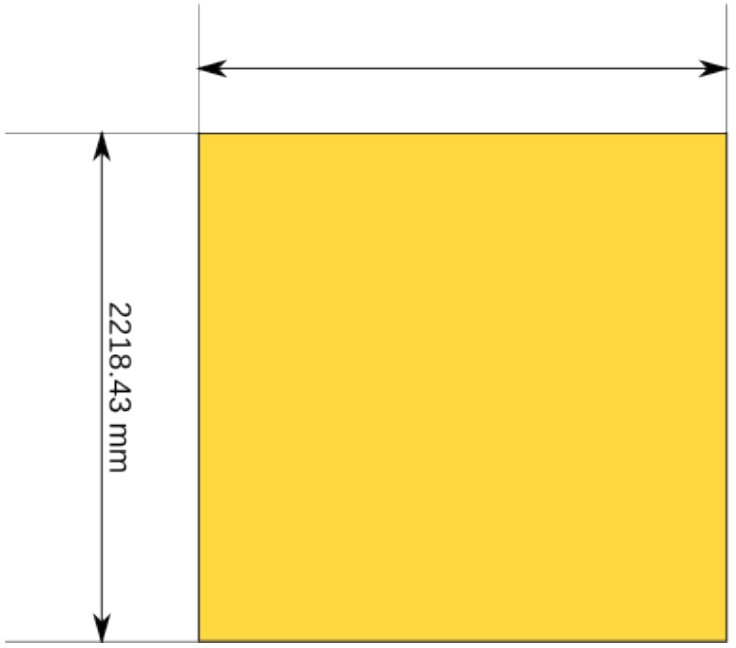
THE JOY OF INKSCAPE

OPEN SOURCE VECTOR GRAPHIC ILLUSTRATION



THE JOY OF INKSCAPE

... in brief

- Inkscape is an Open Source scalable vector graphic (SVG) editor. Donna will showcase Inkscape art and practical applications, demonstrate Vector Drawing techniques, and provide pointers on where to go to learn more.
- Donna Benjamin runs her own business and procrastinates daily by exploring new features and bugs of the bleeding edge version of Inkscape. She has managed to find legitimate uses of the software for creating web graphics, re-recreating corporate logos and creating posters and banners. Creative Contingencies does customised web application development, hosting, research and meeting facilitation.
- Donna is currently writing a book on Inkscape due for publication in late 2009

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Download Resources

http://cc.com.au/inkscape

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this workshop ...

- starts with a brief description of Inkscape
  - what it is
  - what it does
- and finishes off with pointers to help you do it too.

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scalable vector graphics

- **Native** File format is W3C SVG1.1
  - http://www.w3.org/Graphics/SVG/
  - SVG is a language for describing two-dimensional graphics and graphical applications in **XML**.
    SVG 1.1 is a W3C Recommendation and forms the core of the current SVG developments.
- Interoperable with a range of apps, and useful modern web browsers.
  (watch out for blurs, gradients & transparency)

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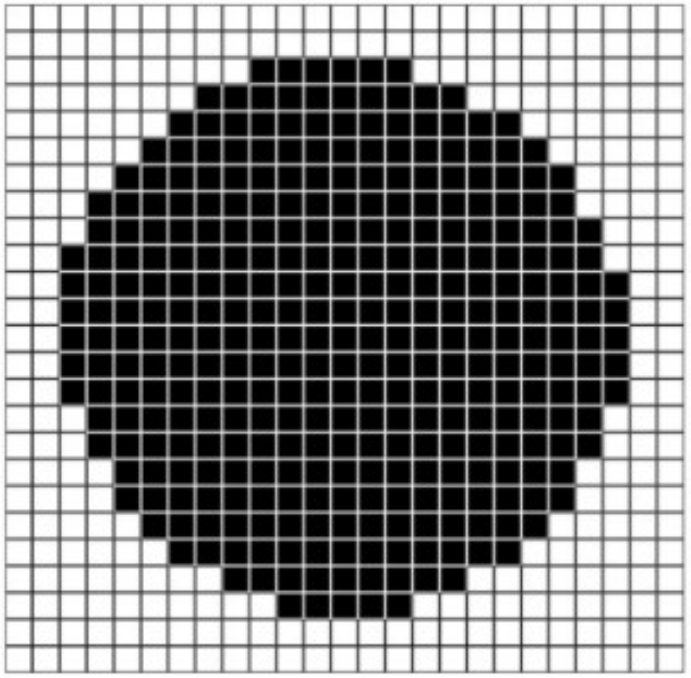
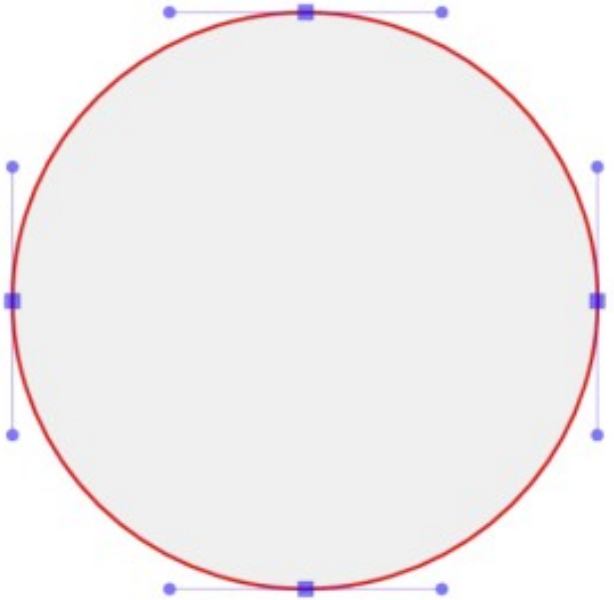
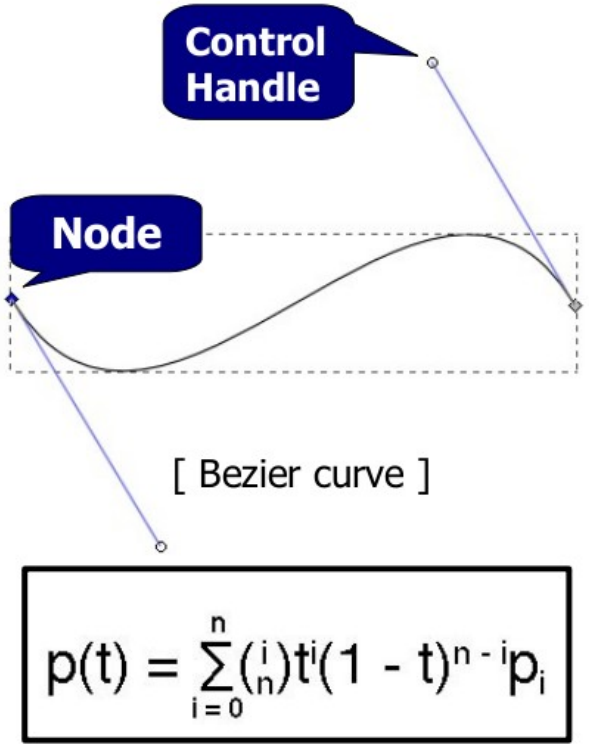
raster and vector



