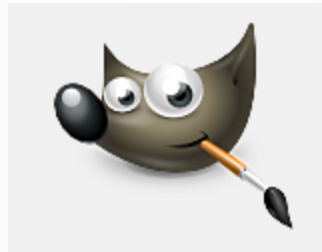


# Sun City Summerlin Computer Club Seminar

## Image Editing With **GIMP**



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**12-28-2023**

# *Where to Find the Materials*

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- **Sun City Summer Computer Club Website:**
  - <http://www.scscclclub/smnr>
- **Direct Hyperlink**
  - <http://www.scscclclub/smnr/ImageEditingWithGIMP.pdf>

# *Seminar Agenda*

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- **Introduction**
- **Getting and Installing GIMP**
- **The GIMP Main Window**
- **The GIMP Tool Palette**
- **Basic Image Editing Actions**
- **The GIMP Color Window**
- **The GIMP Menu Bar**
- **Using GIMP Layers**
- **Using GIMP Special Tools**
- **Four Image Projects**
- **Saving in Various Formats**
- **Printing**

# Introduction

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- **GIMP = GNU Image Manipulation Program**
- **GIMP is a FREE “open source” image editor.**
  - **Versions for Windows, MacOS, Linux, Unix, Android**
- **Has many nice features.**
- **Can be as simple as MS Paint or almost as complex as Photoshop.**
- **This seminar will focus on most useful features for “mere mortals”.**
- **Ask questions as we go.**
- **We’ll work on several interesting photo projects.**



# Getting and Installing GIMP

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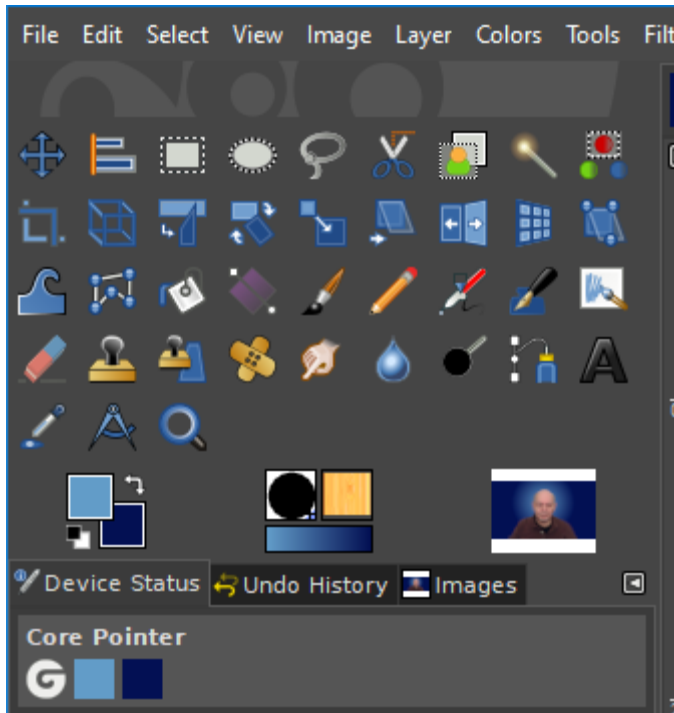
- **Make a new data folder named: GIMP.**
- **Go to the GIMP Website's Download page:**
  - <http://www.gimp.org/downloads/>
  - **Choose your OS platform (GNU/Linus, macOS, Windows).**
- **Click the “Download Directly” button.**
  - **In the File > Save dialog that appears, browse to your GIMP folder and click Save.**
- **The file will download as a gimp-<xxx>-setup.exe file in your GIMP folder.**
- **In your file explorer, navigate to the GIMP folder.**
- **Finally, double-click the gimp-<xxx>-setup.exe file to run the setup.**
- **Online documentation (You will need it!)**
  - <https://docs.gimp.org/en/>
  - **Transparency:** <https://www.youtube.com/watch?v=AC5vdKuwTp0>
  - **Intro:** <https://www.youtube.com/watch?v=LX-S1CX1HUI>

# *The GIMP Main Window*



Image Editing With GIMP

# *GIMP Tool Palette Pane*



- In GIMP 2.10.36, the tools can be grouped into related sets. You can configure these groupings via **Edit > Preferences > Toolbox**
- You can also choose the Icon theme via **Edit > Preferences > Icon Theme**
- Hover over each tool to get a tool-tip name
- The various tools let you select or act on areas of the image or current layer.
- The tools that paint or edit pixels interact closely with the color window.
- You can access all tools via the Tools menu.
- Many tools have keyboard shortcuts.
- Now we'll run through a demo of the most commonly used tools ...

