ShaderNodeBsdfHairPrincipled(ShaderNode)

base classes — bpy_struct, Node, NodeInternal, ShaderNode

class bpy.types.ShaderNodeBsdfHairPrincipled(ShaderNode)

Physically-based, easy-to-use shader for rendering hair and fur

model

Select from Chiang or Huang model

- CHIANG Chiang Near-field hair scattering model by Chiang et al. 2016, suitable for close-up looks, but is more noisy when viewing from a distance..
- HUANG Huang Multi-scale hair scattering model by Huang et al. 2022, suitable for viewing both up close and from a distance, supports elliptical cross-sections and has more precise highlight in forward scattering directions..

TYPE:

enum in ['CHIANG', 'HUANG'], default 'HUANG'

parametrization

Select the shader's color parametrization

- ABSORPTION Absorption Coefficient Directly set the absorption coefficient "sigma a" (this is not the most intuitive way to color hair)
- MELANIN Melanin Concentration Define the melanin concentrations below to get the most realistic-looking hair (you can get the concentrations for different types of hair online).
- COLOR Direct Coloring Choose the color of your preference, and the shader will approximate the absorption coefficient to render lookalike hair.

TYPE:

enum in ['ABSORPTION', 'MELANIN', 'COLOR'], default 'COLOR'

classmethod is registered node type()

True if a registered node type

RETURNS:

Result

RETURN TYPE:

boolean

classmethod input_template(index)

Input socket template

PARAMETERS:

index (int in [0, inf]) – Index

RETURNS:

result

RETURN TYPE:

NodeInternalSocketTemplate

classmethod output_template(index)

Output socket template

PARAMETERS:

index (int in [0, inf]) - Index

RETURNS.

```
MI ON W.
   result
RETURN TYPE:
```

NodeInternalSocketTemplate

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 • Node.select

• Node.type

• Node.location

• Node.location absolute • Node.hide

Node.width

• Node.height

• Node.dimensions

• Node.name

• Node.label

• Node.inputs

• Node.outputs

Node.parent

• Node.warning propagation • Node.bl width max

• Node.use_custom_color • Node.bl_height_default

• Node.color

• Node.show options

Node.show preview

• Node.mute

• Node.show texture

• Node.bl idname

• Node.bl label

• Node.bl description

• Node.bl icon

• Node.bl static type

• Node.internal_links • Node.bl_width_default

• Node.bl width min

• Node.bl height min

• Node.color_tag • Node.bl height max

Inherited Functions

- bpy_struct.as_pointer
- bpy struct.driver add
- bpy_struct.driver_remove
- bpy struct.get
- how struct id properties clear

- Node.poll_instance
- Node.update
- Node.insert link
- Node.init

- ppy betace.ia propercies crear
- 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
- bpy_struct.type_recast
- bpy struct.values
- Node.socket value update
- Node.is_registered_node_type
- Node.poll

- Node.copy
- Node.free
- Node.draw buttons
- Node.draw buttons ext
- Node.draw label
- Node.debug zone body lazy function graph
- Node.debug_zone_lazy_function_graph
- Node.poll
- Node.bl rna get subclass
- Node.bl rna get subclass py
- NodeInternal.poll
- NodeInternal.poll instance
- NodeInternal.update
- NodeInternal.draw buttons
- NodeInternal.draw buttons ext
- NodeInternal.bl_rna_get_subclass
- NodeInternal.bl_rna_get_subclass_py
- ShaderNode.poll
- ShaderNode.bl rna get subclass
- ShaderNode.bl_rna_get_subclass_py

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