## NAME

unflatten – adjust directed graphs to improve layout aspect ratio

## SYNOPSIS

**unflatten** [**–f?**] [**–l***len*] [**–c***len* ] [ **–o** *outfile* ] [ files ]

## DESCRIPTION

**unflatten** is a preprocessor to **dot** that is used to improve the aspect ratio of graphs having many leaves or disconnected nodes. The usual layout for such a graph is very wide or tall. **unflatten** creates chains with invisible edges or adjusts the **minlen** on edges to improve layout compaction.

## OPTIONS

The following options are supported:

**–l** *len* The **minlen** of leaf edges is staggered between 1 and *len* (a small integer).

**–f** Applies the **–l** option to fanout nodes whose indegree and outdegree are both 1. This helps with structures such as *a -> {w x y z} -> b*. This option only works if the **–l** flag is set.

**–c** *len* Form disconnected nodes into chains of up to *len* edges.

**–o** *outfile*
causes the output to be written to the specified file; by default, output is written to **stdout**.

**–?** Prints the usage and exits.

## OPERANDS

The following operand is supported:

*files* Names of files containing 1 or more graphs in dot format. If no *files* operand is specified, the standard input will be used.

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## SEE ALSO

gc(1), dot(1), acyclic(1), gvpr(1), gvcolor(1), ccomps(1), tred(1), libgraph(3)