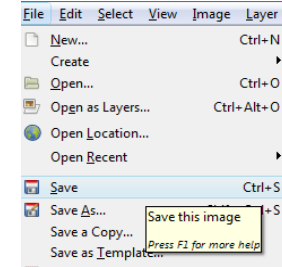
7 Draw a vertical line with the Bend tool over your text on the stage. Your text now has color.



8 Other effects can be created through the Filters menu. To add depth, select Filters > Light and Shadow > Drop Shadow



9 To use this image outside of GIMP, go to File > Save



10 In the Save dialog box, open the Select File Type list by clicking the +. Select an image format, click Save. Then click the Export button on the Export File dialog box that opens. Finally, click the Save button Save as GIF dialog box.

