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Modifier(bpy_struct)

base class — [bpy_struct](#)

subclasses — [ArmatureModifier](#), [ArrayModifier](#), [BevelModifier](#), [BooleanModifier](#), [BuildModifier](#), [CastModifier](#), [ClothModifier](#), [CollisionModifier](#), [CorrectiveSmoothModifier](#), [CurveModifier](#), [DataTransferModifier](#), [DecimateModifier](#), [DisplaceModifier](#), [DynamicPaintModifier](#), [EdgeSplitModifier](#), [ExplodeModifier](#), [FluidModifier](#), [GreasePencilArmatureModifier](#), [GreasePencilArrayModifier](#), [GreasePencilBuildModifier](#), [GreasePencilColorModifier](#), [GreasePencilDashModifierData](#), [GreasePencilEnvelopeModifier](#), [GreasePencilHookModifier](#), [GreasePencilLatticeModifier](#), [GreasePencilLengthModifier](#), [GreasePencilLineartModifier](#), [GreasePencilMirrorModifier](#), [GreasePencilMultiplyModifier](#), [GreasePencilNoiseModifier](#), [GreasePencilOffsetModifier](#), [GreasePencilOpacityModifier](#), [GreasePencilOutlineModifier](#), [GreasePencilShrinkwrapModifier](#), [GreasePencilSimplifyModifier](#), [GreasePencilSmoothModifier](#), [GreasePencilSubdivModifier](#), [GreasePencilTextureModifier](#), [GreasePencilThickModifierData](#), [GreasePencilTimeModifier](#), [GreasePencilTintModifier](#), [GreasePencilWeightAngleModifier](#), [GreasePencilWeightProximityModifier](#), [HookModifier](#), [LaplacianDeformModifier](#), [LaplacianSmoothModifier](#), [LatticeModifier](#), [MaskModifier](#), [MeshCacheModifier](#), [MeshDeformModifier](#), [MeshSequenceCacheModifier](#), [MeshToVolumeModifier](#), [MirrorModifier](#), [MultiresModifier](#), [NodesModifier](#), [NormalEditModifier](#), [OceanModifier](#), [ParticleInstanceModifier](#), [ParticleSystemModifier](#), [RemeshModifier](#), [ScrewModifier](#), [ShrinkwrapModifier](#), [SimpleDeformModifier](#), [SkinModifier](#), [SmoothModifier](#), [SoftBodyModifier](#), [SolidifyModifier](#), [SubsurfModifier](#), [SurfaceDeformModifier](#), [SurfaceModifier](#), [TriangulateModifier](#), [UVProjectModifier](#), [UVWarpModifier](#), [VertexWeightEditModifier](#), [VertexWeightMixModifier](#), [VertexWeightProximityModifier](#), [VolumeDisplaceModifier](#), [VolumeToMeshModifier](#), [WarpModifier](#), [WaveModifier](#), [WeightedNormalModifier](#), [WeldModifier](#), [WireframeModifier](#)

class `bpy.types.Modifier(bpy_struct)`

Modifier affecting the geometry data of an object

execution_time

Time in seconds that the modifier took to evaluate. This is only set on evaluated objects. If multiple modifiers run in parallel, execution time is not a reliable metric.

TYPE:

float in [-inf, inf], default 0.0, (readonly)

is_active

The active modifier in the list

TYPE:

boolean, default False

is_override_data

In a local override object, whether this modifier comes from the linked reference object, or is local to the override

TYPE:

boolean, default False, (readonly)

name

Modifier name

TYPE:

string, default "", (never None)

persistent_uid

Uniquely identifies the modifier within the modifier stack that it is part of

TYPE:

int in [-inf, inf], default 0, (readonly)

show_expanded

Set modifier expanded in the user interface

TYPE:

boolean, default False

show_in_editmode

Display modifier in Edit mode

TYPE:

boolean, default False

show_on_cage

Adjust edit cage to modifier result

TYPE:

boolean, default False

show_render

Use modifier during render

TYPE:

boolean, default False

show_viewport

Display modifier in viewport

TYPE:

boolean, default False

type

TYPE:

enum in [Object Modifier Type Items](#), default 'GREASE_PENCIL_VERTEX_WEIGHT_PROXIMITY', (readonly)

use_apply_on_spline

Apply this and all preceding deformation modifiers on splines' points rather than on filled curve/surface

TYPE:

boolean, default False

use_pin_to_last

Keep the modifier at the end of the list

TYPE:

boolean, default False

classmethod bl_ma_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`

Inherited Functions

- | | |
|---|--|
| • <code>bpy_struct.as_pointer</code> | • <code>bpy_struct.items</code> |
| • <code>bpy_struct.driver_add</code> | • <code>bpy_struct.keyframe_delete</code> |
| • <code>bpy_struct.driver_remove</code> | • <code>bpy_struct.keyframe_insert</code> |
| • <code>bpy_struct.get</code> | • <code>bpy_struct.keys</code> |
| • <code>bpy_struct.id_properties_clear</code> | • <code>bpy_struct.path_from_id</code> |
| • <code>bpy_struct.id_properties_ensure</code> | • <code>bpy_struct.path_resolve</code> |
| • <code>bpy_struct.id_properties_ui</code> | • <code>bpy_struct.pop</code> |
| • <code>bpy_struct.is_property_hidden</code> | • <code>bpy_struct.property_overridable_library_set</code> |
| • <code>bpy_struct.is_property_overridable_library</code> | • <code>bpy_struct.property_unset</code> |
| • <code>bpy_struct.is_property_readonly</code> | • <code>bpy_struct.type_recast</code> |
| • <code>bpy_struct.is_property_set</code> | • <code>bpy_struct.values</code> |

References

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|---------------------------------------|---------------------------------------|
| • <code>Object.modifiers</code> | • <code>ObjectModifiers.new</code> |
| • <code>ObjectModifiers.active</code> | • <code>ObjectModifiers.remove</code> |