

Erratum to: Inexpressible properties and Grelling's antinomy

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Unfortunately, negation signs are missing throughout the article. The following passages are affected:

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Barber \leftrightarrow The said barber shaves himself \leftrightarrow the said barber shaves himself,
should read

Barber \leftrightarrow The said barber shaves himself $\leftrightarrow \neg$ the said barber shaves himself,

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Set \leftrightarrow The said set contains itself \leftrightarrow the said set contains itself,
should read

Set \leftrightarrow The said set contains itself $\leftrightarrow \neg$ the said set contains itself,

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Predicate \leftrightarrow The said predicate applies to itself \leftrightarrow the said predicate applies to
itself.

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should read

Predicate \leftrightarrow The said predicate applies to itself $\leftrightarrow \neg$ the said predicate applies to itself.

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The derivation should read:

1	(1)	P^* exists	A
2	(2)	t expresses P^*	A
2, Ex	(3)	$\forall x (t \text{ applies to } x \leftrightarrow x \text{ has } P^*)$	2, Ex
1, DN	(4)	$\forall x (x \text{ has } P^* \leftrightarrow \neg x \text{ applies to } x)$	1, DN*
1, 2, DN, Ex	(5)	$\forall x (t \text{ applies to } x \leftrightarrow \neg x \text{ applies to } x)$	3, 4 FOPL
1, 2, DN, Ex	(6)	t applies to $t \leftrightarrow \neg t$ applies to t	4 $\forall E$
1, DN, Ex	(7)	$\neg t$ expresses P^*	6,2 FOPL (RAA)
1, DN, Ex	(8)	$\forall y \neg y$ expresses P^*	6, $\forall I$

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The derivation should read:

1	(1)	a is a member of S	A
2	(2)	$\forall y (y \text{ is a member of } S \rightarrow (a \text{ bears } R \text{ to } y \leftrightarrow \neg y \text{ bears } R \text{ to } y))$	A
3	(3)	$\forall x (x \text{ is a member of } S \rightarrow (x \text{ bears } R \text{ to } x \vee \neg x \text{ bears } R \text{ to } x))$	A
1,2	(4)	a bears R to $a \leftrightarrow \neg a$ bears R to a	2 $\forall E$; 1,2 MPP
1,3	(5)	a bears R to $a \vee \neg a$ bears R to a	3 $\forall E$; 1,3 MPP
6	(6)	a bears R to a	A
1,2,6	(7)	$\neg a$ bears R to a	6,4 $\leftrightarrow E$
1,2,6	(8)	a bears R to a & $\neg a$ bears R to a	7,8 &I
9	(9)	$\neg a$ bears R to a	A
1,2,9	(10)	a bears R to a	9,4 $\leftrightarrow E$
1,2,9	(11)	a bears R to a & $\neg a$ bears R to a	9,10 &I
1,2,3	(12)	a bears R to a & $\neg a$ bears R to a	5,6,8,9,11 $\vee E$