

NAIJARC: A MULTI-CHOICE READING COMPREHENSION DATASET FOR NIGERIAN LANGUAGES

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Introduction Reading Comprehension (RC) requires the ability to read a text and demonstrate understanding by answering questions about it. This requires high-level reasoning, an understanding of natural language, and general real-world based knowledge for machines to deliver high-performance results. Developing AI models capable of understanding long paragraphs and answering questions is a major challenge, especially for under-resourced languages. With the quest to improve the machine performance of reading comprehension, there have been several efforts towards curation and acquisition of datasets (Bajgar et al., 2016; Lai et al., 2017; Kočiský et al., 2018; Xuan-Quy et al., 2023). However, many of these works are either in English or do not include any African languages.

With a special lens on African languages, there has recently been a concentrated effort towards building datasets for NLP downstream tasks such as named entity recognition Eiselen (2016); Adelani et al. (2021; 2022b), part-of-speech Nivre et al. (2016); Dione et al. (2023), news topic classification Niyongabo et al. (2020); Hedderich et al. (2020); Alabi et al. (2022); Adelani et al. (2023), and machine translation Reid et al. (2021); NLLB-Team et al. (2022); Adelani et al. (2022a). However, little has been done on question answering and reading comprehension tasks. The closest dataset to ours is the AfriQA (Ogundepo et al., 2023) dataset for open-retrieval question answering, with a primary focus on retrieving correct answers that are answerable on Wikipedia. Recently, Bebebele (Bandarkar et al., 2023a)—a multi-choice RC dataset covering 122 languages was released, however, the questions and passages were translated from English dataset. To the best of our knowledge, there is no *human-annotated* multi-choice reading comprehension dataset for African languages.

In this paper, we create **NaijaRC**—a new multi-choice **Nigerian Reading Comprehension** dataset that is based on high-school RC examination for three Nigerian national languages: Hausa (hau), Igbo (ibo), and Yorùbá (yor). We provide baseline results by performing cross-lingual transfer using the Bebebele training data which is majorly from RACE¹ dataset (Lai et al., 2017) based on several pre-trained encoder-only models. Additionally, we provide results by prompting large language models (LLMs) like GPT-4. We provide the code and data on GitHub²

Nigerian languages covered The three Nigerian languages covered in the NaijaRC make use of Latin-based script and are tonal. Igbo and Yorùbá additionally makes use of diacritics on their letters like ẹ, è, é, and ù. Hausa additional makes use of special letters like ɓ, ɗ, ƙ, and ƴ. All the languages have more than 35 million native speakers according to Ethnologue (Eberhard et al., 2020) and are offered in high-school as a compulsory subject in the different regions where they are spoken: Hausa (North), Igbo (South-East), and Yorùbá (South West / North Central).

NaijaRC dataset collection We source past questions from the Hausa, Igbo, and Yorùbá language subjects of the West African Senior School Certificate Examination (WASSCE). The subjects are optionally taken by final-year high school students in south-western Nigeria. Prior to 2017, it used to be compulsory to take this subject. We only found printed versions of the past questions, thus, we had to make use of Optical Character Recognition tools like Google Lens and Apple’s OCR to convert the printed format into a digitised version. Due to the diacritics used in the language, the OCR process has some quality issues, which we had to fix manually.

¹RACE is based on English exams for middle and high school Chinese students, very similar to our dataset.

²<https://github.com/AremuAdeolaJr/NaijaRC>

	Belebele		NaijaRC		
	eng	eng	hau	ibo	yor
TRAIN	67,541	-	-	-	50
DEV	3,773	-	-	-	25
TEST	-	88	88	171	

Model	Accuracy				AVG
	eng	hau	ibo	yor	
AfroXLMR-base	67.3	43.2	42.0	34.0	46.6
Serengeti	62.5	50.0	44.3	33.0	47.4
OFA-768	64.5	43.2	48.9	28.3	46.2
GPT-3.5 Turbo	66.3	35.2	30.7	27.7	40.0
GPT-4 Turbo	82.9	48.9	40.9	33.0	51.4

(a) Data split for Belebele and NaijaRC

(b) Model accuracy. PLMs fine-tuned on Belebele’s train split.

Table 1: **Data split and benchmark results** for Belebele (on DEV set) and NaijaRC (on test set).

The West African Examination Council questions test many aspects of students’ competence. However, with regard to the focus of our research, only the comprehension passages and questions were extracted. It is important to note that the number of questions generated for each passage varies from year to year. However, on average, there were five questions for each of the two passages annually.

Our dataset contains comprehension **passages**, **questions**, and **answers** which were carefully validated, verified, and cleaned by native speakers and linguists of the languages. We removed questions relating to the semantics of specific italics or underlined words in the context of usage, as most language models cannot handle them. Table 1(a) provides the data statistics and split for the different language. In Appendix, we also, provide an example of a passage, question and multi-choice answers for Yorùbá and the translation to English.

