Role-denoting nouns are more suitable for metaphoric uses than object-denoting nouns

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Introduction

Today, there is a claim that there are, at least, two semantic classes of nouns. The first class, termed as “object names” (Kuroda et al., 2005) or “entity categories” (Gentner & Kurtz, 2005), comprises nouns such as bulldog that refer to a specific class of natural objects. The second class, known as “role names” or “relational role categories,” denotes a role or a set of role-bearing objects (e.g., watchdog) that are defined on the basis of a specific situation. Note that bulldog denotes a subtype of dogs, while watchdog is not really a subtype of dogs, only referring to a set of dogs of arbitrary kinds that serve as watchdog. An object noun is defined by the intrinsic properties shared by a set of objects, and reference to objects is the primary function of object nouns, while these are not true of role nouns.

In today’s metaphor research, it has been suggested that (non-)referentiality of the vehicle term is one of the factors that affects people’s preferences on grammatical form of the metaphorical comparisons. Since referential “literal” meanings of the vehicles must be suppressed in metaphor comprehension (e.g., Gernsbacher et al., 2001), it is predicted that role-denoting nouns are preferred vehicles for metaphor form over simile form, than object-denoting nouns. To test this prediction, we conducted a rating study in Study 1. In Study 2, we examined the uses of the nouns in a corpus.

Study 1

Method

Materials Sixteen pairs of Japanese object and role nouns from the same natural categories (e.g., bulldog–watchdog) were selected for the vehicles of figurative comparisons through a preliminary study. Four nouns were selected for the topic. Each of these vehicles and topics were combined and made up the figurative comparisons. These comparisons were then embedded in either the metaphor form (A person called “Suyu” was really a watchdog) or the simile form (A person called “Suyu” was like a watchdog).

Procedure Forty university students, all native Japanese speakers, were asked to rate which grammatical form (metaphor or simile) was more natural or sensible for each comparison on the 10-point scale.

Results

The responses were transformed so that higher numbers would imply greater preferences for the metaphor form over the simile form. As Table 1 shows, the strength of the preferences for the metaphor form over the simile form was greater when the vehicle of the comparison was a role noun than when it was an object noun (F(1, 39) = 22.63, p < .0001; F2(1,30) = 9.22, p < .001).

Table 1. The mean preference scores for the metaphor forms.

<table>
<thead>
<tr>
<th>Type of Vehicle</th>
<th>Person</th>
<th>Musical instrument</th>
<th>Country</th>
<th>Fish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object</td>
<td>3.7 (1.3)</td>
<td>3.9 (1.5)</td>
<td>4.3 (1.5)</td>
<td>3.6 (1.1)</td>
</tr>
<tr>
<td>Role</td>
<td>4.2 (1.7)</td>
<td>4.6 (1.3)</td>
<td>5.1 (1.7)</td>
<td>4.2 (1.4)</td>
</tr>
</tbody>
</table>

General Discussion

The results in Study 1 and 2 were both consistent with our prediction, suggesting that the situationally-based subclassification of concrete nouns needs to be done to fully account for the metaphor uses of them.

References

