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# TrackToConstraint(Constraint)

base classes — [bpy\\_struct](#), [Constraint](#)

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

Aim the constrained object toward the target

## head\_tail

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

### TYPE:

float in [0, 1], default 0.0

## subtarget

Armature bone, mesh or lattice vertex group, ...

### TYPE:

string, default ‘’, (never None)

## target

Target object

### TYPE:

[Object](#)

## track\_axis

Axis that points to the target object

### TYPE:

enum in [‘TRACK\_X’, ‘TRACK\_Y’, ‘TRACK\_Z’, ‘TRACK\_NEGATIVE\_X’, ‘TRACK\_NEGATIVE\_Y’, ‘TRACK\_NEGATIVE\_Z’], default ‘TRACK\_X’

## up\_axis

Axis that points upward

### TYPE:

enum in [‘UP\_X’, ‘UP\_Y’, ‘UP\_Z’], default ‘UP\_X’

## use\_bbone\_shape

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

### TYPE:

boolean, default False

## use\_target\_z

Target’s Z axis, not World Z axis, will constraint the Up direction

### 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`