

**NAME**

pnmflip - perform one or more flip operations on a portable anymap

**SYNOPSIS**

**pnmflip** [-leftright|-lr] [-topbottom|-tb] [-transpose|-xy] [-rotate90|-r90|-ccw ] [-rotate270|-r270|-cw ] [-rotate180|-r180] [*pnmfile*]

**DESCRIPTION**

Reads a portable anymap as input. Performs one or more flip operations, in the order specified, and writes out a portable anymap.

**OPTIONS**

The flip operations available are: left for right (**-leftright** or **-lr**); top for bottom (**-topbottom** or **-tb**); and transposition (**-transpose** or **-xy**). In addition, some canned concatenations are available: **-rotate90** or **-ccw** is equivalent to **-transpose -topbottom**; **-rotate270** or **-cw** is equivalent to **-transpose -leftright**; and **-rotate180** is equivalent to **-leftright -topbottom**.

All flags can be abbreviated to their shortest unique prefix.

**SEE ALSO**

pnmrotate(1), pnm(5)

**AUTHOR**

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