Introduction to GIMP

From the point of view of a Software Developer with just enough artistic skills to draw a stick person.
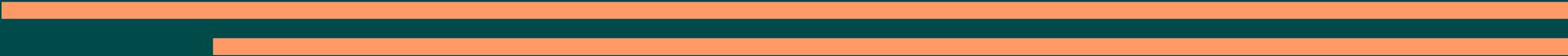
What is GIMP

- **GNU Image Manipulation Program**
- Created in 1995 as a Computer Science Project by Spencer Kimball and Peter Mattis.
- Runs on Linux, most versions of Unix, Mac OS, and Windows
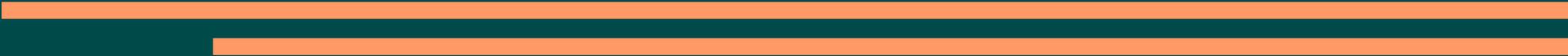
Goal of this Presentation

To demonstrate the basic functionality of GIMP from the point of view of a Unix Software Developer with hopes to motivate the audience to want to learn and use the tool on their own.
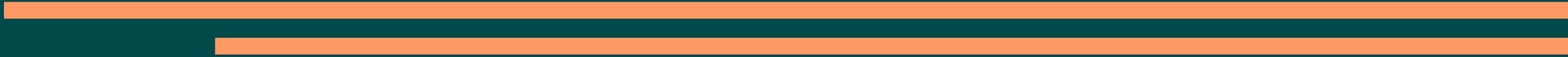
About Scott Nesler

- Live in Chesterfield with my Wife Lisa, 9 year old son Andrew, and 6 year old Ben.   I'm having trouble converting Andrew and Ben to Linux because EA Games (Sims) do not run on Linux.   They do like TuxRacer though

- I am Software Developer who prefers developing on a Unix / Linux platform.   In the past twenty years I have been fortunate to work for firms whose I.T. Platform was one Unix flavor or another or I have been able to introduce one or two Linux boxes to keep my C/C++, Command Line, and LAMP craving fed.

- Sometimes I have to program / integrate in a Microsoft environment to keep food on the table.

- 1987 Computer Science Grad from SIUE.

What we will cover

- Converting Image Types
- Image Resizing and Rotating
- Red Eye Reduction
- Producing Transparent Logos and Icons
- *** * * Using Layers * * ***
- Clipping Objects
- Put together an SLUUG Logo
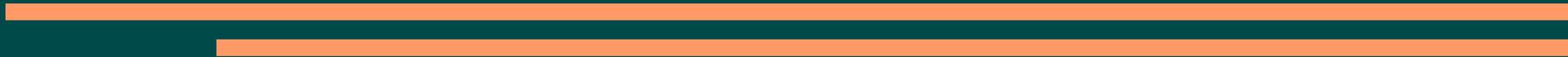
Converting Image Types

- .xcf (Native Format, Saves Layers)
- .fli (Autodesk)
- .dcm and .dicom (DICOM)
- .ps, .ps.gz, and .eps (PostScript)
- .fits, .fit (FITS)
- .ico (Microsoft Icon)
- .avi (Microsoft Video)
- .psp, .tub (Paintshop Pro)
- .pnm, .ppm, .pgm, .pbm (PNM)
- .gif, .jpg, .png, .tif (Most Common Image Formats)
- .xbm, .xwd (X Bitmap)
- .pdf (Adobe)

