PI Text Processor

Overview

The PI Text Processor is a Python-based tool designed for converting Standard English texts into PI (Scaffold-Spelling) format. PI, a didactic spelling system, aims to facilitate EFL/ESL learning and general understanding of English pronunciation and spelling. It encapsulates a unique method of text transformation, adhering to distinct linguistic rules.

Components

- Python Scripts:

    - `main.py`: The main script for executing commands.
    - `config.py`: Configuration settings.
    - `transcriber.py`: Handles the transcription of English to PI.
    - `dictionary.py`: Manages the English-to-PI dictionary.
    - `corpora_manager.py`: Manages corpus files for dictionary updates.

- Corpus Files:

    - `corpus_misc.txt` and `corpus_1000.txt`: Contain English-to-PI word mappings.

- Dictionary Files:

    - `pi_dictionary.json`: Dictionary for English-to-PI conversion.
    - `dictionary_schema.json`: Schema for the conversion dictionary.

- Documentation:

    - `corpus_info.md` and `transcriber_steps.md`: Provide information on corpus structure and transcription steps.
    - `Manifesto of PI (written in PI v2.2 L1).pdf`: A comprehensive guide to PI language.
    - `Resumo da ODPI v2.1 (em construção).pdf`: Summary of Didactic Orthography (in Portuguese).

Installation

1. Install Python 3.x.
2. Clone/download the source code.
3. Install dependencies: `pip install -r requirements.txt`.

Usage

The tool provides a CLI for converting English to PI. The main functionality is through the `transcribe` command, which supports file-based and interactive modes.

Transcribe Command

Converts English text to PI.

```
python main.py transcribe [--text TEXT] [--file FILE] [--output OUTPUT] [--variation VARIATION]
```

- `--text TEXT`: Directly specify the text.
- `--file FILE`: Path to the English text file.
- `--output OUTPUT`: Path for the transcribed output.
- `--variation VARIATION`: PI variation (L1, L2, L3, Full Mode).

Example:

```
python main.py transcribe --file input.txt --output output.txt --variation L1
```

Interactive Mode

For real-time transcription:

```
python main.py transcribe --interactive
```

Type or paste English sentences, and receive PI translations. Exit with a specific command (e.g., 'exit').

Contributing

Contributions are welcome. Please refer to CONTRIBUTING.md for guidelines.

License

Contact

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