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# VolumeDisplaceModifier(Modifier)

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

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

## **strength**

Strength of the displacement

### **TYPE:**

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

## **texture**

### **TYPE:**

[Texture](#)

## **texture\_map\_mode**

- **LOCAL** Local – Use the local coordinate system for the texture coordinates.
- **GLOBAL** Global – Use the global coordinate system for the texture coordinates.
- **OBJECT** Object – Use the linked object's local coordinate system for the texture coordinates.

### **TYPE:**

enum in ['LOCAL', 'GLOBAL', 'OBJECT'], default 'LOCAL'

## **texture\_map\_object**

Object to use for texture mapping

### **TYPE:**

[Object](#)

## **texture\_mid\_level**

Subtracted from the texture color to get a displacement vector

### **TYPE:**

[mathutils.Vector](#) of 3 items in  $[-\infty, \infty]$ , default (0.0, 0.0, 0.0)

## **texture\_sample\_radius**

Smaller values result in better performance but might cut off the volume

### **TYPE:**

float in  $[0, \infty]$ , default 0.0

**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:**

#### RETURNS:

The class or default when not found.

#### RETURN TYPE:

type

## Inherited Properties

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