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CompositorNodeCombRGBA(CompositorNode)

```
base classes — bpy_struct, Node, NodeInternal, CompositorNode
class bpy.types.CompositorNodeCombRGBA(CompositorNode)
    Deprecated
    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
    update()
    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.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.color

• Node.color tag

• 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.use custom color • Node.bl_height_default

• Node.bl height min

• 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

• 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.update

• Node.insert link

• Node.init

• 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

• CompositorNode.tag need exec

• NodeInternal.bl rna get subclass

• NodeInternal.bl_rna_get_subclass_py

• CompositorNode.poll

- Node.socket_value_update
- Node.is_registered_node_type
- Node.poll
- Node.poll instance

- CompositorNode.update
- CompositorNode.bl_rna_get_subclass
- CompositorNode.bl_rna_get_subclass_py

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CompositorNodeSunBeams(CompositorNode)

```
base classes — bpy_struct, Node, NodeInternal, CompositorNode
class bpy.types.CompositorNodeSunBeams(CompositorNode)
    Create sun beams based on image brightness
     ray length
        Length of rays as a factor of the image size
        TYPE:
             float in [0, 100], default 0.0
     source
        Source point of rays as a factor of the image width and height
        TYPE:
             float array of 2 items in [-100, 100], default (0.0, 0.0)
     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 \lceil 0, inf \rceil) – Index
         RETURNS:
             result
         RETURN TYPE:
              NodeInternalSocketTemplate
     classmethod output_template(index)
        Output socket template
        PARAMETERS:
             index (int in \lceil 0, inf \rceil) – Index
         RETURNS:
             result
         RETURN TYPE:
              NodeInternalSocketTemplate
     update()
```

classmethod bl_rna_get_subclass(id, default=None)

id (str) – The RNA type identifier.

PARAMETERS:

```
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.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.color

Node.color_tag

• 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.internal_links • Node.bl_width_default

• Node.bl width min

• Node.use_custom_color • Node.bl_height_default

• Node.bl height min

• Node.bl height max

- 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

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

- 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.poll_instance

- 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
- CompositorNode.tag need exec
- CompositorNode.poll
- CompositorNode.update
- CompositorNode.bl rna get subclass
- CompositorNode.bl_rna_get_subclass_py

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CompositorNodeSwitch(CompositorNode)

```
base classes — bpy_struct, Node, NodeInternal, CompositorNode
class bpy.types.CompositorNodeSwitch(CompositorNode)
    Switch between two images using a checkbox
    check
        Off: first socket, On: second socket
        TYPE:
             boolean, default False
    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:
             result
        RETURN TYPE:
             NodeInternalSocketTemplate
    update()
    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:
```

1 4 111 4 1 1 0 1 10 14 37 1

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.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.color
- Node.color_tag

- 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.use_custom_color Node.bl_height_default
 - Node.bl height min
 - Node.bl_height_max

- 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

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

- 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.poll_instance

- NodeInternal.draw_buttons_ext
- NodeInternal.bl_rna_get_subclass
- NodeInternal.bl rna get subclass py
- CompositorNode.tag_need_exec
- CompositorNode.poll
- CompositorNode.update
- CompositorNode.bl rna get subclass
- CompositorNode.bl_rna_get_subclass_py

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CompositorNodeSwitchView(CompositorNoc

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CompositorNodeSwitchView(CompositorNode)

```
base classes — bpy_struct, Node, NodeInternal, CompositorNode
class bpy.types.CompositorNodeSwitchView(CompositorNode)
    Combine the views (left and right) into a single stereo 3D output
    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
    update()
    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.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.color

• Node.color tag

• 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.use custom color • Node.bl_height_default

• Node.bl height min

• 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

• 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.update

• Node.insert link

• Node.init

• 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

• CompositorNode.tag need exec

• CompositorNode.poll

- Node.socket_value_update
- Node.is_registered_node_type
- Node.poll
- Node.poll instance

- CompositorNode.update
- CompositorNode.bl_rna_get_subclass
- CompositorNode.bl_rna_get_subclass_py

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No CompositorNodeTexture(CompositorNodeTexture)

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CompositorNodeTexture(CompositorNode)

```
base classes — bpy_struct, Node, NodeInternal, CompositorNode
class bpy.types.CompositorNodeTexture(CompositorNode)
    Generate texture pattern from texture datablock
    node output
        For node-based textures, which output node to use
        TYPE:
             int in [-32768, 32767], default 0
    texture
        TYPE:
             Texture
    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 \lceil 0, inf \rceil) – Index
        RETURNS:
             result
        RETURN TYPE:
             {\tt NodeInternalSocketTemplate}
    classmethod output_template(index)
        Output socket template
        PARAMETERS:
             index (int in [0, inf]) – Index
        RETURNS:
             result
        RETURN TYPE:
             NodeInternalSocketTemplate
    update()
```

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.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.color tag

- 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.internal_links Node.bl_width_default
 - Node.bl width min

 - Node.bl height min
 - Node.bl height max

- 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
- how atrust konfrome incort

- Node.update
- Node.insert_link
- Node.init
- 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

- ppy_scruct.keyrrame_rnserc
- 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.poll_instance

- 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
- CompositorNode.tag_need_exec
- CompositorNode.poll
- CompositorNode.update
- CompositorNode.bl_rna_get_subclass
- CompositorNode.bl rna get subclass py

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No CompositorNodeTime(CompositorNodeTime)

CompositorNodeTime(CompositorNode)

```
base classes — bpy_struct, Node, NodeInternal, CompositorNode
class bpy.types.CompositorNodeTime(CompositorNode)
    Generate a factor value (from 0.0 to 1.0) between scene start and end time, using a curve mapping
    curve
        TYPE:
             CurveMapping, (readonly)
    frame_end
        TYPE:
             int in [-32768, 32767], default 0
    frame_start
        TYPE:
             int in [-32768, 32767], default 0
    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
    update()
```

classmethod bl_rna_get_subclass(id, default=None)

id (ata) The DNIA tone identifica

PARAMETERS:

```
ia (str) – The KINA type identilier.
```

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.type
- Node.location
- Node.location absolute Node.hide
- Node.width
- Node.height
- 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.color tag

- Node.select
- Node.show options
- Node.show preview
- Node.mute
- Node.show texture
- Node.dimensions 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.bl height max

- 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

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

- 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.poll_instance

- 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
- CompositorNode.tag need exec
- CompositorNode.poll
- CompositorNode.update
- CompositorNode.bl_rna_get_subclass
- CompositorNode.bl rna get subclass py

Previous CompositorNodeTexture(CompositorNode)

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No CompositorNodeTonemap(CompositorNoc

CompositorNodeTonemap(CompositorNode)

```
base classes — bpy_struct, Node, NodeInternal, CompositorNode
```

```
class bpy.types.CompositorNodeTonemap(CompositorNode)
```

Map one set of colors to another in order to approximate the appearance of high dynamic range

```
adaptation
```

```
If 0, global; if 1, based on pixel intensity
```

TYPE:

float in [0, 1], default 0.0

contrast

Set to 0 to use estimate from input image

TYPE:

float in [0, 1], default 0.0

correction

If 0, same for all channels; if 1, each independent

TYPE:

float in [0, 1], default 0.0

gamma

If not used, set to 1

TYPE:

float in [0.001, 3], default 0.0

intensity

If less than zero, darkens image; otherwise, makes it brighter

TYPE:

float in [-8, 8], default 0.0

key

The value the average luminance is mapped to

TYPE:

float in [0, 1], default 0.0

offset

Normally always 1, but can be used as an extra control to alter the brightness curve

TYPE:

float in [0.001, 10], default 0.0

tonemap_type

- RD_PHOTORECEPTOR R/D Photoreceptor More advanced algorithm based on eye physiology, by Reinhard and Devlin.
- RH_SIMPLE Rh Simple Simpler photographic algorithm by Reinhard.

TYPE:

enum in ['RD PHOTORECEPTOR', 'RH SIMPLE'], default 'RH SIMPLE'