# Image Resizing
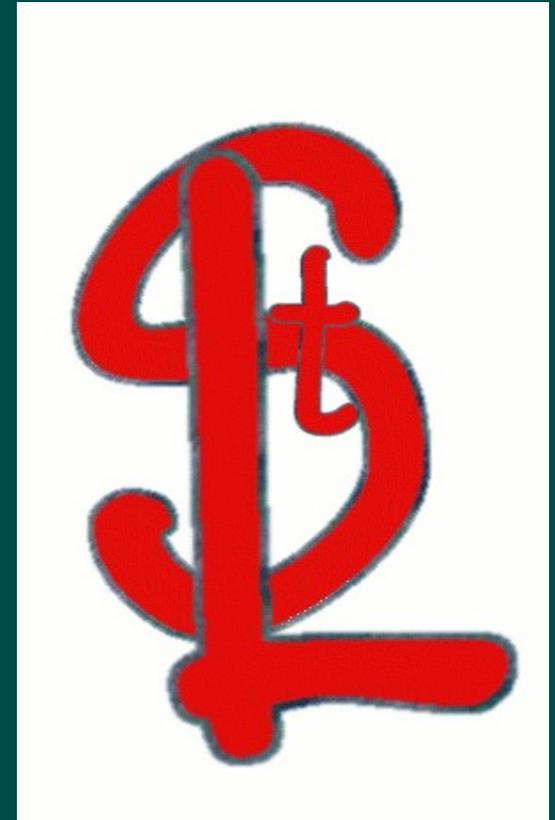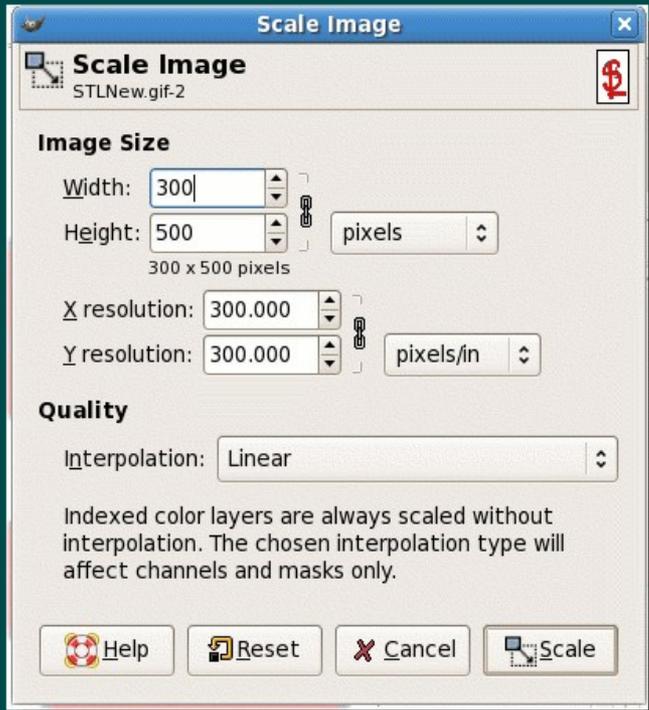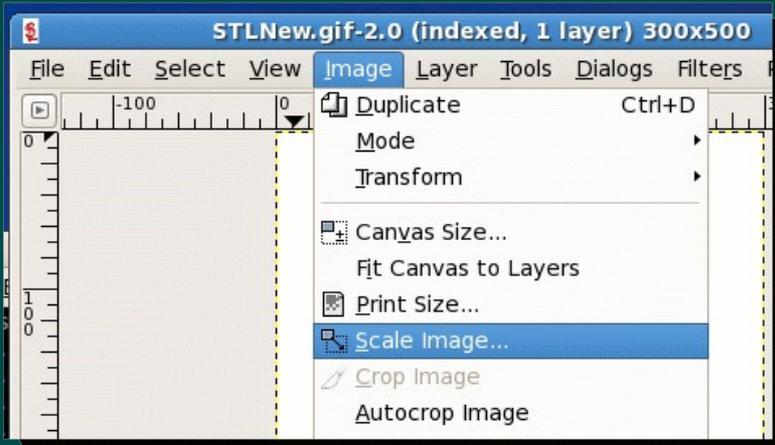
Image Rotating
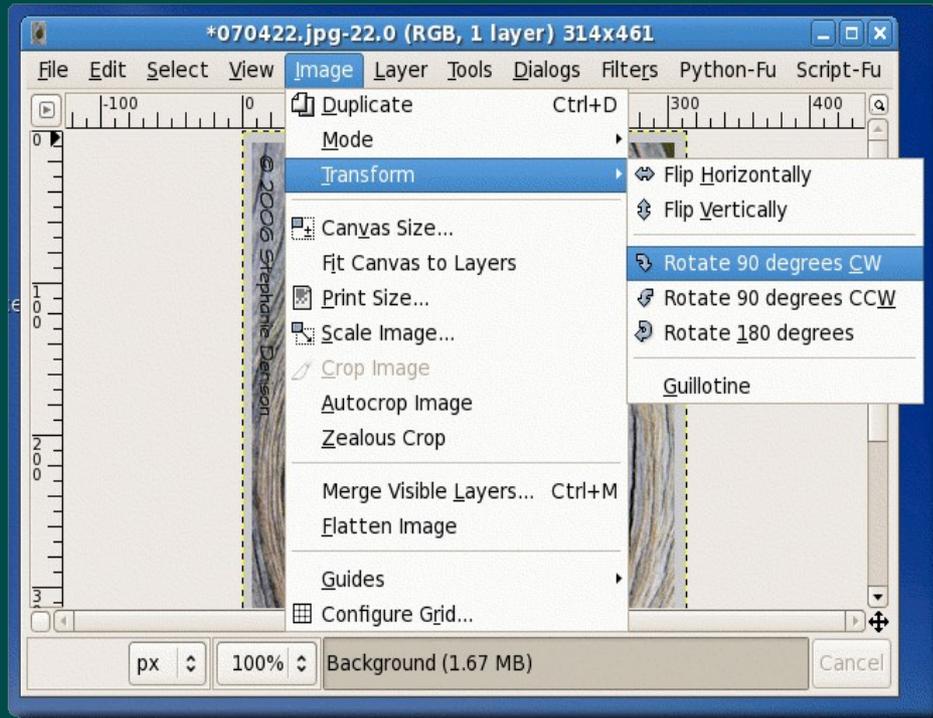
Red Eye Reduction