Bitmap / Raster



Vector



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... for art's sake

http://klowner.com/wallpaper/show/emerald_hunter/

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... for art's sake

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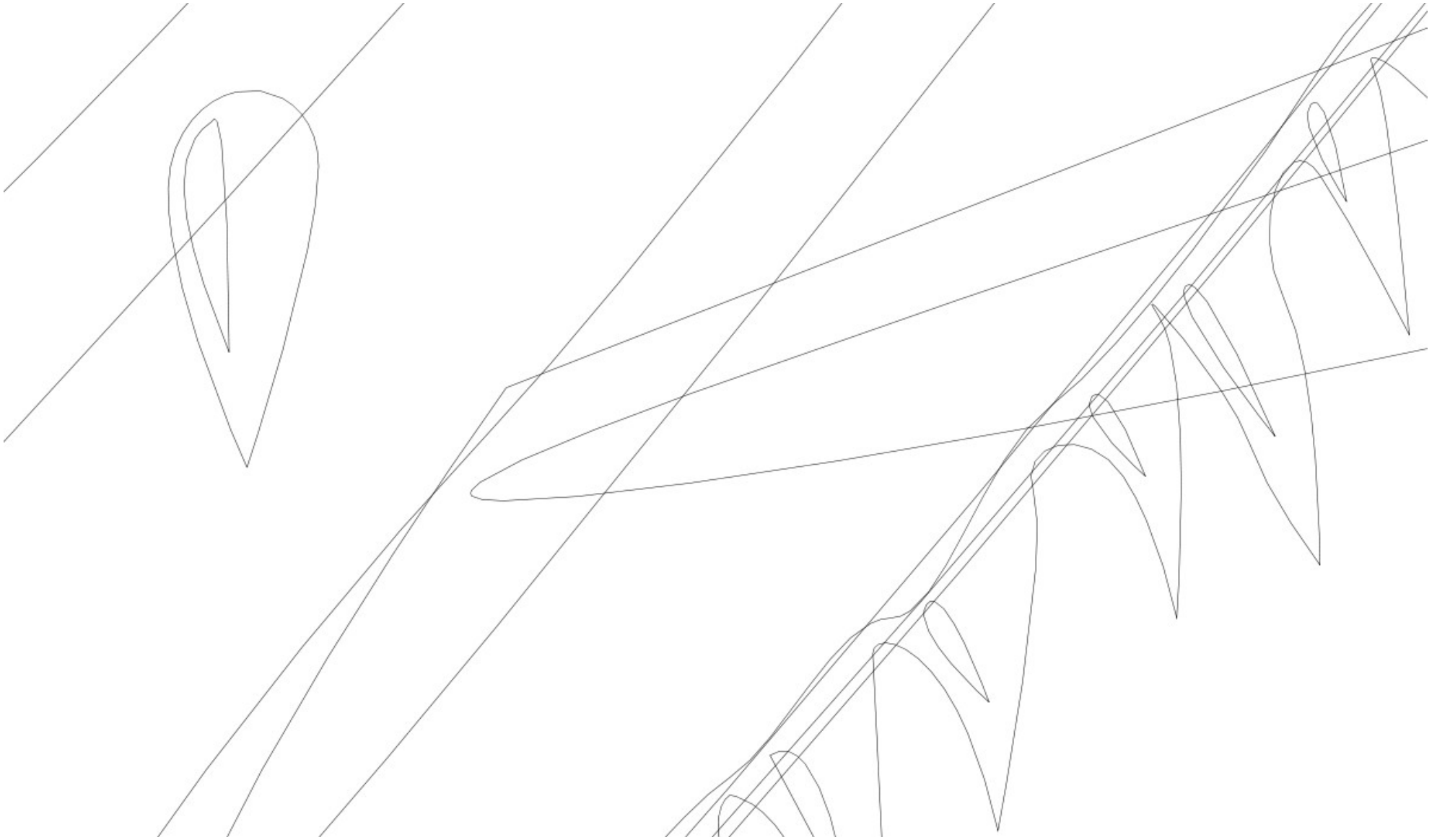
... for art's sake



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... for art's sake

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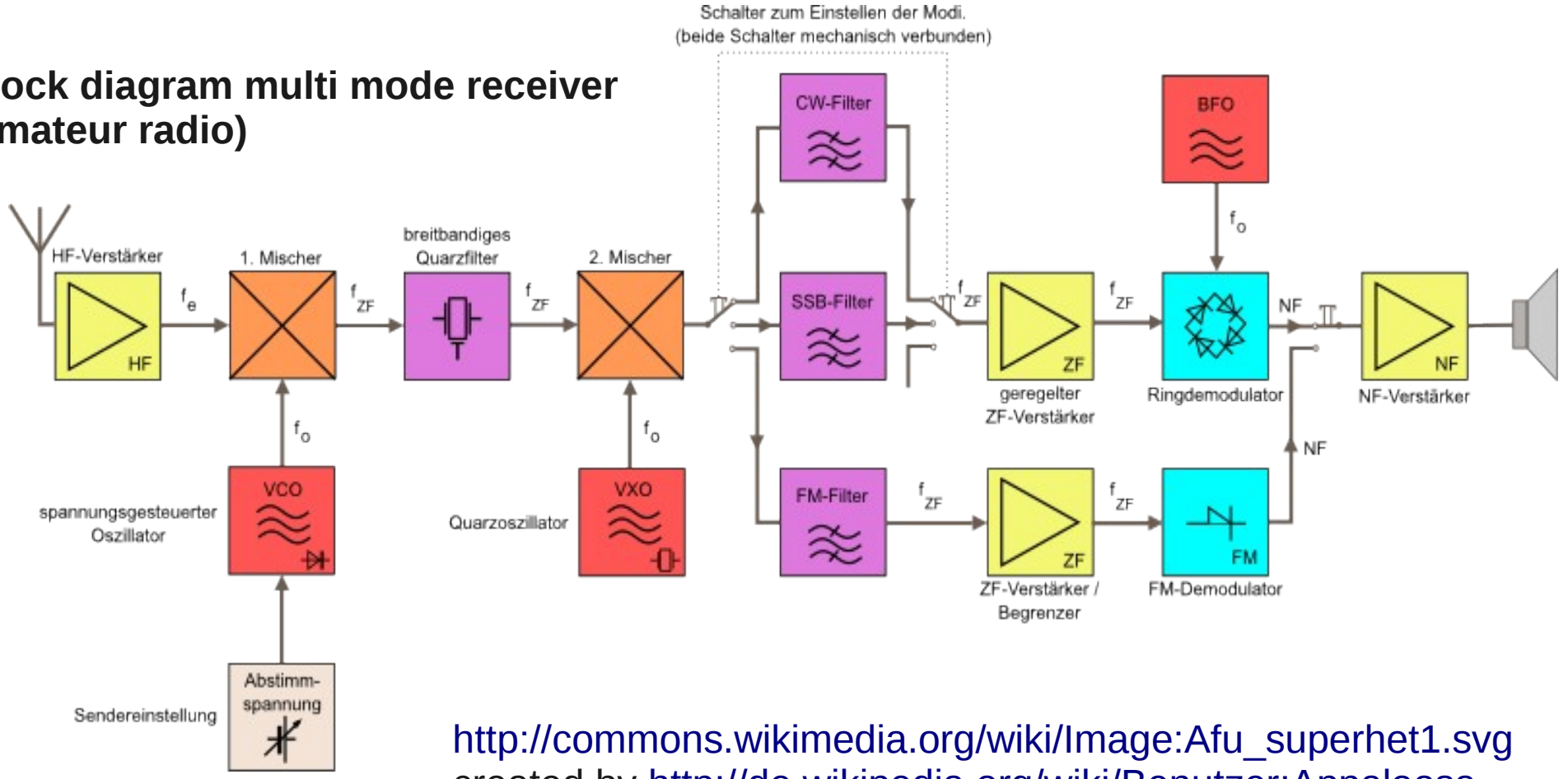
... for diagrams

Block diagram multi mode receiver (amateur radio)



http://commons.wikimedia.org/wiki/Image:Afu_superhet1.svg
created by http://de.wikipedia.org/wiki/Benutzer:Appaloosa

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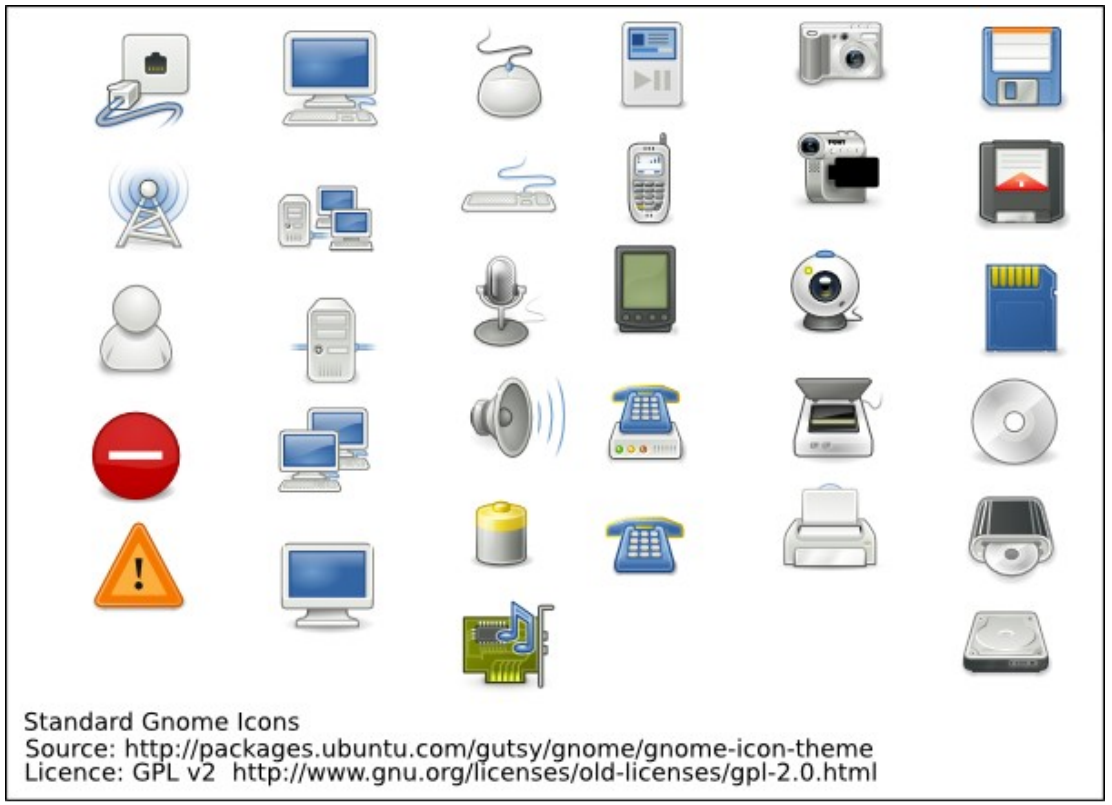
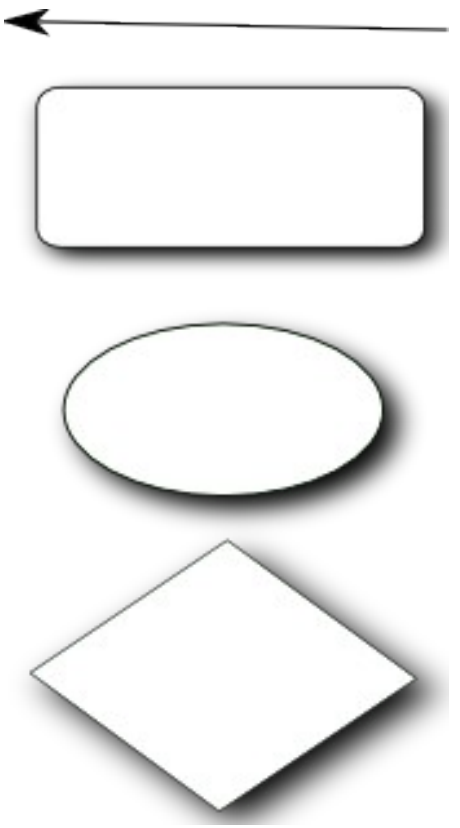
... for diagrams



