Table of Contents

Table of Contents	1
GreasePencilSimplifyModifier(Modifier)	3
Inherited Properties	5
Inherited Functions	5
LayerObjects(bpy_struct)	79
Inherited Properties	79
Inherited Functions	79
References	80
LayoutPanelState(bpy_struct)	81
Inherited Properties	81
Inherited Functions	81
Library(ID)	83
Inherited Properties	84
Inherited Functions	84
References	85
LibraryWeakReference(bpy_struct)	86
Inherited Properties	86
Inherited Functions	86
References	87
Light(ID)	88
Inherited Properties	89
Inherited Functions	90
References	90
Lightgroup(bpy_struct)	91
Inherited Properties	91
Inherited Functions	91
References	91
Lightgroups(bpy_struct)	93
Inherited Properties	93
Inherited Functions	93
References	94
LightProbe(ID)	95
Inherited Properties	97
Inherited Functions	97
References	97
LightProbePlane(LightProbe)	99
Inherited Properties	99
Inherited Functions	99
LightProbeSphere(LightProbe)	101
Inherited Properties	102
Inherited Functions	102
LightProbeVolume(LightProbe)	104
Inherited Properties	106
Inherited Functions	107
LimitDistanceConstraint(Constraint)	108
Inherited Properties	109
Inherited Functions	109
LimitLocationConstraint(Constraint)	110
Inherited Properties	111
Inherited Functions	112
LimitRotationConstraint(Constraint)	113
Inherited Properties	114
Inherited Functions	115
LimitScaleConstraint(Constraint)	116
Inherited Properties	117
Inherited Functions	118
Linesets(bpy_struct)	119
Inherited Properties	120

Inherited Functions References	120 120
LineStyleAlphaModifier(LineStyleModifier)	121
Inherited Properties	121
Inherited Frozenies Inherited Functions	121
References	122
LineStyleAlphaModifier_AlongStroke(LineStyleAlphaModifier)	123
Inherited Properties	124
Inherited Functions	124
LineStyleAlphaModifier_CreaseAngle(LineStyleAlphaModifier)	125
Inherited Properties	126
Inherited Functions	126
LineStyleAlphaModifier_Curvature_3D(LineStyleAlphaModifier)	128
Inherited Properties	129
Inherited Functions	129
LineStyleAlphaModifier DistanceFromCamera(LineStyleAlphaModifier)	131
Inherited Properties	132
Inherited Functions	132
LineStyleAlphaModifier_DistanceFromObject(LineStyleAlphaModifier)	134
Inherited Properties	135
Inherited Functions	135
LineStyleAlphaModifier_Material(LineStyleAlphaModifier)	137
Inherited Properties	138
Inherited Functions	138
LineStyleAlphaModifier Noise(LineStyleAlphaModifier)	140
Inherited Properties	141
Inherited Functions	141
LineStyleAlphaModifier Tangent(LineStyleAlphaModifier)	143
Inherited Properties	144
Inherited Functions	144
LineStyleAlphaModifiers(bpy_struct)	145
Inherited Properties	145
Inherited Functions	145
References	146
LineStyleColorModifier(LineStyleModifier)	147
Inherited Properties	147
Inherited Functions	147
References	148

Skip to content GreasePencilSimplifyModifier(Modifier)

base classes — bpy_struct, Modifier class bpy.types.GreasePencilSimplifyModifier(Modifier) Simplify Stroke modifier distance Distance between points TYPE: float in [0, inf], default 0.1 factor Factor of Simplify TYPE: float in [0, 100], default 0.0 invert_layer_filter Invert layer filter TYPE: boolean, default False invert_layer_pass_filter Invert layer pass filter TYPE: boolean, default False invert material filter Invert material filter TYPE: boolean, default False invert_material_pass_filter Invert material pass filter TYPE: boolean, default False invert_vertex_group Invert vertex group weights TYPE: boolean, default False layer_filter Layer name TYPE:

string, default "", (never None)

layer_pass_filter

```
Layer pass filter
    TYPE:
         int in [0, 100], default 0
length
    Length of each segment
    TYPE:
         float in [0, inf], default 0.1
material filter
    Material used for filtering
    TYPE:
         Material
material pass filter
    Material pass
    TYPE:
         int in [0, 100], default 0
mode
    How to simplify the stroke
    • FIXED Fixed – Delete alternating vertices in the stroke, except extremes.

    ADAPTIVE Adaptive – Use a Ramer-Douglas-Peucker algorithm to simplify the stroke preserving main shape.

    • SAMPLE Sample - Re-sample the stroke with segments of the specified length.
    • MERGE Merge – Simplify the stroke by merging vertices closer than a given distance.
    TYPE:
         enum in ['FIXED', 'ADAPTIVE', 'SAMPLE', 'MERGE'], default 'FIXED'
open_influence_panel
    TYPE:
         boolean, default False
sharp threshold
    Preserve corners that have sharper angle than this threshold
    TYPE:
         float in [0, 3.14159], default 0.0
step
    Number of times to apply simplify
    TYPE:
         int in [1, 50], default 1
use_layer_pass_filter
    Use layer pass filter
    TYPE:
         boolean, default False
use material pass filter
```

I las material mass filter

```
Ose material pass iller
TYPE:
     boolean, default False
```

vertex_group_name

Vertex group name for modulating the deform

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.name
- Modifier.type
- Modifier.show_viewport Modifier.is_override_data

- Modifier.show_expanded
 - Modifier.is_active
 - Modifier.use pin to last
- 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.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.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.values

- bpy_struct.is_property_set
- bpy_struct.items

- Modifier.bl_rna_get_subclass
- Modifier.bl_rna_get_subclass_py

Previous GreasePencilShrinkwrapModifier(Modifier) Report issue on this page Copyright © Blender Authors Made with Furo No GreasePencilSmoothModifier(Modifier)

LayerObjects(bpy_struct)

```
base class — bpy_struct
class bpy.types.LayerObjects(bpy_struct)
    Collections of objects
    active
        Active object for this layer
        TYPE:
             Object
    selected
        All the selected objects of this layer
        TYPE:
             bpy prop collection of Object, (readonly)
    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

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_biddon
- 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
- how etrust proporty opportidable library est

- nbl_scrucc.is_brobercl_uidaeu - nhl octace.hroherch onertragnie tintath sec
- bpy_struct.is_property_overridable_library bpy_struct.property_unset
- bpy struct.is property readonly
- bpy_struct.is_property_set

- bpy struct.type recast
- bpy_struct.values

References

• ViewLayer.objects

Previous LayerCollection(bpy_struct) Report issue on this page

Copyright © Blender Authors Made with Furo

LayoutPanelState(bpy_stru

Skip to content

LayoutPanelState(bpy_struct)

```
base class — bpy_struct
class bpy.types.LayoutPanelState(bpy struct)
    is open
        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

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.property_unset 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.type_recast

• bpy struct.values

Previous

report issue on this page

```
Skip to content Library(ID)
```

RETURN TYPE:

```
base classes — bpy_struct, ID
class bpy.types.Library(ID)
    External .blend file from which data is linked
     filepath
         Path to the library .blend file
         TYPE:
               string, default ", (never None)
     is_editable
         Datablocks in this library are editable despite being linked. Used by brush assets and their dependencies.
         TYPE:
               boolean, default False, (readonly)
     needs_liboverride_resync
         True if this library contains library overrides that are linked in current blendfile, and that had to be recursively resynced on load (it is
         recommended to open and re-save that library blendfile then)
         TYPE:
               boolean, default False
     packed_file
         TYPE:
               PackedFile, (readonly)
     parent
          TYPE:
               Library, (readonly)
     version
          Version of Blender the library .blend was saved with
         TYPE:
               int array of 3 items in [0, inf], default (0, 0, 0), (readonly)
     users_id
         ID data blocks which use this library
         (readonly)
     reload()
          Reload this library and all its linked data-blocks
     classmethod bl_rna_get_subclass(id, default=None)
          PARAMETERS:
               id(str) – The RNA type identifier.
         RETURNS:
               The RNA type or default when not found.
```

