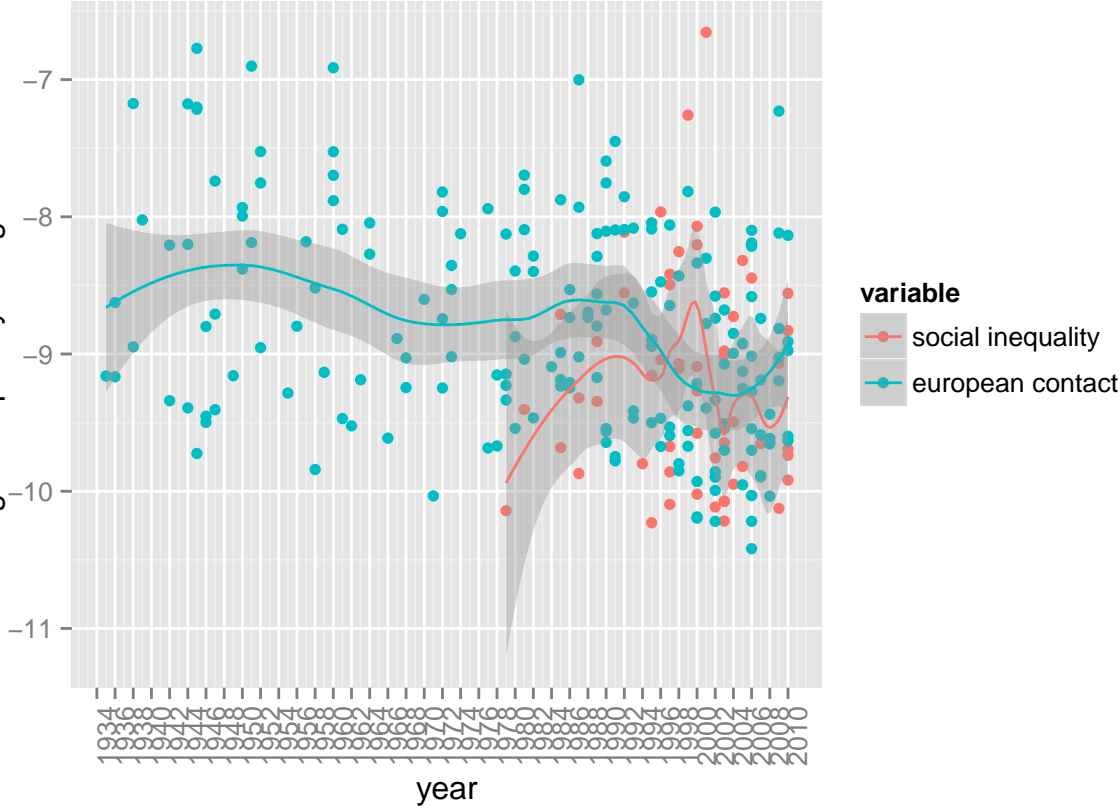


log of frequency of bigrams



year