Standard Gnome Icons
Source: http://packages.ubuntu.com/gutsy/gnome/gnome-icon-theme
Licence: GPL v2 http://www.gnu.org/licenses/old-licenses/gpl-2.0.html

Network Icons from Quantum Bits
Source: http://www.quantum-bits.org/?p=57
Licence: CC Share Alike: http://creativecommons.org/licenses/by-sa/2.5/



http://www.lynchconsulting.com.au/blog/index.cfm/2008/2/12/Pretty-network-diagrams-and-flow-charts-with-Open-Source-software

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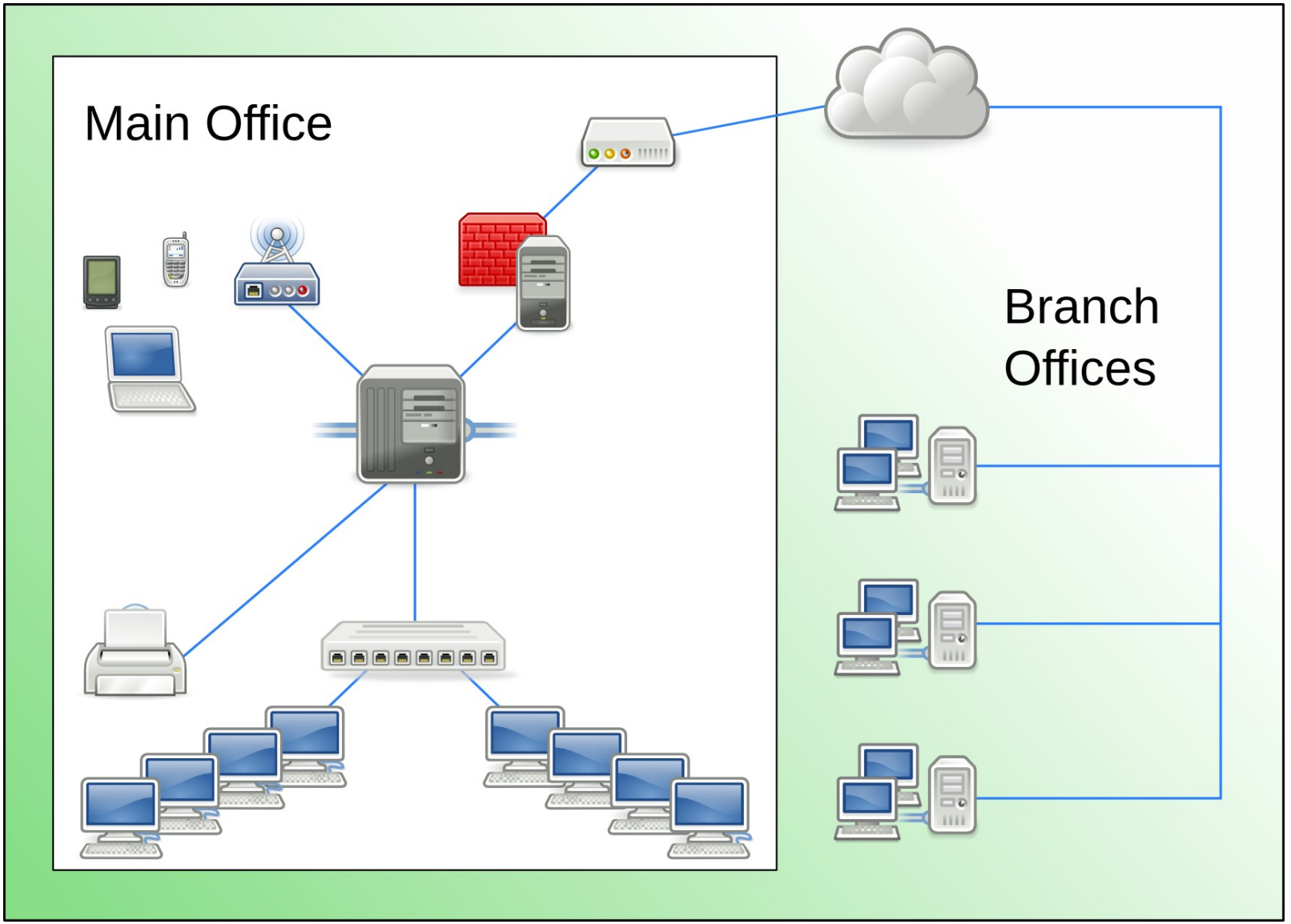
... of networks



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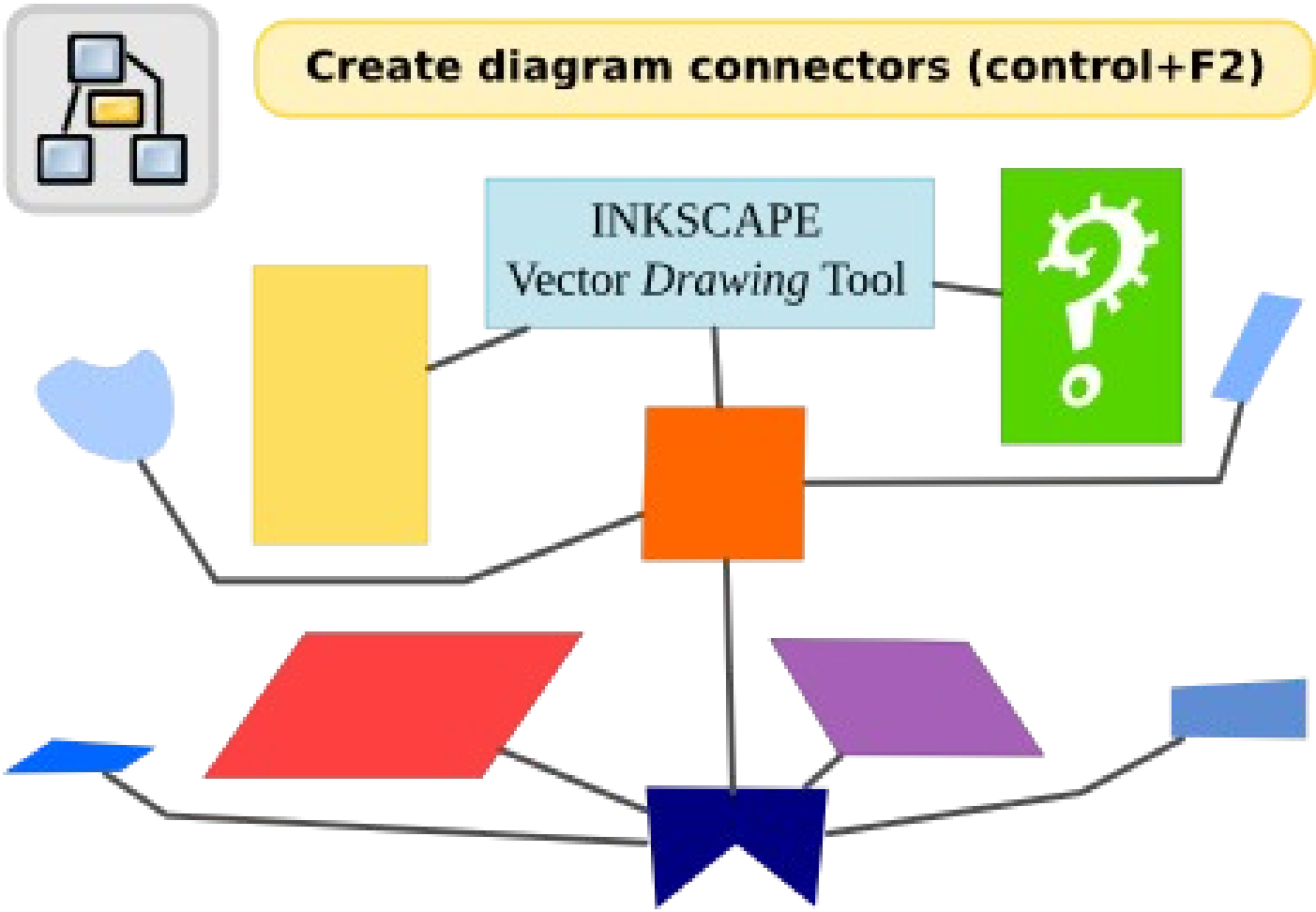
... for diagrams



