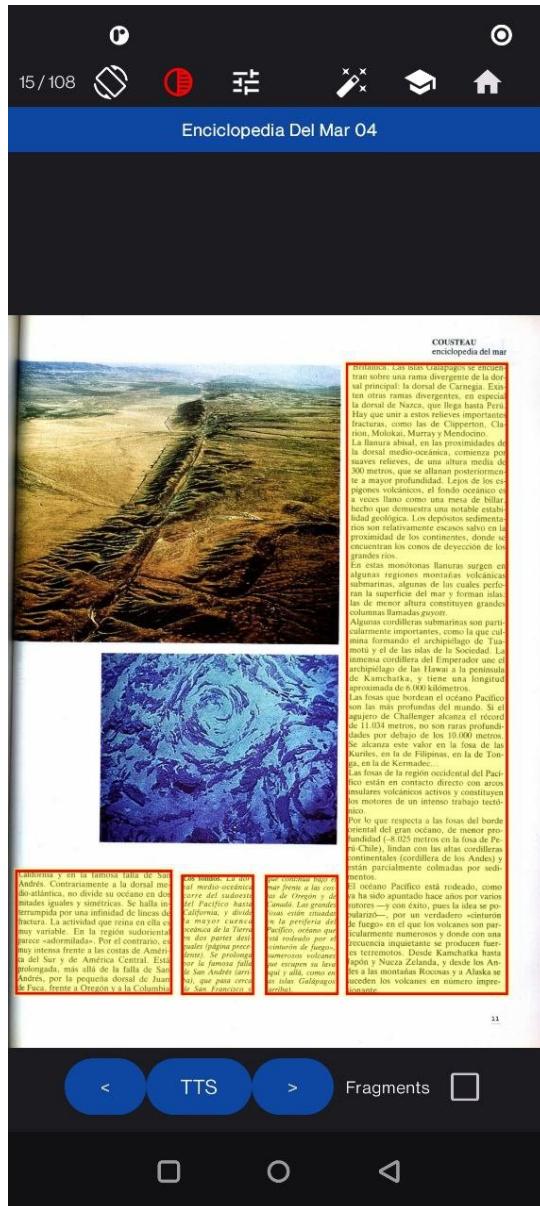# scan_ocr_tts

Introduction:
The program uses optical character recognition (OCR) technology to identify and extract text from documents. This recognition allows the program to detect text blocks on the page, facilitating reading.
The text areas are then framed, allowing the user to visualize and select the parts they want to read or process.

We can then proceed with the audio playback of the text.

How it works:

When you open a PDF document and navigate to a page, the program attempts to detect text blocks and frame them with red rectangles on a yellow background.

 It is possible to select/deselect the red rectangles by clicking on them.

Then, simply click the [TTS] button to start reading the blocks aloud.
At the end of the reading, the program will automatically move to the next page.

The reading of the blocks follows the order from top to bottom and left to right, which is the usual order for this type of layout, as seen in magazine PDFs.

Tip:

Sometimes, when the reading order is not correct, it may be desired to prioritize listening to certain blocks first, and then the others later.

To do this, you can use the [Fragments] checkbox.

Procedure :

- Select the first blocks to read
- Check the [Fragments] checkbox
- The reading will start automatically
- At the end of the reading, all the blocks are deselected.
- The checkbox will be automatically unchecked
- Activate the new block to read
- Use the [TTS] button to finish reading

About text recognition:

The program uses optical character recognition (OCR) technology to identify and extract text from documents. This recognition allows the program to detect text blocks on the page, facilitating reading. The text areas are then framed, allowing the user to visualize and select the parts they want to read or process.

Given the great variation in PDF documents, especially in terms of contrast, the program offers several sliders to facilitate text recognition.

(See below for how these sliders work)

When closing the document, the slider values and the current page are saved, so the same situation is restored when reopening the document.

Continuation of the document in progress...