```
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
update()
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
```

classmethod is_registered_node_type()

Inherited Properties

- bpy_struct.id_data
- Node.select

• Node.type

• Node.show_options

- Node.location
- Node.location absolute
- 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.color
- Node.color_tag

- Node.show_preview
- Node.hide
- 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 default
 - Node.bl height min
 - Node.bl height max

- 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
- bpy_struct.type_recast
- bpy struct.values
- Node.socket value update
- Node.is registered node type
- Node.poll
- Node.poll instance

- Node.update
- Node.insert link
- Node.init
- 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
- CompositorNode.tag need exec
- CompositorNode.poll
- CompositorNode.update
- CompositorNode.bl_rna_get_subclass
- CompositorNode.bl rna get subclass py

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CompositorNodeTrackPos(CompositorNode)

```
base\ classes -- \ \texttt{bpy\_struct}, \ \texttt{Node}, \ \texttt{NodeInternal}, \ \texttt{CompositorNode}
```

class bpy.types.CompositorNodeTrackPos(CompositorNode)

Provide information about motion tracking points, such as x and y values

clip

TYPE:

MovieClip

frame_relative

Frame to be used for relative position

TYPE:

int in [-32768, 32767], default 0

position

Which marker position to use for output

- ABSOLUTE Absolute Output absolute position of a marker.
- RELATIVE START Relative Start Output position of a marker relative to first marker of a track.
- RELATIVE FRAME Relative Frame Output position of a marker relative to marker at given frame number.
- ABSOLUTE FRAME Absolute Frame Output absolute position of a marker at given frame number.

TYPE:

enum in ['ABSOLUTE', 'RELATIVE_START', 'RELATIVE_FRAME', 'ABSOLUTE_FRAME'], default 'ABSOLUTE'

track_name

TYPE:

string, default ", (never None)

tracking_object

TYPE:

string, default ", (never None)

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:
            result
        RETURN TYPE:
             NodeInternalSocketTemplate
    update()
    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
```

<pre>bpy_struct.id_data</pre>	• Node.select
• Node.type	• Node.show_options
• Node.location	• Node.show_preview
• Node.location_absolute	• Node.hide
• Node.width	• Node.mute
• Node.height	• Node.show_texture
• Node.dimensions	• Node.bl_idname
Node.name	• Node.bl_label
• Node.label	• Node.bl_description
• Node.inputs	• Node.bl_icon
Node.outputs	• Node.bl_static_type
• Node.internal_links	• Node.bl_width_default
• Node.parent	• Node.bl_width_min
• Node.warning_propagation	• Node.bl_width_max
• Node.use_custom_color	• Node.bl_height_default
• Node.color	• 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
- 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.poll instance

- Node.update
- Node.insert_link
- Node.init
- 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
- CompositorNode.tag need exec
- CompositorNode.poll
- CompositorNode.update
- CompositorNode.bl rna get subclass
- CompositorNode.bl_rna_get_subclass_py

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CompositorNodeTransform(CompositorNode)

```
base classes — bpy_struct, Node, NodeInternal, CompositorNode
```

class bpy.types.CompositorNodeTransform(CompositorNode)

Scale, translate and rotate an image

filter_type

Method to use to filter transform

- NEAREST Nearest Use Nearest interpolation.
- BILINEAR Bilinear Use Bilinear interpolation.
- BICUBIC Bicubic Use Cubic B-Spline interpolation.

TYPE:

enum in ['NEAREST', 'BILINEAR', 'BICUBIC'], default 'NEAREST'

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

update()

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.show options

• Node.location

• Node.show preview

• Node.location absolute • Node.hide

• Node.width

• Node.mute

• Node.height

• Node.show texture

• Node.dimensions

• Node.bl idname

• Node.name

• Node.bl label

• Node.label

• Node.bl description

• Node.inputs

• Node.bl icon

• Node.outputs

• Node.bl static type

• Node.internal links

Node.bl_width_default

• Node.parent

• Node.bl width min

• Node.warning propagation • Node.bl width max

• Node.use_custom_color • Node.bl_height_default

• Node.color

• Node.bl height min

• Node.color tag

• Node.bl height max

- 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

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

- 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.poll_instance

- 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
- CompositorNode.tag_need_exec
- CompositorNode.poll
- CompositorNode.update
- CompositorNode.bl rna get subclass
- CompositorNode.bl_rna_get_subclass_py

Previous CompositorNodeTrackPos(CompositorNode)

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No CompositorNodeTranslate(CompositorNoc

CompositorNodeTranslate(CompositorNode)

base classes — bpy_struct, Node, NodeInternal, CompositorNode

class bpy.types.CompositorNodeTranslate(CompositorNode)

Offset an image

interpolation

- NEAREST Nearest Use Nearest interpolation.
- BILINEAR Bilinear Use Bilinear interpolation.
- BICUBIC Bicubic Use Cubic B-Spline interpolation.

TYPE:

enum in ['NEAREST', 'BILINEAR', 'BICUBIC'], default 'NEAREST'

use_relative

Use relative (fraction of input image size) values to define translation

TYPE:

boolean, default False

wrap_axis

Repeats image on a specific axis

- NONE None No repeating.
- XAXIS X Axis Repeats on the X axis.
- YAXIS Y Axis Repeats on the Y axis.
- BOTH Both Axes Repeats on both axes.

TYPE:

enum in ['NONE', 'XAXIS', 'YAXIS', 'BOTH'], default 'NONE'

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.

```
LIMANTELLIM,
        index (int in [0, inf]) – Index
   RETURNS:
       result
   RETURN TYPE:
        NodeInternalSocketTemplate
update()
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

•	<pre>bpy_struct.id_data</pre>	Node.select
•	Node.type •	Node.show_options
•	Node.location •	Node.show_preview
•	Node.location_absolute •	Node.hide
•	Node.width •	Node.mute
•	Node.height •	Node.show_texture
•	Node.dimensions •	Node.bl_idname
•	Node.name •	Node.bl_label
•	Node.label •	Node.bl_description
•	Node.inputs •	Node.bl_icon
•	Node.outputs	Node.bl_static_type
•	Node.internal_links •	Node.bl_width_default
•	Node.parent •	Node.bl_width_min
•	Node.warning_propagation •	Node.bl_width_max
•	Node.use_custom_color •	Node.bl_height_default
•	Node.color •	Node.bl_height_min
•	Node.color_tag •	Node.bl_height_max

Inherited Functions

• bov struct.as pointer

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- 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
- bpy_struct.type_recast
- bpy_struct.values
- Node.socket_value_update
- Node.is_registered_node_type
- Node.poll
- Node.poll instance

- Node.update
- Node.insert link
- Node.init
- 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
- CompositorNode.tag need exec
- CompositorNode.poll
- CompositorNode.update
- CompositorNode.bl_rna_get_subclass
- CompositorNode.bl rna get subclass py

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CompositorNodeTree(NodeTre

CompositorNodeTree(NodeTree)

```
base classes — bpy_struct, ID, NodeTree
```

class bpy.types.CompositorNodeTree(NodeTree)

Node tree consisting of linked nodes used for compositing

use viewer border

Use boundaries for viewer nodes and composite backdrop

TYPE:

boolean, default False

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 missing
- ID.is editable
- ID.tag
- ID.library

- ID.asset_data
 - ID.override library
 - ID.preview
 - NodeTree.color tag
 - NodeTree.default_group_node_width
 - NodeTree.view_center
 - NodeTree.description
 - NodeTree.animation data
 - NodeTree.nodes
 - NodeTree.links
- ID.is_embedded_data NodeTree.grease_pencil
 - NodeTree.type
- ID.is_runtime_data NodeTree.interface
 - NodeTree.bl idname
 - NodeTree.bl label
- ID.is library indirect NodeTree.bl description
 - NodeTree.bl icon

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
- bpy_struct.type_recast
- bpy_struct.values
- 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
- NodeTree.interface update
- NodeTree.contains tree
- NodeTree.poll
- NodeTree.update
- NodeTree.get from context
- NodeTree.valid_socket_type
- NodeTree.debug lazy function graph
- NodeTree.bl_rna_get_subclass
- NodeTree.bl rna get subclass py

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CompositorNodeTranslate(CompositorNode)

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CompositorNodeValToRGB(CompositorNodeValToRGB)

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CompositorNodeValToRGB(CompositorNode)

