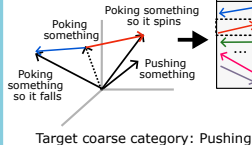


Modifier Retrieval

Original Classification Head

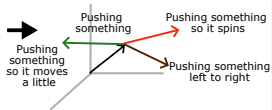


Modifier Dictionary

Modifier Vectors	Category Label	Modifier Text	Similarity
	Poking something so it falls	so it falls	
	Poking something so it spins	so it spins	
	Poking something so it slightly moves	so it slightly moves	
	
	Holding something behind something	behind something	
	Holding something next to something	next to something	

Fine-Grained Subcategories	Modifier Text
Pushing something so it spins	so it spins
Pushing something so it moves a little	moves a little
Pushing something left to right	left to right

Edited Classification Head



Modifier Alignment

Modifier Text	Modifier Vectors
so it falls	
so it spins	
behind something	
...	
next to something	

+

(Pseudo-)Category Labels	Weight Vectors
Pushing something	
Poking something so it spins	
Poking something	
...	
Dropping something	

Modifier pairs

Category pairs

Training



Inference

Predictions

Edited Classification Head

