# FreestyleLineStyle(ID)

```
base classes — bpy_struct, ID
class bpy.types.FreestyleLineStyle(ID)
    Freestyle line style, reusable by multiple line sets
     active texture
         Active texture slot being displayed
         TYPE:
              Texture
     active_texture_index
         Index of active texture slot
         TYPE:
              int in [0, 17], default 0
     alpha
         Base alpha transparency, possibly modified by alpha transparency modifiers
         TYPE:
              float in [0, 1], default 1.0
     alpha_modifiers
         List of alpha transparency modifiers
         TYPE:
              LineStyleAlphaModifiers bpy_prop_collection of LineStyleAlphaModifier, (readonly)
     angle max
         Maximum 2D angle for splitting chains
         TYPE:
              float in [0, 3.14159], default 0.0
     angle min
         Minimum 2D angle for splitting chains
         TYPE:
              float in [0, 3.14159], default 0.0
     animation data
         Animation data for this data-block
         TYPE:
              AnimData, (readonly)
     caps
         Select the shape of both ends of strokes
         • BUTT Butt - Butt cap (flat).
         • ROUND Round - Round cap (half-circle).
         • SQUARE Square - Square cap (flat and extended).
```

```
TYPE:
         enum in ['BUTT', 'ROUND', 'SQUARE'], default 'BUTT'
chain count
    Chain count for the selection of first N chains
         int in [0, inf], default 10
chaining
    Select the way how feature edges are jointed to form chains
    • PLAIN Plain - Plain chaining.
    • SKETCHY Sketchy - Sketchy chaining with a multiple touch.
    TYPE:
         enum in ['PLAIN', 'SKETCHY'], default 'PLAIN'
color
    Base line color, possibly modified by line color modifiers
    TYPE:
         mathutils.Color of 3 items in [0, inf], default (0.0, 0.0, 0.0)
color modifiers
    List of line color modifiers
    TYPE:
         LineStyleColorModifiers bpy prop collection of LineStyleColorModifier, (readonly)
dash1
    Length of the 1st dash for dashed lines
    TYPE:
         int in [0, 65535], default 0
dash2
    Length of the 2nd dash for dashed lines
    TYPE:
         int in [0, 65535], default 0
dash3
    Length of the 3rd dash for dashed lines
    TYPE:
         int in [0, 65535], default 0
gap1
    Length of the 1st gap for dashed lines
    TYPE:
         int in [0, 65535], default 0
gap2
    Length of the 2nd gap for dashed lines
    TYPE:
```

```
mt m | 0, 65535 |, default 0
```

#### gap3

Length of the 3rd gap for dashed lines

#### TYPE:

int in [0, 65535], default 0

#### geometry modifiers

List of stroke geometry modifiers

#### TYPE:

LineStyleGeometryModifiers bpy prop collection of LineStyleGeometryModifier, (readonly)

#### integration type

Select the way how the sort key is computed for each chain

- MEAN Mean The value computed for the chain is the mean of the values obtained for chain vertices.
- MIN Min The value computed for the chain is the minimum of the values obtained for chain vertices.
- MAX Max The value computed for the chain is the maximum of the values obtained for chain vertices.
- FIRST First The value computed for the chain is the value obtained for the first chain vertex.
- LAST Last The value computed for the chain is the value obtained for the last chain vertex.

#### TYPE:

```
enum in ['MEAN', 'MIN', 'MAX', 'FIRST', 'LAST'], default 'MEAN'
```

#### length\_max

Maximum curvilinear 2D length for the selection of chains

#### TYPE:

float in [0, 10000], default 10000.0

#### length\_min

Minimum curvilinear 2D length for the selection of chains

#### TYPE:

float in [0, 10000], default 0.0

#### material boundary

If true, chains of feature edges are split at material boundaries

#### TYPE:

boolean, default False

#### node tree

Node tree for node-based shaders

#### TYPE:

```
NodeTree, (readonly)
```

#### panel

Select the property panel to be shown

- STROKES Strokes Show the panel for stroke construction.
- COLOR Color Show the panel for line color options.
- ALPHA Alpha Show the panel for alpha transparency options.
- THICKNESS Thickness Show the panel for line thickness options.

- GEOMETRY Geometry Show the panel for stroke geometry options.
- TEXTURE Texture Show the panel for stroke texture options.