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
- ID.name
- ID.name full
- ID.id type
- ID.session_uid
- ID.is evaluated
- ID.original
- ID.users
- ID.use_fake_user
- ID.use extra user
- ID.is embedded data

- ID.is_missing
- ID.is runtime data
- ID.is editable
- ID.tag
- ID.is_library_indirect
- ID.library
- ID.library_weak_reference
- ID.asset data
- ID.override_library
- ID.preview

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 ID.override create
- 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 ID.bl_rna_get_subclass
- bpy struct.property unset

- bpy struct.type recast
- bpy struct.values
- ID.rename
- ID.evaluated get
- ID.copy
- ID.asset mark
- ID.asset clear
- ID.asset generate preview
- ID.override_hierarchy_create
- ID.user clear
- ID.user remap
- ID.make local
- ID.user_of_id
- ID.animation_data_create
- ID.animation data clear
- ID.update_tag
- ID.preview ensure
- ID.bl rna get subclass py

References

- BlendData.libraries
- BlendDataLibraries.remove
- BlendImportContextItem.source_library
- ID.library
- Library.parent

Previous LayoutPanelState(bpy_struct) Copyright © Blender Authors Made with Furo

LibraryWeakReference(bpy_stru

Report issue on this page

Skip to content LibraryWeakReference(bpy_struct)

```
base class — bpy_struct
```

class bpy.types.LibraryWeakReference(bpy struct)

Read-only external reference to a linked data-block and its library file

filenath

Path to the library .blend file

TYPE:

string, default ", (readonly, never None)

id name

Full ID name in the library .blend file (including the two leading 'id type' chars)

TYPE:

string, default ", (readonly, 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

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
- how struct is proporty hidden

- 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
- hnu struct proportu ouorridablo libraru sot

- phlorince.is_broberel_uinden phlorince.broberel_overiindanie_iintail_see
- bpy_struct.is_property_overridable_library bpy_struct.property_unset
- bpy struct.is property readonly
- bpy_struct.is_property_set

- bpy struct.type recast
- bpy_struct.values

References

• ID.library_weak_reference

Previous Library(ID)

Report issue on this page

Copyright © Blender Authors

Made with Furo

No Light(I

Skip to content Light(ID)

```
base classes — bpy_struct, ID
subclasses — AreaLight, PointLight, SpotLight, SunLight
class bpy.types.Light(ID)
    Light data-block for lighting a scene
     animation data
         Animation data for this data-block
         TYPE:
               AnimData, (readonly)
     color
         Light color
         TYPE:
               mathutils.Color of 3 items in [0, inf], default (1.0, 1.0, 1.0)
     cutoff_distance
         Distance at which the light influence will be set to 0
         TYPE:
              float in [0, inf], default 40.0
     cycles
         Cycles light settings
         TYPE:
               CyclesLightSettings, (readonly)
     diffuse_factor
         Diffuse reflection multiplier
         TYPE:
              float in [0, inf], default 1.0
     node\_tree
         Node tree for node based lights
         TYPE:
               NodeTree, (readonly)
     specular_factor
         Specular reflection multiplier
         TYPE:
              float in [0, inf], default 1.0
     transmission_factor
         Transmission light multiplier
         TYPE:
              float in [0, inf], default 1.0
```

```
type
    Type of light
    TYPE:
         enum in Light Type Items, default 'POINT'
use\_custom\_distance
    Use custom attenuation distance instead of global light threshold
    TYPE:
         boolean, default False
use_nodes
    Use shader nodes to render the light
    TYPE:
         boolean, default False
use shadow
    TYPE:
         boolean, default True
volume_factor
    Volume light multiplier
    TYPE:
         float in [0, inf], default 1.0
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:
         The class or default when not found.
    RETURN TYPE:
         type
```

Inherited Properties

```
• bpy_struct.id_data
                     • ID.is_missing
• ID.name
                     • ID.is_runtime_data
• ID.name_full
                     • ID.is editable
• ID.id_type
                      • ID.tag
• ID.session_uid
                     • ID.is_library_indirect
• ID.is evaluated
```

- ID.original
- ID.users
- ID.use_fake_user
- ID.use_extra_user
- ID.is embedded data
- ID. Library
- ID.library_weak_reference
- ID.asset data
- ID.override library
- ID.preview

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 ID.override create
- 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 ID.bl_rna_get_subclass
- bpy struct.property unset

- bpy struct.type recast
- bpy struct.values
- ID.rename
- ID.evaluated get
- ID.copy
- ID.asset mark
- ID.asset clear
- ID.asset generate preview
- ID.override hierarchy create
- ID.user clear
- ID.user remap
- ID.make_local
- ID.user_of_id
- ID.animation data create
- ID.animation data clear
- ID.update tag
- ID.preview ensure
- ID.bl rna get subclass py

References

- bpy.context.light BlendDataLights.new
- BlendData.lights BlendDataLights.remove

Previous LibraryWeakReference(bpy struct)

Report issue on this page

Copyright © Blender Authors Made with Furo

LightProbe(I

Skip to content

Lightgroup(bpy_struct)

```
base class — bpy_struct
class bpy.types.Lightgroup(bpy_struct)
        Name of the Lightgroup
        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

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.property_unset 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.type recast

• bpy struct.values

- Lightgroups.add ViewLayer.active_lightgroup
- Lightgroups.remove ViewLayer.lightgroups

Previous LightProbeVolume(LightProbe) Copyright © Blender Authors Made with Furo

Lightgroups(bpy_stru

Report issue on this page

```
Skip to content
```

Lightgroups(bpy_struct)

```
base class — bpy_struct
class bpy.types.Lightgroups(bpy struct)
    Collection of Lightgroups
    add(*, name='')
        add
        PARAMETERS:
             name (string, (optional, never None)) - Name, Name of newly created lightgroup
        RETURNS:
             Newly created Lightgroup
        RETURN TYPE:
             Lightgroup
    remove(lightgroup)
        Remove given light group
        PARAMETERS:
             lightgroup (Lightgroup, (never None)) - Lightgroup to remove
    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

Inherited Functions

```
• bpy_struct.as_pointer
```

- bpy_struct.driver_add
- bpy_struct.driver_remove

- bpy_struct.items
- bpy_struct.keyframe_delete
- bpy_struct.keyframe_insert

- 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.property_unset
- bpy_struct.is_property_readonly
- bpy_struct.is_property_set

- bpy_struct.keys
- bpy_struct.path_from_id
- bpy_struct.path_resolve
- bpy struct.pop
- bpy_struct.property_overridable_library_set
- bpy_struct.type_recast
- bpy struct.values

References

• ViewLayer.lightgroups

Previous Lightgroup(bpy struct) Report issue on this page Copyright © Blender Authors Made with Furo

LimitDistanceConstraint(Constrai

Skip to content LightProbe(ID)

TYPE:

boolean, default True

```
base classes — bpy_struct, ID
subclasses — LightProbePlane, LightProbeSphere, LightProbeVolume
class bpy.types.LightProbe(ID)
    Light Probe data-block for lighting capture objects
     animation data
         Animation data for this data-block
         TYPE:
               AnimData, (readonly)
     clip_start
         Probe clip start, below which objects will not appear in reflections
         TYPE:
              float in [1e-06, inf], default 0.8
     data_display_size
         Viewport display size of the sampled data
         TYPE:
              float in [0, inf], default 0.1
     influence\_distance
         Influence distance of the probe
         TYPE:
              float in [0, inf], default 2.5
     invert_visibility_collection
         Invert visibility collection (Deprecated)
         TYPE:
              boolean, default False
     show clip
         Show the clipping distances in the 3D view
         TYPE:
              boolean, default False
     show_data
         Deprecated, use use data display instead
         TYPE:
              boolean, default False
     show_influence
         Show the influence volume in the 3D view
```

Type of light probe

- SPHERE Sphere Light probe that captures precise lighting from all directions at a single point in space.
- PLANE Plane Light probe that captures incoming light from a single direction on a plane.
- VOLUME Volume Light probe that captures low frequency lighting inside a volume.