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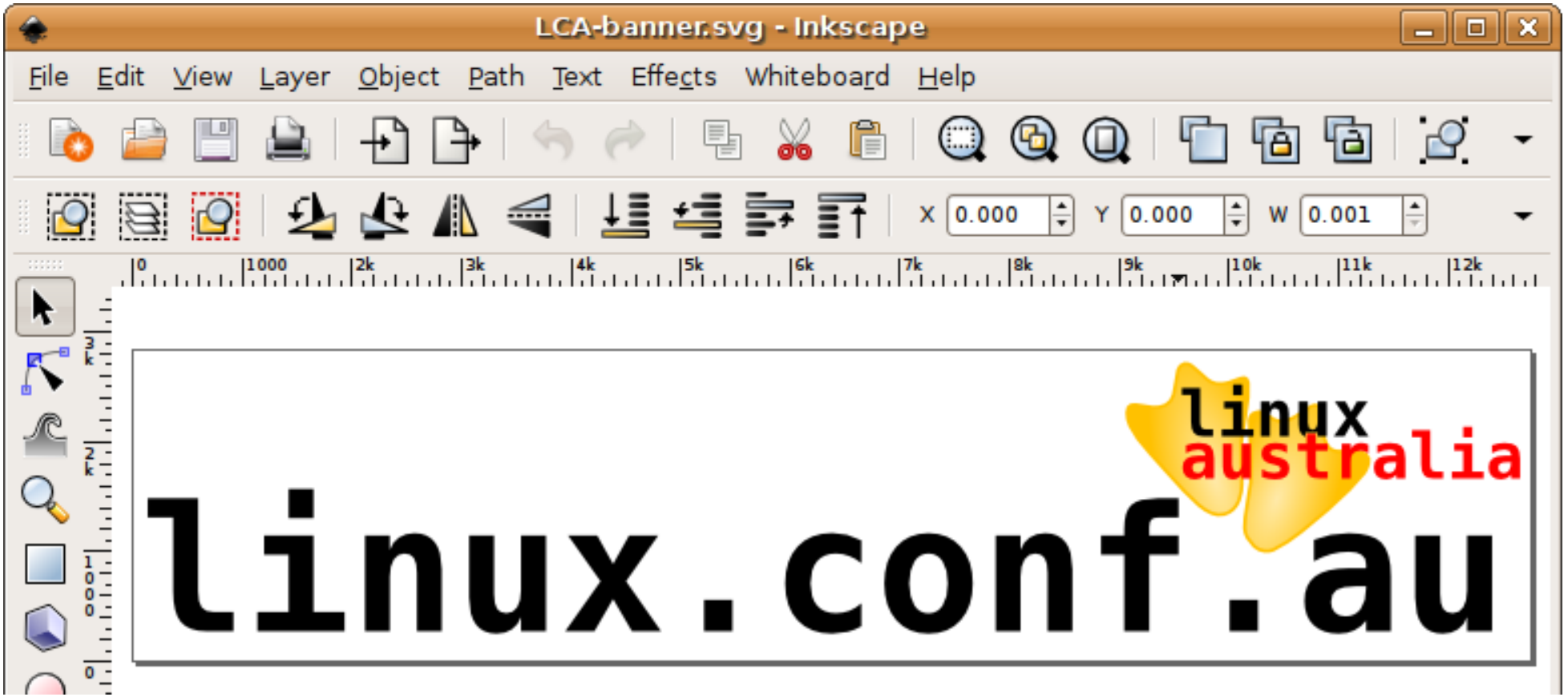
... for signs & logos



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... for signs & logos

http://www.flickr.com/photos/chrissamuel/2222027499

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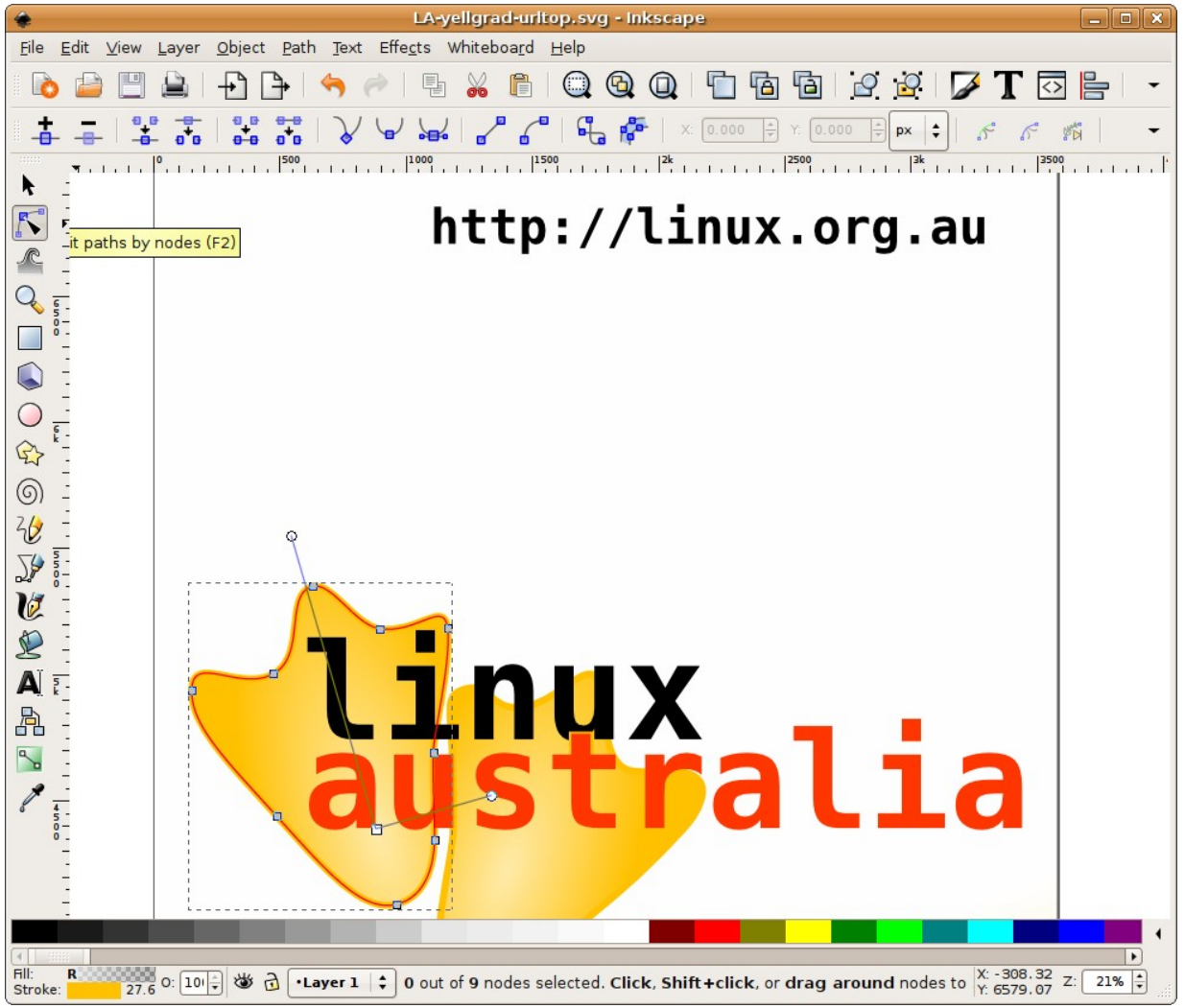
... for trade banners



