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BrushGpencilSettings(bpy_struct)

```
base class — bpy_struct
class\ bpy.types. Brush Gpencil Settings (bpy\_struct)
    Settings for Grease Pencil brush
     active_smooth_factor
         Amount of smoothing while drawing
         TYPE:
              float in [0, 1], default 0.0
     angle
         Direction of the stroke at which brush gives maximal thickness (0° for horizontal)
         TYPE:
              float in [-1.5708, 1.5708], default 0.0
     angle_factor
         Reduce brush thickness by this factor when stroke is perpendicular to 'Angle' direction
         TYPE:
              float in [0, 1], default 0.0
     aspect
         TYPE:
              mathutils. Vector of 2 items in [0.01, 1], default (1.0, 1.0)
     brush_draw_mode
         Preselected mode when using this brush
         • ACTIVE Active – Use current mode.
         • MATERIAL Material – Use always material mode.
         • VERTEXCOLOR Vertex Color – Use always Vertex Color mode.
         TYPE:
              enum in ['ACTIVE', 'MATERIAL', 'VERTEXCOLOR'], default 'ACTIVE'
     caps_type
         The shape of the start and end of the stroke
         TYPE:
              enum in ['ROUND', 'FLAT'], default 'ROUND'
     curve jitter
         Curve used for the jitter effect
         TYPE:
              CurveMapping, (readonly)
     curve_random_hue
         Curve used for modulating effect
         TYPE:
```

CurveMapping, (readonly)

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curve_random_pressure

Curve used for modulating effect
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TYPE:

CurveMapping, (readonly)

$curve_random_saturation$

Curve used for modulating effect

TYPE:

CurveMapping, (readonly)

$curve_random_strength$

Curve used for modulating effect

TYPE:

CurveMapping, (readonly)

curve_random_uv

Curve used for modulating effect

TYPE:

CurveMapping, (readonly)

curve_random_value

Curve used for modulating effect

TYPE:

CurveMapping, (readonly)

$curve_sensitivity$

Curve used for the sensitivity

TYPE:

CurveMapping, (readonly)

$curve_strength$

Curve used for the strength

TYPE:

CurveMapping, (readonly)

dilate

Number of pixels to expand or contract fill area

TYPE:

int in [-40, 40], default 1

eraser_mode

Eraser Mode

- SOFT Dissolve Erase strokes, fading their points strength and thickness.
- HARD Point Erase stroke points.
- STROKE Stroke Erase entire strokes.

TYPE:

enum in ['SOFT', 'HARD', 'STROKE'], default 'SOFT'

eraser strength factor

Amount of erasing for strength

TYPE:

float in [0, 100], default 0.0

eraser_thickness_factor

Amount of erasing for thickness

TYPE:

float in [0, 100], default 0.0

extend_stroke_factor

Strokes end extension for closing gaps, use zero to disable

TYPE:

float in [0, 10], default 0.0

fill direction

Direction of the fill

- NORMAL Normal Fill internal area.
- INVERT Inverted Fill inverted area.

TYPE:

enum in ['NORMAL', 'INVERT'], default 'NORMAL'

fill_draw_mode

Mode to draw boundary limits

- BOTH All-Use both visible strokes and edit lines as fill boundary limits.
- STROKE Strokes Use visible strokes as fill boundary limits.
- CONTROL Edit Lines Use edit lines as fill boundary limits.

TYPE:

enum in ['BOTH', 'STROKE', 'CONTROL'], default 'BOTH'

$fill_extend_mode$

Types of stroke extensions used for closing gaps

- EXTEND Extend Extend strokes in straight lines.
- RADIUS Radius Connect endpoints that are close together.

TYPE:

enum in ['EXTEND', 'RADIUS'], default 'EXTEND'

fill_factor

Factor for fill boundary accuracy, higher values are more accurate but slower

TYPE:

float in [0.05, 8], default 0.0

fill_layer_mode

Layers used as boundaries

- VISIBLE Visible Visible layers.
- ACTIVE Active Only active layer.

ABOVE Layer Above – Layer above active.

• BELOW Layer Below - Layer below active.

- ALL ABOVE All Above All layers above active.
- ALL BELOW All Below All layers below active.

TYPE:

enum in ['VISIBLE', 'ACTIVE', 'ABOVE', 'BELOW', 'ALL ABOVE', 'ALL BELOW'], default 'VISIBLE'

fill simplify level

Number of simplify steps (large values reduce fill accuracy)

TYPE:

int in [0, 10], default 0

$fill_threshold$

Threshold to consider color transparent for filling

TYPE:

float in [0, 1], default 0.0

hardness

Gradient from the center of Dot and Box strokes (set to 1 for a solid stroke)

TYPE:

float in [0.001, 1], default 1.0

input_samples

Generated intermediate points for very fast mouse movements (Set to 0 to disable)

TYPE:

int in [0, 10], default 0

material

Material used for strokes drawn using this brush

TYPE:

Material

material alt

Material used for secondary uses for this brush

TYPE:

