

PLACER - vector/bitmap converter and composer  
2003, Barkhatov Andrej Eduardovich, abarkhatov@yahoo.com

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 6 buttons on the right side some image processing could be done.

The functions are:

- \* "Hist" - 2d-histogram of an image
- \* "Pyrm" - Pyramid filtering
- \* "Fill" - Flood filling (from image center)
- \* "3->1" - 3 to 1 channel conversion
- \* "Edge" - Canny edge detection, vectorization
- \* "Approx" - Curve approximation, simplification

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
- \* Intel IJL
- \* Intel OpenCV

Special thanks : Arzamas

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.