#### Skip to content

# ShaderNodeBsdfPrincipled(ShaderNode)

base classes — bpy\_struct, Node, NodeInternal, ShaderNode

# class bpy.types.ShaderNodeBsdfPrincipled(ShaderNode)

Physically-based, easy-to-use shader for rendering surface materials, based on the OpenPBR model

### distribution

Light scattering distribution on rough surface

- GGX GGX.
- MULTI\_GGX Multiscatter GGX GGX with additional correction to account for multiple scattering, preserve energy and prevent unexpected darkening at high roughness.

### TYPE:

```
enum in ['GGX', 'MULTI_GGX'], default 'GGX'
```

# subsurface\_method

Method for rendering subsurface scattering

- BURLEY Christensen-Burley Approximation to physically based volume scattering.
- RANDOM\_WALK Random Walk Volumetric approximation to physically based volume scattering, using the scattering radius as specific
- RANDOM\_WALK\_SKIN Random Walk (Skin) Volumetric approximation to physically based volume scattering, with scattering radius
  automatically adjusted to match color textures. Designed for skin shading.

### TYPE:

```
enum in ['BURLEY', 'RANDOM WALK', 'RANDOM WALK SKIN'], default 'BURLEY'
```

# 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

### class method output template(index)

Output socket template

# **PARAMETERS:**

**index** (int in [0, inf]) – Index

### **RETURNS:**

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**

•	hnv	struct	id	data
-	DP 9	SCIUCL	• ±u	uata

- Node.type
- Node.location
- Node.location absolute Node.hide
- Node.width
- Node.height
- Node.dimensions
- Node.name
- Node.label
- Node.inputs
- Node.outputs
- Node.internal\_links
- Node.parent
- Node.warning\_propagation Node.bl\_width\_max
- Node.use custom color Node.bl height default
- Node.color

- Node.select
- 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.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
- bpy struct.id properties clear
- bpy\_struct.id\_properties\_ensure

- Node.poll instance
- Node.update
- Node.insert link
- Node.init
- Node.copy
- Node.free

- 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.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

Previous ShaderNodeBsdfMetallic(ShaderNode)

Report issue on this page

Copyright © Blender Authors

Made with Furo

ShaderNodeBsdfRayPortal(ShaderNoc