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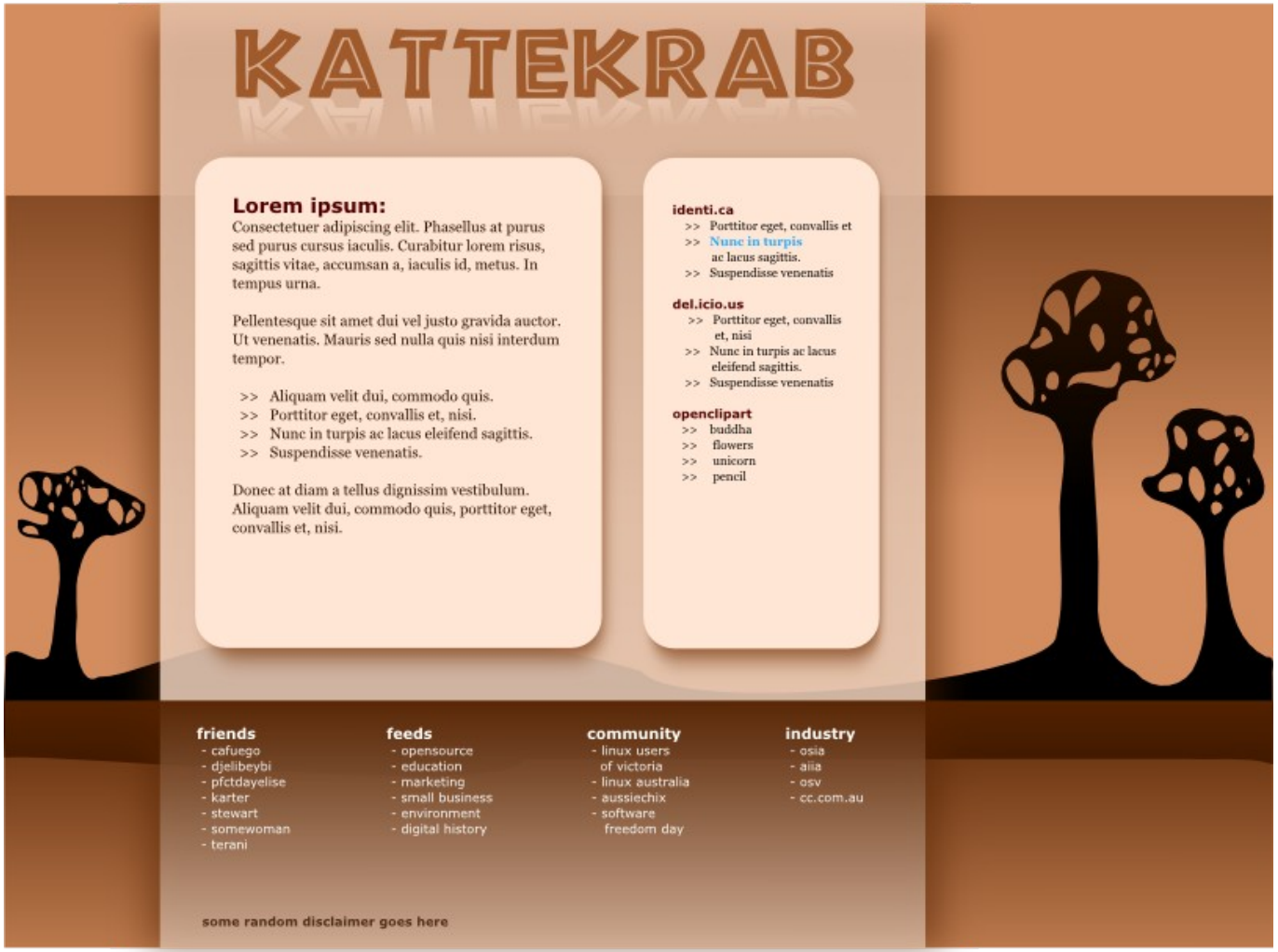
... for websites



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... and databases

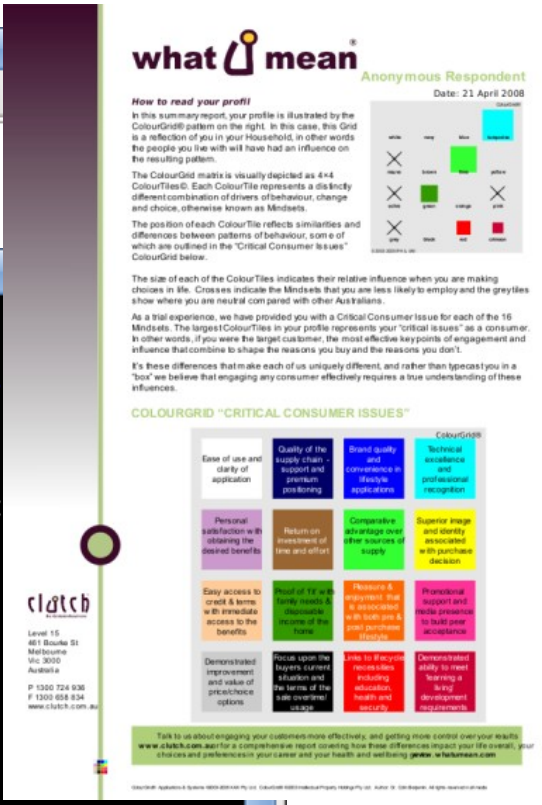
corporate_report_page4.xsl - Bluefish 1.0.7

File Edit View Tags Dialogs Document Go Project External Help

```
<g>
    <path
       id="path4801" d="M -2.5,-0.80913858 C -2.5,1.9508614
       -4.7400000,4.1908614 -7.5,4.1908614 L -7.5,-5.8091386
       C -4.74000
       style="fil
       transform=
<xsl:variable n
<xsl:variable n
<xsl:if test="$p
    <rect
      y="{124.621
```

cafuego@gibson

```
$report = new $class( $respondent, $survey->id );

// This needs to run in a loop, for each page. We pdftk to a si
foreach( $report->pages as $i => $page ) {

  $args['xml'] = $page->xml();
                 file_get_contents( sprintf( "%s.xsl", $page->t

                 ();
                 ng($x, 'UTF-8');

                 cess( $x, 'arg:/xml', 'arg:/xsl', null, $args
                  $x ) ) die( "XSLT Error : ". xslt_error( $x )

                 () uses mkstemp(3). Settle down, Beavis.
                 ntf( "%s.pdf", tempnam( TMPDIR, APPNAME ) );
                 ntf( "%s.svg", tempnam( TMPDIR, APPNAME ) );

                 vg_tmp, "w" ) || die( "Argh! Can't write {$svg_tmp}" );
                 vg );


                 /inkscape -z -A {$pdf_tmp} -f {$svg_tmp} > /dev/null 2>&1" );
                 );
                 _tmp;
```



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... for games

KMahjongg

The background was created by Eugene Trounev and the tilesets by Raquel Ravanini...

Thanks Ian :)

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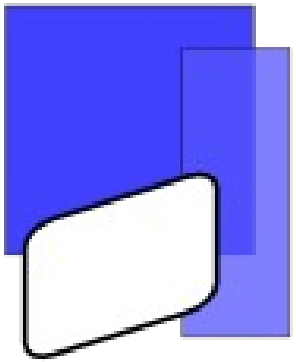
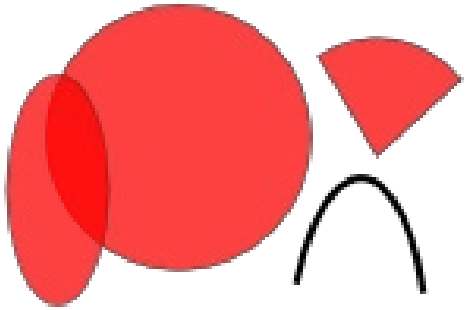
Basic tools

