

Re: "Embedded" in the plane.

Source: <http://sci.tech-archive.net/Archive/sci.math/2004-08/0200.html>

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Date: 08/01/04

Date: Sun, 01 Aug 2004 09:06:07 GMT

Bill Jones wrote:

> David Eppstein <eppstein@ics.uci.edu> wrote in message
news:<eppstein-AC8FF4.18014530072004@news.service.uci.edu>...
>
>
>> Bill Jones ... naive-appearing question.
>
>
> I have another "naive" question.
>
> Does "embedded in the plane" refer to all graphs or just to planar graphs?

It refers to all topological spaces (at least). However, the question

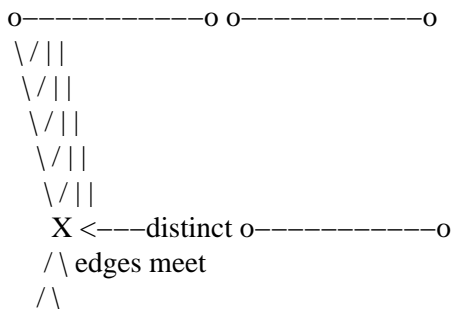
Can X be embedded in the plane?

usually gives the answer "No".

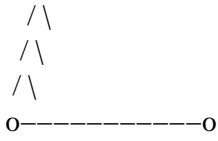
When restricted to graphs (in some ways of understanding, a graph can be considered a topological space), then the answer is "Yes" for planar graphs.

That's why they're called "planar". Because they *can* be embedded in the plane. Note, however, that some depictions of a planar graph as an arrangement of points and arcs in the plane are not embeddings:

NOT AN EMBEDDING AN EMBEDDING:



sci.math: Re: "Embedded" in the plane.



Dale.