SugarCrepe	SugarCrepe is a benchmark for faithful vision-language compositionality evaluation. Given an image, a model is required to select the <i>positive</i> text that correctly describes the image, against another <i>hard negative</i> text distractor that differs from the positive text only by small compositional changes.
DATASET LINK	DATA CARD AUTHOR(S)
Dataset: github.com/RAIVNLab/sugar-crepe	Cheng-Yu Hsieh*, University of Washington Jieyu Zhang*, University of Washington Zixian Ma, University of Washington Aniruddha Kembhavi, Allen Institute for Artificial Intelligence Ranjay Krishna, University of Washington

Dataset Overview			
DATA SUBJECT(S)	DATASET SNAPSHOT		CONTENT DESCRIPTION
Sensitive Data about	Size of Dataset	2.7 MB	Each example consists of an image, a positive text caption, and a hard
people	Number of Instances	12264	negative caption.
Non-Sensitive Data about people	Number of Fields	3	
Data about natural	Labeled Classes	N/A	
phenomena	Number of Labels	N/A	
Data about places and objects	Average Labels Per Instance	N/A	
	Algorithmic Labels	N/A	
Synthetically generated data	Human Labels	N/A	
Data about systems or	Other Characteristics	N/A	
products and their behaviors			
Unknown			
Others (Please specify)			
Sensitivity of Data			
SENSITIVITY TYPE(S)	FIELD(S) WITH SENSITIVE DATA		SECURITY AND PRIVACY HANDLING

User Content User Metadata User Activity Data Identifiable Data S/PII Business Data Employee Data Pseudonymous Data Anonymous Data Health Data Children's Data None Others (Please specify)	N/A	N/A	
RISK TYPE(S)	SUPPLEMENTAL LINK(S)	RISK(S) AND MITIGATION(S)	
Direct Risk Indirect Risk Residual Risk No Known Risks Others (Please Specify)	N/A	N/A	
Dataset Version and Maintenance			
MAINTENANCE STATUS	VERSION DETAILS	MAINTENANCE PLAN	
Regularly Updated (New versions of the dataset have been or will continue to be made available.)	Current Version: 1.0 Last Updated: 06/2023 Release Date: 06/2023	We are committed and have resources to maintain the dataset. Versioning: N/A Updates: Dataset may be updated to address technical issues. Errors: We actively monitor issues at github.com/RAIVNLab/sugar-crepe	

Actively Maintained (No new versions will be made available, but this dataset will be actively maintained, including but not limited to updates to the data.) Limited Maintenance (The data will not be updated, but any technical issues will be addressed.) Deprecated (This dataset is obsolete or is no longer being maintained.)		Feedback: We actively monitor issues at github.com/RAIVNLab/sugar-crepe
	NEXT PLANNED UPDATE(S)	EXPECTED CHANGE(S)
	N/A	N/A

Example of Data Points PRIMARY DATA SAMPLING OF DATA **DATA FIELDS MODALITY POINTS** [Typical Data Point Link] Image Data github.com/RAIVNLab/su **Field Name** Field Value Description gar-crepe/tree/main/data **Text Data** filename The id to an string **Tabular Data** image **Audio Data** caption Positive text string correctly Video Data describing the image **Time Series** negative_ca string Hard negative **Graph Data** ption text incorrectly describing the **Geospatial Data** image Multimodal (Image and Text Data) Unknown Others (Please specify) ATYPICAL DATA POINT TYPICAL DATA POINT N/A "filename": "000000289393.jpg", "caption": "Several toy animals - a bull, giraffe, deer and parakeet.", "negative_caption": "Several toy animals - a bull, giraffe, snake and parakeet." }

Motivations & Intentions

Motivations

PURPOSE(S)	DOMAIN(S) OF APPLICATION	MOTIVATING FACTOR(S)
Monitoring Research Production Others (Please Specify)	Machine Learning, Computer Vision, Natural Language Processing, Vision-Language Models, Compositional Understanding	 Faithfully evaluating compositionality of vision-language models.

Intended Use

DATASET USE(S)	SUITABLE USE CASE(S)	UNSUITABLE USE CASE(S)
Safe for production use Safe for research use Conditional use-	 Evaluate the compositionality of vision-language models. 	N/A
some unsafe applications		
Only approved use		
Others (Please specify)		
LICENSING	RESEARCH AND PROBLEM SPACE(S)	CITATION GUIDELINES
We license our work	Evaluate the compositionality of	BiBTeX:
using MIT License. All the source data we use is publicly released by prior work.	<pre>"" @article{hsieh2023sugarcrepe, title={SugarCrepe: Fixing Hackable Benchmarks for Vision-Language Compositionality}, author={Hsieh, Cheng-Yu and Zhang, Jieyu and Ma, Zixian and Kembhavi, Aniruddha and Krishna, Ranjay}, year={2023}, }</pre>	