
vmf_converter Documentation

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A music21 converter for the VMF file format.

Contents:

vmf_converter package

Converter utilities for the vector music format (VMF).

1.1 Subpackages

1.1.1 vmf_converter.core package

Submodules

vmf_converter.core.articulation_converter module

class `vmf_converter.core.articulation_converter.ArticulationConverter`

Converts between music21 and VMF articulations

classmethod `articulation_to_vmf` (*articulation*)

Converts an articulation to a vmf articulation

Parameters `articulation` – The music21 articulation

Returns The vmf encoding

classmethod `vmf_to_articulation` (*vmf*)

Converts a vmf encoding to an articulation

Parameters `vmf` – The vmf value

Returns An articulation object.

vmf_converter.core.dynamic_converter module

class `vmf_converter.core.dynamic_converter.DynamicConverter`

Converts between velocities and VMF dynamics.

classmethod `velocity_to_vmf` (*velocity*)

Converts a midi velocity to a VMF dynamic symbol.

Parameters `velocity` – The midi velocity.

Returns A value representing a dynamic in VMF.

classmethod `vmf_to_velocity` (*vmf_value*)

Converts a VMF dynamic value to a velocity.

Parameters `vmf_value` – The dynamic value in VMF format.

Returns The corresponding MIDI velocity value.

`vmf_converter.core.vmf_converter_core` module

Main logic for parsing a VMF file.

`vmf_converter.core.vmf_converter_core.convert_score_to_vmf(score)`

Converts a MIDI file to an vmf file.

Parameters `score` – The music21 score to convert to VMF.

Returns A dictionary containing the VMF data structure.

`vmf_converter.core.vmf_converter_core.convert_voices_to_parts(score, id_map)`

Removes polyphonic voices and replaces them with part representations of its voices.

Parameters

- `score` – The music21 score to scan.
- `id_map` – A mapping of music21 ids to vmf part ids.

`vmf_converter.core.vmf_converter_core.find_number_of_notes_in_tick(tick)`

Finds the number of notes in a tick.

Parameters `tick` – The tick to evaluate.

Returns An integer representing the number of notes.

`vmf_converter.core.vmf_converter_core.read_vmf_file(vmf_score)`

Reads VMF to Score Stream.

Parameters `vmf_score` – The path of the VMF file to read.

Returns A music21 score instance containing the music in the VMF file.

`vmf_converter.core.vmf_converter_core.read_vmf_string(vmf_string)`

Reads VMF data from a string to a Score Stream.

Parameters `vmf_string` – The contents of the VMF file as a string.

Returns A music21 score instance containing the music in the VMF file.

`vmf_converter.core.vmf_converter_core.scan_score_durations(score)`

Scans the entire score for rhythmic analysis. This scan determines the smallest note value necessary to accurately encode the score in vmf.

Parameters `score` – The input score stream to analyze.

Returns An integer denoting the smallest fraction of a quarter note necessary to accurately encode the score in vmf.

`vmf_converter.core.vmf_converter_core.scan_score_for_largest_chord(score)`

Scans the entire score for the largest chord. This determines how many notes entries should be available in a tick.

Parameters `score` – The music21 score to scan.

Returns An integer denoting the size of the largest chord.

`vmf_converter.core.vmf_converter_core.scan_score_for_number_of_voices(score)`

Scans the entire score to determine how many voices there are.

Parameters `score` – The music21 score to scan.

Returns The number of parts in the score.

1.2 Submodules

1.2.1 vmf_converter.vmf_converter module

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