

Collecting Culturally Nuanced Image Data: Case Study with CVQA and SEA-VL



CVQA: Culturally-diverse Multilingual Visual Question Answering Benchmark

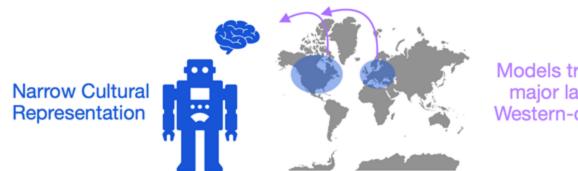
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> Core Authors (MBZUAI) www.cvqa-benchmark.org



Current Models Reflect a Narrow Cultural Representation

- MLLMs are trained with data that is primarily focused on few major languages and western-centric cultures.
- This narrow representation makes them **biased**, have a limited world view, **poor** cultural knowledge and exhibit linguistic **imbalances**.



Models trained with few major languages and Western-centric cultures



Current Models Reflect a Narrow Cultural Representation

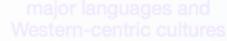
- MLLMs are trained with data that is
- This narrow representation makes linguistic imbalances.



Every institution, library, foundation, cultural group, and government around the world that possesses cultural content should make it available for training ***free and open*** Al foundation models.

Free and open AI systems will constitute the repository of all human knowledge and culture.

Narrow Cultural Representation





MS-COCO



... unusual bathroom ...



... exotic fruits ...

... weird looking vehicle...



CVQA: Culturally-diverse Multilingual VQA Benchmark



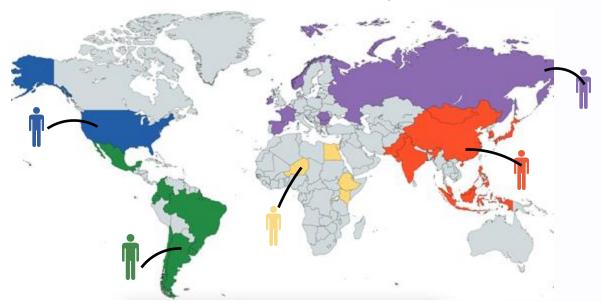
- CVQA is a multilingual, multiple-choice locally-nuanced visual question-answering dataset.
- CVQA includes culturally-driven images and questions from across 30 countries on 4 continents.
- Covering 31 languages with 13 scripts, providing a benchmark with 10k questions.



Annotation Process

- CVQA follows a **crowd-sourcing collaboration approach**. We collaborated across communities. Annotators belong to various **NLP groups**, are fluent speakers and accustomed to the cultures of the locations

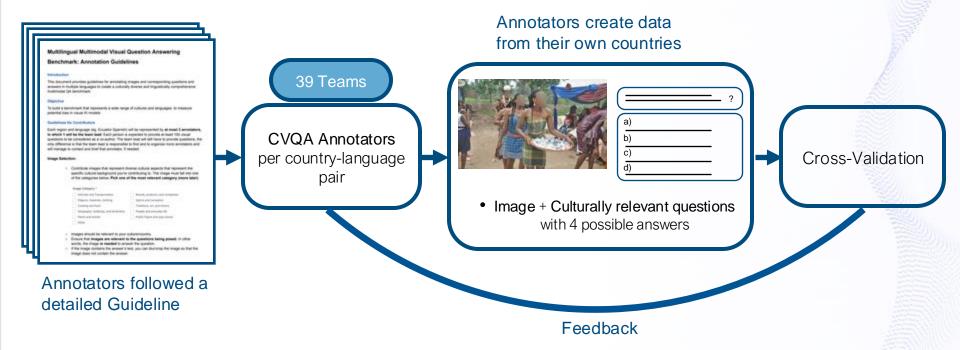
We collaborated with various NLP groups





Annotation Process

- We group CVQA into Country-Language pairs, rather than simply on language or location.
- We developed concise annotation guidelines that are suitable for all Country-Language subset teams





Data Collection Design

Multilingual Multimodal Visual Question Answering

Benchmark: Annotation Guidelines

Introduction

This document provides guidelines for annotating images and corresponding questions and answers in multiple languages to create a culturally diverse and linguistically comprehensive multimodal QA benchmark.

