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GreasePencilTimeModifier(Modifier)

base classes — [bpy_struct](#), [Modifier](#)

class bpy.types.GreasePencilTimeModifier(Modifier)

Offset keyframes

frame_end

Final frame of the range

TYPE:

int in [0, 1048574], default 250

frame_scale

Evaluation time in seconds

TYPE:

float in [0.001, 100], default 1.0

frame_start

First frame of the range

TYPE:

int in [0, 1048574], default 1

invert_layer_filter

Invert layer filter

TYPE:

boolean, default False

invert_layer_pass_filter

Invert layer pass filter

TYPE:

boolean, default False

layer_filter

Layer name

TYPE:

string, default “”, (never None)

layer_pass_filter

Layer pass filter

TYPE:

int in [0, 100], default 0

mode

- `NORMAL` Regular – Apply offset in usual animation direction.
- `REVERSE` Reverse – Apply offset in reverse animation direction.
- `FIX` Fixed Frame – Keep frame and do not change with time.
- `PINGPONG` Ping Pong – Loop back and forth starting in reverse.
- `CHAIN` Chain – List of chained animation segments.

TYPE:

enum in ['NORMAL', 'REVERSE', 'FIX', 'PINGPONG', 'CHAIN'], default 'NORMAL'

offset

Number of frames to offset original keyframe number or frame to fix

TYPE:

int in [-32768, 32767], default 1

open_custom_range_panel**TYPE:**

boolean, default False

open_influence_panel**TYPE:**

boolean, default False

segment_active_index

Active index in the segment list

TYPE:

int in [0, inf], default 0

segments**TYPE:**

`bpy_prop_collection` of `GreasePencilTimeModifierSegment`, (readonly)

use_custom_frame_range

Define a custom range of frames to use in modifier

TYPE:

boolean, default False

use_keep_loop

Retiming end frames and move to start of animation to keep loop

TYPE:

boolean, default True

use_layer_pass_filter

Use layer pass filter

TYPE:

boolean, default False

classmethod bl_rna_get_subclass(id, default=None)**PARAMETERS:**

id (*str*) – The RNA type identifier.

RETURNS:

The RNA type or default when not found.

RETURN TYPE:

`bpy.types.Struct` subclass

classmethod bl_rna_get_subclass_py(id, default=None)**PARAMETERS:**

PARAMETERS:

id (*str*) – The RNA type identifier.

RETURNS:

The class or default when not found.

RETURN TYPE:

type

Inherited Properties

- `bpy_struct.id_data`
- `Modifier.name`
- `Modifier.type`
- `Modifier.show_viewport`
- `Modifier.show_render`
- `Modifier.show_in_editmode`
- `Modifier.show_on_cage`
- `Modifier.show_expanded`
- `Modifier.is_active`
- `Modifier.use_pin_to_last`
- `Modifier.is_override_data`
- `Modifier.use_apply_on_spline`
- `Modifier.execution_time`
- `Modifier.persistent_uid`

Inherited Functions

- `bpy_struct.as_pointer`
- `bpy_struct.driver_add`
- `bpy_struct.driver_remove`
- `bpy_struct.get`
- `bpy_struct.id_properties_clear`
- `bpy_struct.id_properties_ensure`
- `bpy_struct.id_properties_ui`
- `bpy_struct.is_property_hidden`
- `bpy_struct.is_property_overridable_library`
- `bpy_struct.is_property_readonly`
- `bpy_struct.is_property_set`
- `bpy_struct.items`
- `bpy_struct.keyframe_delete`
- `bpy_struct.keyframe_insert`
- `bpy_struct.keys`
- `bpy_struct.path_from_id`
- `bpy_struct.path_resolve`
- `bpy_struct.pop`
- `bpy_struct.property_overridable_library_set`
- `bpy_struct.property_unset`
- `bpy_struct.type_recast`
- `bpy_struct.values`
- `Modifier.bl_rna_get_subclass`
- `Modifier.bl_rna_get_subclass_py`