- Use Circle Select.   Shift left mouse to make a perfect circle.
- Tools – Color Tools – Hue Saturation
- Toggle R
- Slide Saturation

Transparent Backgrounds
Take the Square out of Icons and Logos
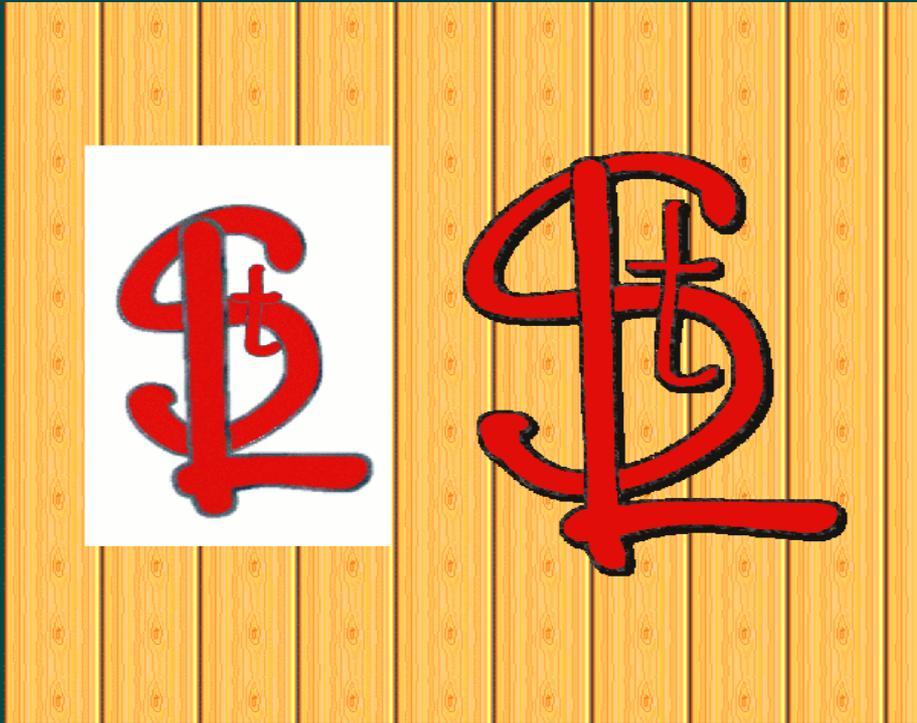
- Layer – Transparency – Add Alpha Channel
- Select Region By Color
- Select White
- Cntrl – K for Clear
- Select red, add select border of letters, feather edge.   Script-Fu – Shadow – Drop Shadow