TYPE:

```
enum in ['SPHERE', 'PLANE', 'VOLUME'], default 'SPHERE', (readonly)
```

use_data_display

Display sampled data in the viewport to debug captured light

TYPE:

boolean, default False

visibility bleed bias

Bias for reducing light-bleed on variance shadow maps (Deprecated)

TYPE:

float in [0, 1], default 0.0

visibility blur

Filter size of the visibility blur (Deprecated)

TYPE:

float in [0, 1], default 0.2

visibility_buffer_bias

Bias for reducing self shadowing (Deprecated)

TYPE:

float in [0.001, 9999], default 1.0

visibility collection

Restrict objects visible for this probe (Deprecated)

TYPE:

Collection

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:

Inherited Properties

- bpy_struct.id_data
- ID.name
- ID.name full
- ID.id type
- ID.session uid
- ID.is evaluated
- ID.original
- ID.users
- ID.use fake user
- ID.use extra user
- ID.is embedded data

- ID.is missing
- ID.is_runtime_data
- ID.is editable
- ID.tag
- ID.is library_indirect
- ID.library
- ID.library_weak_reference
- ID.asset data
- ID.override library
- ID.preview

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 ID.override create
- 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 ID.bl rna get subclass
- bpy_struct.property_unset

- bpy_struct.type_recast
- bpy struct.values
- ID.rename
- ID.evaluated get
- ID.copy
- ID.asset mark
- ID.asset clear
- ID.asset generate preview
- ID.override hierarchy create
- ID.user clear
- ID.user remap
- ID.make local
- ID.user of id
- ID.animation data create
- ID.animation_data_clear
- ID.update tag
- ID.preview ensure
- ID.bl rna get subclass py

References

- bpy.context.lightprobe BlendDataProbes.new
- BlendData.lightprobes BlendDataProbes.remove

Report issue on this page

Skip to content

LightProbePlane(LightProbe)

```
base classes — bpy_struct, ID, LightProbe
class bpy.types.LightProbePlane(LightProbe)
    Light probe that captures incoming light from a single direction on a plane
    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
- ID.name
- ID.name full
- ID.id_type
- ID.session_uid
- ID.is_evaluated
- ID.original
- ID.users
- ID.use_fake_user
- ID.use_extra_user
- ID.is embedded data
- ID.is missing
- ID.is runtime data
- ID.is_editable
- ID.tag
- ID.is_library_indirect
- ID.library
- ID.library weak reference

- ID.asset_data
- ID.override_library
- ID.preview
- LightProbe.type
- LightProbe.clip start
- LightProbe.show_clip
- LightProbe.show_influence
- LightProbe.influence_distance
- LightProbe.visibility_buffer_bias
- LightProbe.visibility_bleed_bias
- LightProbe.visibility blur
- LightProbe.visibility collection
- LightProbe.invert_visibility_collection
- LightProbe.show_data
- LightProbe.use_data_display
- LightProbe.data_display_size
- LightProbe.animation_data

Inherited Functions

• how atrust se nointer

• how atrust walung

- ppy_scruce.as_poincer
- 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 ID.override_hierarchy_create
- 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
 ID.bl_rna_get_subclass_py
- bpy struct.property unset
- bpy_struct.type_recast

- phy_struct.varues
- ID.rename
- ID.evaluated get
- ID.copy
- ID.asset mark
- ID.asset clear
- ID.asset_generate_preview
- ID.override create
- ID.user clear
- ID.user remap
- ID.make local
- ID.user_of_id
- ID.animation data create
- ID.animation_data_clear
- ID.update_tag
- ID.preview ensure
- ID.bl_rna_get_subclass
- LightProbe.bl rna get subclass
- LightProbe.bl_rna_get_subclass_py

Previous LightProbe(ID) Copyright © Blender Authors Made with Furo

LightProbeSphere(LightProb

Report issue on this page

LightProbeSphere(LightProbe)

```
base classes — bpy_struct, ID, LightProbe
class bpy.types.LightProbeSphere(LightProbe)
    Light probe that captures precise lighting from all directions at a single point in space
         Probe clip end, beyond which objects will not appear in reflections
         TYPE:
              float in [1e-06, inf], default 20.0
     falloff
         Control how fast the probe influence decreases
         TYPE:
              float in [0, 1], default 0.2
     influence_type
         Type of influence volume
         TYPE:
              enum in ['ELIPSOID', 'BOX'], default 'ELIPSOID'
     parallax_distance
         Lowest corner of the parallax bounding box
         TYPE:
              float in [0, inf], default 2.5
     parallax type
         Type of parallax volume
         TYPE:
              enum in ['ELIPSOID', 'BOX'], default 'ELIPSOID'
     show parallax
         Show the parallax correction volume in the 3D view
         TYPE:
              boolean, default False
     use_custom_parallax
         Enable custom settings for the parallax correction volume
         TYPE:
              boolean, default False
     classmethod bl_rna_get_subclass(id, default=None)
         PARAMETERS:
              id (str) – The RNA type identifier.
```

RETURNS:

RETURN TYPE:

The RNA type or default when not found.

```
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
- ID.name
- ID.name_full
- ID.id_type
- ID.session uid
- ID.is_evaluated
- ID.original
- ID.users
- ID.use fake user
- ID.use extra user
- ID.is_embedded_data
- ID.is_missing
- ID.is runtime data
- ID.is editable
- ID.tag
- ID.is_library_indirect
- ID.library
- ID.library weak reference

- ID.asset data
- ID.override_library
- ID.preview
- LightProbe.type
- LightProbe.clip start
- LightProbe.show_clip
- LightProbe.show influence
- LightProbe.influence_distance
- LightProbe.visibility buffer bias
- LightProbe.visibility bleed bias
- LightProbe.visibility blur
- LightProbe.visibility collection
- LightProbe.invert visibility collection
- LightProbe.show data
- LightProbe.use data display
- LightProbe.data_display_size
- LightProbe.animation_data

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 ID.override_hierarchy_create
- bpy struct.is property readonly
- bpy_struct.is_property_set
- bpy struct.items
- bpy_struct.keyframe_delete
- bpy_struct.keyframe_insert

- bpy_struct.values
- ID.rename
- ID.evaluated_get
- ID.copy
- ID.asset_mark
- ID.asset clear
- ID.asset_generate_preview
- ID.override create
- ID.user clear
- ID.user_remap
- ID.make local
- ID.user_of_id
- ID.animation_data_create