Objective

To build a benchmark that represents a wide range of cultures and languages, to measure potential bias in visual Al models.

Guidelines for Contributors

Each region and language (eg. Ecuador-Spanish) will be represented by at most 3 annotators, in which 1 will be the team lead. Each person is expected to provide at least 100 visual questions to be considered as a co-author. The team lead will still have to provide questions, the only difference is that the team lead is responsible to find and to organize more annotators and will manage to contact and brief that annotator, if needed.

Image Selection:

 Contribute images that represent diverse cultural aspects that represent the specific cultural background you're contributing to. The image must fall into one of the categories below. Pick one of the most relevant category (more later).

Image Category * Whicles and Transportation

Other

Cooking and food

Geography, buildings, and landmarks
Plants and animal

Brands, products, and companies Sports and recreation Traditions, art, and history People and everyday life Public Figure and one culture

\rightarrow

Image Selection and Preparation:

- Images have to depict diverse cultural aspects.
- Self-made images are recommended but external images are allowed.
- Anonymize faces and text that can leak the answer.

Question Creation:

- Questions have to be culturally relevant.
- To answer the question, the image must be required.
- The questions need to be answerable without the multiple choices.



Data Collection Design

- We gathered images and created question-answer pairs based on the cultures of various locations. The question-answer pairs were created in their respective local languages, along with parallel English translations
- CVQA uses **common knowledge** as a proxy of culture, we define the following categories:

Categories

- 1. Vehicles and Transportation
- 2. Cooking and Food
- 3. People and Everyday Life
- 4. Sports and Recreation
- 5. Plants and Animals
- 6. Objects, Materials and Clothing
- 7. Brands and Products
- 8. Geography, Buildings, and Landmarks
- 9. Tradition, Art and History
- 10. Public Figure and Pop-Culture





CVQA Samples

Igbo - Nigeria



Category: Tradition/ Art / History - Igbo/Nigeria

Kedu mmemme ndi a na-eme? (Which ceremony are they doing?)

- A. I gba nkwu (Traditional marriage)
- B. Ncheta Omumu (Birthday)
- C. Emume cheiftaincy (Chieftaincy ceremony)
- D. Emume iri ji ohuru (New yam festival)

Malay - Malaysian



Category: People and everyday life - Malay/Malaysian

Roh manakah yang disembah dengan altar ini? (Which deity is worshiped on this altar?)

- A. Datuk Gong (Na Tuk Kong)
- Buddha (Buddha)
- C. Brahma (Brahma)
- D. Vishnu (Vishnu)

Spanish - Mexico



Category:Tradition / Art / History - Spanish/Mexico

¿Qué se muestra en la imagen? (What is shown in the image?)

- A. el calendario azteca/ piedra del sol (the aztec calendar/ aztec sun stone)
- B. una serpiente azteca (an aztec serpent)
- C. coatlicue (coatlicue)
- D. tláloc (tlaloc)

Korean - South Korea



Category: Object, Clothing, and Material - Korean/South Korea

이런 종류의 요리에 사용되는 그릇을 무엇이라고 부르나요? (What is this type of bowl called in cooking?)

- A. 돌솥 (Dolsot)
- 복주머니 (Bokjumeoni)
- C. 냄비 (Pot)
- D. 팬 (Pan)



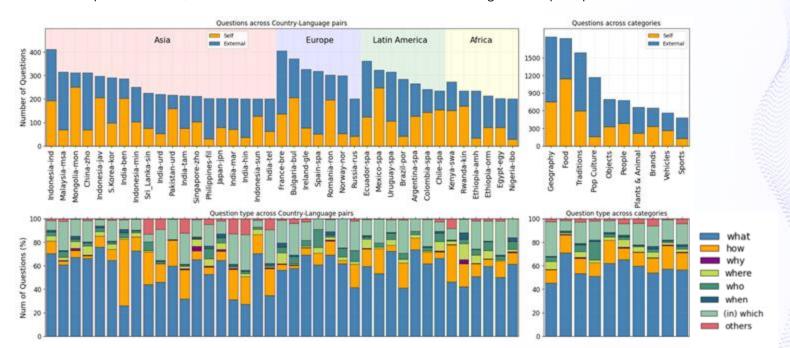
CVQA: Data Statistics

No. of countries: 30No. of languages: 31No. of images: 5,239

• No. of questions: 10,374

No. of scripts: 13
No. of country-language pair: 39
Avg. questions per image: 1.98