# *Example Project 1 – Outdoor Retouch (1)*

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- **Outdoor wedding photo on a golf course**
- **Much visual clutter in background**
- **Subject not emphasized**
- **Sky was light grey**





# *Example Project 1 – Outdoor Retouch (2)*

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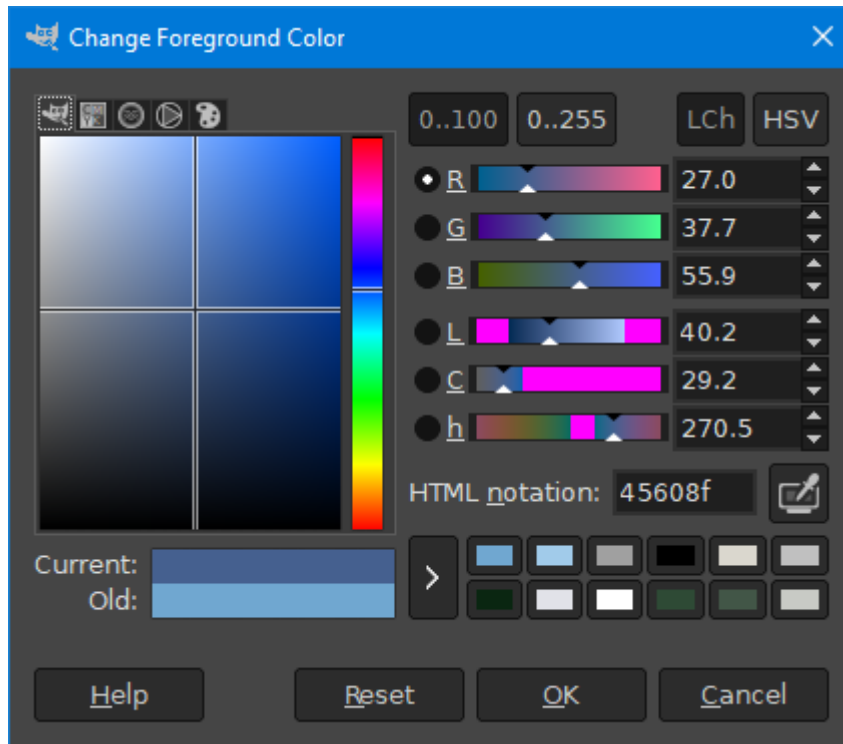
- **Rotate or straighten as needed.**
- **Crop the photo**
  - Use the crop tool to select, then press Enter to crop image.
- **Eliminate “undesired” elements**
  - Use the paint brush, pencil and clone stamp tool to get rid of people, poles, power lines, cars, etc. Created background trees.
- **Adjust brightness, contrast and light / dark levels, hue / saturation**
  - Use Colors menu as needed.
- **Use the Filters menu to fix red-eye, if needed.**
- **Rescale the photo (as appropriate).**
- **Export the final result to a .png image file and print or publish.**

# *Saving / Exporting in Various Image Formats*

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- **Click the File menu.**
  - A list of action choices will appear in the menu.
- **Click “Export As”.**
  - This will open a classic “Save As” dialog.
  - You can choose the file name, folder and file type.
  - “Flattened” file types include: .BMP, .PNG, .GIF, .JPG, .TIFF and .TGA
- **When you have the Export settings defined, click the “Export” button.**
  - GIMP will display a second dialog that is dependent on the file type, asking for more specifics. Choose the desired settings and then click OK.
- **Saving the Project**
  - You can also Save the file as a .XCF (GIMP project) file, which retains all the separate layers and actions. Use this if you are saving in the middle of working on a complex image project.

# GIMP Color Pane



- Reworked in V 2.10.36
- You can set a primary and a secondary color.
- You can work in RGB, LCH or HSV.
- You will often set the color by using the eyedropper tool.
- You can enter HTML (web) color names.
- You can save a palette of frequently used colors
- Let's demo the color window.

