





The Problem

Humans use both abstract and concrete words to express feelings, desires, and observable properties. However, Vision-Language Models (VLMs) are primarily pretrained on concrete-oriented web-image texts, underrepresenting abstract concepts.

Concrete-oriented

"A sleeveless top with crochet bodice and loose waist"



Abstract-oriented

"Opt for something a little different, such as this sexy top! This sleeveless number features a stunning crochet bodice, followed by loose, airy fabric"



The Concreteness Gap



Seeing the Abstract: Translating the Abstract Language for Vision Language Models

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ces	Abst	Abstract occurrences								
er desc.	Unique	Total	Per desc.							
uth dat	a									
3	716	14,045	3							
2	2019	194,528	2							
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properties not perceivable with the senses. ACT better leverages them using a training-free strategy.

Abstract-to-Concrete Translator (ACT)

Construct Abstract-Concrete paired data to learn the representation shift. At inference, augment abstract description embeddings according to the shift.



TL;DR

- VLMs struggle to handle abstract-oriented adjectives, i.e.

						Re	sults					
	CT retri	eval i	s cor	npet	itive	on sa	ame/cros	s-datas	et settir	ngs		
	CT brid	ges tł	ne lat	ent r	repre	esenta	ation of d	escripti	ons for	differen	t VLMs	
	CT allow	ws fo	r effe	ctive	and	flexi	ole retriev	al with	abstrac	ts		
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F-CLIP-ft-facad	.060	.206 209	.295 298	.295 298	.526 542	.631 649	A t-shirt with					
ACT-facad (Ours	s) .087	.302	.298 .407	.428	.661	.049 .754	happy colors	NEREN				

Model	Backbon	e R@1	R@5	R@10	H@1	H@5		6				
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