#### TYPE:

enum in ['STROKES', 'COLOR', 'ALPHA', 'THICKNESS', 'GEOMETRY', 'TEXTURE'], default 'STROKES'

#### rounds

Number of rounds in a sketchy multiple touch

#### TYPE:

int in [1, 1000], default 3

#### sort key

Select the sort key to determine the stacking order of chains

- DISTANCE\_FROM\_CAMERA Distance from Camera Sort by distance from camera (closer lines lie on top of further lines).
- 2D LENGTH 2D Length Sort by curvilinear 2D length (longer lines lie on top of shorter lines).
- PROJECTED X Projected X Sort by the projected X value in the image coordinate system.
- PROJECTED Y Projected Y Sort by the projected Y value in the image coordinate system.

#### TYPE:

enum in ['DISTANCE\_FROM\_CAMERA', '2D\_LENGTH', 'PROJECTED\_X', 'PROJECTED\_Y'], default 'DISTANCE FROM CAMERA'

#### sort order

Select the sort order

- DEFAULT Default Default order of the sort key.
- REVERSE Reverse Reverse order.

#### TYPE:

enum in ['DEFAULT', 'REVERSE'], default 'DEFAULT'

#### split\_dash1

Length of the 1st dash for splitting

#### TYPE:

int in [0, 65535], default 0

#### split\_dash2

Length of the 2nd dash for splitting

#### TYPE:

int in [0, 65535], default 0

#### split\_dash3

Length of the 3rd dash for splitting

#### TYPE:

int in [0, 65535], default 0

#### split\_gap1

Length of the 1st gap for splitting

#### TYPE:

int in [0, 65535], default 0

#### split gap2

```
Length of the 2nd gap for splitting
   TYPE:
        int in [0, 65535], default 0
split_gap3
   Length of the 3rd gap for splitting
   TYPE:
        int in [0, 65535], default 0
split length
   Curvilinear 2D length for chain splitting
   TYPE:
        float in [0, 10000], default 100.0
texture_slots
   Texture slots defining the mapping and influence of textures
   TYPE:
        LineStyleTextureSlots bpy prop collection of LineStyleTextureSlot, (readonly)
texture spacing
   Spacing for textures along stroke length
   TYPE:
        float in [0.01, 100], default 1.0
thickness
   Base line thickness, possibly modified by line thickness modifiers
   TYPE:
        float in [0, 10000], default 3.0
thickness modifiers
   List of line thickness modifiers
   TYPE:
        thickness position
   Thickness position of silhouettes and border edges (applicable when plain chaining is used with the Same Object option)
   • CENTER Center – Silhouettes and border edges are centered along stroke geometry.
    • INSIDE Inside – Silhouettes and border edges are drawn inside of stroke geometry.
    • OUTSIDE Outside - Silhouettes and border edges are drawn outside of stroke geometry.
    • RELATIVE Relative – Silhouettes and border edges are shifted by a user-defined ratio.
   TYPE:
        enum in ['CENTER', 'INSIDE', 'OUTSIDE', 'RELATIVE'], default 'CENTER'
thickness_ratio
```

A number between 0 (inside) and 1 (outside) specifying the relative position of stroke thickness

TYPE:

float in [0, 1], default 0.5

## use\_angle\_max Split chains at points with angles larger than the maximum 2D angle TYPE: boolean, default False use\_angle\_min Split chains at points with angles smaller than the minimum 2D angle TYPE: boolean, default False use\_chain\_count Enable the selection of first N chains TYPE: boolean, default False use\_chaining Enable chaining of feature edges TYPE: boolean, default True use\_dashed\_line Enable or disable dashed line TYPE: boolean, default False use length max Enable the selection of chains by a maximum 2D length TYPE: boolean, default False use\_length\_min Enable the selection of chains by a minimum 2D length TYPE: boolean, default False use\_nodes Use shader nodes for the line style TYPE: boolean, default False use\_same\_object If true, only feature edges of the same object are joined TYPE: boolean, default True

use\_sorting

TYPE:

Arrange the stacking order of strokes

#### use split length

Enable chain splitting by curvilinear 2D length

#### TYPE:

boolean, default False

#### use\_split\_pattern

Enable chain splitting by dashed line patterns

#### TYPE:

boolean, default False

#### use\_texture

Enable or disable textured strokes

#### TYPE:

boolean, default True

#### 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

#### 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.line style
- BlendData.linestyles
- BlendDataLineStyles.new
- BlendDataLineStyles.remove
- FreestyleLineSet.linestyle

Previous FreestyleLineSet(bpy\_struct) Report issue on this page

Copyright © Blender Authors Made with Furo

FreestyleModuleSettings(bpy stru