```
base classes — bpy_struct, Node, NodeInternal, CompositorNode
class bpy.types.CompositorNodeValToRGB(CompositorNode)
    Map values to colors with the use of a gradient
    color ramp
        TYPE:
             ColorRamp , (readonly)
    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 \lceil 0, inf \rceil) – Index
        RETURNS:
             result
        RETURN TYPE:
             NodeInternalSocketTemplate
    classmethod output template(index)
        Output socket template
        PARAMETERS:
             index (int in [0, inf]) – Index
        RETURNS:
             result
        RETURN TYPE:
             NodeInternalSocketTemplate
    update()
    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.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.color

• Node.color tag

• 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.use_custom_color • Node.bl_height_default

• Node.bl height min

Node.bl height max

- 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
- how atrust proporty openidable library of

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

- ppy_struct.property_overfrequence_fibrary_set
 NodeInternal.bl_rna_get_subclass
- bpy_struct.property_unset
- bpy_struct.type_recast
- bpy_struct.values
- Node.socket value update
- Node.is_registered_node_type
- Node.poll
- Node.poll instance

- NodeInternal.bl_rna_get_subclass_py
- CompositorNode.tag_need_exec
- CompositorNode.poll
- CompositorNode.update
- CompositorNode.bl_rna_get_subclass
- CompositorNode.bl_rna_get_subclass_py

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CompositorNodeValue(CompositorNode)

```
base classes — bpy_struct, Node, NodeInternal, CompositorNode
class bpy.types.CompositorNodeValue(CompositorNode)
    Input numerical values to other nodes in the node graph
    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
    update()
    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.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.color

• Node.color tag

• 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.use custom color • Node.bl_height_default

• Node.bl height min

• 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

• 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.update

• Node.insert link

• Node.init

• 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

• CompositorNode.tag need exec

• NodeInternal.bl rna get subclass

• NodeInternal.bl_rna_get_subclass_py

• CompositorNode.poll

- Node.socket_value_update
- Node.is_registered_node_type
- Node.poll
- Node.poll instance

- CompositorNode.update
- CompositorNode.bl_rna_get_subclass
- CompositorNode.bl_rna_get_subclass_py

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CompositorNodeVecBlur(CompositorNode)

```
base classes — bpy_struct, Node, NodeInternal, CompositorNode
class bpy.types.CompositorNodeVecBlur(CompositorNode)
    Uses the vector speed render pass to blur the image pixels in 2D
         Scaling factor for motion vectors (actually, 'shutter speed', in frames)
         TYPE:
              float in [0, 20], default 0.0
     samples
         TYPE:
              int in [1, 256], default 0
     speed max
         Maximum speed, or zero for none
         TYPE:
              int in [0, 1024], default 0
     speed_min
         Minimum speed for a pixel to be blurred (used to separate background from foreground)
         TYPE:
              int in [0, 1024], default 0
     use curved
         Interpolate between frames in a Bézier curve, rather than linearly
         TYPE:
              boolean, default False
     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 \lceil 0, inf \rceil) – Index
         RETURNS:
              result
```

class method output template(index)

NodeInternalSocketTemplate

RETURN TYPE:

```
Output socket template
   PARAMETERS:
        index (int in [0, inf]) – Index
   RETURNS:
        result
   RETURN TYPE:
        NodeInternalSocketTemplate
update()
class\,method\,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.show_options
• Node.location	• Node.show_preview
• Node.location_absolute	• Node.hide
• Node.width	• Node.mute
• Node.height	• Node.show_texture
• Node.dimensions	• Node.bl_idname
• Node.name	• Node.bl_label
• Node.label	• Node.bl_description
• Node.inputs	• Node.bl_icon
• Node.outputs	• Node.bl_static_type
• Node.internal_links	• Node.bl_width_default
• Node.parent	• Node.bl_width_min
• Node.warning_propagation	• Node.bl_width_max
• Node.use_custom_color	• Node.bl_height_default
• Node.color	• 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
- 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.poll instance

- Node.update
- Node.insert link
- Node.init
- 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
- CompositorNode.tag_need_exec
- CompositorNode.poll
- CompositorNode.update
- CompositorNode.bl rna get subclass
- CompositorNode.bl rna get subclass py

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CompositorNodeViewer(CompositorNode)

```
base classes — bpy_struct, Node, NodeInternal, CompositorNode
class bpy.types.CompositorNodeViewer(CompositorNode)
    Visualize data from inside a node graph, in the image editor or as a backdrop
    ui shortcut
        TYPE:
             int in [-32768, 32767], default 0
     use_alpha
        Colors are treated alpha premultiplied, or colors output straight (alpha gets set to 1)
        TYPE:
             boolean, default False
    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:
             result
        RETURN TYPE:
             NodeInternalSocketTemplate
    update()
    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.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.color tag

- 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.internal_links Node.bl_width_default
 - Node.bl width min

 - Node.bl height min
 - 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
- 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
- how atrust konfrome incort

- Node.update
- Node.insert_link
- Node.init
- 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

- ppy_scruct.keyrrame_rnserc
- 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.poll_instance

- 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
- CompositorNode.tag_need_exec
- CompositorNode.poll
- CompositorNode.update
- CompositorNode.bl_rna_get_subclass
- CompositorNode.bl rna get subclass py

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CompositorNodeZcombine(CompositorNode)

```
base classes — bpy_struct, Node, NodeInternal, CompositorNode
class bpy.types.CompositorNodeZcombine(CompositorNode)
    Combine two images using depth maps
     use alpha
        Take alpha channel into account when doing the Z operation
        TYPE:
             boolean, default False
     use_antialias_z
        Anti-alias the z-buffer to try to avoid artifacts, mostly useful for Blender renders
        TYPE:
             boolean, default False
     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 \lceil 0, inf \rceil) – Index
         RETURNS:
             result
         RETURN TYPE:
              {\tt NodeInternalSocketTemplate}
     classmethod output_template(index)
        Output socket template
        PARAMETERS:
             index (int in \lceil 0, inf \rceil) – Index
         RETURNS:
             result
         RETURN TYPE:
              NodeInternalSocketTemplate
     update()
     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.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.color

Node.color_tag

• 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.internal_links • Node.bl_width_default

• Node.bl width min

• Node.use_custom_color • Node.bl_height_default

• Node.bl height min

• 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
- 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

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

- 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.poll_instance

- 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
- CompositorNode.tag need exec
- CompositorNode.poll
- CompositorNode.update
- CompositorNode.bl rna get subclass
- CompositorNode.bl_rna_get_subclass_py

