

Re: set of a set etc.

Source: <http://sci.tech-archive.net/Archive/sci.math/2005-07/msg03027.html>

- *From:* G. Frege <nomail@invalid>
 - *Date:* Tue, 19 Jul 2005 21:12:52 +0200
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On 19 Jul 2005 09:24:32 -0700, "Jasper" <vfiddlestix@xxxxxxx> wrote:

>
> Bad attempt at illustration on my part. The question still remains
> however, as to the conceptual difference between a thing ...x.. and its
> set {x} , the set of its set{{x}} etc. If they aren't the same then it
> could be possible to say what the difference actually is.
>

Actually, your question has already been answered (for $x = \{\}$) by Jean-Claude Arbaut and Dave Seaman.

Another try:

"The distinction between x and $\{x\}$ is one of the merits of Peano's symbolic logic, as well as Frege's. On the basis of our theory of classes, the necessity for the distinction is of course obvious. But apart from this, the following consideration makes the necessity apparent. Let $/a/$ be a class; then the class whose only member is $/a/$ has only one member, namely $/a/$, while $/a/$ may have many members. Hence the class whose only member is $/a/$ cannot be identical with $/a/$.*"

"* This argument is due to Frege. See his article "Kritische Beleuchtung einiger Punkte in E. Schröders Vorlesungen über die Algebra der Logik" [...] (1895)"

(Russell & Whitehead, Principia Mathematica, 1910)

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- *Follow-Ups:*
 - ◆ **Re: set of a set etc.**
 - ◇ *From:* G . Frege
 - ◆ **Re: set of a set etc.**

Re: set of a set etc.

◇ *From:* Jasper

◆ ***Re: set of a set etc.***

◇ *From:* William Elliot

• **References:**

◆ ***set of a set etc.***

◇ *From:* Jasper

◆ ***Re: set of a set etc.***

◇ *From:* Jean-Claude Arbaut

◆ ***Re: set of a set etc.***

◇ *From:* Jasper

◆ ***Re: set of a set etc.***

◇ *From:* Jean-Claude Arbaut

◆ ***Re: set of a set etc.***

◇ *From:* Jasper

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