- OpenBookLM Processing Flow
 - Directory Structure
 - Processing Flow
 - Usage

OpenBookLM Processing Flow

This document describes the data flow between different processing scripts in the OpenBookLM project.

Directory Structure

Processing Flow

```
1. PDF to Text (pdf_to_text.py)
```

```
o Input: R00T/input/*.pdf
```

Output: R00T/output/text/*.txt

Function: Extracts text content from PDF files

2. **Text to Summary** (text_to_summary_400words.py)

• Input: R00T/output/text/*.txt

Output: R00T/output/summaries/*.txt

Function: Generates ~400 word summaries from text content

- 3. Summary to Podcast Dialogue (summary_to_podcast_dialogue.py)
 - Input: R00T/output/summaries/*.txt
 - Output: R00T/output/podcast_dialogue/*.txt
 - Function: Creates conversational dialogue scripts from summaries
- 4. Podcast Dialogue to Audio (podcast_dialogue_to_podcast_audio.py)
 - Input: R00T/output/podcast_dialogue/*.txt
 - Output: R00T/output/podcast_audio/*.wav
 - Function: Converts dialogue scripts to audio using text-to-speech

Usage

Run the scripts in sequence:

- ./backend/pdf_to_text.py
- ./backend/text_to_summary_400words.py
- ./backend/summary_to_podcast_dialogue.py
- ./backend/podcast_dialogue_to_podcast_audio.py

Each script will process all files in its input directory and generate corresponding output files in its output directory.