

## Re: An instance of Russell's paradox?

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*Source:* <http://sci.tech-archive.net/Archive/sci.logic/2005-08/msg00550.html>

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- *From:* "A.T." <[andrzej-tomaszewski@xxxxx](mailto:andrzej-tomaszewski@xxxxx)>
  - *Date:* 30 Aug 2005 06:36:27 -0700
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Ms Knox wrote:

[snip]

- > All *\*partial\** functions (or all Turing Machines, etc.) can be
- > enumerated, and there is no diagonalisation problem with that.

I see.

- > The set of just all *\*total\** functions (or always-halting TMs, etc.) can
- > not be enumerated for the reason you give: the diagonalisation of any
- > list of total functions will be another total function which is
- > different from every one in the list.

Right, I see.

Ms Knox, may I also ask you to kindly make some remarks regarding the other two questions I posted, namely, the question suggesting the infinite generalization of the arity of every predicate (I got this idea from Quine, but I lost trace of the actual source), as well as the question pertaining to the actual difference between an atom and a predicate in philosopher(socrates) transformed into [philosopher, socrates], where the predicate is(?) really the first atom of the analogous list form of a proposition (the problem is, I really see no difference whatsoever).

As always, I am most grateful for your time. Thank you very much indeed for writing.

Kindest regards,  
Tom

- > [snip]
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- > -----
- > | BBB b \ Barbara at LivingHistory stop co stop uk
- > | B B aa rrr b |
- > | BBB a a r bbb | Quidquid latine dictum sit,

Re: An instance of Russell's paradox?

> | B B a a r b b | altum viditur.  
> | BBB aa a r bbb |  
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• *Follow-Ups:*

◆ *Re: An instance of Russell's paradox?*

◇ *From:* Barb Knox

• *References:*

◆ *An instance of Russell's paradox?*

◇ *From:* A.T.

◆ *Re: An instance of Russell's paradox?*

◇ *From:* Jim Spriggs

◆ *Re: An instance of Russell's paradox?*

◇ *From:* Barb Knox

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