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Skip to content ConsoleLine(bpy_struct)

```
base class — bpy_struct
class bpy.types.ConsoleLine(bpy_struct)
    Input line for the interactive console
     body
         Text in the line
         TYPE:
             string, default ", (never None)
     current_character
         TYPE:
             int in [-\inf], default 0
     type
         Console line type when used in scrollback
         TYPE:
             enum in ['OUTPUT', 'INPUT', 'INFO', 'ERROR'], default 'OUTPUT'
     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.items
- bpy_struct.keyframe_delete
- bpy_struct.keyframe_insert
- bpy_struct.keys

- 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.path_from_id
- bpy_struct.path_resolve
- bpy_struct.pop
- bpy_struct.property_overridable_library_set
- bpy_struct.type_recast
- bpy_struct.values

References

• SpaceConsole.history • SpaceConsole.scrollback

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No Constraint(bpy stru

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```
base class — bpy_struct
```

subclasses — ActionConstraint, ArmatureConstraint, CameraSolverConstraint, ChildOfConstraint,
ClampToConstraint, CopyLocationConstraint, CopyRotationConstraint, CopyScaleConstraint,
CopyTransformsConstraint, DampedTrackConstraint, FloorConstraint, FollowPathConstraint,
FollowTrackConstraint, KinematicConstraint, LimitDistanceConstraint, LimitLocationConstraint,
LimitRotationConstraint, LimitScaleConstraint, LockedTrackConstraint,
MaintainVolumeConstraint, ObjectSolverConstraint, PivotConstraint, PythonConstraint,
ShrinkwrapConstraint, SplineIKConstraint, StretchToConstraint, TrackToConstraint,
TransformCacheConstraint, TransformConstraint

class bpy.types.Constraint(bpy_struct)

Constraint modifying the transformation of objects and bones

active

Constraint is the one being edited

TYPE:

boolean, default False

enabled

Use the results of this constraint

TYPE:

boolean, default False

error_location

Amount of residual error in Blender space unit for constraints that work on position

TYPE:

float in [-inf, inf], default 0.0, (readonly)

error_rotation

Amount of residual error in radians for constraints that work on orientation

TYPE:

float in [-inf, inf], default 0.0, (readonly)

influence

Amount of influence constraint will have on the final solution

TYPE:

float in [0, 1], default 0.0

is_override_data

In a local override object, whether this constraint comes from the linked reference object, or is local to the override

TYPE:

boolean, default False, (readonly)

is_valid

Constraint has valid settings and can be evaluated

TYPE:

hooloon default False (readonk)

mute

Enable/Disable Constraint

TYPE:

boolean, default False

name

Constraint name

TYPE:

```
string, default "", (never None)
```

owner space

Space that owner is evaluated in

- WORLD World Space The constraint is applied relative to the world coordinate system.
- CUSTOM Custom Space The constraint is applied in local space of a custom object/bone/vertex group.
- POSE Pose Space The constraint is applied in Pose Space, the object transformation is ignored.
- LOCAL_WITH_PARENT Local With Parent The constraint is applied relative to the rest pose local coordinate system of the bone, the including the parent-induced transformation.
- LOCAL Local Space The constraint is applied relative to the local coordinate system of the object.

TYPE:

```
enum in ['WORLD', 'CUSTOM', 'POSE', 'LOCAL_WITH_PARENT', 'LOCAL'], default 'WORLD'
```

show_expanded

Constraint's panel is expanded in UI

TYPE:

boolean, default False

space object

Object for Custom Space

TYPE:

Object

space_subtarget

Armature bone, mesh or lattice vertex group, ...

TYPE:

```
string, default ", (never None)
```

target space

Space that target is evaluated in

- WORLD World Space The transformation of the target is evaluated relative to the world coordinate system.
- CUSTOM Custom Space The transformation of the target is evaluated relative to a custom object/bone/vertex group.
- POSE Pose Space The transformation of the target is only evaluated in the Pose Space, the target armature object transformation is ignored.
- LOCAL_WITH_PARENT Local With Parent The transformation of the target bone is evaluated relative to its rest pose local coordinal system, thus including the parent-induced transformation.
- LOCAL Local Space The transformation of the target is evaluated relative to its local coordinate system
- LOCAL_OWNER_ORIENT Local Space (Owner Orientation) The transformation of the target bone is evaluated relative to its local coordinate system, followed by a correction for the difference in target and owner rest pose orientations. When applied as local transformations are considered to the coordinate system.

the owner produces the same global motion as the target if the parents are still in rest pose..

```
TYPE:
```

enum in ['WORLD', 'CUSTOM', 'POSE', 'LOCAL WITH PARENT', 'LOCAL', 'LOCAL OWNER ORIENT'], default 'WORLD'

type

TYPE:

enum in Constraint Type Items, default 'CAMERA SOLVER', (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

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

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- PoseBone.constraints
- ObjectConstraints active DeceDenoConstraints active

- ODJECTCONSTRATINGS.ACTIVE POSEDONECONSTRATINGS.ACTIVE • ObjectConstraints.copy • PoseBoneConstraints.copy
- ObjectConstraints.copy PoseBoneConstraints.copy
- ObjectConstraints.new PoseBoneConstraints.new • ObjectConstraints.remove • PoseBoneConstraints.remove
- Panel.custom_data • UILayout.template_constraint_header

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ConstraintTarget(bpy stru

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ConstraintTarget(bpy_struct)

```
base class — bpy_struct
class bpy.types.ConstraintTarget(bpy_struct)
    Target object for multi-target constraints
     subtarget
        Armature bone, mesh or lattice vertex group, ...
        TYPE:
             string, default ", (never None)
     target
        Target object
        TYPE:
              Object
     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_bidden
- 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
- how etrust proporty opportidable library est

- phlactace.to_broberch_urageu phlactace.broberch_osettrante_trntath_sec
- bpy_struct.is_property_overridable_library bpy_struct.property_unset
- bpy struct.is property readonly
- bpy_struct.is_property_set

- bpy struct.type recast
- ppy_berace.eype_recal
- bpy_struct.values

References

• PythonConstraint.targets

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Constraint(bpy_struct)

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ConstraintTargetBone(bpy_struct)

```
base class — bpy_struct
class bpy.types.ConstraintTargetBone(bpy_struct)
    Target bone for multi-target constraints
     subtarget
        Target armature bone
        TYPE:
             string, default ", (never None)
     target
        Target armature
        TYPE:
              Object
     weight
        Blending weight of this bone
        TYPE:
             float in [0, 1], default 0.0
     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
- how struct driver remove

- bpy_struct.items
- bpy_struct.keyframe_delete
- how atrust bouframe insert

- phy_scruce.arrver_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

- nbl_scruce.veltrame_tuserc
- 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

- ArmatureConstraint.targets
- ArmatureConstraintTargets.new
- ArmatureConstraintTargets.remove

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Context(bpy stru

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```
base class — bpy_struct
class bpy.types.Context(bpy_struct)
    Current windowmanager and data context
    area
        TYPE:
             Area, (readonly)
    asset
        TYPE:
             AssetRepresentation, (readonly)
    blend_data
        TYPE:
             BlendData, (readonly)
    collection
        TYPE:
             Collection, (readonly)
    engine
        TYPE:
             string, default ", (readonly, never None)
    gizmo_group
        TYPE:
             GizmoGroup, (readonly)
    layer_collection
        TYPE:
             LayerCollection, (readonly)
    mode
        TYPE:
             enum in Context Mode Items, default 'EDIT_MESH', (readonly)
    preferences
        TYPE:
             Preferences, (readonly)
    region
        TYPE:
             Region, (readonly)
    region_data
        TYPE:
             RegionView3D, (readonly)
    region_popup
```