- bpy_struct.keys
- bpy_struct.path_from_id
- bpy_struct.path_resolve
- bpy_struct.pop
- bpy_struct.property_overridable_library_set ID.bl_rna_get_subclass_py
- bpy_struct.property_unset
- bpy_struct.type_recast

- ID.animation_data_clear
- ID.update_tag
- ID.preview_ensure
- ID.bl_rna_get_subclass
- LightProbe.bl_rna_get_subclass
- LightProbe.bl_rna_get_subclass_py

Previous LightProbePlane(LightProbe) Copyright © Blender Authors Made with Furo

LightProbeVolume(LightProb

Report issue on this page

Skip to conten

LightProbeVolume(LightProbe)

```
base classes — bpy_struct, ID, LightProbe
```

class bpy.types.LightProbeVolume(LightProbe)

Light probe that captures low frequency lighting inside a volume

bake samples

Number of ray directions to evaluate when baking

TYPE:

int in [1, inf], default 2048

capture_distance

Distance around the probe volume that will be considered during the bake

TYPE:

float in [1e-06, inf], default 20.0

capture_emission

Bake emissive surfaces for more accurate lighting

TYPE:

boolean, default True

capture_indirect

Bake light bounces from light sources for more accurate lighting

TYPE:

boolean, default True

capture world

Bake incoming light from the world instead of just the visibility for more accurate lighting, but lose correct blending to surrounding irradiance volumes

TYPE:

boolean, default False

clamp_direct

Clamp the direct lighting intensity to reduce noise (0 to disable)

TYPE:

float in [0, inf], default 0.0

clamp_indirect

Clamp the indirect lighting intensity to reduce noise (0 to disable)

TYPE:

float in [0, inf], default 10.0

dilation radius

Radius in grid sample to search valid grid samples to copy into invalid grid samples

TYPE:

float in [1, 5], default 1.0

191 49 41 1 1

```
dilation threshold
```

Ratio of front-facing surface hits under which a grid sample will reuse neighbors grid sample lighting

```
TYPE:
```

```
float in [0, 1], default 0.5
```

escape bias

Distance to search for valid capture positions to prevent lighting artifacts

TYPE:

```
float in [0, 1], default 0.1
```

facing bias

Smoother irradiance interpolation but introduce light bleeding

TYPE:

```
float in [0, inf], default 0.5
```

intensity

Modify the intensity of the lighting captured by this probe

TYPE:

```
float in [0, inf], default 1.0
```

normal bias

Offset sampling of the irradiance grid in the surface normal direction to reduce light bleeding

TYPE:

```
float in [0, inf], default 0.3
```

$resolution_x$

Number of samples along the x axis of the volume

TYPE:

```
int in [1, 256], default 4
```

resolution_y

Number of samples along the y axis of the volume

TYPE:

```
int in [1, 256], default 4
```

resolution z

Number of samples along the z axis of the volume

TYPE:

```
int in [1, 256], default 4
```

surface_bias

Moves capture points away from surfaces to prevent artifacts

TYPE:

```
float in [0, 1], default 0.05
```

surfel density

Number of surfels to spawn in one local unit distance (higher values improve quality)

TYPE:

```
mt m | 1, mt|, default 20
```

validity threshold

Ratio of front-facing surface hits under which a grid sample will not be considered for lighting

TYPE:

float in [0, 1], default 0.4

view bias

Offset sampling of the irradiance grid in the viewing direction to reduce light bleeding

TYPE:

float in [0, inf], 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:

The class or default when not found.

RETURN TYPE:

type

Inherited Properties

- bpy struct.id data
- ID.name
- ID.name full
- ID.id type
- ID.session uid
- ID.is_evaluated
- ID.original
- ID.users
- ID.use_fake_user
- ID.use_extra_user
- ID.is embedded data
- ID.is missing
- ID.is_runtime_data
- ID.is_editable
- ID.tag
- ID.is_library_indirect
- ID.library
- ID.library weak reference

- ID.asset_data
- ID.override_library
- ID.preview
- LightProbe.type
- LightProbe.clip start
- LightProbe.show clip
- LightProbe.show influence
- LightProbe.influence_distance
- LightProbe.visibility_buffer_bias
- LightProbe.visibility_bleed_bias
- LightProbe.visibility_blur
- LightProbe.visibility collection
- LightProbe.invert_visibility_collection
- LightProbe.show data
- LightProbe.use_data_display
- LightProbe.data_display_size
- LightProbe.animation_data

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 ID.override hierarchy create
- 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 ID.bl_rna_get_subclass_py
- bpy struct.property unset
- bpy_struct.type_recast

- bpy struct.values
- ID.rename
- ID.evaluated get
- ID.copy
- ID.asset mark
- ID.asset clear
- ID.asset_generate_preview
- ID.override create
- ID.user clear
- ID.user remap
- ID.make_local
- ID.user of id
- ID.animation data create
- ID.animation_data_clear
- ID.update tag
- ID.preview ensure
- ID.bl rna get subclass
- LightProbe.bl rna get subclass
- LightProbe.bl_rna_get_subclass_py

Previous LightProbeSphere(LightProbe)

Report issue on this page

Copyright © Blender Authors Made with Furo

Lightgroup(bpy stru

Skip to content LimitDistanceConstraint(Constraint)

```
base classes — bpy_struct, Constraint
```

class bpy.types.LimitDistanceConstraint(Constraint)

Limit the distance from target object

distance

Radius of limiting sphere

TYPE:

float in [-inf, inf], default 0.0

head_tail

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

TYPE:

float in [0, 1], default 0.0

limit_mode

Distances in relation to sphere of influence to allow

- LIMITDIST_INSIDE Inside The object is constrained inside a virtual sphere around the target object, with a radius defined by the limit distance.
- LIMITDIST_OUTSIDE Outside The object is constrained outside a virtual sphere around the target object, with a radius defined by the limit distance.
- LIMITDIST_ONSURFACE On Surface The object is constrained on the surface of a virtual sphere around the target object, with a radius defined by the limit distance.

TYPE:

enum in ['LIMITDIST_INSIDE', 'LIMITDIST_OUTSIDE', 'LIMITDIST_ONSURFACE'], default 'LIMITDIST_INSIDE'

subtarget

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

TYPE:

string, default ", (never None)

target

Target object

TYPE:

Object

use_bbone_shape

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

TYPE:

boolean, default False

use_transform_limit

Transforms are affected by this constraint as well

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.is valid
- Constraint.owner space
- Constraint.target space
- Constraint.space object
- Constraint.space subtarget Constraint.error rotation

- Constraint.mute
 - Constraint.enabled
 - Constraint.show_expanded
- Constraint.active
- Constraint.influence
- Constraint.error location

- 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.type_recast
- 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.values
- Constraint.bl_rna_get_subclass
- Constraint.bl rna get subclass py

