

Digital services, in your language, out loud.

Abyshire Technology CI builds speech recognition, speech synthesis and translation for Baoulé, and then for the other languages of Côte d'Ivoire. A limited liability company (SARL) registered in Abidjan.

Our story

"I'm British. In 2020 I married a Baoulé woman, and I fell in love with all the cultures of Côte d'Ivoire — Baoulé culture and the Baoulé language above all. Abyshire Technology CI is my way of giving something back: bringing Baoulé, and then the country's other languages, into tomorrow's technology. So that everyone can use digital services in their own language, and businesses can speak to their customers in their mother tongue and give them the best possible experience. I bring more than twenty years of experience in IT to that aim."

Jonathan Taylor, founder

What we build

Speech recognition

Transcribes spoken Baoulé, phone calls included, in the modern spelling.

Speech synthesis

A Baoulé voice to read text aloud or answer, for people who understand the language better than they read it.

Translation

Baoulé ↔ French (and English through French), through an HTTP API and the langchain-ivoire Python package.

Measured results (8 and 9 October 2026)

10.3%

character error rate

Transcribing 553 phone sentences from 4 speakers never heard in training. Word error rate: 28.3%.

34.7 / 34.1

chrF++ bci → fra / fra → bci

Commercial model (Apache 2.0 base), 316 everyday sentences.

38.0

chrF++ French → Baoulé

Research model (non-commercial base), same test set.

Limits: the translation test comes from the same sources as part of the training data (different sentences); our weakest part is free conversation; 16 of the 553 transcription test sentences (mostly one- to three-word expressions) also appear in our training texts. Details, confidence intervals and method: abyshire.ci/en/results/

The Voix Baoulé programme

- Adults who speak Baoulé every day record short conversations with our Android app, even without a network.
- 2,500 FCFA per approved session, paid by mobile money (Orange, MTN, Moov, Wave).
- Consent read in French or Baoulé; pseudonymised data, deleted on request.
- Pilot: Yamoussoukro area (Toumodi, Tiébissou), Béoumi and Sakassou.

Our method

- **Gather:** scanned bilingual books, public recordings with their text, our own consented recordings.
- **Unify** the modern spelling, every rule measured.
- **Verify** the alignment of every clip and every sentence.
- **Measure** on held-out data, with confidence intervals.

Contact

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