```
The temporary region for pop-ups (including menus and pop-overs)
   TYPE:
         Region, (readonly)
scene
   TYPE:
         Scene, (readonly)
screen
   TYPE:
         Screen , (readonly)
space data
   The current space, may be None in background-mode, when the cursor is outside the window or when using menu-search
   TYPE:
         Space, (readonly)
tool_settings
   TYPE:
         ToolSettings, (readonly)
view_layer
   TYPE:
         ViewLayer, (readonly)
window
   TYPE:
         Window, (readonly)
window_manager
    TYPE:
         WindowManager, (readonly)
workspace
   TYPE:
         WorkSpace, (readonly)
evaluated_depsgraph_get()
   Get the dependency graph for the current scene and view layer, to access to data-blocks with animation and modifiers applied. If any data-
   blocks have been edited, the dependency graph will be updated. This invalidates all references to evaluated data-blocks from the dependency
   graph.
    RETURNS:
        Evaluated dependency graph
    RETURN TYPE:
         Depsgraph
copy()
path_resolve(path, coerce=True)
```

Returns the property from the path, raise an exception when not found.

PARAMETERS:

- path (str) patch which this property resolves.
- coerce (bool) optional argument, when True, the property will be converted into its Python representation.

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

temp override(*, window=None, area=None, region=None, **keywords)

Context manager to temporarily override members in the context.

PARAMETERS:

- window(bpy.types.Window) Window override or None.
- screen(bpy.types.Screen)-

Screen override or None.

Note

Switching to or away from full-screen areas & temporary screens isn't supported. Passing in these screens will raise an exception, actions that leave the context such screens won't restore the prior screen.

Note

Changing the screen has wider implications than other arguments as it will also change the works-space and potentially the scene (when pinned).

- area (bpy.types.Area) Area override or None.
- region (bpy.types.Region)—Region override or None.
- **keywords** Additional keywords override context members.

RETURNS:

The context manager.

RETURN TYPE:

ContextTempOverride

Overriding the context can be used to temporarily activate another window / area & region, as well as other members such as the active_object or bone.

Notes:

- When overriding window, area and regions: the arguments must be consistent, so any region argument that's passed in must be contained the current area or the area passed in. The same goes for the area needing to be contained in the current window.
- Temporary context overrides may be nested, when this is done, members will be added to the existing overrides.
- . Contaxt mambars are rectored outside the soone of the context manager. The only excention to this is when the data is no longer available

In the event windowing data was removed (for example), the state of the context is left as-is. While this isn't likely to happen, explicit window operation such as closing windows or loading a new file remove the windowing data that was set before the temporary context was created.

Overriding the context can be useful to set the context after loading files (which would otherwise by None). For example:

```
import bpy
from bpy import context

# Reload the current file and select all.
bpy.ops.wm.open_mainfile(filepath=bpy.data.filepath)
window = context.window_manager.windows[0]
with context.temp_override(window=window):
    bpy.ops.mesh.primitive_uv_sphere_add()
    # The context override is needed so it's possible to set edit-mode.
    bpy.ops.object.mode_set(mode='EDIT')
```

This example shows how it's possible to add an object to the scene in another window.

```
import bpy
from bpy import context

win_active = context.window
win_other = None
for win_iter in context.window_manager.windows:
    if win_iter != win_active:
        win_other = win_iter
        break

# Add cube in the other window.
with context.temp_override(window=win_other):
    bpy.ops.mesh.primitive_cube_add()
```

Inherited Properties

• bpy_struct.id_data

Inherited Functions

```
• bpy_struct.as_pointer
                                             • bpy_struct.items
• bpy struct.driver add
                                             • bpy struct.keyframe delete
• bpy struct.driver remove
                                             • bpy struct.keyframe insert
• bpy_struct.get
                                             • bpy_struct.keys
• bpy_struct.id_properties_clear
                                             • bpy_struct.path_from_id
• bpy struct.id properties ensure
                                             • bpy struct.path resolve
• bpy_struct.id_properties_ui
                                             • bpy_struct.pop
• bpy struct.is property hidden
                                             • bpy struct.property overridable library set
• bpy_struct.is_property_overridable_library • bpy_struct.property_unset
• bpy_struct.is_property_readonly
                                             • bpy_struct.type_recast
• bpy struct.is property set
                                             • bpy struct.values
```

References

- AssetShelf.draw context menu
- AssetShelf.poll
- FileHandler.poll drop
- Gizmo.draw
- Gizmo.draw select
- Gizmo.exit
- Gizmo.invoke
- Gizmo.modal
- Gizmo.test select
- GizmoGroup.draw prepare
- GizmoGroup.invoke prepare
- GizmoGroup.poll
- GizmoGroup.refresh
- GizmoGroup.setup
- Header.draw
- KeyingSetInfo.generate
- KeyingSetInfo.iterator
- KeyingSetInfo.poll
- Macro.draw
- Macro.poll
- Menu.draw
- Menu.poll
- Node.draw buttons
- Node.draw buttons ext
- Node.init
- Node.socket value update
- NodeInternal.draw buttons
- NodeInternal.draw buttons ext
- NodeSocket.draw
- NodeSocket.draw color
- NodeSocketStandard.draw
- NodeSocketStandard.draw_color
- NodeTree.get_from_context
- NodeTree.interface update
- NodeTree.poll
- NodeTreeInterfaceSocket.draw
- NodeTreeInterfaceSocketBool.draw
- NodeTreeInterfaceSocketCollection.draw
- NodeTreeInterfaceSocketColor.draw
- NodeTreeInterfaceSocketFloat.draw
- NodeTreeInterfaceSocketFloatAngle.draw
- NodeTreeInterfaceSocketFloatColorTemperature.draw XrSessionState.action state get
- NodeTreeInterfaceSocketFloatDistance.draw
- NodeTreeInterfaceSocketFloatFactor.draw
- NodeTreeInterfaceSocketFloatFrequency.draw

- NodeTreeInterfaceSocketInt.draw
- NodeTreeInterfaceSocketIntFactor.draw
- NodeTreeInterfaceSocketIntPercentage.
- NodeTreeInterfaceSocketIntUnsigned.dr
- NodeTreeInterfaceSocketMaterial.draw
- NodeTreeInterfaceSocketMatrix.draw
- NodeTreeInterfaceSocketMenu.draw
- NodeTreeInterfaceSocketObject.draw
- NodeTreeInterfaceSocketRotation.draw
- NodeTreeInterfaceSocketShader.draw
- NodeTreeInterfaceSocketString.draw
- NodeTreeInterfaceSocketStringFilePath
- NodeTreeInterfaceSocketTexture.draw
- NodeTreeInterfaceSocketVector.draw
- NodeTreeInterfaceSocketVectorAccelera
- NodeTreeInterfaceSocketVectorDirectio
- NodeTreeInterfaceSocketVectorEuler.dr
- NodeTreeInterfaceSocketVectorTranslat
- NodeTreeInterfaceSocketVectorVelocity
- NodeTreeInterfaceSocketVectorXYZ.draw
- Operator.cancel
- Operator.check
- Operator.description
- Operator.draw
- Operator.execute
- Operator.invoke
- Operator.modal
- Operator.poll
- Panel.draw
- Panel.draw header
- Panel.draw header preset
- Panel.poll
- RenderEngine.draw
- RenderEngine.view draw
- RenderEngine.view update
- UIList.draw filter
- UIList.draw_item
- UIList.filter_items
- XrSessionState.action binding create
- XrSessionState.action create
- XrSessionState.action set create
- XrSessionState.active_action_set_set
- XrSessionState.controller aim locatio
- XrSessionState.controller aim rotatio

- $\bullet \quad {\tt NodeTreeInterfaceSocketFloatPercentage.draw}$
- NodeTreeInterfaceSocketFloatTime.draw
- NodeTreeInterfaceSocketFloatTimeAbsolute.draw
- NodeTreeInterfaceSocketFloatUnsigned.draw
- NodeTreeInterfaceSocketFloatWavelength.draw
- NodeTreeInterfaceSocketGeometry.draw
- NodeTreeInterfaceSocketImage.draw

- XrSessionState.controller grip locati
- XrSessionState.controller_grip_rotati
- XrSessionState.controller_pose_action
- XrSessionState.haptic_action_apply
- XrSessionState.haptic action stop
- XrSessionState.is_running
- XrSessionState.reset to base pose

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No CopyLocationConstraint(Constraint)

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```
base\ classes -- \ \texttt{bpy\_struct},\ \texttt{Constraint}
class bpy.types.CopyLocationConstraint(Constraint)
     Copy the location of the target
     head tail
          Target along length of bone: Head is 0, Tail is 1
          TYPE:
               float in [0, 1], default 0.0
     invert_x
          Invert the X location
          TYPE:
               boolean, default False
     invert_y
          Invert the Y location
          TYPE:
               boolean, default False
     invert_z
          Invert the Z location
          TYPE:
               boolean, default False
     subtarget
          Armature bone, mesh or lattice vertex group, ...
          TYPE:
               string, default ", (never None)
     target
          Target object
          TYPE:
                Object
     use_bbone_shape
          Follow shape of B-Bone segments when calculating Head/Tail position
          TYPE:
               boolean, default False
      use_offset
          Add original location into copied location
          TYPE:
               boolean, default False
```

```
Copy the target's X location
    TYPE:
        boolean, default False
use y
   Copy the target's Y location
   TYPE:
        boolean, default False
   Copy the target's Z location
    TYPE:
        boolean, default False
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

• Constraint.mute • bpy struct.id data • Constraint.name • Constraint.enabled • Constraint.type Constraint.show expanded • Constraint.is override data • Constraint.is valid • Constraint.owner space • Constraint.active • Constraint.target space • Constraint.influence • Constraint.space object • Constraint.error location • Constraint.space subtarget • Constraint.error rotation

Inherited Functions

• bpy_struct.as_pointer • bpy struct.driver add • bpy_struct.driver_remove • bpy struct.get

- bpy_struct.keyframe_delete
- bpy struct.keyframe insert
- bpy_struct.keys
- bpy struct.path from id

- 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.type_recast
- bpy_struct.is_property_readonly
- bpy_struct.is_property_set
- bpy struct.items

- bpy_struct.path_resolve
- bpy_struct.pop
- bpy_struct.property_overridable_library_set
- bpy_struct.property_unset
- bpy struct.values
- Constraint.bl_rna_get_subclass
- Constraint.bl rna get subclass py

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No CopyRotationConstraint(Constrai

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CopyRotationConstraint(Constraint)

base classes — bpy_struct, Constraint

class bpy.types.CopyRotationConstraint(Constraint)

Copy the rotation of the target

euler order

Explicitly specify the euler rotation order

- AUTO Default Euler using the default rotation order.
- XYZ XYZ Euler Euler using the XYZ rotation order.
- XZY XZY Euler Euler using the XZY rotation order.
- YXZ YXZ Euler Euler using the YXZ rotation order.
- YZX YZX Euler Euler using the YZX rotation order.
- ZXY ZXY Euler Euler using the ZXY rotation order.
- ZYX ZYX Euler Euler using the ZYX rotation order.

TYPE:

enum in ['AUTO', 'XYZ', 'XZY', 'YXZ', 'YZX', 'ZXY', 'ZYX'], default 'AUTO'

invert x

Invert the X rotation

TYPE:

boolean, default False

$invert_y$

Invert the Y rotation

TYPE:

boolean, default False

invert_z

Invert the Z rotation

TYPE:

boolean, default False

mix_mode

Specify how the copied and existing rotations are combined

- REPLACE Replace Replace the original rotation with copied.
- ADD Add Add euler component values together.
- BEFORE Before Original Apply copied rotation before original, as if the constraint target is a parent.
- AFTER After Original Apply copied rotation after original, as if the constraint target is a child.
- OFFSET Offset (Legacy) Combine rotations like the original Offset checkbox. Does not work well for multiple axis rotations...

TYPE:

enum in ['REPLACE', 'ADD', 'BEFORE', 'AFTER', 'OFFSET'], default 'REPLACE'

subtarget

Armature bone, mesh or lattice vertex group, ...

TYPE:

