


**Skip-gram vs CBOW** (Continuous Bag-of-Words)





Algorithmically, these models are similar, except that CBOW predicts center words from context words, while the skip-gram does the inverse and predicts source context-words from the center words. For example, if we have the sentence: `"The quick brown fox jumps"`, then CBOW tries to predict `"brown"` from `"the"`, `"quick"`, `"fox"`, and `"jumps"`, while skip-gram tries to predict `"the"`, `"quick"`, `"fox"`, and `"jumps"` from `"brown"`.


Statistically it has the effect that CBOW smoothes over a lot of the distributional information (by treating an entire context as one observation). For the most part, this turns out to be a useful thing for smaller datasets. However, skip-gram treats each context-target pair as a new observation, and this tends to do better when we have larger datasets.

[code](#)



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