• Avg. words per question: 7.6





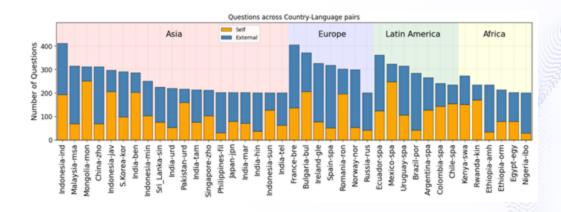
CVQA: Data Statistics

Country	Language	Script							
Africa									
Egypt	Egyptian Arabic	Arabic							
Ethiopia	Amharic	Amharic							
Ethiopia	Oromo	Latin							
Kenya	Swahili	Latin							
Nigeria	Igbo	Latin							
Rwanda	Kinyarwanda	Latin							
	Asia								
China	Chinese	Chinese							
India	Bengali	Bengali							
India	Hindi	Devanagari							
India	Marathi	Devanagari							
India	Tamil	Tamil							
India	Telugu	Telugu							
India	Urdu	Perso-Arabic							
Indonesia	Indonesian	Latin							
Indonesia	Javanese	Latin							
Indonesia	Minangkabau	Latin							
Indonesia	Sundanese	Latin							
Japan	Japanese	Japanese							
South Korea	Korean	Hangul							
Malaysia	Malay	Latin							
Mongolia	Mongolian	Cyrillic							
Pakistan	Urdu	Perso-Arabic							
Philippines	Filipino	Latin							
Singapore	Chinese	Chinese							
Sri Lanka	Sinhala	Sinhalese							
OTT ESSENDE	Europe	Diminutese							
Bulgaria	Bulgarian	Cyrillic							
France	Breton	Latin							
Ireland	Irish	Latin							
Norway	Norwegian	Latin							
Romania	Romanian	Latin							
Russia	Russian	Cyrillic							
Spain	Spanish	Latin							
Opum	Latin America	Lantin							
Argentina	Spanish	Latin							
Brazil	Portuguese	Latin							
Chile	Spanish	Latin							
Colombia	Spanish	Latin							
Ecuador	Spanish	Latin							
Mexico	Spanish	Latin							
Uruguay	Spanish	Latin							
windstan.		A. COLLEGE							

No. of countries: 30

• No. of languages: 31

• No. of scripts: 13



CVQA covers several less commonly studied languages and regions

- Ireland-Irish
- Indonesia-Minangkabau
- India-Tamil
- France-Breton
- Nigeria-Igbo
- Mongolia-Mongolian

- Kenya-Swahili
- Egypt-Egyptian Arabic
- Ecuador-Spanish
- Argentina-Spanish
- Brazil-Portuguese
- South Korea Korean



Evaluation of Open and Closed-source Models

- Among open models, LLaVa achieves the best performances but still significantly behind closed models.
- All models obtain worse performances when the question is asked in local languages, emphasizing the models
 lower capability in handling non-English prompts.

Table 3: Average performance of MLLMs on our CVQA dataset with English prompts (EN) and local language prompts (LOC).