Layers (Blending Images)
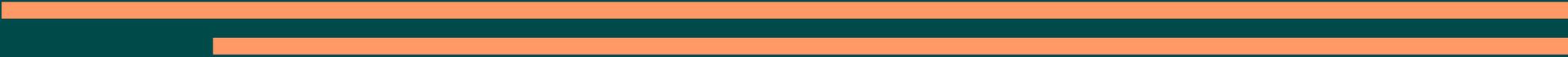
Layers (More Blending - Opacity)
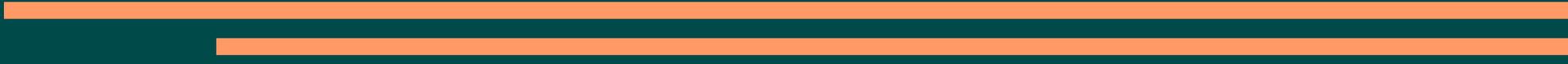
Fun with Words and Letters

NIX

- Text Tool
- DejaVu Sans Bold Not-Rotated, Size 200, White
- Select NIX with Color Selector.   New Color Layer
- Bucket Fill with Red Foreground, Opacity 40
- New Pattern Layer.   Fill with Pattern Marble #1
- With the Pattern Layer Selected and the NIX Selected run

Filters – Edge-Detect - Neon
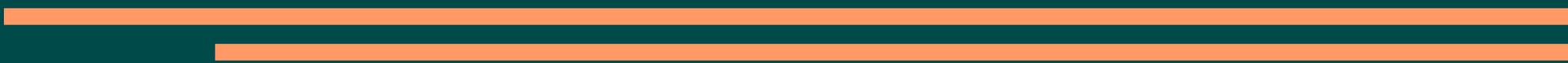
Layers – 3D Paste
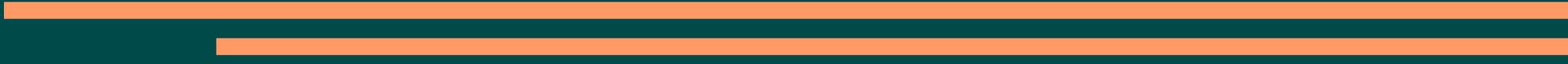
Clipping Objects
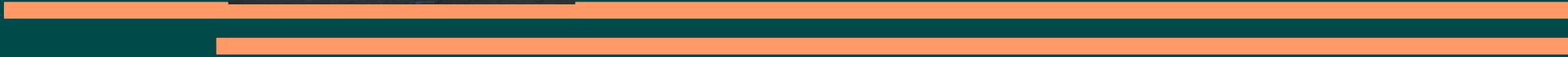
# Logo Project

Splinters of GIMP

GimpShop – Modification of GIMP with the intent to replicate the feel of Adobe Photoshop

CinePaint - descendant of GIMP. Expands on file format compatibility. Proper color management. Targeted audience is movie retouching.

