Skip to content AnimData(bpy_struct)

base class — bpy_struct

class bpy.types.AnimData(bpy struct)

Animation data for data-block

action

Active Action for this data-block

TYPE:

Action

action_blend_type

Method used for combining Active Action's result with result of NLA stack

- REPLACE Replace The strip values replace the accumulated results by amount specified by influence.
- COMBINE Combine The strip values are combined with accumulated results by appropriately using addition, multiplication, or quaterni math, based on channel type.
- ADD Add Weighted result of strip is added to the accumulated results.
- SUBTRACT Subtract Weighted result of strip is removed from the accumulated results.
- MULTIPLY Multiply Weighted result of strip is multiplied with the accumulated results.

TYPE:

enum in ['REPLACE', 'COMBINE', 'ADD', 'SUBTRACT', 'MULTIPLY'], default 'REPLACE'

action_extrapolation

Action to take for gaps past the Active Action's range (when evaluating with NLA)

- NOTHING Nothing Strip has no influence past its extents.
- HOLD Hold Hold the first frame if no previous strips in track, and always hold last frame.
- HOLD FORWARD Hold Forward Only hold last frame.

TYPE:

enum in ['NOTHING', 'HOLD', 'HOLD_FORWARD'], default 'HOLD'

action influence

Amount the Active Action contributes to the result of the NLA stack

TYPE:

float in [0, 1], default 1.0

action slot

The slot identifies which sub-set of the Action is considered to be for this data-block, and its name is used to find the right slot when assigning Action

TYPE:

ActionSlot

action slot handle

A number that identifies which sub-set of the Action is considered to be for this data-block

TYPE:

int in [-inf, inf], default 0

action suitable slots

.....

The list of slots in this animation data-block

TYPE:

```
bpy_prop_collection of ActionSlot, (readonly)
```

action_tweak_storage

Slot to temporarily hold the main action while in tweak mode

TYPE:

Action

drivers

The Drivers/Expressions for this data-block

TYPE:

```
AnimDataDrivers bpy_prop_collection of FCurve, (readonly)
```

last slot identifier

The identifier of the most recently assigned action slot. The slot identifies which sub-set of the Action is considered to be for this data-block, a its identifier is used to find the right slot when assigning an Action.

TYPE:

```
string, default ", (never None)
```

nla tracks

NLA Tracks (i.e. Animation Layers)

TYPE:

```
NlaTracks bpy_prop_collection of NlaTrack, (readonly)
```

use nla

NLA stack is evaluated when evaluating this block

TYPE:

boolean, default False

use_pin

TYPE:

boolean, default False

use tweak mode

Whether to enable or disable tweak mode in NLA

TYPE:

boolean, default False

nla_tweak_strip_time_to_scene(frame, *, invert=False)

Convert a time value from the local time of the tweaked strip to scene time, exactly as done by built-in key editing tools. Returns the input time unchanged if not tweaking.

PARAMETERS:

- frame (float in [-1.04857e+06, 1.04857e+06]) Input time
- invert (boolean, (optional)) Invert, Convert scene time to action time

RETURNS:

Converted time

RETURN TYPE:

fix paths rename all(*, prefix=", old name=", new name=")

Rename the property paths in the animation system, since properties are animated via string paths, it's needed to keep them valid after properties has been renamed

PARAMETERS:

- prefix (string, (optional, never None)) Prefix, Name prefix
- old name (string, (optional, never None)) Old Name, Old name
- new_name (string, (optional, never None)) New Name, New name

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.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.property unset
- 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.type_recast
- bpy struct.values

References

- Armature.animation_data
- CacheFile.animation data
- Camera.animation_data
- Curve.animation data
- Curves.animation data
- FreestyleLineStyle.animation data
- GreasePencil.animation_data
- GreasePencilv3.animation data
- ID.animation_data_create
- Key.animation data
- Lattice.animation_data
- Light.animation_data
- LightProbe.animation_data
- Mask.animation data

- Material.animation_data
- Mesh.animation_data
- MetaBall.animation data
- MovieClip.animation_data
- NodeTree.animation data
- Object.animation_data
- ParticleSettings.animation_data
- PointCloud.animation data
- Scene.animation data
- Speaker.animation_data
- Texture.animation data
- Volume.animation_data
- World.animation data

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