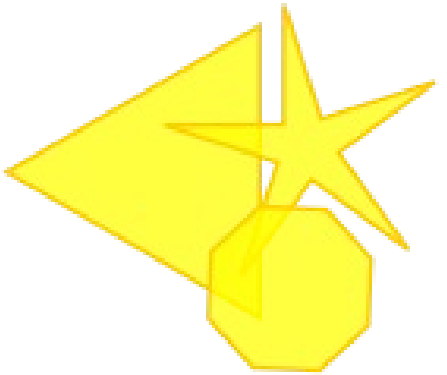
Squares & Rectangles



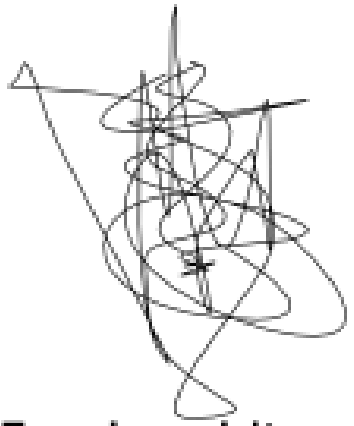
Circles, Wedges Arcs & Ellipses



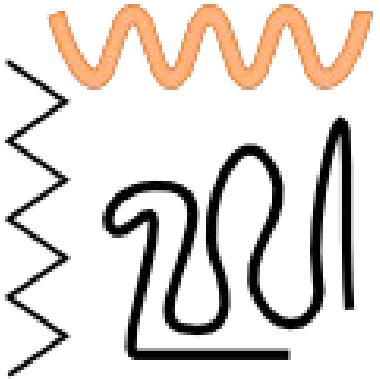
Stars & Polygons



Spirals



Freehand lines



Bezier Curves & Straight lines

Calligraphy

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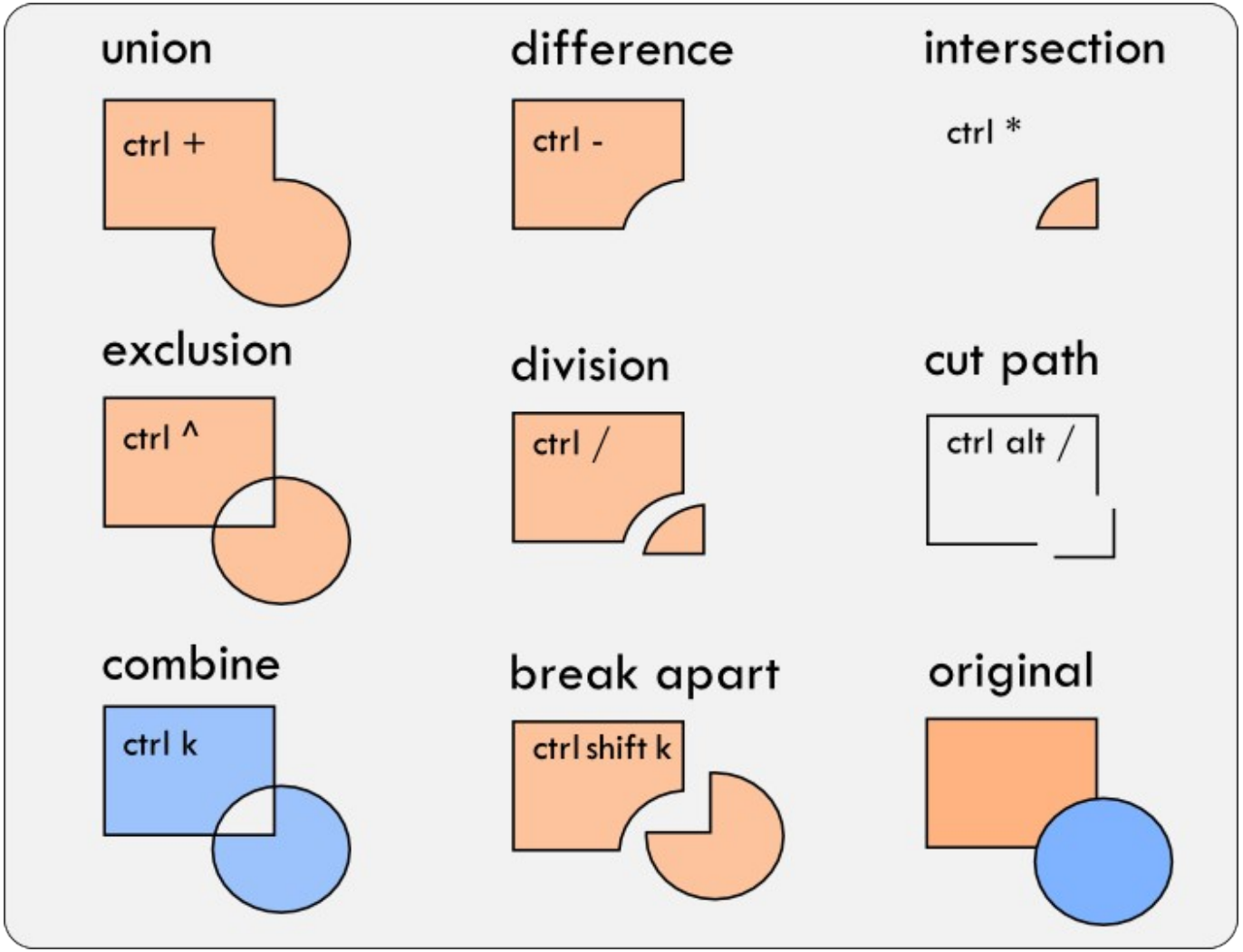
Basic techniques



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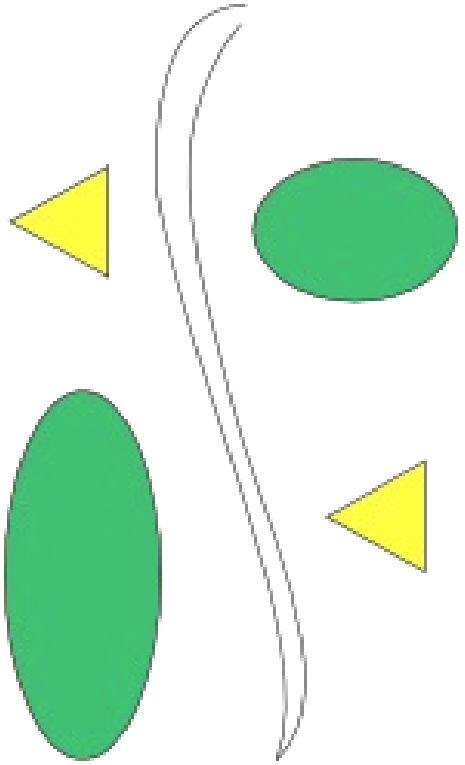
Basic techniques



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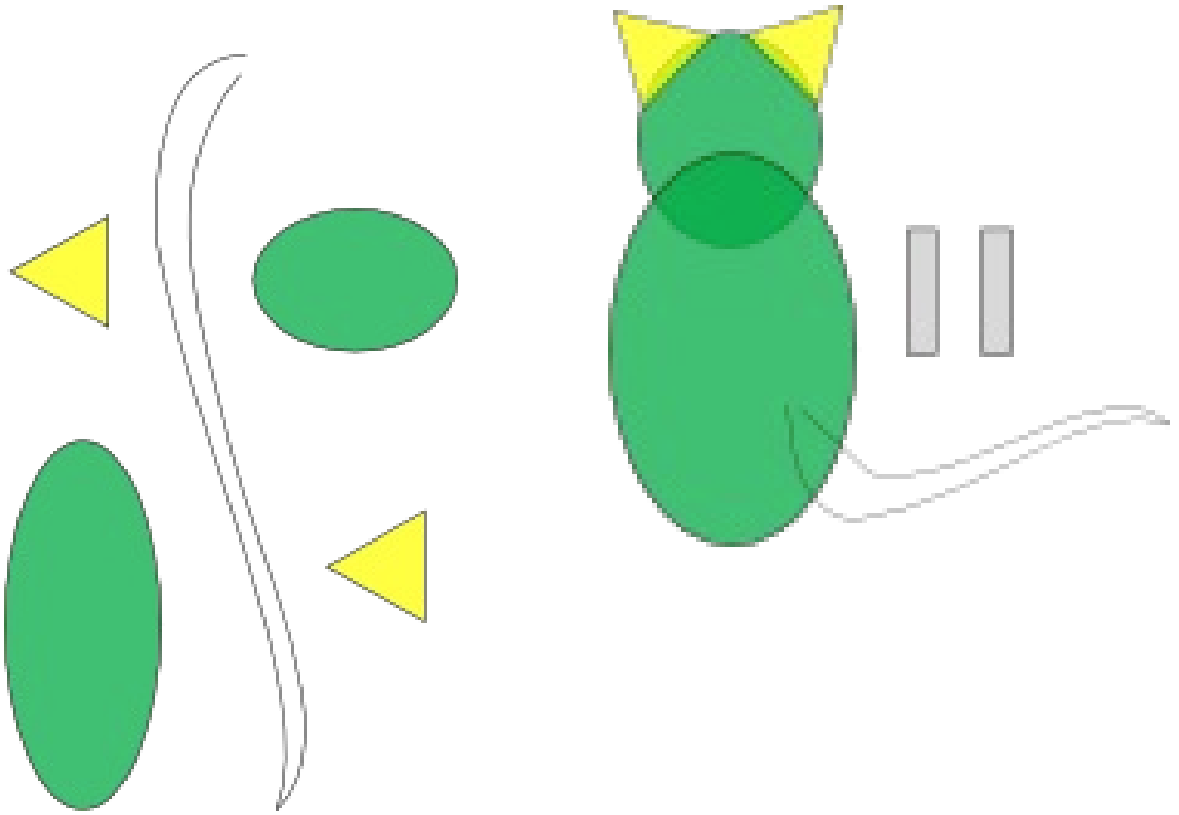
Basic techniques



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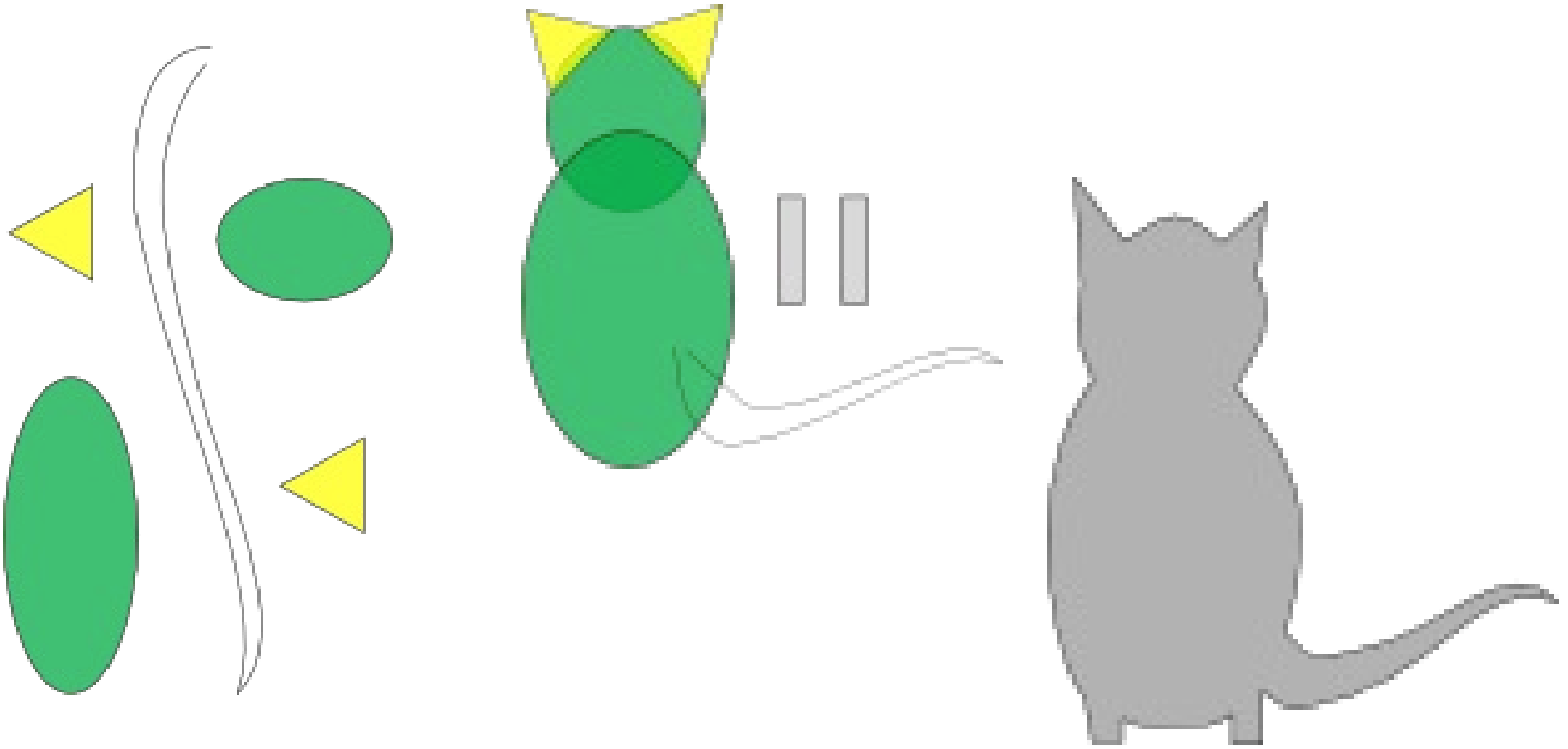
Basic techniques