Krita – Koffice paint utility. Aimed at graphic professionals. 32-bit color management system. CMYK and RGB. Python and Ruby engine allows scripting similar to Adobe's Action scripts.
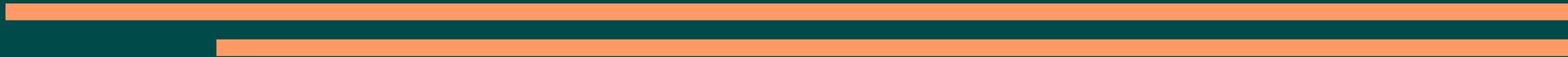
Reference Books
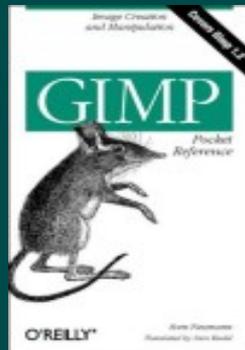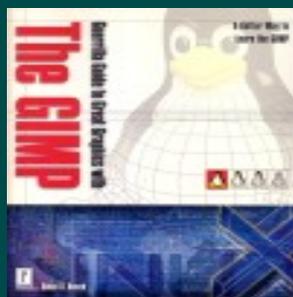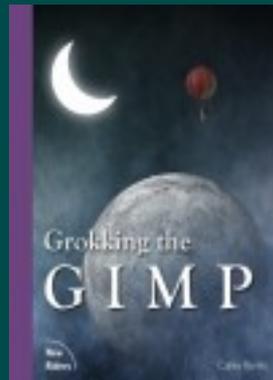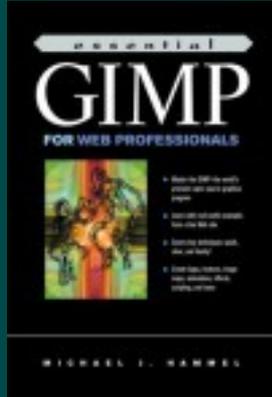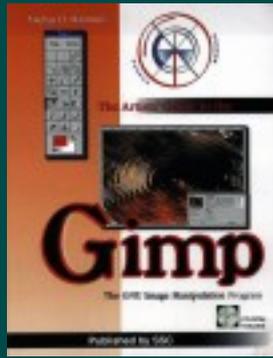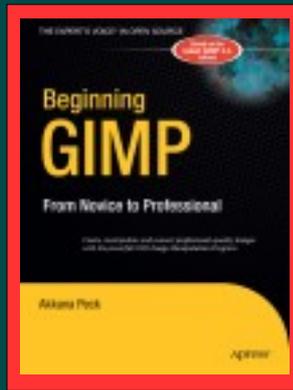
- <u>Beginning GIMP – From Novice to Professional</u> by Akkana Peck, Published in 2006 Apress Publishing
- <u>Essential GIMP for Web Professionals</u> by Michael Hammel, Pearson Education/April 2001
- <u>The Gimp Pocket Reference</u> by Sven Neurmann, O'Reilly 2000
- <u>Grokking the GIMP</u> by Carey Bunks, Pearson Education/February 2000
- <u>Guerilla Guide to Great Graphics with the GIMP</u> by David Busch, Premier Press / January 2000

Web/Other References

- Official Site - www.gimp.org
- Linux Journal, July 2007, Quick Takes, Deep Images
    - *CinePaint, descendant of GIMP.   Expands on file format compatibility.   Proper color management. Targeted audience is movie retouching.*
    - *Krita – Koffice paint utility.   Aimed at graphic professionals.   32-bit color management system. CMYK and RGB.   Python and Ruby engine allows scripting similar to Adobe's Action scripts.*
- Slashdot (Questions – Flame War)
    - *June 5th – Alternatives to Adobe's Creative Suite*
    - *January 27th, Using The GIMP to Improve Photos?*

NOTE:

