

**NAME**

**edgepaint** – edge coloring to disambiguate crossing edges

**SYNOPSIS**

[ *options* ] [ **-o** *outfile* ] [ *files* ]

**DESCRIPTION**

**edgepaint** takes as input a graph in DOT format with node position information (the *pos* attribute) and colors the edges in a manner making it easier to tell them apart.

**OPTIONS**

The following options are supported:

**-accuracy=e**

accuracy with which to find the maximally different coloring for each node with regard to its neighbors. Default *e* = 0.01.

**-angle=a**

color two edges differently if their incidence angle is less than *a* degrees. Default *a*=15.

**-random\_seed=s**

random seed to use. *s* must be an integer. If *s* is negative, we do  $|s|$  iterations with different seeds and pick the best.

**-lightness=ll,l2j**

only applies for the "lab" color scheme: *ll* and *l2* must integers, with  $0 \leq ll \leq l2 \leq 100$ . By default, we use "0,70"

**-share\_endpoint**

if this option is specified, edges that share a node are not considered in conflict if they are close to parallel but are on the opposite sides of the node (around 180 degree).

**-o f** write output to file *f* (default: stdout).

**-color\_scheme=c**

specifies the color scheme. This can be "rgb", "gray", "lab" (default); or a comma-separated list of RGB colors in hex (e.g., "#ff0000,#aabbed,#eefaa") representing a palette; or a string specifying a Brewer color scheme (e.g., "accent7"; see <http://www.graphviz.org/content/color-names#brewer>).

**-v** turns on verbose mode.

**-?** Print usage and exit.

**BUGS**

At present, **edgepaint** does not handle graphs with loops or directed multiedges. So, a graph with edges *a* -> *b* and *b* -> *a* is acceptable, but not if it has edges *a* -> *b* and *a* -> *b* or *a* -- *b* and *a* -- *b*. Ports are ignored in this analysis, so having *a.x* -> *b* and *a.y* -> *b* is also not supported.

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**SEE ALSO**

gvmap(1), sfdp(1), neato (1), dot(1)