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MovieTrackingTrack(bpy_struct)

base class — [bpy_struct](#)

class bpy.types.MovieTrackingTrack(bpy_struct)

Match-moving track data for tracking

average_error

Average error of re-projection

TYPE:

float in $[-\infty, \infty]$, default 0.0, (readonly)

bundle

Position of bundle reconstructed from this track

TYPE:

[mathutils.Vector](#) of 3 items in $[-\infty, \infty]$, default (0.0, 0.0, 0.0), (readonly)

color

Color of the track in the Movie Clip Editor and the 3D viewport after a solve

TYPE:

[mathutils.Color](#) of 3 items in $[0, 1]$, default (0.0, 0.0, 0.0)

correlation_min

Minimal value of correlation between matched pattern and reference that is still treated as successful tracking

TYPE:

float in $[0, 1]$, default 0.0

frames_limit

Every tracking cycle, this number of frames are tracked

TYPE:

int in $[0, 32767]$, default 0

grease_pencil

Grease Pencil data for this track

TYPE:

[GreasePencil](#)

has_bundle

True if track has a valid bundle

TYPE:

boolean, default False, (readonly)

hide

Track is hidden

TYPE:

boolean, default False

lock

Track is locked and all changes to it are disabled

TYPE:

boolean, default False

margin

Distance from image boundary at which marker stops tracking

TYPE:

int in [0, 300], default 0

markers

Collection of markers in track

TYPE:

`MovieTrackingMarkers` `bpy_prop_collection` of `MovieTrackingMarker`, (readonly)

motion_model

Default motion model to use for tracking

- `Perspective` Perspective – Search for markers that are perspective deformed (homography) between frames.
- `Affine` Affine – Search for markers that are affine-deformed (t, r, k, and skew) between frames.
- `LocRotScale` Location, Rotation & Scale – Search for markers that are translated, rotated, and scaled between frames.
- `LocScale` Location & Scale – Search for markers that are translated and scaled between frames.
- `LocRot` Location & Rotation – Search for markers that are translated and rotated between frames.
- `Loc` Location – Search for markers that are translated between frames.

TYPE:

enum in ['Perspective', 'Affine', 'LocRotScale', 'LocScale', 'LocRot', 'Loc'], default 'Loc'

name

Unique name of track

TYPE:

string, default "", (never None)

offset

Offset of track from the parenting point

TYPE:

`mathutils.Vector` of 2 items in [-inf, inf], default (0.0, 0.0)

pattern_match

Track pattern from given frame when tracking marker to next frame

- `KEYFRAME` Keyframe – Track pattern from keyframe to next frame.
- `PREV_FRAME` Previous frame – Track pattern from current frame to next frame.

TYPE:

enum in ['KEYFRAME', 'PREV_FRAME'], default 'KEYFRAME'

select

Track is selected

TYPE:

boolean, default False

select anchor

—

Track's anchor point is selected

TYPE:

boolean, default False

select_pattern

Track's pattern area is selected

TYPE:

boolean, default False

select_search

Track's search area is selected

TYPE:

boolean, default False

use_alpha_preview

Apply track's mask on displaying preview

TYPE:

boolean, default False

use_blue_channel

Use blue channel from footage for tracking

TYPE:

boolean, default False

use_brute

Use a brute-force translation only pre-track before refinement

TYPE:

boolean, default False

use_custom_color

Use custom color instead of theme-defined

TYPE:

boolean, default False

use_grayscale_preview

Display what the tracking algorithm sees in the preview

TYPE:

boolean, default False

use_green_channel

Use green channel from footage for tracking

TYPE:

boolean, default False

use_mask

Use a Grease Pencil data-block as a mask to use only specified areas of pattern when tracking

TYPE:

boolean, default False

use_normalization

Normalize light intensities while tracking (slower)

TYPE:

boolean, default False

use_red_channel

Use red channel from footage for tracking

TYPE:

boolean, default False

weight

Influence of this track on a final solution

TYPE:

float in [0, 1], default 0.0

weight_stab

Influence of this track on 2D stabilization

TYPE:

float in [0, 1], default 0.0

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:

id (*str*) – The RNA type identifier.

RETURNS:

The class or default when not found.

RETURN TYPE:

type

Inherited Properties

- `bpy_struct.id_data`

Inherited Functions

- `bpy_struct.as_pointer`
- `bpy_struct.driver_add`
- `bpy_struct.driver_remove`
- `bpy_struct.get`
- `bpy_struct.items`
- `bpy_struct.keyframe_delete`
- `bpy_struct.keyframe_insert`
- `bpy_struct.keys`

- `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.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`

References

- `bpy.context.selected_movieclip_tracks`
- `MovieTracking.tracks`
- `MovieTrackingObject.tracks`
- `MovieTrackingObjectPlaneTracks.active`
- `MovieTrackingObjectTracks.active`
- `MovieTrackingObjectTracks.new`
- `MovieTrackingStabilization.rotation_tracks`
- `MovieTrackingStabilization.tracks`
- `MovieTrackingTracks.active`
- `MovieTrackingTracks.new`
- `UILayout.template_marker`