```
string, default ", (never None)
target
   Target object
   TYPE:
         Object
use\_offset
   DEPRECATED: Add original rotation into copied rotation
   TYPE:
        boolean, default False
use_x
   Copy the target's X rotation
   TYPE:
        boolean, default False
use_y
   Copy the target's Y rotation
   TYPE:
        boolean, default False
use_z
   Copy the target's Z rotation
   TYPE:
        boolean, default False
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
- Constraint.name
- Constraint.type
- Constraint.mute
 - Constraint.enabled
 - Constraint.show_expanded

- Constraint.is_override_data Constraint.is_valid
- Constraint.owner space Constraint.active
- Constraint.target space
- Constraint.influence
- Constraint.space object
- Constraint.error location
- Constraint.space_subtarget Constraint.error_rotation

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.type_recast
- 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.values
- Constraint.bl_rna_get_subclass
- Constraint.bl_rna_get_subclass_py

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CopyScaleConstraint(Constrai

Skip to content CopyScaleConstraint(Constraint)

```
base\ classes -- \ \texttt{bpy\_struct},\ \texttt{Constraint}
class bpy.types.CopyScaleConstraint(Constraint)
     Copy the scale of the target
     power
          Raise the target's scale to the specified power
          TYPE:
               float in [-inf, inf], default 1.0
     subtarget
          Armature bone, mesh or lattice vertex group, ...
          TYPE:
               string, default ", (never None)
     target
          Target object
          TYPE:
               Object
      use_add
          Use addition instead of multiplication to combine scale (2.7 compatibility)
          TYPE:
               boolean, default False
     use make uniform
          Redistribute the copied change in volume equally between the three axes of the owner
          TYPE:
               boolean, default False
     use offset
          Combine original scale with copied scale
          TYPE:
               boolean, default False
     use x
          Copy the target's X scale
          TYPE:
               boolean, default False
      use_y
          Copy the target's Y scale
          TYPE:
               boolean, default False
```

```
Copy the target's Z scale
   TYPE:
        boolean, default False
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

•	<pre>bpy_struct.id_data</pre>	Constraint.mute
•	Constraint.name •	Constraint.enabled
•	Constraint.type •	Constraint.show_expanded
•	Constraint.is_override_data •	Constraint.is_valid
•	Constraint.owner_space •	Constraint.active
•	Constraint.target_space •	Constraint.influence
•	Constraint.space_object •	Constraint.error_location
•	Constraint.space_subtarget •	Constraint.error_rotation

•	<pre>bpy_struct.as_pointer</pre>	•	<pre>bpy_struct.keyframe_delete</pre>
•	bpy_struct.driver_add	•	<pre>bpy_struct.keyframe_insert</pre>
•	bpy_struct.driver_remove	•	bpy_struct.keys
•	bpy_struct.get	•	<pre>bpy_struct.path_from_id</pre>
•	<pre>bpy_struct.id_properties_clear</pre>	•	<pre>bpy_struct.path_resolve</pre>
•	<pre>bpy_struct.id_properties_ensure</pre>	•	<pre>bpy_struct.pop</pre>
•	<pre>bpy_struct.id_properties_ui</pre>	•	<pre>bpy_struct.property_overridable_library_set</pre>
•	<pre>bpy_struct.is_property_hidden</pre>	•	<pre>bpy_struct.property_unset</pre>
•	<pre>bpy_struct.is_property_overridable_library</pre>	•	<pre>bpy_struct.type_recast</pre>
•	<pre>bpy_struct.is_property_readonly</pre>	•	bpy_struct.values
•	<pre>bpy_struct.is_property_set</pre>	•	Constraint.bl_rna_get_subclass
•	bpy struct.items	•	Constraint.bl_rna_get_subclass_py

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Previous CopyRotationConstraint(Constraint) Report issue on this page

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CopyTransformsConstraint(Constraint)