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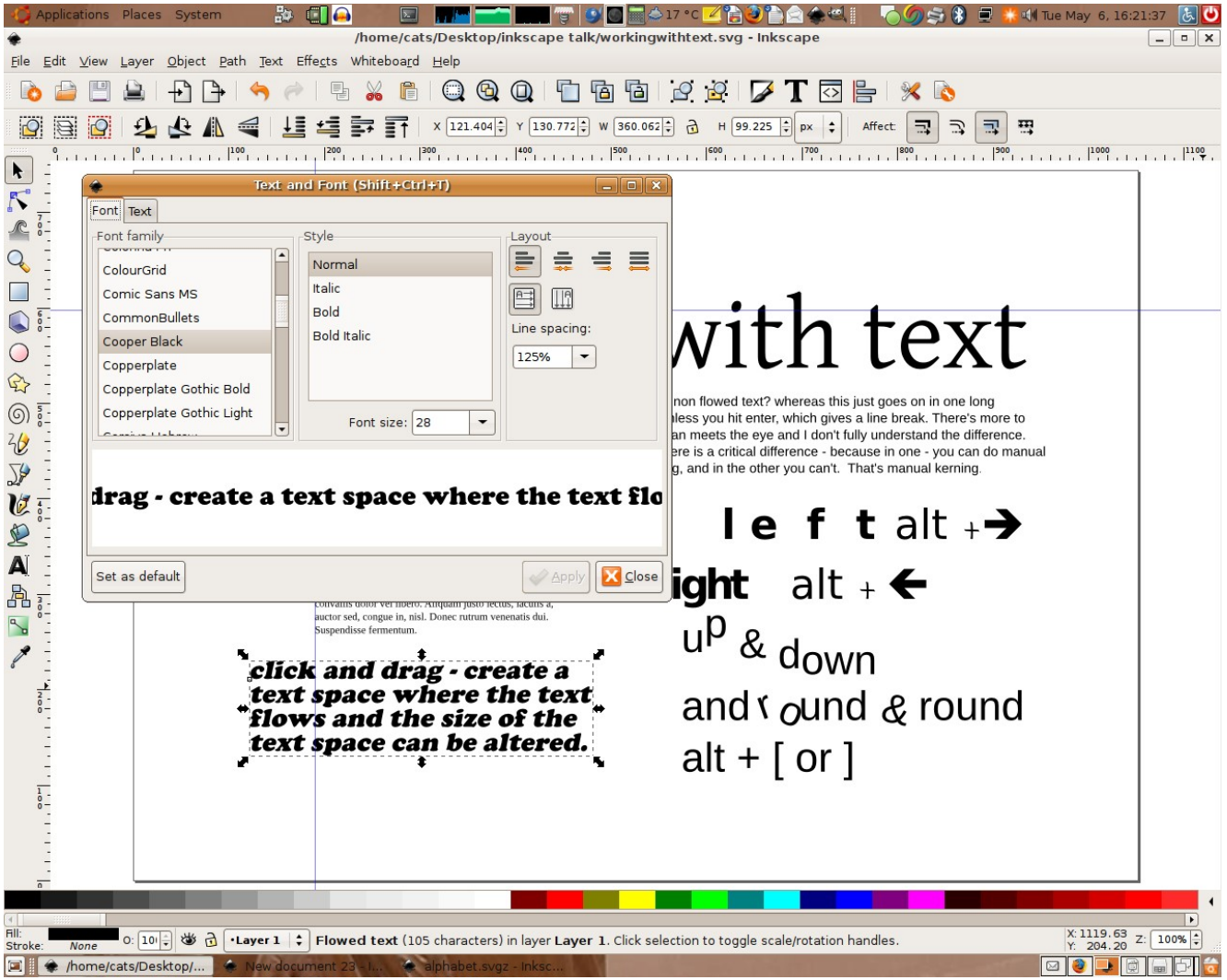
Working with text



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Trace bitmap

Trace bitmap

Trace bitmap

original

brightness cutoff

edge detection

select invert image

... or options off

Multiple Scans: 6

Colors

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Trace bitmap

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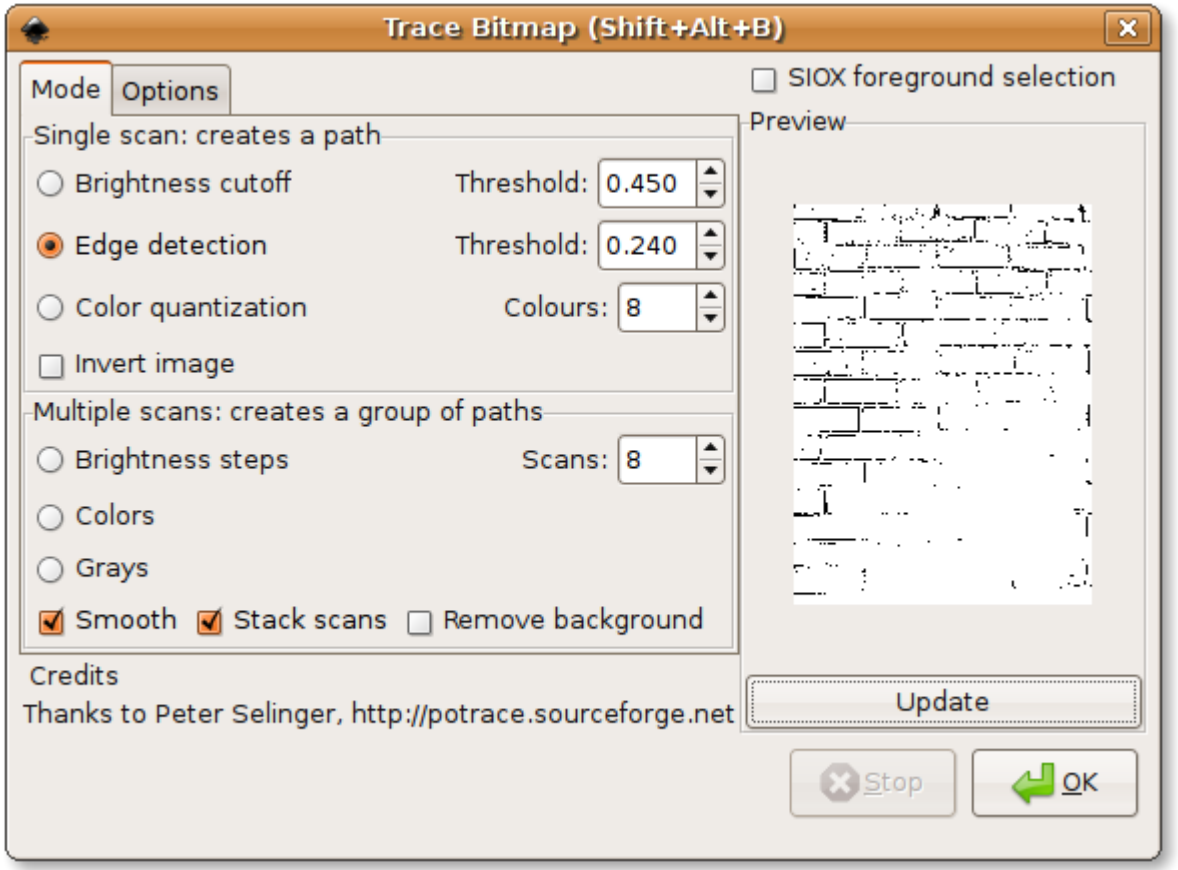
Trace bitmap



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LUV poster

- Take photo of bricks
- Trace bitmap
- Add
  - text and rotate
  - logos
  - box
- Make the text white
- Add vector grime