L	LaVA	A-1.5-7B				LIP				P-BLOOMZ				i-1.5-Flash	GP	T-40
F	EN	LOC	EN	LOC	EN	LOC	EN	LOC	EN	LOC	EN	LOC	EN	LOC	EN	LOC
4	9.6	35.5	38.0	33.7	42.7	30.6	31.3	30.9	39.3	32.7	49.0	31.9	66.9	68.5	75.4	74.3



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LLaV	1-1.5-7B	М-(CLIP	C	LIP	mBLI	P-mT0	mBLII	P-BLOOM	Z	Instru	ctBLIP	Gemin	i-1.5-Flash	GP	T-40
EN	LOC	EN	LOC	EN	LOC	EN	LOC	EN	LOC		EN	LOC	EN	LOC	EN	LOC
49.6	35.5	38.0	33.7	42.7	30.6	31.3	30.9	39.3	32.7		49.0	31.9	66.9	68.5	75.4	74.3
										_						



Performance per Country-Language Pair

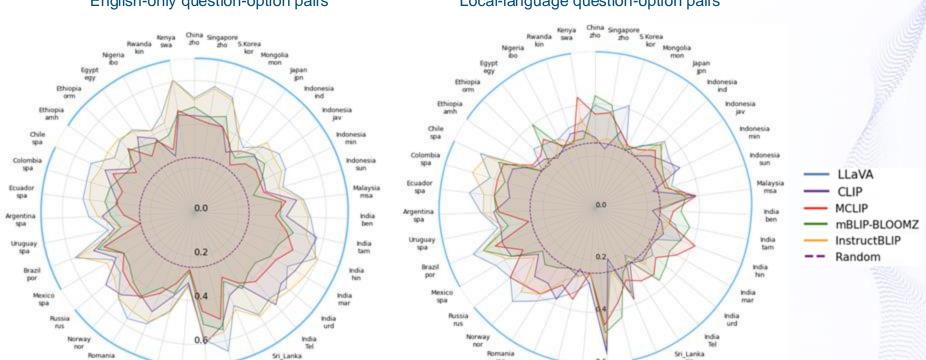


Philippines

Local-language question-option pairs

France

Spain





Performance across Categories

- People and Everyday life achieves the best accuracies across most of the models.
- Cooking & Food and Pop culture exhibit low accuracies, demonstrating that the high diversity of these categories across different cultures poses a great challenge for MLLMs.

Table 5: Accuracy of models across categories. Per category, the best performing models on English (EN) and local language (LOC) question-option pairs are bolded and underlined, respectively.

Catananian	LLaV	A-1.5-7B	M-CLIP		CLIP		mBLIP-mT0		mBLIP-BLOOMZ		InstructBLIP	
Categories	EN	LOC	EN	LOC	EN	LOC	EN	LOC	EN	LOC	EN	LOC
Brands	49.9	36.5	37.2	35.7	36.6	29.7	33.7	30.8	40.5	35.1	48.4	32.6
Food	45.4	31.9	34.5	29.1	39.2	30.4	28.1	27.6	37.7	29.8	44.4	30.6
Geography	47.1	38.2	37.1	34.2	41.8	31.9	30.6	31.6	35.0	32.3	45.3	33.2
Objects	51.8	33.0	39.4	34.5	39.7	25.4	34.3	33.0	43.1	34.0	52.3	29.1
People	58.9	38.1	45.0	37.8	46.8	30.9	35.3	34.7	46.3	36.7	59.8	34.0
Plants & Animals	55.7	37.5	43.7	32.0	48.0	27.2	35.2	35.5	46.0	36.0	55.4	35.1
Pop Culture	44.5	36.3	33.7	31.5	46.1	36.3	28.8	29.9	35.7	30.7	45.1	34.6
Sports	50.7	39.1	39.3	33.3	43.5	32.4	32.6	31.4	40.1	34.9	50.5	34.7
Tradition	50.4	35.8	37.0	35.2	41.9	32.2	31.6	31.5	39.0	32.2	47.9	30.8
Vehicles	50.6	41.4	39.5	41.1	44.6	30.5	35.6	33.9	42.0	34.0	55.0	33.0



