Skip to content SimpleDeformModifier(Modifier)

```
base classes — bpy_struct, Modifier
class bpy.types.SimpleDeformModifier(Modifier)
    Simple deformation modifier to apply effects such as twisting and bending
     angle
         Angle of deformation
         TYPE:
              float in [-inf, inf], default 0.785398
     deform_axis
         Deform around local axis
         TYPE:
              enum in Axis Xyz Items, default 'X'
     deform\_method
          • TWIST Twist - Rotate around the Z axis of the modifier space.
          • BEND Bend – Bend the mesh over the Z axis of the modifier space.
          • TAPER Taper - Linearly scale along Z axis of the modifier space.
          • STRETCH Stretch - Stretch the object along the Z axis of the modifier space.
         TYPE:
              enum in ['TWIST', 'BEND', 'TAPER', 'STRETCH'], default 'TWIST'
     factor
         Amount to deform object
         TYPE:
              float in [-inf, inf], default 0.785398
     invert_vertex_group
         Invert vertex group influence
         TYPE:
              boolean, default False
     limits
         Lower/Upper limits for deform
         TYPE:
              float array of 2 items in [0, 1], default (0.0, 1.0)
     lock_x
         Do not allow deformation along the X axis
         TYPE:
              boolean, default False
```

lock_y

TYPE:

Do not allow deformation along the Y axis

```
boolean, default False
    lock z
        Do not allow deformation along the Z axis
        TYPE:
             boolean, default False
    origin
        Offset the origin and orientation of the deformation
        TYPE:
              Object
    vertex_group
        Vertex group name
        TYPE:
             string, default ", (never None)
    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 • Modifier.show_expanded

    Modifier.name

                         • Modifier.is active
Modifier.type

    Modifier.use pin to last

• Modifier.show_viewport • Modifier.is_override_data
• Modifier.show_render • Modifier.use_apply_on_spline
• Modifier.show in editmode • Modifier.execution time

    Modifier.show on cage
    Modifier.persistent uid
```

Inherited Functions

- bpy_struct.as_pointer
- bpy struct.driver add

- bpy_struct.keyframe_delete
- bpy struct.keyframe insert

- 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.type_recast
- bpy_struct.is_property_readonly
- bpy_struct.is_property_set
- bpy struct.items

- 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.values
- Modifier.bl_rna_get_subclass
- Modifier.bl rna get subclass py

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SimulationStateItem(bpy stru