

MaintainVolumeConstraint(Constraint)

base classes — `bpy_struct`, `Constraint`

class `bpy.types.MaintainVolumeConstraint(Constraint)`

Maintain a constant volume along a single scaling axis

free_axis

The free scaling axis of the object

TYPE:

enum in ['SAMEVOL_X', 'SAMEVOL_Y', 'SAMEVOL_Z'], default 'SAMEVOL_X'

mode

The way the constraint treats original non-free axis scaling

- `STRICT` Strict – Volume is strictly preserved, overriding the scaling of non-free axes.
- `UNIFORM` Uniform – Volume is preserved when the object is scaled uniformly. Deviations from uniform scale on non-free axes are passed through.
- `SINGLE_AXIS` Single Axis – Volume is preserved when the object is scaled only on the free axis. Non-free axis scaling is passed through.

TYPE:

enum in ['STRICT', 'UNIFORM', 'SINGLE_AXIS'], default 'STRICT'

volume

Volume of the bone at rest

TYPE:

float in [0, inf], 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`
- `Constraint.mute`
- `Constraint.name`
- `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`