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HookModifier(Modifier)

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

class bpy.types.**HookModifier**(**Modifier**)

Hook modifier to modify the location of vertices

center

Center of the hook, used for falloff and display

TYPE:

[mathutils.Vector](#) of 3 items in $[-\text{inf}, \text{inf}]$, default (0.0, 0.0, 0.0)

falloff_curve

Custom falloff curve

TYPE:

[CurveMapping](#), (readonly)

falloff_radius

If not zero, the distance from the hook where influence ends

TYPE:

float in $[0, \text{inf}]$, default 0.0

falloff_type

TYPE:

enum in ['NONE', 'CURVE', 'SMOOTH', 'SPHERE', 'ROOT', 'INVERSE_SQUARE', 'SHARP', 'LINEAR', 'CONSTANT'], default 'SMOOTH'

invert_vertex_group

Invert vertex group influence

TYPE:

boolean, default False

matrix_inverse

Reverse the transformation between this object and its target

TYPE:

[mathutils.Matrix](#) of 4 * 4 items in $[-\text{inf}, \text{inf}]$, default ((1.0, 0.0, 0.0, 0.0), (0.0, 1.0, 0.0, 0.0), (0.0, 0.0, 1.0, 0.0), (0.0, 0.0, 0.0, 1.0))

object

Parent Object for hook, also recalculates and clears offset

TYPE:

[Object](#)

strength

Relative force of the hook

TYPE:

float in $[0, 1]$, default 1.0

subtarget

- `bpy_struct.id_data`
- `Modifier.name`
- `Modifier.type`
- `Modifier.show_viewport`
- `Modifier.show_render`
- `Modifier.show_expanded`
- `Modifier.is_active`
- `Modifier.use_pin_to_last`
- `Modifier.is_override_data`
- `Modifier.use_apply_on_spline`

- `Modifier.show_render`
- `Modifier.show_in_editmode`
- `Modifier.show_on_cage`
- `Modifier.use_apply_on_spline`
- `Modifier.execution_time`
- `Modifier.persistent_uid`

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`
- `Modifier.bl_rna_get_subclass`
- `Modifier.bl_rna_get_subclass_py`