

Re: the binary tree

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- *From:* calvin <crice5@xxxxxxxxxxxxxxxx>
 - *Date:* Fri, 17 Apr 2009 08:41:58 -0700 (PDT)
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On Apr 17, 11:29 am, Dave <dave_and_da...@xxxxxxx> wrote:

On Apr 17, 8:23 am, calvin <cri...@xxxxxxxxxxxxxxxx> wrote:

Yes, but so what? The binary tree yields the uncountable number of reals between zero and one in a countable number of construction steps.

Please demonstrate the first several layers of this binary tree.

It's just the standard binary tree:

Under each node, consider the left branch to be a zero and the right branch to be a one. At the end of each branch is a node, from which drop two more branches, another zero and one. Under the topmost node, where I place the binary point, is the first row, consisting of two branches ending in two nodes. Under that is the second row, consisting of four branches and four nodes; under that is the third row, consisting of eight branches and eight nodes. And so on.

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