

## PLACER - vector/bitmap converter and composer

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*Fast, small program to convert and compose vector/bitmap graphic files in the following formats:*

### Bitmaps

- GIF
- BMP
- JPEG
- TIFF
- G3-Fax

### Vector(or mixed)

- AutoCAD DXF
- Windows Enhanced EMF/WMF
- ArcView SHP
- Gerber
- HTML (output only)
- Adobe PDF (output only)

The program can be used for

- viewing common graphic formats
- mixed graphic composition
- image processing/vectorization

### File formats supported

- Input DXF is ASCII mode 2D, used for vector data exchange (layers, True Type fonts, LW poly-lines are processed)
- Input BMP is uncompressed, palette and rgb
- Input TIFF is uncompressed, multi-page, palette and rgb
- Input G3-Fax is CCITT - 1D compressed, black/white
- Input GIF is standard, Output - is RLE compressed, interlaced
- Input JPEG is standard, progressive
- Input EMF/WMF can contain bitmaps, Output - is the system standard
- Input SHP is ESRI shape file associated with DBF attributes
- Input GBR Gerber PCB is a subset of RS274X standart
- Output HTML is Microsoft VML Web standard
- Output PDF is ZLib compressed, version 1.2

To make overlaid composition several bitmaps and vector files can be opened onto a page with optional position/scale parameters.

Position and scale factors can be adjusted using the keyboard or through point and pull of a border.

With ten buttons on the right side some image processing could be done. The functions are:

- "Histogram" - 2d/1d image histogram

- "Pyramid" - Pyramid filtering
- "FloodFill"- Flood filling (from image center)
- "3->1" - 3 to 1 channel conversion
- "CannyEdge" - Canny edge detection, vectorization
- "Approximate" - Curve approximation, simplification
- "Snake"- Active contours energy-minimization
- "ErodeDilate" - Erode or Dilate
- "Smooth" - Gaussian blur
- "Threshold" - Fixed-level thresholding

Each button has the parameter field for processing strength choosing.

The program contains:

- Ed Casas EFax
- Eddie Kohler GifSicle
- FastIO System ClibPDF
- Frank Warmerdam ShapeFile
- (c) Intel IJL
- (c) Intel OpenCV

Registration at ShareIt!: <http://shareit1.element5.com/programs.html?productid=133799>

ShareIt! will provide registered users with complete C source code of the program, MSVC project and full precompiled binaries.