StretchToConstraint(Constraint)

base classes — `bpy_struct`, `Constraint`

class bpy.types.**StretchToConstraint(Constraint)**

Stretch to meet the target object

bulge

Factor between volume variation and stretching

TYPE:

float in [0, 100], default 0.0

bulge_max

Maximum volume stretching factor

TYPE:

float in [1, 100], default 0.0

bulge_min

Minimum volume stretching factor

TYPE:

float in [0, 1], default 0.0

bulge_smooth

Strength of volume stretching clamping

TYPE:

float in [0, 1], default 0.0

head_tail

Target along length of bone: Head is 0, Tail is 1

TYPE:

float in [0, 1], default 0.0

keep_axis

The rotation type and axis order to use

- `PLANE_X` XZ – Rotate around local X, then Z.
- `PLANE_Z` ZX – Rotate around local Z, then X.
- `SWING_Y` Swing – Use the smallest single axis rotation, similar to Damped Track.

TYPE:

enum in ['PLANE_X', 'PLANE_Z', 'SWING_Y'], default 'PLANE_X'

rest_length

Length at rest position

TYPE:

float in [0, 1000], default 0.0

subtarget

Armature bone, mesh or lattice vertex group, …

— —

TYPE:

string, default “”, (never None)

target

Target object

TYPE:

`Object`

use_bbone_shape

Follow shape of B-Bone segments when calculating Head/Tail position

TYPE:

boolean, default False

use_bulge_max

Use upper limit for volume variation

TYPE:

boolean, default False

use_bulge_min

Use lower limit for volume variation

TYPE:

boolean, default False

volume

Maintain the object’s volume as it stretches

TYPE:

enum in [‘VOLUME_XZX’, ‘VOLUME_X’, ‘VOLUME_Z’, ‘NO_VOLUME’], default ‘VOLUME_XZX’

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`
- `Constraint.name`
- `Constraint.mute`
- `Constraint.enabled`

- Constraint.type
- Constraint.is_override_data
- Constraint.owner_space
- Constraint.target_space
- Constraint.space_object
- Constraint.space_subtarget
- Constraint.show_expanded
- Constraint.is_valid
- Constraint.active
- Constraint.influence
- Constraint.error_location
- Constraint.error_rotation

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
- Constraint.bl_rna_get_subclass
- Constraint.bl_rna_get_subclass_py