cases	doc_1		doc_2		decision	id
		 Dufter, Philipp Schýtze, Hinrich Yaghoobzadeh, Yadollah Zhao, Mengjie 	authors	 Mengjie Zhao Philipp Dufter Yadollah Yaghoobzadeh Hinrich Schýtze 		
	authors		title	Quantifying the Contextualization of Word Representations with Semantic Class Probing		
			publication_date	cation_date 2020-04-25 17:49:37+00:00		
	title	Quantifying the Contextualization of Word	source	SupportedSources.ARXIV		
		Representations with Semantic Class Probing	journal	None		
	publication_date 2020-01-01 00:00:00		volume		_	
	source	SupportedSources.CORE	doi		— DUPLICATES 2	S_{292}
	journal volume		urls	 http://arxiv.org/pdf/2004.12198v2 http://arxiv.org/abs/2004.12198v2 http://arxiv.org/pdf/2004.12198v2 		
	doi	10.5282/ubm/epub.74039				
	urls	https://core.ac.uk/download/338940879.pdf	id	id-2352285641861899816		
	id	id-5836597132871540519	abstract	Pretrained language models have achieved a new state of the art on many NLP tasks, but there are still many open questions about how and why they work so well. We investigate the contextualization of words in BERT. We quantify the amount of contextualization, i.e., how well words are interpreted in context, by studying	lying tation after	
	abstract	None		the extent to which semantic classes of a word can be inferred from its contextualized embeddings. Quantifying contextualization helps in understanding and utilizing pretrained language models. We show that top layer representations achieve high accuracy inferring semantic classes; that the strongest contextualization effects occur in the lower layers; that local context is mostly sufficient for semantic class inference; and that top layer representations are more task-specific after finetuning while lower layer representations are more transferable. Finetuning uncovers task related features, but pretrained knowledge is still largely preserved.		
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