Skip to content LimitLocationConstraint(Constraint)

```
base\ classes -- \ \texttt{bpy\_struct},\ \texttt{Constraint}
class bpy.types.LimitLocationConstraint(Constraint)
     Limit the location of the constrained object
     max_x
          Highest X value to allow
          TYPE:
               float in [-inf, inf], default 0.0
     max_y
          Highest Y value to allow
          TYPE:
               float in [-inf, inf], default 0.0
     max_z
          Highest Z value to allow
          TYPE:
               float in [-inf, inf], default 0.0
     min_x
          Lowest X value to allow
          TYPE:
               float in [-inf, inf], default 0.0
     min y
          Lowest Y value to allow
          TYPE:
               float in [-inf, inf], default 0.0
     min z
          Lowest Z value to allow
          TYPE:
               float in [-inf, inf], default 0.0
     use_max_x
          Use the maximum X value
          TYPE:
               boolean, default False
      use_max_y
          Use the maximum Y value
          TYPE:
               boolean, default False
```

use_max_z

```
Use the maximum Z value
    TYPE:
        boolean, default False
use_min_x
   Use the minimum X value
    TYPE:
        boolean, default False
use min y
   Use the minimum Y value
    TYPE:
        boolean, default False
use min z
   Use the minimum Z value
   TYPE:
        boolean, default False
use_transform_limit
   Transform tools are affected by this constraint as well
   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.owner_space Constraint.active
- Constraint.mute
 - Constraint.enabled
 - Constraint.show_expanded
- Constraint.is_override_data Constraint.is_valid
- Constraint.target space Constraint.influence

- Constraint.space object Constraint.error location
- Constraint.space_subtarget 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.type_recast
- 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.values
- Constraint.bl rna get subclass
- Constraint.bl rna get subclass py

Previous LimitDistanceConstraint(Constraint)

Report issue on this page

Copyright © Blender Authors Made with Furo

LimitRotationConstraint(Constrai

LimitRotationConstraint(Constraint)

```
base\ classes -- \ \texttt{bpy\_struct},\ \texttt{Constraint}
class bpy.types.LimitRotationConstraint(Constraint)
    Limit the rotation of the constrained object
     euler order
         Explicitly specify the euler rotation order
          • AUTO Default – Euler using the default rotation order.
          • XYZ XYZ Euler – Euler using the XYZ rotation order.
          • XZY XZY Euler – Euler using the XZY rotation order.
         • YXZ YXZ Euler – Euler using the YXZ rotation order.
          • YZX YZX Euler – Euler using the YZX rotation order.
          • ZXY ZXY Euler – Euler using the ZXY rotation order.
          • ZYX ZYX Euler – Euler using the ZYX rotation order.
         TYPE:
              enum in ['AUTO', 'XYZ', 'XZY', 'YXZ', 'YZX', 'ZXY', 'ZYX'], default 'AUTO'
     max_x
         Upper X angle bound
         TYPE:
              float in [-1000, 1000], default 0.0
     max_y
         Upper Y angle bound
         TYPE:
              float in [-1000, 1000], default 0.0
     max_z
         Upper Z angle bound
         TYPE:
              float in [-1000, 1000], default 0.0
     min x
         Lower X angle bound
         TYPE:
              float in [-1000, 1000], default 0.0
     min y
         Lower Y angle bound
         TYPE:
              float in [-1000, 1000], default 0.0
```

Lower Z angle bound

. * F 1000 10001 1 C 1000

TYPE:

use legacy behavior

Use the old semi-broken behavior that doesn't understand that rotations loop around

TYPE:

boolean, default False

use limit x

Use the minimum X value

TYPE:

boolean, default False

use limit y

Use the minimum Y value

TYPE:

boolean, default False

use_limit_z

Use the minimum Z value

TYPE:

boolean, default False

use_transform_limit

Transform tools are affected by this constraint as well

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:

 $\verb|bpy.types.Struct| subclass|$

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.mute
- Constraint.enabled
- Constraint.show expanded

- Constraint.is override data Constraint.is valid
- Constraint.owner_space Constraint.active
- Constraint.target space
- Constraint.influence
- Constraint.space object Constraint.error location
- Constraint.space subtarget 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.type_recast
- 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.values
- Constraint.bl rna get subclass
- Constraint.bl rna get subclass py

Previous LimitLocationConstraint(Constraint)

Report issue on this page

Copyright © Blender Authors Made with Furo

LimitScaleConstraint(Constrai

Skip to content LimitScaleConstraint(Constraint)

```
base\ classes -- \ \texttt{bpy\_struct},\ \texttt{Constraint}
class bpy.types.LimitScaleConstraint(Constraint)
     Limit the scaling of the constrained object
     max_x
          Highest X value to allow
          TYPE:
               float in [-1000, 1000], default 0.0
     max_y
          Highest Y value to allow
          TYPE:
               float in [-1000, 1000], default 0.0
     max_z
          Highest Z value to allow
          TYPE:
               float in [-1000, 1000], default 0.0
     min_x
          Lowest X value to allow
          TYPE:
               float in [-1000, 1000], default 0.0
     min y
          Lowest Y value to allow
          TYPE:
               float in [-1000, 1000], default 0.0
     min z
          Lowest Z value to allow
          TYPE:
               float in [-1000, 1000], default 0.0
     use_max_x
          Use the maximum X value
          TYPE:
               boolean, default False
     use_max_y
          Use the maximum Y value
          TYPE:
               boolean, default False
```

use_max_z

```
Use the maximum Z value
    TYPE:
        boolean, default False
use_min_x
   Use the minimum X value
    TYPE:
        boolean, default False
use min y
   Use the minimum Y value
    TYPE:
        boolean, default False
use min z
   Use the minimum Z value
   TYPE:
        boolean, default False
use_transform_limit
   Transform tools are affected by this constraint as well
   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.owner_space Constraint.active
- Constraint.mute
 - Constraint.enabled
 - Constraint.show_expanded
- Constraint.is_override_data Constraint.is_valid
- Constraint.target space Constraint.influence

- Constraint.space object Constraint.error location
- Constraint.space_subtarget 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.type_recast
- 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.values
- Constraint.bl rna get subclass
- Constraint.bl rna get subclass py

Previous LimitRotationConstraint(Constraint)

Report issue on this page

Copyright © Blender Authors Made with Furo

LineStyleAlphaModifier(LineStyleModifier)

```
Linesets(bpy_struct)
base class — bpy_struct
class bpy.types.Linesets(bpy_struct)
    Line sets for associating lines and style parameters
     active
         Active line set being displayed
         TYPE:
              FreestyleLineSet, (readonly)
     active\_index
         Index of active line set slot
         TYPE:
             int in [0, inf], default 0
     new(name)
         Add a line set to scene render layer Freestyle settings
         PARAMETERS:
             name (string, (never None)) – New name for the line set (not unique)
         RETURNS:
             Newly created line set
         RETURN TYPE:
              FreestyleLineSet
     remove(lineset)
         Remove a line set from scene render layer Freestyle settings
         PARAMETERS:
             lineset(FreestyleLineSet, (never None)) - Line set to remove
     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
     class method \ 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

- 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.property_unset
- 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.type recast
- bpy struct.values

References

• FreestyleSettings.linesets

Previous LineStyleThicknessModifiers(bpy_struct)

Report issue on this page

Copyright © Blender Authors Made with Furo

LockedTrackConstraint(Constrai

LineStyleAlphaModifier(LineStyleModifier)

```
base classes — bpy struct, LineStyleModifier
subclasses — LineStyleAlphaModifier AlongStroke, LineStyleAlphaModifier CreaseAngle,
LineStyleAlphaModifier Curvature 3D, LineStyleAlphaModifier DistanceFromCamera,
LineStyleAlphaModifier DistanceFromObject, LineStyleAlphaModifier Material,
LineStyleAlphaModifier Noise, LineStyleAlphaModifier Tangent
class bpy.types.LineStyleAlphaModifier(LineStyleModifier)
   Base type to define alpha transparency modifiers
    name
       Name of the modifier
       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

Inherited Functions

• bpy_struct.as_pointer

```
bpy_struct.driver_add
bpy_struct.keyframe_in
bpy_struct.keys
bpy_struct.keys
bpy_struct.path_from_i
bpy_struct.id_properties_clear
bpy_struct.path_resolv
bpy_struct.path_resolv
bpy_struct.pop
bpy_struct.pop
bpy_struct.pop
bpy_struct.property_ov
bpy_struct.property_ov
bpy_struct.property_un
bpy_struct.property_un
bpy_struct.property_un
bpy_struct.property_un
```