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LLaV	LLaVA-1.5-7B		M-CLIP		CLIP		mBLIP-mT0		mBLIP-BLOOMZ		ctBLIP
EN	LOC	EN	LOC	EN	roc	$\mathbf{E}\mathbf{N}$	LOC	EN	LOC	EN	LOC
49.9	36.5	37.2	35.7	36.6	29.7	33.7	30.8	40.5	35.1	48.4	32.6
45.4	31.9	34.5	29.1	39.2	30.4	28.1	27.6	37.7	29.8	44.4	30.6
47.1	38.2	37.1	34.2	41.8	31.9	30.6	31.6	35.0	32.3	45.3	33.2
51.8	33.0	39.4	34.5	39.7	25.4	34.3	33.0	43.1	34.0	52.3	29.1
58.9	38.1	45.0	37.8	46.8	30.9	35.3	34.7	46.3	36.7	59.8	34.0
55.7	37.5	43.7	32.0	48.0	27.2	35.2	35.5	46.0	36.0	55.4	35.1
44.5	36.3	33.7	31.5	46.1	36.3	28.8	29.9	35.7	30.7	45.1	34.6
50.7	39.1	39.3	33.3	43.5	32.4	32.6	31.4	40.1	34.9	50.5	34.7
50.4	35.8	37.0	35.2	41.9	32.2	31.6	31.5	39.0	32.2	47.9	30.8
50.6	41.4	39.5	41.1	44.6	30.5	35.6	33.9	42.0	34.0	55.0	33.0
	49.9 45.4 47.1 51.8 58.9 55.7 44.5 50.7 50.4	EN LOC 49.9 36.5 45.4 31.9 47.1 38.2 51.8 33.0 58.9 38.1 55.7 37.5 44.5 36.3 50.7 39.1 50.4 35.8	EN LOC EN 49.9 36.5 37.2 45.4 31.9 34.5 47.1 38.2 37.1 51.8 33.0 39.4 58.9 38.1 45.0 55.7 37.5 43.7 44.5 36.3 33.7 50.7 39.1 39.3 50.4 35.8 37.0	EN LOC EN LOC 49.9 36.5 37.2 35.7 45.4 31.9 34.5 29.1 47.1 38.2 37.1 34.2 51.8 33.0 39.4 34.5 58.9 38.1 45.0 37.8 55.7 37.5 43.7 32.0 44.5 36.3 33.7 31.5 50.7 39.1 39.3 33.3 50.4 35.8 37.0 35.2	EN LOC EN LOC EN 49.9 36.5 37.2 35.7 36.6 45.4 31.9 34.5 29.1 39.2 47.1 38.2 37.1 34.2 41.8 51.8 33.0 39.4 34.5 39.7 58.9 38.1 45.0 37.8 46.8 55.7 37.5 43.7 32.0 48.0 44.5 36.3 33.7 31.5 46.1 50.7 39.1 39.3 33.3 43.5 50.4 35.8 37.0 35.2 41.9	EN LOC EN LOC 49.9 36.5 37.2 35.7 36.6 29.7 45.4 31.9 34.5 29.1 39.2 30.4 47.1 38.2 37.1 34.2 41.8 31.9 51.8 33.0 39.4 34.5 39.7 25.4 58.9 38.1 45.0 37.8 46.8 30.9 55.7 37.5 43.7 32.0 48.0 27.2 44.5 36.3 33.7 31.5 46.1 36.3 50.7 39.1 39.3 33.3 43.5 32.4 50.4 35.8 37.0 35.2 41.9 32.2	EN LOC EN LOC EN 49.9 36.5 37.2 35.7 36.6 29.7 33.7 45.4 31.9 34.5 29.1 39.2 30.4 28.1 47.1 