

## Improving Distributional Similarity with Lessons Learned from Word Embeddings

Omer Levy, Yoav Goldberg, Ido Dagan • Transactions of the Association for Computational... • 2015

Recent trends suggest that neural-network-inspired **word embedding** models outperform traditional count-based distributional models on **word** similarity and analogy detection tasks. We reveal that much... [\(More\)](#)

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## Neural Word Embedding as Implicit Matrix Factorization

Omer Levy, Yoav Goldberg • NIPS • 2014

We analyze skip-gram with negative-sampling (SGNS), a **word embedding** method introduced by Mikolov et al., and show that it is implicitly factorizing a **word**-context matrix, whose cells are the... [\(More\)](#)

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## Dependency-Based Word Embeddings

Omer Levy, Yoav Goldberg • ACL • 2014

While continuous **word embeddings** are gaining popularity, current models are based solely on linear contexts. In this work, we generalize the skip-gram model with negative sampling introduced by... [\(More\)](#)

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## Massively Multilingual Word Embeddings

Waleed Ammar, George Mulcaire, Yulia Tsvetkov, Guillaume Lample, Chris Dyer, Noah A. Smith • ArXiv • 2016

We introduce new methods for estimating and evaluating **embeddings** of words from dozens of languages in a single shared **embedding** space. Our estimation methods, multiCluster and multiCCA, use... [\(More\)](#)

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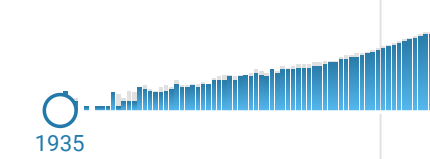
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References 1. Mikolov, T., Sutskever, I., Chen, K., Corrado, G. S., and Dean, J. Distributed representations of words and phrases and their compositionality. In NIPS, pp. 3111– 3119, 2013 2.... [\(More\)](#)

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We present a method that learns **word embedding** for Twitter sentiment classification in this paper. Most existing algorithms for learning continuous **word** representations typically only model the... [\(More\)](#)

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Tobias Schnabel, Igor Labutov, David M. Mimno, Thorsten Joachims • EMNLP • 2015

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