```
base classes — bpy_struct, Constraint
```

class bpy.types.CopyTransformsConstraint(Constraint)

Copy all the transforms of the target

head tail

Target along length of bone: Head is 0, Tail is 1

TYPE:

float in [0, 1], default 0.0

mix mode

Specify how the copied and existing transformations are combined

- REPLACE Replace Replace the original transformation with copied.
- BEFORE_FULL Before Original (Full) Apply copied transformation before original, using simple matrix multiplication as if the constraint target is a parent in Full Inherit Scale mode. Will create shear when combining rotation and non-uniform scale..
- BEFORE Before Original (Aligned) Apply copied transformation before original, as if the constraint target is a parent in Aligned Inherit Scale mode. This effectively uses Full for location and Split Channels for rotation and scale..
- BEFORE_SPLIT Before Original (Split Channels) Apply copied transformation before original, handling location, rotation and scale separately, similar to a sequence of three Copy constraints.
- AFTER_FULL After Original (Full) Apply copied transformation after original, using simple matrix multiplication as if the constraint target is a child in Full Inherit Scale mode. Will create shear when combining rotation and non-uniform scale..
- AFTER After Original (Aligned) Apply copied transformation after original, as if the constraint target is a child in Aligned Inherit Scale mode. This effectively uses Full for location and Split Channels for rotation and scale..
- AFTER_SPLIT After Original (Split Channels) Apply copied transformation after original, handling location, rotation and scale separately, similar to a sequence of three Copy constraints.

TYPE:

enum in ['REPLACE', 'BEFORE_FULL', 'BEFORE', 'BEFORE_SPLIT', 'AFTER_FULL', 'AFTER', 'AFTER_SPLIT'], default 'REPLACE'

remove target shear

Remove shear from the target transformation before combining

TYPE:

boolean, default False

subtarget

Armature bone, mesh or lattice vertex group, ...

TYPE:

string, default ", (never None)

target

Target object

TYPE:

Object

use bbone shape

Follow shape of B-Bone segments when calculating Head/Tail position

```
TYPE:
```

boolean, default False

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
- Constraint.name
- Constraint.type

- Constraint.owner space
- Constraint.target space

- Constraint.mute
 - Constraint.enabled
 - Constraint.show expanded
- Constraint.is override data Constraint.is valid
 - Constraint.active
 - Constraint.influence
- Constraint.space object Constraint.error location
- Constraint.space subtarget Constraint.error rotation

- 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.type_recast
- 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.values
- Constraint.bl rna get subclass
- Constraint.bl rna get subclass py

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CorrectiveSmoothModifier(Modifier)

```
base classes — bpy_struct, Modifier
```

class bpy.types.CorrectiveSmoothModifier(Modifier)

Correct distortion caused by deformation

factor

Smooth effect factor

TYPE:

float in [-inf, inf], default 0.5

invert_vertex_group

Invert vertex group influence

TYPE:

boolean, default False

is_bind

TYPE:

boolean, default False, (readonly)

iterations

TYPE:

int in [0, 32767], default 5

rest_source

Select the source of rest positions

- ORCO Original Coords Use base mesh vertex coordinates as the rest position.
- BIND Bind Coords Use bind vertex coordinates for rest position.

TYPE:

```
enum in ['ORCO', 'BIND'], default 'ORCO'
```

scale

Compensate for scale applied by other modifiers

TYPE:

```
float in [-inf, inf], default 1.0
```

smooth_type

Method used for smoothing

- SIMPLE Simple Use the average of adjacent edge-vertices.
- LENGTH_WEIGHTED Length Weight Use the average of adjacent edge-vertices weighted by their length.

TYPE:

```
enum in ['SIMPLE', 'LENGTH WEIGHTED'], default 'SIMPLE'
```

use_only_smooth

Apply smoothing without reconstructing the surface

TYPE:

boolean. default False

```
use_pin_boundary

Excludes boundary vertices from being smoothed

TYPE:

boolean, default False

vertex_group

Name of Vertex Group which determines influence of modifier per point

TYPE:

string, default 'e', (never None)

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

•	<pre>bpy_struct.id_data</pre>	Modifier.show_expanded
•	Modifier.name •	Modifier.is_active
•	Modifier.type •	Modifier.use_pin_to_last
•	Modifier.show_viewport •	Modifier.is_override_data
•	Modifier.show_render •	Modifier.use_apply_on_spline
•	Modifier.show_in_editmode •	Modifier.execution_time
•	Modifier.show_on_cage •	Modifier.persistent_uid

Inherited Functions

•	<pre>bpy_struct.as_pointer</pre>
•	bpy_struct.driver_add
•	<pre>bpy_struct.driver_remove</pre>
•	bpy_struct.get
•	<pre>bpy_struct.id_properties_clear</pre>
•	<pre>bpy_struct.id_properties_ensure</pre>
•	<pre>bpy_struct.id_properties_ui</pre>
•	bpy struct.is property hidden

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.is_property_overridable_library bpy_struct.type_recast
- bpy_struct.is_property_readonly
- bpy_struct.is_property_set
- bpy_struct.items

- bpy_struct.values
- Modifier.bl rna get subclass
- Modifier.bl_rna_get_subclass_py

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CrossStrip(EffectStr

Skip to content CrossStrip(EffectStrip)

```
base classes — bpy_struct, Strip, EffectStrip
class bpy.types.CrossStrip(EffectStrip)
    Cross Sequence
     input 1
        First input for the effect strip
        TYPE:
              Strip, (never None)
     input 2
        Second input for the effect strip
        TYPE:
              Strip, (never None)
     input_count
        TYPE:
             int in [0, inf], default 0, (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
Strip.name
Strip.modifiers
Strip.type
Strip.use_cache_raw
Strip.select
Strip.use_cache_preprocessed
Strip.select_left_handle
Strip.use_cache_composite
Strip.select_right_handle
Strip.override_cache_settings
Strip.mute
Strip.show_retiming_keys
Strip.lock
EffectStrip.use_deinterlace
Strip.frame final duration
EffectStrip.alpha mode
```

• Strip.frame duration • EffectStrip.use flip x • EffectStrip.use_flip_y • Strip.frame_start • Strip.frame final start • EffectStrip.use float • Strip.frame final end • EffectStrip.use reverse frames • Strip.frame offset start • EffectStrip.color multiply • Strip.frame offset end EffectStrip.multiply alpha • EffectStrip.color_saturation • Strip.channel • Strip.use linear modifiers • EffectStrip.strobe • Strip.blend type • EffectStrip.transform • Strip.blend alpha • EffectStrip.crop • EffectStrip.use_proxy • Strip.effect fader • Strip.use_default fade EffectStrip.proxy

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 • Strip.move to meta • 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

• Strip.strip elem from frame

• Strip.swap

• Strip.parent meta

• Strip.invalidate cache

• Strip.split

• Strip.bl_rna_get_subclass

• Strip.bl rna get subclass py

• EffectStrip.bl_rna_get_subclass

• EffectStrip.bl rna get subclass py

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CryptomatteEntry(bpy stru

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CryptomatteEntry(bpy_struct)

```
base class — bpy_struct
class bpy.types.CryptomatteEntry(bpy struct)
     encoded hash
        TYPE:
             float in [-inf, inf], default 0.0, (readonly)
     name
        TYPE:
             string, default ", (readonly, never None)
     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

```
• bpy_struct.as_pointer
                                             • bpy struct.items
• bpy_struct.driver_add
                                             • bpy struct.keyframe delete
• bpy struct.driver remove
                                             • bpy struct.keyframe_insert
• bpy_struct.get
                                             • bpy_struct.keys
• bpy struct.id properties clear
                                             • bpy struct.path from id
• bpy struct.id properties ensure
                                             • bpy struct.path resolve
• bpy struct.id properties ui
                                             • bpy struct.pop
• bpy struct.is property hidden
                                             • bpy struct.property overridable library set
• bpy struct.is property overridable library • bpy struct.property unset
• bpy_struct.is_property_readonly
                                             • bpy_struct.type_recast
• bpy struct.is property set
                                             • bpy struct.values
```

References

• CompositorNodeCryptomatteV2.entries

Previous CrossStrip(EffectStrip) Report issue on this page Copyright © Blender Authors Made with Furo No Curve(I

Skip to content Curve(ID)

