t-SNE visualisations $(bert-large-uncased_imdb_\langle x,y\rangle_trained-params_dense-on_24-layers)$ after layer 3 after layer 1 after layer 2 after layer 4 100 100 100 100 50 50 50 50 0 -50-50 -50-50 -100-100-10050 50 0 50 100 -500 100 -500 100 50 100 -50-100 -50 -100 -100-100 after layer 5 after layer 6 after layer 8 after layer 7 100 100 100 100 50 50 50 50 0 -50-50 -50 **-**50 -100-100-50 50 100 -100-5050 100 -100-50 50 100 50 100 -100-100-50after layer 9 after layer 10 after layer 11 after layer 12 100 100 100 100 50 50 50 50 0 0 -50-50-50-100-100 -100-100100 -500 50 100 50 100 0 50 100 0 50 -100-100-500 -100-50-100-50after layer 13 after layer 14 after layer 15 after layer 16 100 100 100 100 50 50 50 50 -50 **-**50 -50 -50-100 -100 -100-100 -50 50 -50 50 -50 50 -50 0 50 -100 0 100 -1000 100 -1000 100 -100100 after layer 17 after layer 18 after layer 19 after layer 20 100 100 100 100 50 50 50 50 -50 -50 -50 -50 -100 | -100 -100 | -100 -100 --100 --50 0 50 100 -100 -50 0 50 100 -50 0 50 100 -100 -50 0 50 100 after layer 21 after layer 22 after layer 23 after layer 24 100 100 100 100 50 50 50 50 0 0 0 0 -50 -50 -50 -50

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