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.is_property_readonly
- bpy_struct.is_property_set
- bpy_struct.items

- bpy_struct.values
- LineStyleModifier.bl_rna_get_subclass
- LineStyleModifier.bl_rna_get_subclass_py

References

- FreestyleLineStyle.alpha_modifiers
- LineStyleAlphaModifiers.new
- LineStyleAlphaModifiers.remove

Previous LimitScaleConstraint(Constraint) Report issue on this page Copyright © Blender Authors

Made with Furo

LineStyleAlphaModifier_AlongStroke(LineStyleAlphaModifier_AlongStroke)

No State Almha Madif

LineStyleAlphaModifier_AlongStroke(LineStyleAlphaModifier)

```
base classes — bpy_struct, LineStyleModifier, LineStyleAlphaModifier
```

```
class bpy.types.LineStyleAlphaModifier AlongStroke(LineStyleAlphaModifier)
```

Change alpha transparency along stroke

blend

Specify how the modifier value is blended into the base value

TYPE:

enum in ['MIX', 'ADD', 'SUBTRACT', 'MULTIPLY', 'DIVIDE', 'DIFFERENCE', 'MINIMUM', 'MAXIMUM'], default 'MIX'

curve

Curve used for the curve mapping

TYPE:

CurveMapping, (readonly)

expanded

True if the modifier tab is expanded

TYPE:

boolean, default False

influence

Influence factor by which the modifier changes the property

TYPE:

float in [0, 1], default 0.0

invert

Invert the fade-out direction of the linear mapping

TYPE:

boolean, default False

mapping

Select the mapping type

- LINEAR Linear Use linear mapping.
- ullet CURVE Curve Use curve mapping.

TYPE:

```
enum in ['LINEAR', 'CURVE'], default 'LINEAR'
```

type

Type of the modifier

TYPE:

enum in Linestyle Alpha Modifier Type Items, default 'ALONG STROKE', (readonly)

use

Enable or disable this modifier during stroke rendering

TYPE:

1 1 10 10 1

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 • LineStyleAlphaModifier.name

- 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.values
- 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
- LineStyleModifier.bl rna_get_subclass
- LineStyleModifier.bl rna get subclass py
- LineStyleAlphaModifier.bl rna get subclass
- LineStyleAlphaModifier.bl rna get subclass p

LineStyleAlphaModifier_CreaseAngle(LineStyleAlphaModifier)

```
base classes — bpy_struct, LineStyleModifier, LineStyleAlphaModifier
```

```
class bpy.types.LineStyleAlphaModifier CreaseAngle(LineStyleAlphaModifier)
```

Alpha transparency based on the angle between two adjacent faces

angle_max

Maximum angle to modify thickness

TYPE:

float in [-inf, inf], default 0.0

angle_min

Minimum angle to modify thickness

TYPE:

float in [-inf, inf], default 0.0

blend

Specify how the modifier value is blended into the base value

TYPE:

enum in ['MIX', 'ADD', 'SUBTRACT', 'MULTIPLY', 'DIVIDE', 'DIFFERENCE', 'MINIMUM', 'MAXIMUM'], default 'MIX'

curve

Curve used for the curve mapping

TYPE:

CurveMapping, (readonly)

expanded

True if the modifier tab is expanded

TYPE:

boolean, default False

influence

Influence factor by which the modifier changes the property

TYPE:

float in [0, 1], default 0.0

invert

Invert the fade-out direction of the linear mapping

TYPE:

boolean, default False

mapping

Select the mapping type

- LINEAR Linear Use linear mapping.
- CURVE Curve Use curve mapping.

TYPE:

· ECTRICADI COMMUNICI 1 C 1 CERTINADI

```
type
    Type of the modifier
   TYPE:
        enum in Linestyle Alpha Modifier Type Items, default 'ALONG STROKE', (readonly)
use
   Enable or disable this modifier during stroke rendering
   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 • LineStyleAlphaModifier.name

- bpy struct.as pointer • bpy struct.keyframe insert • 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.values • bpy struct.is property readonly • bpy_struct.is_property_set • bpy_struct.items • bpy struct.keyframe delete
 - 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 • LineStyleModifier.bl rna get subclass • LineStyleModifier.bl rna get subclass py • LineStyleAlphaModifier.bl_rna_get_subclass • LineStyleAlphaModifier.bl rna get subclass p

No

Previous LineStyleAlphaModifier_AlongStroke(LineStyleAlphaModifier)

Copyright © Blender LineStyleAlphaModifier_Curvature_3D(LineStyleA

Made with Furo

Report issue on this page

LineStyleAlphaModifier_Curvature_3D(LineStyleAlphaModifier)

```
base classes — bpy_struct, LineStyleModifier, LineStyleAlphaModifier
```

```
class\ bpy.types. Line Style Alpha Modifier\_Curvature\_3D (Line Style Alpha Modifier)
```

Alpha transparency based on the radial curvature of 3D mesh surfaces

blend

Specify how the modifier value is blended into the base value

TYPE:

enum in ['MIX', 'ADD', 'SUBTRACT', 'MULTIPLY', 'DIVIDE', 'DIFFERENCE', 'MINIMUM', 'MAXIMUM'], default 'MIX'

curvature_max

Maximum Curvature

TYPE:

float in [0, 10000], default 0.0

curvature_min

Minimum Curvature

TYPE:

float in [0, 10000], default 0.0

curve

Curve used for the curve mapping

TYPE:

CurveMapping, (readonly)

expanded

True if the modifier tab is expanded

TYPE:

boolean, default False

influence

Influence factor by which the modifier changes the property

TYPE:

float in [0, 1], default 0.0

invert

Invert the fade-out direction of the linear mapping

TYPE:

boolean, default False

mapping

Select the mapping type

- LINEAR Linear Use linear mapping.
- CURVE Curve Use curve mapping.

```
TYPE:
        enum in ['LINEAR', 'CURVE'], default 'LINEAR'
type
    Type of the modifier
   TYPE:
        enum in Linestyle Alpha Modifier Type Items, default 'ALONG STROKE', (readonly)
use
   Enable or disable this modifier during stroke rendering
   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 • LineStyleAlphaModifier.name

Inherited Functions

• bpy_struct.as_pointer • bpy struct.keyframe insert • bpy struct.driver add • bpy struct.keys • bpy_struct.driver_remove • bpy_struct.path_from_id • bpy struct.path resolve • bpy struct.get • bpy struct.id properties clear • bpy struct.pop • bpy struct.id properties ensure • bpy struct.property overridable library set • bpy struct.id properties ui • bpy struct.property unset • bpy_struct.is_property_hidden • bpy struct.type recast • bpy_struct.is_property_overridable_library • bpy_struct.values • bpy struct.is property readonly • LineStyleModifier.bl_rna_get_subclass • bpy struct.is property set • LineStyleModifier.bl rna get subclass py • bpy struct.items • LineStyleAlphaModifier.bl rna get subclass

• bpy_struct.keyframe_delete

• LineStyleAlphaModifier.bl_rna_get_subclass_p

No

Previous

Copyright © LineStyleAlphaModifier_DistanceFromCamera(LineStyleAlphaModi

LineStyleAlphaModifier_CreaseAngle(LineStyleAlphaModifier) Blender Authors

Made with Furo

Report issue on this page

LineStyleAlphaModifier DistanceFromCamera(LineStyleAlphaM

```
base classes — bpy_struct, LineStyleModifier, LineStyleAlphaModifier
```

${\bf class\ bpy.types. Line Style Alpha Modifier_Distance From Camera (Line Style Alpha Modifier)}$

Change alpha transparency based on the distance from the camera

blend

Specify how the modifier value is blended into the base value

TYPE:

enum in ['MIX', 'ADD', 'SUBTRACT', 'MULTIPLY', 'DIVIDE', 'DIFFERENCE', 'MINIMUM', 'MAXIMUM'], default 'MIX'

curve

Curve used for the curve mapping

TYPE:

CurveMapping, (readonly)

expanded

True if the modifier tab is expanded

TYPE:

boolean, default False

influence

Influence factor by which the modifier changes the property

TYPE:

float in [0, 1], default 0.0

invert

Invert the fade-out direction of the linear mapping

TYPE:

boolean, default False

mapping

Select the mapping type

- LINEAR Linear Use linear mapping.
- CURVE Curve Use curve mapping.

