

LimitDistanceConstraint(Constraint)

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

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

Limit the distance from target object

distance

Radius of limiting sphere

TYPE:

float in $[-\infty, \infty]$, default 0.0

head_tail

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

TYPE:

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

limit_mode

Distances in relation to sphere of influence to allow

- `LIMITDIST_INSIDE` Inside – The object is constrained inside a virtual sphere around the target object, with a radius defined by the limit distance.
- `LIMITDIST_OUTSIDE` Outside – The object is constrained outside a virtual sphere around the target object, with a radius defined by the limit distance.
- `LIMITDIST_ONSURFACE` On Surface – The object is constrained on the surface of a virtual sphere around the target object, with a radius defined by the limit distance.

TYPE:

enum in `['LIMITDIST_INSIDE', 'LIMITDIST_OUTSIDE', 'LIMITDIST_ONSURFACE']`, default `'LIMITDIST_INSIDE'`

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_transform_limit

Transforms are affected by this constraint as well

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:

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.type`
- `Constraint.is_override_data`
- `Constraint.owner_space`
- `Constraint.target_space`
- `Constraint.space_object`
- `Constraint.space_subtarget`
- `Constraint.mute`
- `Constraint.enabled`
- `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`