# *Exploring the GIMP Menu Bar*

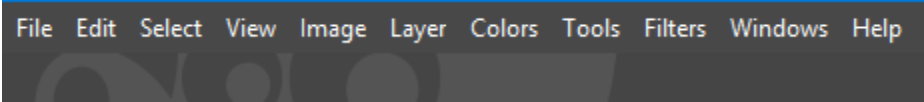
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File Edit Select View Image Layer Colors Tools Filters Windows Help

- The photo editing capability of GIMP is in the menu bar.
  - **Very plain, Windows 95-style – no toolbar.**
- The Image menu provides cropping, resizing and rotation.
- The Colors menu provides brightness/contrast, hue / saturation, black / white, levels and other adjustments.
- The Filters menu provides a rich array of special effects, plus some common actions like red-eye removal.
- Let's explore some of the menu bar actions.

# *Using GIMP Special Tools*

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File Edit Select View Image Layer Colors Tools Filters Windows Help

- **All GIMP tools can be reached from the Tools menu**
  - **Scale Tool**
  - **Shear Tool**
  - **Perspective Tool**
  - **Ink – Calligraphy Tool**
  - **Healing Brush**
  - **Clone Tool**

## *Example Project 2 – Restore an Old Photo (1)*

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- Original photo was faded, had some cracks, spots and loss of detail. Also was small. Paper matting was in bad shape.



## *Example Project 2 – Restore an Old Photo (2)*

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- **Rotate or Straighten as needed.**
- **Crop as needed using crop tool.**
  - **May need to fill in corners after rotation.**
- **Also adjust the overall contrast of the image.**
  - **Try the desaturate (black & white) adjustment.**
  - **Adjust contrast & brightness.**
  - **Experiment with the Levels tool.**
- **Then repair blemishes (spots, cracks)**
  - **Caution – easy to overdo it.**
  - **Use the clone tool or healing brush tool.**
  - **Use the pencil & paintbrush for very fine detail.**
- **May be possible to resize larger if small.**
  - **Works OK up to about a 30% enlargement.**

## ***Example Project 3 – Straightening a Photo (1)***

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- **Working with a photo of an oil painting.**
- **Suffers from perspective distortion and skew.**
- **Also, slightly over-exposed (was taken with flash).**





## *Example Project 3 – Straightening a Photo (2)*

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- **Rotate as needed to get the top edge horizontal.**
- **Correct Skew distortion using Perspective Crop tool.**
  - Drag each corner to stretch or compress, then press Enter to crop.
- **Crop again if needed using the Crop tool.**
- **Adjust the overall contrast of the image.**
  - Adjust contrast & brightness.
  - Experiment with the Levels tool.
- **Repair any blemishes (spots, cracks).**
  - Caution – easy to overdo it.
  - Use the clone tool or healing brush tool.
  - Use the pencil & paintbrush.
- **Add a border ... Filters > Décor > Add Border.**
- **Export to a .png image file.**

# ***GIMP Layers***

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- **A GIMP “image” is comprised of one or more layers, stacked vertically. The image you see is the composite of viewing through all the layers, top to bottom.**
- **The background layer is usually the base image, sometimes a background pattern or image.**
- **Each layer applies its modifications to the layers below it.**
- **You can reorder the layers to change how they affect the composite image.**
- **You can also merge or flatten layers when you have the desired effects.**
- **Let’s look at some simple layer actions.**

# *Example Project 4 – Portrait Retouch (1)*

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- Original image shot against a cluttered background.
- Spherical distortion present due to wide-angle web-cam lens.
- Reworked to composite with a different background.



# *Example Project 4 – Portrait Retouch (2)*

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- **Take an existing portrait (head shot) and re-do the background color.**
  - Crop the image to roughly the final size and shape.
  - Retouch the subject using the Clone Stamp and Heal tools and the Dodge tool. May also try the Noise Reduction tool.
  - Also adjust the overall contrast, brightness & saturation of the image.
  - Export the image as a .png
  - Remove background using Adobe Express. <http://adobeexpress.com>
  - Open the saved Adobe Express image (has a transparent background).
  - Use the GIMP Eraser tool to clean up any small glitches left from Adobe.
  - Add a new layer and move it to the bottom. Hide the foreground layer.
  - Set foreground and background colors.
  - Select the new background layer.
  - Put a color, gradient or other image on the background layer.
  - Unhide the foreground layer to see the combined effect.
  - Make any final adjustments.
  - Export the finished result to a .png file.

# *Printing GIMP Images*

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- **Click File > Print to get to the Print dialog.**
- **You can select the printer, paper size, quality and copy count.**
- **You can also specify a variety of settings for how the image will be rendered to the printed page.**
- **When you've made your selections, just click the "Print" button.**

# *Final Q and A*

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## **Final Questions and Answers**

**Image Editing With GIMP**