TYPE:

```
enum in ['LINEAR', 'CURVE'], default 'LINEAR'
```

range_max

Upper bound of the input range the mapping is applied

TYPE:

float in [-inf, inf], default 0.0

range min

Lower bound of the input range the mapping is applied

```
TYPE:
        float in [-inf, inf], default 0.0
type
    Type of the modifier
   TYPE:
        enum in Linestyle Alpha Modifier Type Items, default 'ALONG STROKE', (readonly)
use
   Enable or disable this modifier during stroke rendering
   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 • LineStyleAlphaModifier.name

```
• bpy_struct.as_pointer
                                             • bpy struct.keyframe insert
• bpy struct.driver add
                                             • bpy struct.keys
• bpy_struct.driver_remove
                                             • bpy_struct.path_from_id
                                             • bpy struct.path resolve
• bpy struct.get
• bpy struct.id properties clear
                                             • bpy struct.pop
• bpy struct.id properties ensure
                                             • bpy struct.property overridable library set
• bpy struct.id properties ui
                                             • bpy struct.property unset
• bpy struct.is property hidden
                                             • bpy struct.type recast
• bpy_struct.is_property_overridable_library • bpy_struct.values
• bpy struct.is property readonly
                                             • LineStyleModifier.bl_rna_get_subclass
• bpy struct.is property set
                                             • LineStyleModifier.bl rna get subclass py
• bpy struct.items
                                             • LineStyleAlphaModifier.bl rna get subclass
```

• bpy_struct.keyframe_delete

• LineStyleAlphaModifier.bl_rna_get_subclass_p

No

Previous

Copyright © LineStyleAlphaModifier_DistanceFromObject(LineStyleAlphaModi

LineStyleAlphaModifier_Curvature_3D(LineStyleAlphaModifier)Blender Authors

Made with Furo

Report issue on this page

4

LineStyleAlphaModifier DistanceFromObject(LineStyleAlphaMo

```
base classes — bpy_struct, LineStyleModifier, LineStyleAlphaModifier
```

class bpy.types.LineStyleAlphaModifier DistanceFromObject(LineStyleAlphaModifier)

Change alpha transparency based on the distance from an object

blend

Specify how the modifier value is blended into the base value

TYPE:

enum in ['MIX', 'ADD', 'SUBTRACT', 'MULTIPLY', 'DIVIDE', 'DIFFERENCE', 'MINIMUM', 'MAXIMUM'], default 'MIX'

curve

Curve used for the curve mapping

TYPE:

CurveMapping, (readonly)

expanded

True if the modifier tab is expanded

TYPE:

boolean, default False

influence

Influence factor by which the modifier changes the property

TYPE:

float in [0, 1], default 0.0

invert

Invert the fade-out direction of the linear mapping

TYPE:

boolean, default False

mapping

Select the mapping type

- LINEAR Linear Use linear mapping.
- CURVE Curve Use curve mapping.

TYPE:

```
enum in ['LINEAR', 'CURVE'], default 'LINEAR'
```

range_max

Upper bound of the input range the mapping is applied

TYPE:

float in [-inf, inf], default 0.0

range min

Lower bound of the input range the mapping is applied

```
TYPE:
             float in [-inf, inf], default 0.0
     target
         Target object from which the distance is measured
         TYPE:
              Object
     type
         Type of the modifier
         TYPE:
             enum in Linestyle Alpha Modifier Type Items, default 'ALONG STROKE', (readonly)
     use
         Enable or disable this modifier during stroke rendering
         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 • LineStyleAlphaModifier.name

```
• 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.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.is_property_hidden
- bpy_struct.is_property_overridable_library bpy_struct.values
- bpy_struct.is_property_readonly
- bpy_struct.is_property_set
- bpy struct.items
- bpy struct.keyframe delete

- bpy_struct.type_recast
- LineStyleModifier.bl_rna_get_subclass
- LineStyleModifier.bl rna get subclass py
- LineStyleAlphaModifier.bl rna get subclass
- LineStyleAlphaModifier.bl rna get subclass p

Previous Copyright © Blender LineStyleAlphaModifier Material(LineStyleAlphaModifier Material(LineStyleA LineStyleAlphaModifier_DistanceFromCamera(LineStyleAlphaModifier) Authors

Made with Furo

Report issue on this page

LineStyleAlphaModifier_Material(LineStyleAlphaModifier)

```
base classes — bpy_struct, LineStyleModifier, LineStyleAlphaModifier
```

class bpy.types.LineStyleAlphaModifier Material(LineStyleAlphaModifier)

Change alpha transparency based on a material attribute

blend

Specify how the modifier value is blended into the base value

TYPE:

enum in ['MIX', 'ADD', 'SUBTRACT', 'MULTIPLY', 'DIVIDE', 'DIFFERENCE', 'MINIMUM', 'MAXIMUM'], default 'MIX'

curve

Curve used for the curve mapping

TYPE:

CurveMapping, (readonly)

expanded

True if the modifier tab is expanded

TYPE:

boolean, default False

influence

Influence factor by which the modifier changes the property

TYPE:

float in [0, 1], default 0.0

invert

Invert the fade-out direction of the linear mapping

TYPE:

boolean, default False

mapping

Select the mapping type

- LINEAR Linear Use linear mapping.
- CURVE Curve Use curve mapping.

TYPE:

```
enum in ['LINEAR', 'CURVE'], default 'LINEAR'
```

material attribute

Specify which material attribute is used

TYPE:

```
enum in ['LINE', 'LINE_R', 'LINE_G', 'LINE_B', 'LINE_A', 'DIFF', 'DIFF_R', 'DIFF_G', 'DIFF_B', 'SPEC_R', 'SPEC_B', 'SPEC_HARD', 'ALPHA'], default 'LINE'
```

type

Type of the modifier

TV/DE

```
TYPE:
```

enum in Linestyle Alpha Modifier Type Items, default 'ALONG STROKE', (readonly)

Enable or disable this modifier during stroke rendering

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 • LineStyleAlphaModifier.name

- 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.values
- 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
- LineStyleModifier.bl rna get subclass
- LineStyleModifier.bl rna get subclass py
- LineStyleAlphaModifier.bl_rna_get_subclass
- LineStyleAlphaModifier.bl rna get subclass p

Report issue on this page

LineStyleAlphaModifier_Noise(LineStyleAlphaModifier)

