CurveMapping(bpy_struct)

base class — bpy_struct

class bpy.types.**CurveMapping(bpy_struct)**

Curve mapping to map color, vector and scalar values to other values using a user defined curve

black_level

For RGB curves, the color that black is mapped to

TYPE:

mathutils.Color of 3 items in [-inf, inf], default (0.0, 0.0, 0.0)

clip_max_x

TYPE:

float in [-100, 100], default 0.0

clip_max_y

TYPE:

float in [-100, 100], default 0.0

clip_min_x

TYPE:

float in [-100, 100], default 0.0

clip_min_y

TYPE:

float in [-100, 100], default 0.0

curves

TYPE:

bpy_prop_collection of CurveMap, (readonly)

extend

Extrapolate the curve or extend it horizontally

TYPE:

enum in ['HORIZONTAL', 'EXTRAPOLATED'], default 'HORIZONTAL'

tone

Tone of the curve

- STANDARD Standard – Combined curve is applied to each channel individually, which may result in a change of hue.
- FILMLIKE Filmlike – Keeps the hue constant.

TYPE:

enum in ['STANDARD', 'FILMLIKE'], default 'STANDARD'

use_clip

Force the curve view to fit a defined boundary

TYPE:

boolean, default False

white_level

white_level

For RGB curves, the color that white is mapped to

TYPE:

mathutils.Color of 3 items in [-inf, inf], default (0.0, 0.0, 0.0)

update()

Update curve mapping after making changes

reset_view()

Reset the curve mapping grid to its clipping size

initialize()

Initialize curve

evaluate(curve, position)

Evaluate curve at given location

PARAMETERS:

- **curve** (CurveMap , (never None)) – curve, Curve to evaluate
- **position** (*float in [-inf, inf]*) – Position, Position to evaluate curve at

RETURNS:

Value, Value of curve at given location

RETURN TYPE:

float in [-inf, inf]

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.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.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.property_unset
- bpy_struct.type_recast
- bpy_struct.values

References

- Brush.automasking_cavity_curve
- Brush.curve
- BrushCurvesSculptSettings.curve_parameter_falloff
- BrushGpencilSettings.curve_jitter
- BrushGpencilSettings.curve_random_hue
- BrushGpencilSettings.curve_random_pressure
- BrushGpencilSettings.curve_random_saturation
- BrushGpencilSettings.curve_random_strength
- BrushGpencilSettings.curve_random_uv
- BrushGpencilSettings.curve_random_value
- BrushGpencilSettings.curve_sensitivity
- BrushGpencilSettings.curve_strength
- ColorManagedViewSettings.curve_mapping
- CompositorNodeCurveRGB.mapping
- CompositorNodeCurveVec.mapping
- CompositorNodeHueCorrect.mapping
- CompositorNodeTime.curve
- CurvesModifier.curve_mapping
- EQCurveMappingData.curve_mapping
- GPencilInterpolateSettings.interpolation_curve
- GPencilSculptSettings.multiframe_falloff_curve
- GPencilSculptSettings.thickness_primitive_curve
- GreasePencilColorModifier.custom_curve
- GreasePencilHookModifier.custom_curve
- GreasePencilNoiseModifier.custom_curve
- GreasePencilOpacityModifier.custom_curve
- GreasePencilSmoothModifier.custom_curve
- GreasePencilThickModifierData.custom_curve
- GreasePencilTintModifier.custom_curve
- HookModifier.falloff_curve
- HueCorrectModifier.curve_mapping
- LineStyleAlphaModifier_AlongStroke.curve
- LineStyleAlphaModifier_CreaseAngle.cu
- LineStyleAlphaModifier_Curvature_3D.c
- LineStyleAlphaModifier_DistanceFromCa
- LineStyleAlphaModifier_DistanceFromOb
- LineStyleAlphaModifier_Material.curve
- LineStyleAlphaModifier_Noise.curve
- LineStyleAlphaModifier_Tangent.curve
- LineStyleThicknessModifier_AlongStrok
- LineStyleThicknessModifier_CreaseAngl
- LineStyleThicknessModifier_Curvature_
- LineStyleThicknessModifier_DistanceFr
- LineStyleThicknessModifier_DistanceFr
- LineStyleThicknessModifier_Material.c
- LineStyleThicknessModifier_Tangent.cu
- Paint.cavity_curve
- ParticleBrush.curve
- ParticleSettings.clump_curve
- ParticleSettings.roughness_curve
- ParticleSettings.twist_curve
- RenderSettings.motion_blur_shutter_cu
- Sculpt.automasking_cavity_curve
- Sculpt.automasking_cavity_curve_op
- ShaderNodeFloatCurve.mapping
- ShaderNodeRGBCurve.mapping
- ShaderNodeVectorCurve.mapping
- TextureNodeCurveRGB.mapping
- TextureNodeCurveTime.curve
- UvSculpt.strength_curve
- VertexWeightEditModifier.map_curve
- VertexWeightProximityModifier.map_cur
- WarpModifier.falloff_curve

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