38.2 37.1 34.2 41.8 31.9 30.6 51.8 33.0 39.4 34.5 39.7 25.4 34.3 58.9 38.1 45.0 37.8 46.8 30.9 35.3 55.7 37.5 43.7 32.0 48.0 27.2 35.2 44.5 36.3 33.7 31.5 46.1 36.3 28.8 50.7 39.1 39.3 33.3 43.5 32.4 32.6 50.4 35.8 37.0 35.2 41.9 32.2 31.6	EN LOC EN LOC EN LOC EN LOC 49.9 36.5 37.2 35.7 36.6 29.7 33.7 30.8 45.4 31.9 34.5 29.1 39.2 30.4 28.1 27.6 47.1 38.2 37.1 34.2 41.8 31.9 30.6 31.6 51.8 33.0 39.4 34.5 39.7 25.4 34.3 33.0 58.9 38.1 45.0 37.8 46.8 30.9 35.3 34.7 55.7 37.5 43.7 32.0 48.0 27.2 35.2 35.5 44.5 36.3 33.7 31.5 46.1 36.3 28.8 29.9 50.7 39.1 39.3 33.3 43.5 32.4 32.6 31.4 50.4 35.8 37.0 35.2 41.9 32.2 31.6 31.5	EN LOC EN LOC EN LOC EN 49.9 36.5 37.2 35.7 36.6 29.7 33.7 30.8 40.5 45.4 31.9 34.5 29.1 39.2 30.4 28.1 27.6 37.7 47.1 38.2 37.1 34.2 41.8 31.9 30.6 31.6 35.0 51.8 33.0 39.4 34.5 39.7 25.4 34.3 33.0 43.1 58.9 38.1 45.0 37.8 46.8 30.9 35.3 34.7 46.3 55.7 37.5 43.7 32.0 48.0 27.2 35.2 35.5 46.0 44.5 36.3 33.7 31.5 46.1 36.3 28.8 29.9 35.7 50.7 39.1 39.3 33.3 43.5 32.4 32.6 31.4 40.1 50.4 35.8 37.0 35.2 41.9 32.2	EN LOC EN LOC EN LOC EN LOC 49.9 36.5 37.2 35.7 36.6 29.7 33.7 30.8 40.5 35.1 45.4 31.9 34.5 29.1 39.2 30.4 28.1 27.6 37.7 29.8 47.1 38.2 37.1 34.2 41.8 31.9 30.6 31.6 35.0 32.3 51.8 33.0 39.4 34.5 39.7 25.4 34.3 33.0 43.1 34.0 58.9 38.1 45.0 37.8 46.8 30.9 35.3 34.7 46.3 36.7 55.7 37.5 43.7 32.0 48.0 27.2 35.2 35.5 46.0 36.0 44.5 36.3 33.7 31.5 46.1 36.3 28.8 29.9 35.7 30.7 50.7 39.1 39.3 33.3 43.5 32.4 32.6 31.4	EN LOC EN LOC EN LOC EN LOC EN LOC EN 49.9 36.5 37.2 35.7 36.6 29.7 33.7 30.8 40.5 35.1 48.4 45.4 31.9 34.5 29.1 39.2 30.4 28.1 27.6 37.7 29.8 44.4 47.1 38.2 37.1 34.2 41.8 31.9 30.6 31.6 35.0 32.3 45.3 51.8 33.0 39.4 34.5 39.7 25.4 34.3 33.0 43.1 34.0 52.3 58.9 38.1 45.0 37.8 46.8 30.9 35.3 34.7 46.3 36.7 59.8 55.7 37.5 43.7 32.0 48.0 27.2 35.2 35.5 46.0 36.0 55.4 44.5 36.3 33.7 31.5 46.1 36.3 28.8 29.9 35.7 30.7