- I sent a note to Bill Kendrick who performed a demonstration of GIMP to a Sacramento PC Group in 2002.   I asked if he still used GIMP and what his thoughts were on the state of GIMP.
- He mentioned that he only uses GIMP for real work. He is also the author of Tux Paint.   He feels Krista is make great strides in the Open Source Imaging sector.   He will always have a fondness for GIMP.
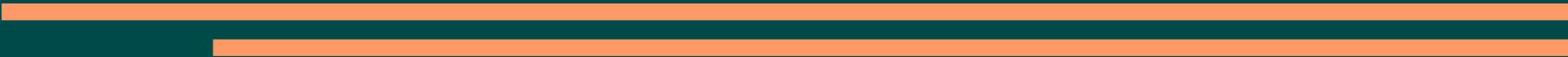
On-Line Tutorials http://gug.sunsite.dk/tutorials
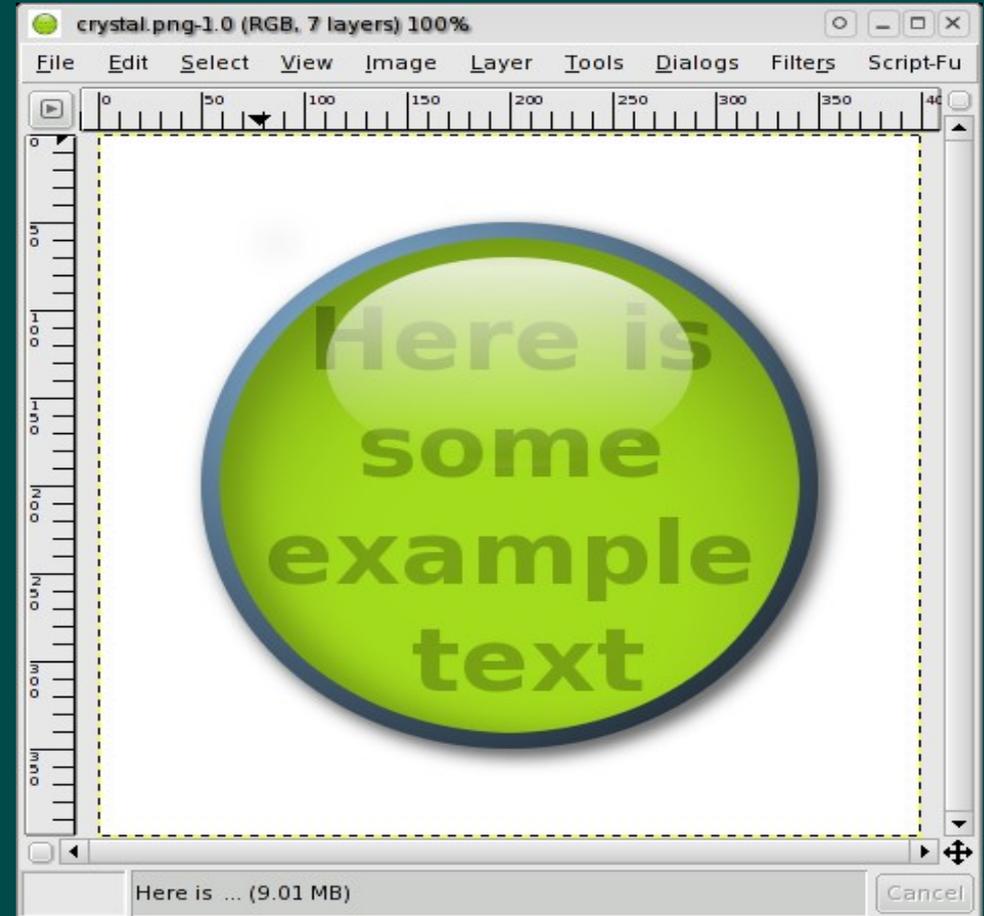
Conclusion

- Gimp is a powerful tool for **free**
- It is mature with loads of documentation and web support.
- Load it, learn it, use it, load it for others, and teach it.