# A Kinyarwanda Physical Commonsense Reasoning Dataset for MRL 2025

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Physical commonsense reasoning is a crucial challenge for natural language understanding. While resources such as PIQA exist for English, there is limited availability for African languages. To address this gap, we present a manually annotated dataset of physical commonsense reasoning questions in Kinyarwanda, created for the MRL 2025 shared task. my dataset contains around 150 examples, each consisting of a prompt with two candidate solutions, where one option reflects physically plausible reasoning and the other is implausible.

## **Language Details**

The dataset is written in Kinyarwanda, the national language of Rwanda. I used the standard dialect spoken in education and media. All examples were created and verified by native speakers to ensure naturalness and correctness.

## **Dataset Creation Process**

I followed a manual construction approach: **Prompt writing**: Authors generated everyday physical reasoning scenarios (e.g., drying clothes, heating food, moving objects). **Candidate solutions**: Each prompt has two possible solutions, one correct and one incorrect. **Annotation**: Each example was labeled with 0 or 1 to indicate the correct solution. **Verification**: At least two native speakers checked each example for clarity and accuracy.

#### **Dataset Statistics**

Total examples: 150

Domain coverage: Household activities, tools and objects, food, transportation, and weather. Format: Tab-separated values (.tsv) file with the following columns: prompt, solution0, solution1, label.

prompt	solution0	solution1	label
Ugomba gukata imboga. Ukoresha iki?	Umupanga	Ikibaho	0
Umwana arashonje. Icyo umuha ni iki?	Ibiryo	Amavuta yo kwisiga	0

## Limitations and Future Work

My dataset is relatively small compared to English benchmarks. Future work will expand coverage to include more diverse domains and possibly multi-turn reasoning. I also plan to add translations to facilitate multilingual evaluation.

#### Conclusion

I introduce a new dataset for evaluating physical commonsense reasoning in Kinyarwanda. I hope this resource will encourage the development of models that perform well across African languages and contribute to multilingual commonsense research.