Material

outline_thickness_factor

Thickness of the outline stroke relative to current brush thickness

TYPE:

float in [0, 1], default 0.0

pen jitter

Jitter factor of brush radius for new strokes

TYPE:

float in [0, 100], default 0.0

pen_smooth_factor

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Amount of smoothing to apply after finish newly created strokes, to reduce jitter/noise
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TYPE:
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float in [0, 2], default 0.0

pen_smooth_steps

Number of times to smooth newly created strokes

TYPE:

int in [0, 100], default 0

pen_strength

Color strength for new strokes (affect alpha factor of color)

TYPE:

float in [0, 1], default 0.0

pen_subdivision_steps

Number of times to subdivide newly created strokes, for less jagged strokes

TYPE:

int in [0, 3], default 0

pin draw mode

Pin the mode to the brush

TYPE:

boolean, default False

$random_hue_factor$

Random factor to modify original hue

TYPE:

float in [0, 1], default 0.0

random_pressure

Randomness factor for pressure in new strokes

TYPE:

float in [0, 1], default 0.0

random_saturation_factor

Random factor to modify original saturation

TYPE:

float in [0, 1], default 0.0

$random_strength$

Randomness factor strength in new strokes

TYPE:

float in [0, 1], default 0.0

$random_value_factor$

Random factor to modify original value

TYPE:

float in [0, 1], default 0.0

show fill

Show transparent lines to use as boundary for filling

TYPE:

boolean, default True

show_fill_boundary

Show help lines for filling to see boundaries

TYPE:

boolean, default True

show_fill_extend

Show help lines for stroke extension

TYPE:

boolean, default True

show_lasso

Do not display fill color while drawing the stroke

TYPE:

boolean, default False

simplify factor

Factor of Simplify using adaptive algorithm

TYPE:

float in [0, 100], default 0.0

simplify_pixel_threshold

Threshold in screen space used for the simplify algorithm. Points within this threshold are treated as if they were in a straight line.

TYPE:

float in [0, 10], default 0.0

use_active_layer_only

Only edit the active layer of the object

TYPE:

boolean, default False

use_collide_strokes

Check if extend lines collide with strokes

TYPE:

boolean, default False

use_edit_position

The brush affects the position of the point

TYPE:

boolean, default False

use edit strength

The brush affects the color strength of the point

TV/DF.

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LIFE:
         boolean, default False
use_edit_thickness
    The brush affects the thickness of the point
         boolean, default False
use edit uv
    The brush affects the UV rotation of the point
    TYPE:
         boolean, default False
use_fill_limit
    Fill only visible areas in viewport
    TYPE:
         boolean, default True
use_jitter_pressure
    Use tablet pressure for jitter
    TYPE:
         boolean, default False
use_keep_caps_eraser
    Keep the caps as they are and don't flatten them when erasing
    TYPE:
         boolean, default False
use_material_pin
    Keep material assigned to brush
    TYPE:
         boolean, default False
use_occlude_eraser
    Erase only strokes visible and not occluded
    TYPE:
         boolean, default False
use_pressure
    Use tablet pressure
    TYPE:
```

boolean, default False

use_random_press_hue

Use pressure to modulate randomness

TYPE:

boolean, default False

use_random_press_radius

Use pressure to modulate randomness
TYPE:
boolean, default False
use_random_press_sat
Use pressure to modulate randomness
TYPE:
boolean, default False
use_random_press_strength
Use pressure to modulate randomness
TYPE:
boolean, default False
use_random_press_uv
Use pressure to modulate randomness
TYPE:
boolean, default False
use random press_val
Use pressure to modulate randomness
TYPE:
boolean, default False
use_settings_outline
Convert stroke to outline
TYPE:
boolean, default False
use_settings_postprocess
Additional post processing options for new strokes
TYPE:
boolean, default False
use_settings_random
Random brush settings
TYPE:
boolean, default False
use_settings_stabilizer
Draw lines with a delay to allow smooth strokes (press Shift key to override while drawing)
TYPE:
boolean, default True
use_strength_pressure
Use tablet pressure for color strength
TYPE:
boolean, default False

use stroke random hue Use randomness at stroke level TYPE: boolean, default False $use_stroke_random_radius$ Use randomness at stroke level TYPE: boolean, default False use_stroke_random_sat Use randomness at stroke level TYPE: boolean, default False $use_stroke_random_strength$ Use randomness at stroke level TYPE: boolean, default False use_stroke_random_uv Use randomness at stroke level TYPE: boolean, default False $use_stroke_random_val$ Use randomness at stroke level TYPE: boolean, default False use_trim Trim intersecting stroke ends TYPE:

boolean, default False

uv_random

Random factor for auto-generated UV rotation

TYPE:

float in [0, 1], default 0.0

vertex_color_factor

Factor used to mix vertex color to get final color

TYPE:

float in [0, 1], default 0.0

vertex mode

Defines how vertex color affect to the strokes

STROKE Stroke - Vertex Color affects to Stroke only.

- FILL Fill Vertex Color affects to Fill only.
- BOTH Stroke & Fill Vertex Color affects to Stroke and Fill.

TYPE:

enum in ['STROKE', 'FILL', 'BOTH'], default 'STROKE'

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

References

• Brush.gpencil_settings

Dianica (encomparamento)

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