

Re: Lattice visualization tool

Source: <http://sci.tech-archive.net/Archive/sci.math/2007-11/msg03050.html>

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 - *Date:* Thu, 15 Nov 2007 11:17:50 -0800 (PST)
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On Nov 14, 8:29 pm, Feng <fen...@xxxxxxxxxx> wrote:

Hi, is there any easy-to-use software tools to visualize a lattice (or a poset)? i.e., given a set of elements and order definition (in certain format), the software is able to display a graph presenting the relationship among the elements in an elegant way?

Mathematica has graph viewing functions, and some that are poset specific (or there are mma packages that manipulate and view posets).

xgap, the xwindows frontend to gap (group computation software) displays subgroup lattices nicely.

But those easy-to-use only after a big learning curve (and money for mma).

I've never used them but there are probably all sorts of graph manipulation programs available online for free that you can use, and they may have lattice specific options (GraphViz?).

A lot of the usefulness depends on the kind of lattice/poset you care about. Trees are easy. If there are lots of elements and lots of connections, you'll want a viewer that allows you to choose which nodes/edges to view... just something to keep in mind.

Mitch

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