# Skip to content ViewLayer(bpy\_struct)

```
base class — bpy_struct
class bpy.types.ViewLayer(bpy_struct)
    View layer
     active aov
         Active AOV
         TYPE:
              AOV, (readonly)
     active\_aov\_index
         Index of active AOV
         TYPE:
             int in [0, inf], default 0
     active_layer_collection
         Active layer collection in this view layer's hierarchy
         TYPE:
              LayerCollection, (never None)
     active_lightgroup
         Active Lightgroup
         TYPE:
              Lightgroup, (readonly)
     active lightgroup index
         Index of active lightgroup
         TYPE:
             int in [0, inf], default 0
     aovs
         TYPE:
              AOVs bpy_prop_collection of AOV, (readonly)
     cycles
         Cycles ViewLayer Settings
         TYPE:
              CyclesRenderLayerSettings, (readonly)
     depsgraph
         Dependencies in the scene data
         TYPE:
              Depsgraph, (readonly)
     eevee
         View layer settings for EEVEE
```

```
TYPE:
         ViewLayerEEVEE, (readonly, never None)
freestyle settings
    TYPE:
         FreestyleSettings, (readonly, never None)
has_export_collections
    At least one Collection in this View Layer has an exporter
    TYPE:
         boolean, default False, (readonly)
layer collection
    Root of collections hierarchy of this view layer, its 'collection' pointer property is the same as the scene's master collection
    TYPE:
         LayerCollection, (readonly, never None)
lightgroups
    TYPE:
         Lightgroups bpy prop collection of Lightgroup, (readonly)
material override
    Material to override all other materials in this view layer
    TYPE:
         Material
name
    View layer name
    TYPE:
         string, default ", (never None)
objects
    All the objects in this layer
    TYPE:
         LayerObjects bpy prop collection of Object, (readonly)
pass alpha threshold
    Z, Index, normal, UV and vector passes are only affected by surfaces with alpha transparency equal to or higher than this threshold
    TYPE:
         float in [0, 1], default 0.0
pass_cryptomatte_depth
    Sets how many unique objects can be distinguished per pixel
    TYPE:
         int in [2, 16], default 6
samples
    Override number of render samples for this view layer, 0 will use the scene setting
    TYPE:
```

Enable or disable rendering of this View Layer

TYPE:

boolean, default False

use\_ao

use

Render Ambient Occlusion in this Layer

TYPE:

boolean, default False

use\_freestyle

Render stylized strokes in this Layer

TYPE:

boolean, default False

use motion blur

Render motion blur in this Layer, if enabled in the scene

TYPE:

boolean, default False

use\_pass\_ambient\_occlusion

Deliver Ambient Occlusion pass

TYPE:

boolean, default False

 $use\_pass\_combined$ 

Deliver full combined RGBA buffer

TYPE:

boolean, default False

 $use\_pass\_cryptomatte\_accurate$ 

Generate a more accurate cryptomatte pass

TYPE:

boolean, default True

use\_pass\_cryptomatte\_asset

Render cryptomatte asset pass, for isolating groups of objects with the same parent

TYPE:

boolean, default False

use pass cryptomatte material

Render cryptomatte material pass, for isolating materials in compositing

TYPE:

boolean, default False

 $use\_pass\_cryptomatte\_object$ 

Render cryptomatte object pass, for isolating objects in compositing

# TYPE: boolean, default False use\_pass\_diffuse\_color Deliver diffuse color pass TYPE:

 $use\_pass\_diffuse\_direct$ 

Deliver diffuse direct pass

TYPE:

boolean, default False

boolean, default False

use\_pass\_diffuse\_indirect

Deliver diffuse indirect pass

TYPE:

boolean, default False

use\_pass\_emit

Deliver emission pass

TYPE:

boolean, default False

use\_pass\_environment

Deliver environment lighting pass

TYPE:

boolean, default False

use\_pass\_glossy\_color

Deliver glossy color pass

TYPE:

boolean, default False

use\_pass\_glossy\_direct

Deliver glossy direct pass

TYPE:

boolean, default False

 $use\_pass\_glossy\_indirect$ 

Deliver glossy indirect pass

TYPE:

boolean, default False

 $use\_pass\_material\_index$ 

Deliver material index pass

TYPE:

boolean, default False

### Deliver mist factor pass (0.0 to 1.0) TYPE: boolean, default False use\_pass\_normal Deliver normal pass TYPE: boolean, default False use\_pass\_object\_index Deliver object index pass TYPE: boolean, default False use\_pass\_position Deliver position pass TYPE: boolean, default False use\_pass\_shadow Deliver shadow pass TYPE: boolean, default False use\_pass\_subsurface\_color Deliver subsurface color pass TYPE: boolean, default False $use\_pass\_subsurface\_direct$ Deliver subsurface direct pass TYPE: boolean, default False use pass subsurface indirect Deliver subsurface indirect pass TYPE: boolean, default False use\_pass\_transmission\_color Deliver transmission color pass TYPE: boolean, default False $use\_pass\_transmission\_direct$ Deliver transmission direct pass

TYPE:

haalaan dafaak Ealaa

use\_pass\_mist

## boolean, delault raise use\_pass\_transmission\_indirect Deliver transmission indirect pass TYPE: boolean, default False use\_pass\_uv Deliver texture UV pass TYPE: boolean, default False use\_pass\_vector Deliver speed vector pass TYPE: boolean, default False $use\_pass\_z$ Deliver Z values pass TYPE: boolean, default False use\_sky Render Sky in this Layer TYPE: boolean, default False $use\_solid$ Render Solid faces in this Layer TYPE: boolean, default False $use\_strand$ Render Strands in this Layer TYPE: boolean, default False use\_volumes Render volumes in this Layer TYPE: boolean, default False $world\_override$ Override world in this view layer

#### classmethod update\_render\_passes()

World

TYPE:

Requery the enabled render passes from the render engine

```
update()
```

Update data tagged to be updated from previous access to data or operators

#### 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.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.property unset
- 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.type\_recast
- bpy struct.values

#### References

- bpy.context.view\_layer
- Context.view layer
- Depsgraph.view layer
- Depsgraph.view\_layer\_eval
- ID.override hierarchy create
- IDOverrideLibrary.resync
- LayerCollection.has selected objects
- Object.select get
- Object.select set
- Object.visible get
- RenderEngine.register\_pass
- RenderEngine.update render passes
- Scene.statistics

- Object.hide\_get
- Object.hide\_set
- Object.holdout\_get
- Object.indirect\_only\_get
- Scene.view\_layers
- ViewLayers.new
- ViewLayers.remove
- Window.view\_layer

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