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	authors: • Wei Wang • Bin Bi • Ming Yan • Chen Wu • Zuyi Bao • Jiangnan Xia • Liwei Peng • Luo Si **title**: StructBERT: Incorporating Language Structures into Pre-training for Deep Language Understanding **publication_date**: 2019-08-13 00:00:00 **source**: SupportedSources.OPENALEX **journal**: arXiv (Cornell University) **volume**: **doi**: None **urls**: • https://openalex.org/W2966892770 • http://arxiv.org/pdf/1908.04577 **id**: id-4145271857151609018 **abstract**: **versions**:	**authors**: • Wei Wang • Bin Bi • Ming Yan • Chen Wu • Zuyi Bao • Jiangnan Xia • Liwei Peng • Luo Si **title**: StructBERT: Incorporating Language Structures into Pre-training for Deep Language Understanding **publication_date**: 2019-09-27 00:00:00 **source**: SupportedSources.INTERNET_ARCHIVE **journal**: **volume**: **doi**: **urls**: • https://web.archive.org/web/20200916135038/https://arxiv.org/pdf/1908.04577v3.pdf **id**: id-3009754849776420566 **abstract**: Recently, the pre-trained language model, BERT (and its robustly optimized version RoBERTa), has attracted a lot of attention in natural language understanding (NLU), and achieved state-of-the-art accuracy in various NLU tasks, such as sentiment classification, natural language inference, semantic textual similarity and question answering. Inspired by the linearization exploration work of Elman [8], we extend BERT to a new model, StructBERT, by incorporating language structures into pre-training. Specifically, we pre-train StructBERT with two auxiliary tasks to make the most of the sequential order of words and sentences, which leverage language structures at the word and sentence levels, respectively. As a result, the new model is adapted to different levels of language understanding required by downstream tasks. The StructBERT with structural pre-training gives surprisingly good empirical results on a variety of downstream tasks, including pushing the state-of-the-art on the GLUE benchmark to 89.0 (outperforming all published models), the F1 score on SQuAD v1.1 question answering to 93.0, the accuracy on SNLI to 91.7. **versions**:	NOT DUPLICATES	431