Skip to content GreasePencilBuildModifier(Modifier)

```
base\ classes -- \ \texttt{bpy\_struct}, \ \texttt{Modifier}
```

class bpy.types.GreasePencilBuildModifier(Modifier)

Animate strokes appearing and disappearing

concurrent_time_alignment

How should strokes start to appear/disappear

- START Align Start All strokes start at same time (i.e. short strokes finish earlier).
- ullet END Align End All strokes end at same time (i.e. short strokes start later).

TYPE:

```
enum in ['START', 'END'], default 'START'
```

fade_factor

Defines how much of the stroke is fading in/out

TYPE:

float in [0, 1], default 0.0

fade_opacity_strength

How much strength fading applies on top of stroke opacity

TYPE:

float in [0, 1], default 0.0

$fade_thickness_strength$

How much strength fading applies on top of stroke thickness

TYPE:

float in [0, 1], default 0.0

frame_end

End Frame (when Restrict Frame Range is enabled)

TYPE:

float in [-1.04857e+06, 1.04857e+06], default 125.0

frame_start

Start Frame (when Restrict Frame Range is enabled)

TYPE:

float in [-1.04857e+06, 1.04857e+06], default 1.0

invert_layer_filter

Invert layer filter

TYPE:

boolean, default False

invert layer pass filter

Invert layer pass filter

TYPE:

1 1 10 10 1

invert material filter

Invert material filter

TYPE:

boolean, default False

invert material pass filter

Invert material pass filter

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

Maximum number of frames that the build effect can run for (unless another GP keyframe occurs before this time has elapsed)

TYPE:

float in [1, 1.04857e+06], default 100.0

material_filter

Material used for filtering

TYPE:

Material

material pass filter

Material pass

TYPE:

int in [0, 100], default 0

mode

How strokes are being built

- SEQUENTIAL Sequential Strokes appear/disappear one after the other, but only a single one changes at a time.
- CONCURRENT Concurrent Multiple strokes appear/disappear at once.
- ADDITIVE Additive Builds only new strokes (assuming 'additive' drawing).

TYPE:

enum in ['SEQUENTIAL', 'CONCURRENT', 'ADDITIVE'], default 'SEQUENTIAL'

object

Object used as build starting position

TYPE:

```
open_fading_panel
    TYPE:
         boolean, default False
open_frame_range_panel
    TYPE:
         boolean, default False
open_influence_panel
    TYPE:
         boolean, default False
percentage_factor
    Defines how much of the stroke is visible
    TYPE:
         float in [0, 1], default 0.0
speed_factor
    Multiply recorded drawing speed by a factor
    TYPE:
         float in [0, 100], default 1.2
speed_maxgap
    The maximum gap between strokes in seconds
    TYPE:
         float in [0, 100], default 0.5
start delay
    Number of frames after each GP keyframe before the modifier has any effect
    TYPE:
         float in [0, 1.04857e+06], default 0.0
target_vertex_group
    Output Vertex group
    TYPE:
         string, default ", (never None)
time mode
```

Use drawing speed, a number of frames, or a manual factor to build strokes

- DRAWSPEED Natural Drawing Speed Use recorded speed multiplied by a factor.
- FRAMES Number of Frames Set a fixed number of frames for all build animations.
- PERCENTAGE Percentage Factor Set a manual percentage to build.

TYPE:

```
enum in ['DRAWSPEED', 'FRAMES', 'PERCENTAGE'], default 'FRAMES'
```

transition

How are strokes animated (i.e. are they appearing or disappearing)

- GROW Grow Show points in the order they occur in each stroke (e.g. for animating lines being drawn).
- SHRINK Shrink Hide points from the end of each stroke to the start (e.g. for animating lines being erased).
- FADE Vanish Hide points in the order they occur in each stroke (e.g. for animating ink fading or vanishing after getting drawn).

TYPE:

enum in ['GROW', 'SHRINK', 'FADE'], default 'GROW'

use fading

Fade out strokes instead of directly cutting off

TYPE:

boolean, default False

use_layer_pass_filter

Use layer pass filter

TYPE:

boolean, default False

use material pass filter

Use material pass filter

TYPE:

boolean, default False

use_percentage

Use a percentage factor to determine the visible points

TYPE:

boolean, default False

use_restrict_frame_range

Only modify strokes during the specified frame range

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
- Modifier.name
- Modifier.type

- Modifier.show expanded
- Modifier.is active
- Modifier.use pin to last
- Modifier.show_viewport
 Modifier.is_override_data
- 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.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
- Modifier.bl rna get subclass
- Modifier.bl_rna_get_subclass_py

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GreasePencilColorModifier(Modifier)