MEI2Volpiano

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CHAPTER

ONE

CLASSES

Converts MEI files to volpiano strings.

Takes in one or more MEI files and outputs their volpiano representation. See README for flags and usage.

class mei2volpiano.mei2volpiano.**MEItoVolpiano**

Class: MEItoVolpiano

[Main]

get_mei_elements(file) -> list[MEI elements] sylb_volpiano_map(list[elements]) -> dict{string: string} get_syl_key(element, integer) -> string get_volpiano(char, char) -> char export_volpiano(dict{syllables: notes}) -> string convert_mei_volpiano(file) -> string

^ convert_mei_volpiano handles all methods in main.

[Debugging]

find_clefs(list[elements]) -> list[char] find_notes(list[elements]) -> list[char] find_syls(list[elements]) -> list[string] sylb_note_map(list[elements]) -> dict{string: string}

^ useful for MEI parsing and testing outputs.

convert_mei_volpiano(*filename*)

All-in-one method for converting MEI file to valid volpiano string.

Parameters **filename** (*file*) – Open MEI file you want the volpiano of.

Returns Valid volpiano string representation of the input.

Return type volpiano (string)

export_volpiano(*mapping_dictionary*)

Creates volpiano string with clef attached.

Parameters

- **mapping_dictionary** (*dict*) – Dictionary of syllables and their
- **volpiano notes.** (*corresponding*) –

Returns Final, valid volpiano with the clef attached in a single line.

Return type (string)

find_clefs(*elements: list*) → list

Finds all clefs in a given elements list

Parameters **elements** (*list*) – List of elements

Returns char list of all clefs found, in order.

Return type clefs (list)

find_notes(*elements*)
Finds all notes in a given elements list

Parameters **elements** (*list*) – List of elements

Returns char list of all notes found, in order.

Return type notes (list)

find_syls(*elements*)
Finds all syllables in a given elements list

Parameters **elements** (*list*) – List of elements

Returns string list of all syllables found, in order.

Return type syls (list)

get_mei_elements(*filename: str*) → list
Returns a list of all elements in the MEI file.

Parameters **filename** (*string*) – An open MEI file.

Returns List of all elements found.

Return type elements (list)

get_syl_key(*element*, *bias*)
Finds the dictionary key of a syllable from their 'syl' and database identifier.

Parameters

- **element** (*element*) – A single element representing a syllable (syl)
- **bias** (*int*) – The database identifier.

Returns The dictionary key for the given syllable.

Return type key (string)

get_volpiano(*note*, *ocv*)
Finds the volpiano representation of a note given its value and octave.

Parameters

- **note** (*char*) – Note value taken from an element ('c', 'd', 'e' etc.)
- **ocv** (*char*) – Octave of a given note ('1', '2', '3', or '4')

Returns

Volpiano character corresponding to input note and octave

or

error (string): Error if octave is out of range or note not in octave.

Return type oct{x}[note] (char)

sylb_note_map(*elements*)
Creates a dictionary map of syllables and their notes (with octaves).

Parameters **elements** (*list*) – List of elements

Returns Dictionary {identifier: notes} of syllables and their unique data base numbers as keys and notes (with octaves) as values.

Return type syl_dict (dict)

sylb_volpiano_map(*elements*)

Creates a dictionary of syllables and their volpiano values.

Parameters **elements** (*list*) – List of elements

Returns Dictionary {identifier: volpiano notes} of syllables and their unique data base numbers as keys and volpiano notes with correct octaves as values.

Return type syl_note (dict)

CHAPTER

TWO

COMMANDS

CLI program implementation of the MEI2Volpiano library

See README for details.

mei2volpiano.driver.**main**()

This is the command line application MEI2Volpiano

usage: mei2vol [-h] (-mei MEI [MEI ...] | -txt [TXT]) [-export] mei2vol: error: one of the arguments -mei -txt is required

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