```
base classes — bpy_struct, LineStyleModifier, LineStyleAlphaModifier
```

```
class bpy.types.LineStyleAlphaModifier_Noise(LineStyleAlphaModifier)
```

Alpha transparency based on random noise

amplitude

Amplitude of the noise

TYPE:

float in [-inf, inf], default 0.0

blend

Specify how the modifier value is blended into the base value

TYPE:

enum in ['MIX', 'ADD', 'SUBTRACT', 'MULTIPLY', 'DIVIDE', 'DIFFERENCE', 'MINIMUM', 'MAXIMUM'], default 'MIX'

curve

Curve used for the curve mapping

TYPE:

CurveMapping, (readonly)

expanded

True if the modifier tab is expanded

TYPE:

boolean, default False

influence

Influence factor by which the modifier changes the property

TYPE:

float in [0, 1], default 0.0

inver

Invert the fade-out direction of the linear mapping

TYPE:

boolean, default False

mapping

Select the mapping type

- LINEAR Linear Use linear mapping.
- CURVE Curve Use curve mapping.

TYPE:

```
enum in ['LINEAR', 'CURVE'], default 'LINEAR'
```

period

Period of the noise

TYPE:

```
float in |-int, int|, default 0.0
seed
    Seed for the noise generation
    TYPE:
         int in [1, 32767], default 0
type
    Type of the modifier
    TYPE:
         enum in Linestyle Alpha Modifier Type Items, default 'ALONG STROKE', (readonly)
use
    Enable or disable this modifier during stroke rendering
    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 • LineStyleAlphaModifier.name

```
• bpy struct.as pointer
                                             • bpy struct.keyframe insert
• bpy struct.driver add
                                             • bpy struct.keys
• bpy struct.driver remove
                                             • bpy struct.path from id
• bpy struct.get
                                             • bpy struct.path resolve
• bpy struct.id properties clear
                                             • bpy struct.pop
• bpy_struct.id_properties_ensure
                                             • bpy_struct.property_overridable_library_set
• bpy_struct.id_properties_ui
                                             • bpy_struct.property_unset
• bpy struct.is property hidden
                                             • bpy struct.type recast
• how struct is property overridable library • how struct values
```

- ppy_struct.is_property_overframe=_fibrary ppy_struct.values
- bpy_struct.is_property_readonly
- bpy_struct.is_property_set
- bpy_struct.items
- bpy struct.keyframe delete

- 112_11
- LineStyleModifier.bl_rna_get_subclass
- LineStyleModifier.bl_rna_get_subclass_py
- LineStyleAlphaModifier.bl_rna_get_subclass
- LineStyleAlphaModifier.bl_rna_get_subclass_p

Previous
LineStyleAlphaModifier_Material(LineStyleAlphaModifier)
Report issue on this page

Copyright © Blender Authors LineStyleAlphaModifier_Tangent(LineStyleAlphaModifier_Made with Furo

LineStyleAlphaModifier_Tangent(LineStyleAlphaModifier)

```
base classes — bpy_struct, LineStyleModifier, LineStyleAlphaModifier
```

```
class bpy.types.LineStyleAlphaModifier Tangent(LineStyleAlphaModifier)
```

Alpha transparency based on the direction of the stroke

blend

Specify how the modifier value is blended into the base value

TYPE:

enum in ['MIX', 'ADD', 'SUBTRACT', 'MULTIPLY', 'DIVIDE', 'DIFFERENCE', 'MINIMUM', 'MAXIMUM'], default 'MIX'

curve

Curve used for the curve mapping

TYPE:

CurveMapping, (readonly)

expanded

True if the modifier tab is expanded

TYPE:

boolean, default False

influence

Influence factor by which the modifier changes the property

TYPE:

float in [0, 1], default 0.0

invert

Invert the fade-out direction of the linear mapping

TYPE:

boolean, default False

mapping

Select the mapping type

- LINEAR Linear Use linear mapping.
- CURVE Curve Use curve mapping.

TYPE:

```
enum in ['LINEAR', 'CURVE'], default 'LINEAR'
```

type

Type of the modifier

TYPE:

enum in Linestyle Alpha Modifier Type Items, default 'ALONG STROKE', (readonly)

use

Enable or disable this modifier during stroke rendering

TYPE:

1 1 10 10 1

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 • LineStyleAlphaModifier.name

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.values
- 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
- LineStyleModifier.bl rna_get_subclass
- LineStyleModifier.bl rna get subclass py
- LineStyleAlphaModifier.bl rna get subclass
- LineStyleAlphaModifier.bl rna get subclass p

Previous LineStyleAlphaModifier Noise(LineStyleAlphaModifier)

Report issue on this page

Copyright © Blender Authors Made with Furo

LineStyleAlphaModifiers(bpy stru

LineStyleAlphaModifiers(bpy_struct)

```
base class — bpy_struct
```

class bpy.types.LineStyleAlphaModifiers(bpy struct)

Alpha modifiers for changing line alphas

new(name, type)

Add a alpha modifier to line style

PARAMETERS:

- name (string, (never None)) New name for the alpha modifier (not unique)
- type (enum in Linestyle Alpha Modifier Type Items) Alpha modifier type to add

RETURNS:

Newly added alpha modifier

RETURN TYPE:

LineStyleAlphaModifier

remove(modifier)

Remove a alpha modifier from line style

PARAMETERS:

modifier (LineStyleAlphaModifier, (never None)) - Alpha modifier to remove

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

- bpy_struct.as_pointer
- bpy_struct.driver_add

- bpy_struct.items
- bpy_struct.keyframe_delete

- 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.property_unset
- bpy struct.is property readonly
- bpy_struct.is_property_set

- 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.type recast
- bpy struct.values

References

• FreestyleLineStyle.alpha_modifiers

LineStyleAlphaModifier Tangent(LineStyleAlphaModifier)

Copyright © Blender Authors Made with Furo

LineStyleColorModifier(LineStyleModifier)

Report issue on this page

LineStyleColorModifier(LineStyleModifier)

```
base classes — bpy_struct, LineStyleModifier
subclasses — LineStyleColorModifier AlongStroke, LineStyleColorModifier CreaseAngle,
LineStyleColorModifier Curvature 3D, LineStyleColorModifier DistanceFromCamera,
LineStyleColorModifier DistanceFromObject, LineStyleColorModifier Material,
LineStyleColorModifier Noise, LineStyleColorModifier Tangent
class bpy.types.LineStyleColorModifier(LineStyleModifier)
   Base type to define line color modifiers
    name
       Name of the modifier
       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

```
• bpy_struct.keyframe_delete
• bpy_struct.as_pointer
• bpy struct.driver add
                                             • bpy struct.keyframe insert
• bpy struct.driver remove
                                             • bpy struct.keys
• bpy_struct.get
                                             • bpy struct.path from id
• bpy struct.id properties clear
                                             • bpy struct.path resolve
• bpy struct.id properties ensure
                                             • bpy struct.pop
• bpy_struct.id_properties_ui
                                             • bpy_struct.property_overridable_library_set
• bpy struct.is property hidden
                                             • bpy struct.property unset
• bpv struct.is property overridable library • bpv struct.type recast
```

- bpy_struct.is_property_readonly
- bpy_struct.is_property_set
- bpy_struct.items

- bpy struct.values
- LineStyleModifier.bl_rna_get_subclass
- LineStyleModifier.bl_rna_get_subclass_py

References

- LineStyleColorModifiers.new

• FreestyleLineStyle.color_modifiers
• LineStyleColorModifiers.remove

Previous LineStyleAlphaModifiers(bpy_struct)

Report issue on this page

Copyright © Blender Authors Made with Furo

 $Line Style Color Modifier_Along Stroke (Line Style Color Modifier_Along Stroke (Line$

 N_{ϵ}