

	In Vocabulary					Out-of-Vocabulary		
	while	his	you	richard	trading	computer-aided	misinformed	loooooook
LSTM-Word	although	your	conservatives	jonathan	advertised	—	—	—
	letting	her	we	robert	advertising	—	—	—
	though	my	guys	neil	turnover	—	—	—
	minute	their	i	nancy	turnover	—	—	—
LSTM-Char (before highway)	chile	this	your	hard	heading	computer-guided	informed	look
	whole	hhs	young	rich	training	computerized	performed	cook
	meanwhile	is	four	richer	reading	disk-drive	transformed	looks
	white	has	youth	richter	leading	computer	inform	shook
LSTM-Char (after highway)	meanwhile	hhs	we	eduard	trade	computer-guided	informed	look
	whole	this	your	gerard	training	computer-driven	performed	looks
	though	their	doug	edward	traded	computerized	outperformed	looked
	nevertheless	your	i	carl	trader	computer	transformed	looking

Table 6: Nearest neighbor words (based on cosine similarity) of word representations from the large word-level and character-level (before and after highway layers) models trained on the PTB. Last three words are OOV words, and therefore they do not have representations in the word-level model.