

Datasets	Methods	Image to Sentence				Sentence to Image			
		R@1	R@5	R@10	Med r	R@1	R@5	R@10	Med r
Flickr 8K	DeViSE	4.8	16.5	27.3	28	5.9	20.1	29.6	29
	SDT-RNN	4.5	18.0	28.6	32	6.1	18.5	29.0	29
	DeFrag ^{+O}	12.6	32.9	44.0	14	9.7	29.6	42.5	15
	Kiros et al. ^A	13.5	36.2	45.7	13	10.4	31.0	43.7	14
	Kiros et al. ^V	18	40.9	55	8	12.5	37	51.5	10
	m-RNN ^A	14.5	37.2	48.5	11	11.5	31.0	42.4	15
	Mind's Eye ^V	17.3	42.5	57.4	7	15.4	40.6	50.1	8
	DeepVS ^{+O,V}	16.5	40.6	54.2	7.6	11.8	32.1	44.7	12.4
	NIC ^G	20	-	60	6	19	-	64	5
	Bi-LSTM ^A	21.3	44.7	56.5	6.5	15.1	37.8	50.1	9
	Bi-S-LSTM ^A	19.6	43.7	55.7	7	14.5	36.4	48.3	10.5
	Bi-F-LSTM ^A	19.9	44.0	56.0	7	14.9	37.4	49.8	10
	Bi-LSTM ^V	29.3	58.2	69.6	3	19.7	47.0	60.6	5
Flickr 30K	DeViSE	4.5	18.1	29.2	26	6.7	21.9	32.7	25
	SDT-RNN	9.6	29.8	41.1	16	8.9	29.8	41.1	16
	Kiros et al. ^A	14.8	39.2	50.9	10	11.8	34.0	46.3	13
	Kiros et al. ^V	23.0	50.7	62.9	5	16.8	42.0	56.5	8
	LRCN ^A	14	34.9	47	11	-	-	-	-
	NIC ^G	17	-	56	7	17	-	57	8
	m-RNN ^A	18.4	40.2	50.9	10	12.6	31.2	41.5	16
	Mind's Eye ^V	18.5	45.7	58.1	7	16.6	42.5	58.9	8
	DeFrag ^{+O}	16.4	40.2	54.7	8	10.3	31.4	44.5	13
	DeepVS ^{+O,V}	22.2	48.2	61.4	4.8	15.2	37.7	50.5	9.2
	Bi-LSTM ^A	18.7	41.2	52.6	8	14.0	34.0	44.0	14
	Bi-S-LSTM ^A	21	43.0	54.1	7	15.1	35.3	46.0	12
	Bi-F-LSTM ^A	20	44.4	55.2	7	15.1	35.8	46.8	12
	Bi-LSTM ^V	28.1	53.1	64.2	4	19.6	43.8	55.8	7
MSCOCO	DeepVS ^{+O,V}	16.5	39.2	52.0	9	10.7	29.6	42.2	14.0
	Bi-LSTM ^A	10.8	28.1	38.9	18	7.8	22.4	32.8	24
	Bi-S-LSTM ^A	13.4	33.1	44.7	13	9.4	26.5	37.7	19
	Bi-F-LSTM ^A	11.2	30	41.2	16	8.3	24.9	35.1	22
	Bi-LSTM ^V	16.6	39.4	52.4	9	11.6	30.9	43.4	13