

The figure is a line graph illustrating the performance of various word embeddings across different dimensions (0 to 300). The y-axis represents a metric ranging from 0 to 1. A light blue line represents the theoretical curve  $y = x^{1/e}$ . Several embeddings are plotted, each with a unique color and a shaded confidence interval. The 'binder' embedding (yellow-green) starts at approximately 0.6 at dimension 0 and quickly approaches 1.0 by dimension 50. Other embeddings like 'wiki-news-300d-1M-subword.reduced' (blue), 'glove.840B.300d' (orange), and others start near 0 and follow a similar upward trend, converging towards the  $y = x^{1/e}$  curve as dimensions increase.

Dimensions	wiki-news-300d-1M-subword.reduced	glove.840B.300d	en.dedup.5pass.d5.t100.shuffled	en.dedup.5pass.d5.t100	en.dedup.5pass.d5.t100.minus_top100k	nl.dedup.5pass.d5.t100	de.dedup.5pass.d5.t100	fa.dedup.5pass.d5.t100	binder	Gaussian noise	$y = x^{1/e}$
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00
50	0.45	0.35	0.40	0.42	0.41	0.43	0.44	0.45	0.95	0.25	0.47
100	0.70	0.55	0.65	0.68	0.67	0.69	0.70	0.71	-	0.50	0.71
150	0.85	0.75	0.80	0.83	0.82	0.84	0.85	0.86	-	0.70	0.85
200	0.95	0.85	0.90	0.93	0.92	0.94	0.95	0.96	-	0.85	0.95
250	1.00	0.95	0.98	1.00	0.99	1.00	1.00	1.00	-	0.95	1.00
300	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	1.00	1.00