```
base classes — bpy_struct, ID
subclasses — SurfaceCurve, TextCurve
class bpy.types.Curve(ID)
```

Curve data-block storing curves, splines and NURBS

animation data

Animation data for this data-block

TYPE:

```
AnimData, (readonly)
```

bevel depth

Radius of the bevel geometry, not including extrusion

TYPE:

```
float in [-inf, inf], default 0.0
```

bevel factor end

Define where along the spline the curve geometry ends (0 for the beginning, 1 for the end)

TYPE:

float in [0, 1], default 1.0

bevel_factor_mapping_end

Determine how the geometry end factor is mapped to a spline

- RESOLUTION Resolution Map the geometry factor to the number of subdivisions of a spline (U resolution).
- SEGMENTS Segments Map the geometry factor to the length of a segment and to the number of subdivisions of a segment.
- SPLINE Spline Map the geometry factor to the length of a spline.

TYPE:

enum in ['RESOLUTION', 'SEGMENTS', 'SPLINE'], default 'RESOLUTION'

$bevel_factor_mapping_start$

Determine how the geometry start factor is mapped to a spline

- RESOLUTION Resolution Map the geometry factor to the number of subdivisions of a spline (U resolution).
- SEGMENTS Segments Map the geometry factor to the length of a segment and to the number of subdivisions of a segment.
- $\bullet\ \ \mbox{SPLINE}$ Spline Map the geometry factor to the length of a spline.

TYPE:

```
enum in ['RESOLUTION', 'SEGMENTS', 'SPLINE'], default 'RESOLUTION'
```

bevel_factor_start

Define where along the spline the curve geometry starts (0 for the beginning, 1 for the end)

TYPE:

```
float in [0, 1], default 0.0
```

bevel_mode

Determine how to build the curve's bevel geometry

ROUND Round - Use circle for the section of the curve's hevel geometry

TOO DIVE TWO HERE OF CHOIC FOR THE SECTION OF THE COLVE S OF VOT SCOTTINGS.

- OBJECT Object Use an object for the section of the curve's bevel geometry segment.
- PROFILE Profile Use a custom profile for each quarter of curve's bevel geometry.

TYPE:

```
enum in ['ROUND', 'OBJECT', 'PROFILE'], default 'ROUND'
```

bevel_object

The name of the Curve object that defines the bevel shape

TYPE:

Object

bevel profile

The path for the curve's custom profile

TYPE:

```
CurveProfile, (readonly)
```

bevel resolution

The number of segments in each quarter-circle of the bevel

TYPE:

```
int in [0, 32], default 4
```

cycles

Cycles mesh settings

TYPE:

```
CyclesMeshSettings, (readonly)
```

dimensions

Select 2D or 3D curve type

- 2D 2D Clamp the Z axis of the curve.
- \bullet 3D Allow editing on the Z axis of this curve, also allows tilt and curve radius to be used.

TYPE:

```
enum in ['2D', '3D'], default '2D'
```

eval_time

Parametric position along the length of the curve that Objects 'following' it should be at (position is evaluated by dividing by the 'Path Length' value)

TYPE:

```
float in [-inf, inf], default 0.0
```

extrude

Length of the depth added in the local Z direction along the curve, perpendicular to its normals

TYPE:

```
float in [0, inf], default 0.0
```

fill_mode

Mode of filling curve

TYPE:

```
enum in ['FULL', 'BACK', 'FRONT', 'HALF'], default 'FULL'
```

```
is editmode
    True when used in editmode
    TYPE:
         boolean, default False, (readonly)
materials
    TYPE:
          IDMaterials bpy_prop_collection of Material, (readonly)
offset
    Distance to move the curve parallel to its normals
    TYPE:
         float in [-inf, inf], default 0.0
path_duration
    The number of frames that are needed to traverse the path, defining the maximum value for the 'Evaluation Time' setting
    TYPE:
         int in [1, 1048574], default 100
render_resolution_u
    Surface resolution in U direction used while rendering (zero uses preview resolution)
    TYPE:
         int in [0, 1024], default 0
render_resolution_v
    Surface resolution in V direction used while rendering (zero uses preview resolution)
    TYPE:
         int in [0, 1024], default 0
resolution u
    Number of computed points in the U direction between every pair of control points
    TYPE:
         int in [1, 1024], default 12
resolution v
    The number of computed points in the V direction between every pair of control points
    TYPE:
         int in [1, 1024], default 12
shape_keys
    TYPE:
          Key, (readonly)
splines
    Collection of splines in this curve data object
    TYPE:
```

CurveSplines bpy prop collection of Spline, (readonly)

taper object

Curve object name that defines the taper (width)

TYPE:

Object

taper_radius_mode

Determine how the effective radius of the spline point is computed when a taper object is specified

- OVERRIDE Override Override the radius of the spline point with the taper radius.
- MULTIPLY Multiply Multiply the radius of the spline point by the taper radius.
- ADD Add Add the radius of the bevel point to the taper radius.

TYPE:

```
enum in ['OVERRIDE', 'MULTIPLY', 'ADD'], default 'OVERRIDE'
```

texspace_location

TYPE:

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

texspace_size

TYPE:

```
mathutils. Vector of 3 items in [-inf, inf], default (1.0, 1.0, 1.0)
```

twist mode

The type of tilt calculation for 3D Curves

- Z UP Z-Up Use Z-Up axis to calculate the curve twist at each point.
- MINIMUM Minimum Use the least twist over the entire curve.
- TANGENT Tangent Use the tangent to calculate twist.

TYPE:

```
enum in ['Z UP', 'MINIMUM', 'TANGENT'], default 'MINIMUM'
```

twist_smooth

Smoothing iteration for tangents

TYPE:

```
float in [-inf, inf], default 0.0
```

use auto texspace

Adjust active object's texture space automatically when transforming object

TYPE:

boolean, default True

use deform bounds

Option for curve-deform: Use the mesh bounds to clamp the deformation

TYPE:

boolean, default False

use_fill_caps

Fill caps for beveled curves

TYPE:

boolean, default False

```
use_map_taper
    Map effect of the taper object to the beveled part of the curve
    TYPE:
         boolean, default False
use_path
    Enable the curve to become a translation path
    TYPE:
         boolean, default False
use path clamp
    Clamp the curve path children so they can't travel past the start/end point of the curve
    TYPE:
         boolean, default False
use_path_follow
    Make curve path children rotate along the path
    TYPE:
         boolean, default False
use radius
    Option for paths and curve-deform apply the curve radius to objects following it and to deformed objects
    TYPE:
         boolean, default True
use_stretch
    Option for curve-deform: make deformed child stretch along entire path
    TYPE:
         boolean, default False
transform(matrix, *, shape keys=False)
    Transform curve by a matrix
    PARAMETERS:
      • matrix (mathutils.Matrix of 4 * 4 items in [-inf, inf]) – Matrix
      • shape_keys (boolean, (optional)) – Transform Shape Keys
validate material indices()
    Validate material indices of splines or letters, return True when the curve has had invalid indices corrected (to default 0)
    RETURNS:
         Result
    RETURN TYPE:
         boolean
update_gpu_tag()
    update_gpu_tag
classmethod bl_rna_get_subclass(id, default=None)
```

id (ota) The DNA time identifier

PARAMETERS:

```
\mathbf{n}(su) – the man 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

- 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 ID.override_create
- 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.type_recast
- bpy struct.values
- ID.rename
- ID.evaluated get
- ID.copy
- ID.asset mark
- ID.asset clear
- ID.asset generate preview
- 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

- bpy_struct.pop
- bpy_struct.property_overridable_library_set ID.bl_rna_get_subclass
- bpy_struct.property_unset

- ID.preview_ensure
- ID.bl_rna_get_subclass_py

References

- bpy.context.curve
- BlendData.curves
- BlendDataCurves.new
- BlendDataCurves.remove
- Object.to_curve

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CurveMap(bpy stru