Experimental setup In this work, we evaluated the performance of fine-tuned pre-trained encoder-only models, specifically AfroXLMR-base Alabi et al. (2022), Serengeti (Adebara et al., 2023) and OFA-768 (Liu et al., 2023), as well as two large language models (LLMs), namely GPT-3.5 and GPT-4. For the encoder based PLMs, we evaluated their performance in a zero-shot cross-lingual setting where we fine-tuned the model on the training split of Belebele³ (Bandarkar et al., 2023b) dataset for 3 epochs and evaluated the performance of the resulting model on NaijaRC. Furthermore, we prompted GPT-3.5 and GPT-4 providing them with the question, options, and context paragraph. The output of these models are then mapped back to the option labels for evaluation. All these models are evaluated using accuracy as the metric.

Experimental results The experimental results are presented in Table 1(b) including the models’ performance on the Belebele’s development set and the zero-shot transfer performance on NaijaRC test sets. The result shows that GPT-4 achieved the highest overall accuracy across the four languages, with an accuracy of 51.4%. This score can be attributed to its exceptional performance on the Belebele development set, where it achieved an accuracy of 82.9%. While there is a possibility that the model benefited from pretraining on the exact data in the development, it is crucial to note that this is not a scenario of "winner takes it all". The zero-shot cross-lingual transfer result with PLMs show that different models performed best in specific languages. AfroXLMR-base has highest accuracy on Yorùbá (34.0%), OFA-768 outperformed others on Igbo (48.9%), and Serengeti outperformed others on Hausa (50.0%). Therefore, when excluding English from the average calculation, Serengeti emerged with the highest overall performance. However, GPT-3.5 and GPT-4 showed relatively lower performance compared to multilingual PLMs on the Nigerian languages, with GPT-4 emerging as the superior performer between the two.

Conclusion and Future work In this paper, we presented **NaijaRC**—a new reading comprehension dataset for Nigerian languages. We compared the zero-shot cross-lingual transfer with three PLMs: AfroXLMR-base, Serengeti, and OFA-768 from an English dataset. We also prompted GPT-3.5 and GPT.4, and showed that these models obtained lower performance on NaijaRC dataset when compared to the PLMs.

As future work, we plan to extend our evaluation to few-shot settings. Specifically, we will explore different approaches that can utilize a few examples, like 50 (passage, question, answer)-tuples for the effective adaptation of existing reading comprehension models.

³the training data is a combination of several multiple choice datasets and can be retrieved here <https://github.com/facebookresearch/belebele>

ACKNOWLEDGMENT

David Adelani acknowledges the support of DeepMind Academic Fellowship programme. We are grateful to OpenAI for providing API credits through their Researcher Access API programme to Masakhane for the evaluation of GPT-3.5 and GPT-4 large language models. Jesujoba Alabi was partially supported by the BMBF's (German Federal Ministry of Education and Research) SLIK project under the grant 01IS22015C.

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"Ọmọ bíbí ilú Bèyíìòṣe ni Ịṣọlá. Ọun àti àbùrò rẹ Fọláhàn mí, nikan ni Bádéjọ, bàbá wọn bí. Àgbè oníkòkò aláḍàáńlá ni Bádéjọ. Bọlátító, aya rẹ sì jẹ oníṣòwò obì. Bádéjọ kò kàwé ṣùgbọn ó pinnu láti tọ àwọn ọmọ rẹ méjéèjì débí tí wọn bá lè kàwé dé láyẹ, nítorí pé iya àìkàwé jẹ ẹ púpọ nídi òwò tí ó n ẹ.

Léyin tí Ịṣọlá parí iwé mewaá ní ilú Ìbòdì ni ó gba ilú Arómisá lọ láti tẹ síwáíú nínú ẹkọ rẹ ní fásiti. Ịlú ọbá ni ó sì tí gba oyè ìmọ ijínlẹ keji nínú ọfin. Ịṣọlá padà sílúu Bèyíìròṣe, ó sì di gbajúgbajà agbejórò káákiri agbègbè náà."

Ilú abíníbí Bádéjọ ni

- A. Ìbòdì
- B. Arómisá
- C. Bèyíìòṣe
- D. Ịlú-ọbá

Ịṣọlá is a native of Bèyíìòṣe town. He and his younger brother Fọláhàn mí, were the only children of their father, Bádéjọ. Bádéjọ is a commercial cocoa farmer. His wife, Bọlátító trades kolanuts. Bádéjọ has no formal western education but he was determined to sponsor his two children, as a result of the difficulties he encountered in his business.

After Ịṣọlá graduated secondary school at Ìbòdì town, he left for Arómisá to continue his university education. He graduated with a masters in Law degree from abroad. Ịṣọlá returned to Bèyíìòṣe, where he became a notable lawyer.

Bádéjọ is a native of which town

- A. Ìbòdì
- B. Arómisá
- C. Bèyíìòṣe
- D. Ịlú-Ọbá

Figure 1: An example of a passage in Yorùbá, a question and corresponding options (A-D). Where C is the correct option. We provide an expert translation in English.

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A APPENDIX

Example of the passage in Yorùbá