





LRTA: A Transparent Neural-Symbolic Reasoning Framework with Modular **Supervision for Visual Question Answering**

amazon

	Experiments					
Model	Long Acc	Short Acc	Model	Long Acc	Short Acc	Model
Human	-	89.30%	LRTA trained w/ visual oracle			VB & PRPN masked
Bottom-up	-	49.74%	Evaluated w/o attributes	67.79%	78.21%	LXMERT
MAC	-	54.06%	Evaluated w/o relations	67.95%	75.47%	LRTA
LXMERT	28.00%	56.20%	Evaluated w/o attributes & relations	50.15%	61.15%	Attributes masked
LRTA	43.10%	54.48%	Evaluated w/ visual oracle	85.99%	93.10%	LXMERT
Table 1: End-to-end training			LRTA trained w/ reading oracle			LRTA
experiment on testdev set		dev set	Evaluated w/ reading oracle	55.45%	64.36%	Table 3: Perturbatio