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MusgraveTexture(Texture)

base classes — [bpy_struct](#), [ID](#), [Texture](#)

class bpy.types.MusgraveTexture(Texture)

Procedural musgrave texture

dimension_max

Highest fractal dimension

TYPE:

float in [0.0001, 2], default 1.0

gain

The gain multiplier

TYPE:

float in [0, 6], default 1.0

lacunarity

Gap between successive frequencies

TYPE:

float in [0, 6], default 2.0

musgrave_type

Fractal noise algorithm

- `MULTIFRACTAL` Multifractal – Use Perlin noise as a basis.
- `RIDGED_MULTIFRACTAL` Ridged Multifractal – Use Perlin noise with inflection as a basis.
- `HYBRID_MULTIFRACTAL` Hybrid Multifractal – Use Perlin noise as a basis, with extended controls.
- `FBM` fBM – Fractal Brownian Motion, use Brownian noise as a basis.
- `HETERO_TERRAIN` Hetero Terrain – Similar to multifractal.

TYPE:

enum in ['MULTIFRACTAL', 'RIDGED_MULTIFRACTAL', 'HYBRID_MULTIFRACTAL', 'FBM', 'HETERO_TERRAIN'], default 'MULTIFRACTAL'

nabla

Size of derivative offset used for calculating normal

TYPE:

float in [0.001, 0.1], default 0.025

noise_basis

Noise basis used for turbulence

- `BLENDER_ORIGINAL` Blender Original – Noise algorithm - Blender original: Smooth interpolated noise.
- `ORIGINAL_PERLIN` Original Perlin – Noise algorithm - Original Perlin: Smooth interpolated noise.
- `IMPROVED_PERLIN` Improved Perlin – Noise algorithm - Improved Perlin: Smooth interpolated noise.
- `VORONOI_F1` Voronoi F1 – Noise algorithm - Voronoi F1: Returns distance to the closest feature point.
- `VORONOI_F2` Voronoi F2 – Noise algorithm - Voronoi F2: Returns distance to the 2nd closest feature point.
- `VORONOI_F3` Voronoi F3 – Noise algorithm - Voronoi F3: Returns distance to the 3rd closest feature point.
- `VORONOI_F4` Voronoi F4 – Noise algorithm - Voronoi F4: Returns distance to the 4th closest feature point.
- `VORONOI_F0_F1` Voronoi F2 F1 – Noise algorithm - Voronoi F1 F2

- `VORONOI_F2_F1` Voronoi F2-F1 – Noise algorithm - Voronoi F1-F2.
- `VORONOI_CRACKLE` Voronoi Crackle – Noise algorithm - Voronoi Crackle: Voronoi tessellation with sharp edges.
- `CELL_NOISE` Cell Noise – Noise algorithm - Cell Noise: Square cell tessellation.

TYPE:

enum in ['BLENDER_ORIGINAL', 'ORIGINAL_PERLIN', 'IMPROVED_PERLIN', 'VORONOI_F1', 'VORONOI_F2', 'VORONOI_F3', 'VORONOI_F4', 'VORONOI_F2_F1', 'VORONOI_CRACKLE', 'CELL_NOISE'], default 'BLENDER_ORIGINAL'

noise_intensity

Intensity of the noise

TYPE:

float in [0, 10], default 1.0

noise_scale

Scaling for noise input

TYPE:

float in [0.0001, inf], default 0.25

octaves

Number of frequencies used

TYPE:

float in [0, 8], default 2.0

offset

The fractal offset

TYPE:

float in [0, 6], default 1.0

users_material

Materials that use this texture

(readonly)

users_object_modifier

Object modifiers that use this texture

(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
- 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
- Texture.type
- Texture.use_clamp
- Texture.use_color_ramp
- Texture.color_ramp
- Texture.intensity
- Texture.contrast
- Texture.saturation
- Texture.factor_red
- Texture.factor_green
- Texture.factor_blue
- Texture.use_preview_alpha
- Texture.use_nodes
- Texture.node_tree
- Texture.animation_data
- Texture.users_material
- Texture.users_object_modifier

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.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
- ID.rename
- ID.evaluated_get
- ID.copy
- ID.asset_mark
- ID.asset_clear
- ID.asset_generate_preview
- ID.override_create
- 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
- ID.bl_rna_get_subclass_py
- Texture.evaluate
- Texture.bl_rna_get_subclass

- `bpy_struct.type_recast`
- `bpy_struct.values`

- `Texture.bl_rna_get_subclass`
- `Texture.bl_rna_get_subclass_py`

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