Performance across Image Source

- For self-made images, the performance of LLaVa and CLIP tends to be lower compared to web images.
- While this is not consistent across all models, this indicate that web-images might be more representative of the
 data used to train these models.

Table 6: Accuracy of different models divided by image source

Image Source	LLaVA-1.5-7B		LLaVA-1.5-7B M-CLIP		Cl	LIP			mBLIP-BLOOMZ		InstructBLIP	
	EN	LOC	EN	LOC	EN	LOC	EN	LOC	EN	LOC	EN	LOC
Self-made Image	48.8					30.1		31.5	40.1	33.4	48.3	31.5
Web Image	49.7	37.4	37.4	33.3	43.1	31.8	31.9	31.2	38.7	32.3	49.1	33.1



Paper, Data and Leaderboard



Paper



Data



Leaderboard

Labels are Open !!

SFA-VI

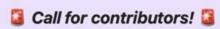


Welcome to SEACrowd!



We are a community dedicated to bridging the gap between multilingual Al and Southeast Asian AI and enhancing the quality of AI research and researchers in the region.

See what indigenous and non-indigenous languages are under our study.



Following the success of our SEACrowd project, we're excited to announce SEA-VL, a new open-source initiative to create high-quality vision-language datasets for Southeast Asian (SEA) languages! Check it out here.

Data Collection Scheme

Task 1: Submit a SEA Culturally-Relevant Image (1-2 points per photo)

Submission is simple! Just go to this form and provide your <u>self-taken, culturally relevant</u> photo with a brief description.

Points:

- 2 points 1 point for images from Indonesia, Singapore, and Phillippines
- 3 points 1.5 points for images from Thailand, Malaysia, and Vietnam
- 4 points 2 points for images from Brunei, East Timor, Cambodia, Laos, Myanmar

Task 2: Review Image-Description Pairs (1 point per review)

To participate in reviewing, contributors must first pass this short screening test. Check our annotation guideline to learn more!

Authorship

Why Contribute?

As with SEACrowd, every contribution to SEA-VL will earn points. Reaching <u>200 points</u> in Phase 1 will guarantee <u>co-authorship in our publication for ACL 2025</u>. You'll also be eligible for <u>our exclusive merch</u> once you surpass <u>300 points</u> in Phase 1!

Example: Image Tracking

[SEA-VL] SEA Culturally-Relevant Image Collection (Responses) : Monitor

What kind of images have we collected?

Based on image location:

Brunei: 61, Cambodia: 63, East Timor: 9, Indonesia: 1917, Laos: 76, Malaysia: 309, Myanmar: 5, Phillippines: 85, Singapore: 1168, Thailand: 832, Vietnam: 381, Others: 228

No	Submission time	Image location	Image caption (English)
5134	23 Jan 2025	Phoenix, United States	Bengbeng, a chocolate snack from Indonesia
5133	23 Jan 2025	Phoenix, United States	Soto ayam with boiled egg
5132	23 Jan 2025	Victoria, Canada	Peanut sauce chicken satay with lontong and acar
5131	23 Jan 2025	Urbana, United States	Rupiah bank notes when Indonesia was under Japanese occupation
5130	23 Jan 2025	Urbana, United States	A picture of Garuda Pancasila, Indonesian national emblem, a picture of Soekarno, and old Rupiah bank notes
5129	23 Jan 2025	Urbana, United States	A keris, its sheath, and the belt used to hold it
5128	23 Jan 2025	Urbana, United States	A keris decorated by agates along with its sheath
5127	23 Jan 2025	Urbana, United States	Tenun machine from Indonesia used to weave songket
5126	23 Jan 2025	St Louis, United States	Orangutan, an animal native to Kalimantan Island
5125	23 Jan 2025	Urbana, United States	Malam and canting used to make batik

Example: Image Validation



ls photo quali	ty OK?
Yes ^[1]	
Unsure ^[≥]	
○ No ^[3]	
The image po	rtrays culturally-relevant information in:
Vietnam	
The image wa	s taken in (City, Country):
Hanoi, Vietnam	
Is the image o	culturally relevant in South-East Asia?
Yes. Unique to SE	A _c [4]
Yes, people will like	ely think of SEA when seeing the picture, but it may have low degree of similarity to other cultures. ^[5]
Maybe, this culture	e did not originate from SEA, but it's quite dominant in SEA. [6]
Not really. It has s	ome affiliation to SEA, but actually does not represent SEA or has stronger affiliation to cultures outside SEA. ^[7]
No. Totally unrelat	ed to SEA. ^[8]
How do you k	now about this culture?
Please do not con	sult LLMs (e.g., GPT-4o, Claude, Command-R, etc.)
I'm from this coun	try/culture. ^[9]
I checked online re	esources (e.g., Wikipedia, articles, blogs).[0]

Challenges and Conclusion

- Community-based image collection enables us to collect data across diverse culture
- Scale up is difficult
- Ensuring quality needs effort; proper data validation, proper annotation guideline; ensure the annotators are motivated