Clones

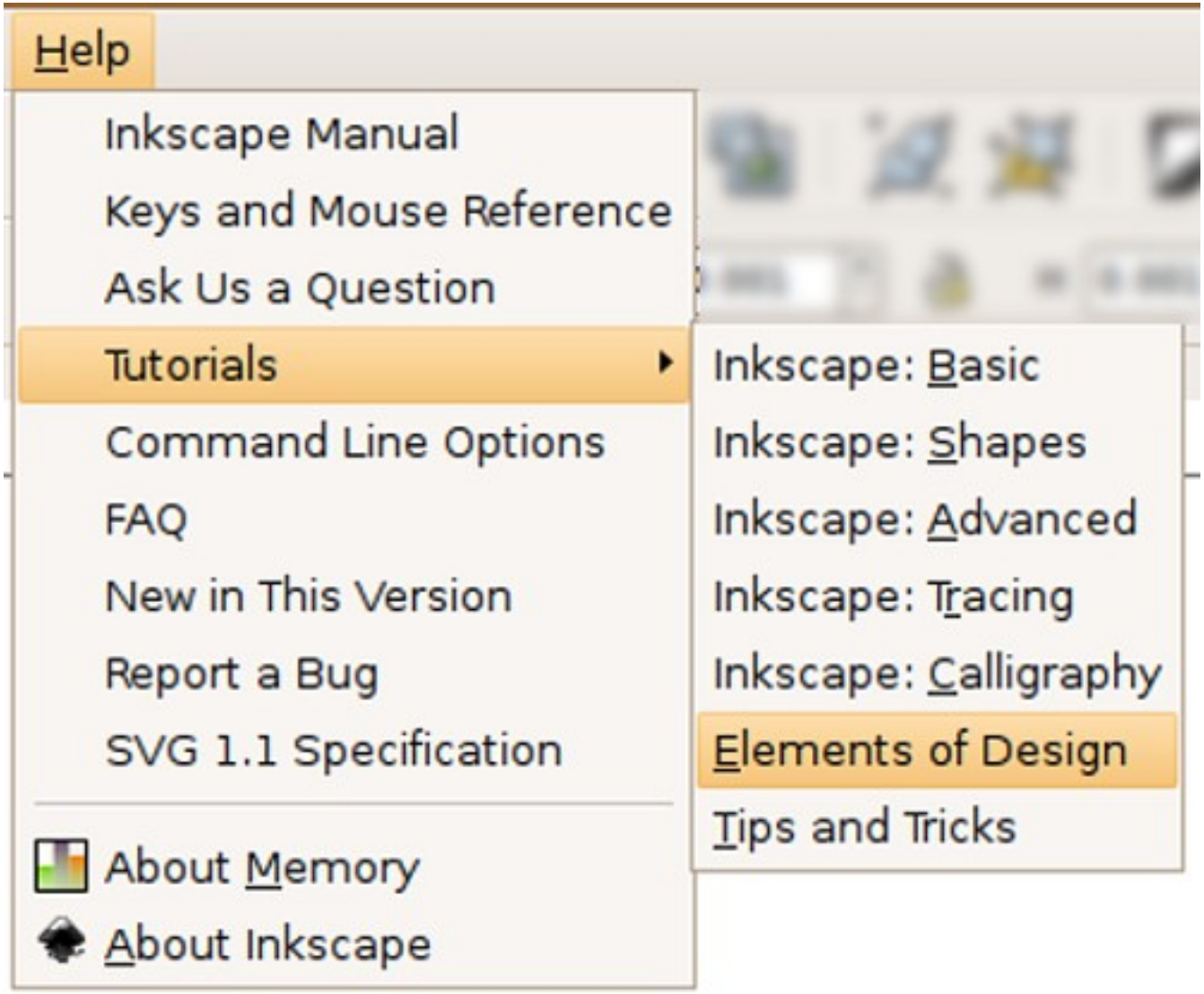
- You can clone anything...

http://flickr.com/photos/enygmatic/319747296/

- Time for a live demo?
  [note to self:
  cross fingers, hold breath]

Built in help

- There are Tutorials in the help menu.
- SVG format so you can work with them directly.



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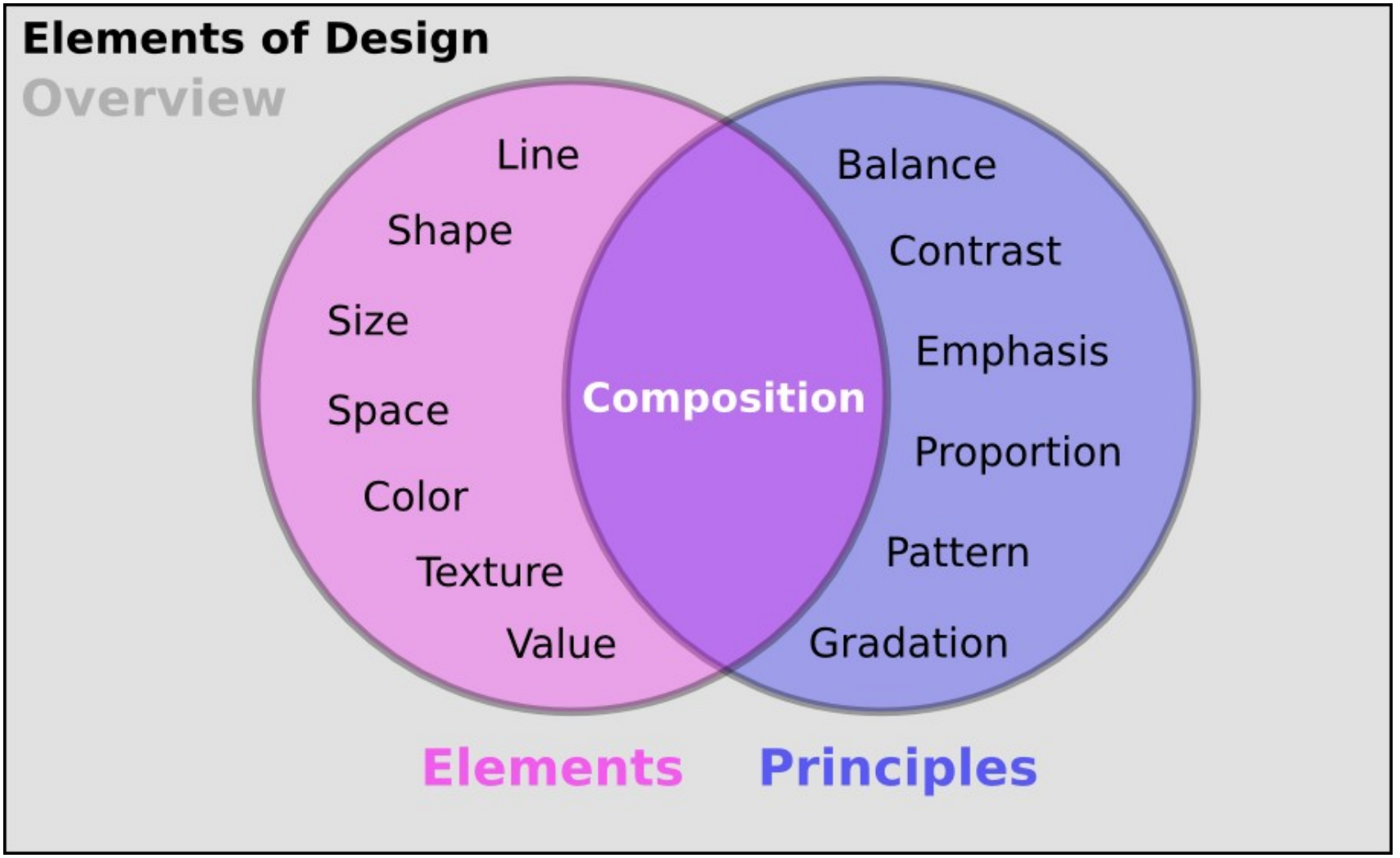
Elements of design



From the Elements of Design Inkscape Tutorial

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Learning something new...

http://flickr.com/photos/mcquain2/483523872/

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is satisfying.

http://flickr.com/photos/sukanto_debnath/2355441460/

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Pick a task

- Graphics:
  icons, logos, buttons, clip art
  (computer, mainframe, pencil)
- Page layout:
  newsletters, web pages, banners
  (kattekrab, linux-aus)
- Diagrams:
  networks, concept maps, charts
- Trace Bitmap:
  (hope and anchor)

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Refs & tutorials

Basic Info (and some examples)

http://commons.wikimedia.org/wiki/Inkscape
http://en.wikipedia.org/wiki/Inkscape

Techniques, Tips, Tricks & Tutorials

http://www.ffnn.nl/pages/articles/media/inkscape-text-tricks.php
http://inkscapetutorials.wordpress.com/
http://kalaalog.com/2007/11/01/inkscape-path-operations-basic-tutorial/
http://redhathigh.pbwiki.com/Illustration+with+Inkscape
http://screencasters.heathenx.org/

Tiled Clones

http://inkscape.teekoo.com/index.php?select=bar

Bezier curves

http://raikardesigns.blogspot.com/2007/10/fascinating-bezier-curves.html
http://en.wikipedia.org/wiki/B%C3%A9zier_curve

Network Diagrams

http://www.lynchconsulting.com.au/blog/index.cfm/2008/2/12/Pretty-network-diagrams-and-flow-charts-with-Open-Source-software
http://www.ioncannon.net/utilities/123/10-tips-for-creating-good-looking-diagrams-using-inkscape/

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