A prediction of generic they semantics

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An often-discussed topic in English linguistics are the different usages of the pronoun *they*. While in its prototypical usage it is a third person plural pronoun, there are also several attested singular usages (cf. Conrod, 2020); the most prominent being its generic use. While there is a plethora of sociolinguistic research on generic *they*, there is no account of its semantics. A first such account is the aim of the present study.

In this paper, the term "prediction" does double duty. First, from a technical perspective, the semantics of generic *they* attestations and further pronouns (*he*, *she*, plural *they*, *anyone*, *anybody*) are predicted via instance vectors (Lapesa et al., 2018). Second, from a theoretical perspective, the forms of pronouns are taken to predict their meanings, following the framework of the Discriminative Lexicon (Chuang & Baayen, 2021).

Using instance vectors in a computational implementation of the Discriminative Lexicon (Baayen et al., 2019), it was shown that plural *they* is comprehended significantly better than generic *they* (p < 0.001). Comparing the semantics of generic *they* to the semantics of the other pronouns, generic *they* appears to be a generic singular pronoun with remnants of plurality (cf. Table 1).

Predicting the semantics of generic *they* in a twofold fashion, the present findings provide not only a first account of its semantics, but also show that the Discriminative Lexicon is a framework fit to explore pronoun semantics.

Table 1. Mean similarities across pronoun semantics computed via cosine similarities. Higher values indicate higher similarities of vectors and, in turn, semantics.

	she	generic they	plural <i>they</i>	anyone	anybody
he	0.587	0.641	0.468	0.517	0.483
she		0.599	0.428	0.483	0.456
generic they			0.508	0.565	0.533
plural <i>they</i>				0.399	0.359
anyone					0.484

References

- Baayen, R. H., Chuang, Y.-Y., Shafaei-Bajestan, E., & Blevins, J. P. (2019). The discriminative lexicon: A unified computational model for the lexicon and lexical processing in comprehension and production grounded not in (de)composition but in linear discriminative learning. *Complexity*, 2019, 4895891. https://doi.org/10.1155/2019/4895891
- Chuang, Y.-Y., & Baayen, R. H. (2021). Discriminative learning and the lexicon: NDL and LDL. *Oxford Research Encyclopedia of Linguistics*. https://doi.org/10.1093/ACREFORE/9780199384655.013.375
- Conrod, K. (2020). Pronouns and gender in language. In *The Oxford Handbook of Language and Sexuality*. Oxford University Press. https://doi.org/10.1093/oxfordhb/9780190212926.013.63
- Lapesa, G., Kawaletz, L., Plag, I., Andreou, M., Kisselew, M., & Padó, S. (2018). Disambiguation of newly derived nominalizations in context: A Distributional Semantics approach. *Word Structure*, *11*(3), 277–312. https://doi.org/10.3366/word.2018.0131