View3DOverlay(bpy_struct)

```
base class — bpy_struct
class bpy.types.View3DOverlay(bpy_struct)
    Settings for display of overlays in the 3D viewport
     bone_wire_alpha
         Maximum opacity of bones in wireframe display mode
         TYPE:
               float in [0, inf], default 1.0
     display_handle
         Limit the display of curve handles in edit mode
         TYPE:
               enum in ['NONE', 'SELECTED', 'ALL'], default 'SELECTED'
     fade_inactive_alpha
         Strength of the fade effect
         TYPE:
               float in [0, 1], default 0.4
     gpencil_fade_layer
         Fade layer opacity for Grease Pencil layers except the active one
         TYPE:
               float in [0, 1], default 0.5
     gpencil fade objects
         Fade factor
         TYPE:
               float in [0, 1], default 0.5
     gpencil_grid_color
         Canvas grid color
         TYPE:
               mathutils.Color of 3 items in [0, 1], default (0.5, 0.5, 0.5)
     gpencil_grid_offset
         Canvas grid offset
         TYPE:
               float array of 2 items in [-inf, inf], default (0.0, 0.0)
     gpencil_grid_opacity
         Canvas grid opacity
         TYPE:
               float in [0.1, 1], default 0.9
```

gpencil_grid_scale

```
Canvas grid scale
    TYPE:
          mathutils. Vector of 2 items in [0, inf], default (1.0, 1.0)
gpencil_grid_subdivisions
    Canvas grid subdivisions
    TYPE:
         int in [1, 100], default 4
gpencil_vertex_paint_opacity
    Vertex Paint mix factor
    TYPE:
         float in [0, 1], default 1.0
grid lines
    Number of grid lines to display in perspective view
    TYPE:
         int in [0, 1024], default 16
grid_scale
    Multiplier for the distance between 3D View grid lines
    TYPE:
         float in [0, inf], default 1.0
grid_scale_unit
    Grid cell size scaled by scene unit system settings
    TYPE:
         float in [-inf, inf], default 0.0, (readonly)
grid_subdivisions
    Number of subdivisions between grid lines
    TYPE:
         int in [1, 1024], default 10
normals_constant_screen_size
    Screen size for normals in the 3D view
    TYPE:
         float in [0, 100000], default 7.0
normals_length
    Display size for normals in the 3D view
    TYPE:
         float in [1e-05, 100000], default 0.1
retopology_offset
    Offset used to draw edit mesh in front of other geometry
    TYPE:
```

float in [0, inf], default 0.2

sculpt_curves_cage_opacity Opacity of the cage overlay in curves sculpt mode TYPE: float in [0, 1], default 0.0 sculpt_mode_face_sets_opacity TYPE: float in [0, 1], default 1.0 sculpt_mode_mask_opacity TYPE: float in [0, 1], default 0.75 $show_annotation$ Show annotations for this view TYPE: boolean, default True show_axis_x Show the X axis line TYPE: boolean, default True show_axis_y Show the Y axis line TYPE: boolean, default True $show_axis_z$ Show the Z axis line TYPE: boolean, default False show bones Display bones (disable to show motion paths only) TYPE: boolean, default True show_camera_guides Show camera composition guides TYPE: boolean, default True show_camera_passepartout Show camera passepartout TYPE: boolean, default True

show cursor

```
Display 3D Cursor Overlay
    TYPE:
         boolean, default True
show curve normals
    Display 3D curve normals in editmode
    TYPE:
         boolean, default False
show_edge_bevel_weight
    Display weights created for the Bevel modifier
    TYPE:
         boolean, default True
show edge crease
    Display creases created for Subdivision Surface modifier
    TYPE:
         boolean, default True
show_edge_seams
    Display UV unwrapping seams
    TYPE:
         boolean, default True
show_edge_sharp
    Display sharp edges, used with the Edge Split modifier
    TYPE:
         boolean, default True
show_extra_edge_angle
    Display selected edge angle, using global values when set in the transform panel
    TYPE:
         boolean, default False
show\_extra\_edge\_length
    Display selected edge lengths, using global values when set in the transform panel
    TYPE:
         boolean, default False
show extra face angle
    Display the angles in the selected edges, using global values when set in the transform panel
    TYPE:
         boolean, default False
show_extra_face_area
    Display the area of selected faces, using global values when set in the transform panel
    TYPE:
         boolean, default False
```

show extra indices Display the index numbers of selected vertices, edges, and faces TYPE: boolean, default False show extras Object details, including empty wire, cameras and other visual guides TYPE: boolean, default True show_face_center Display face center when face selection is enabled in solid shading modes TYPE: boolean, default False show_face_normals Display face normals as lines TYPE: boolean, default False show face orientation Show the Face Orientation Overlay TYPE: boolean, default False show faces Display a face selection overlay TYPE: boolean, default True $show_fade_inactive$ Fade inactive geometry using the viewport background color TYPE: boolean, default False show_floor Show the ground plane grid TYPE: boolean, default True show_freestyle_edge_marks Display Freestyle edge marks, used with the Freestyle renderer TYPE: boolean, default True show_freestyle_face_marks

Display Freestyle face marks, used with the Freestyle renderer

```
TYPE:
         boolean, default True
show_light_colors
    Show light colors
    TYPE:
         boolean, default False
show\_look\_dev
    Show HDRI preview spheres
    TYPE:
         boolean, default False
show\_motion\_paths
    Show the Motion Paths Overlay
    TYPE:
         boolean, default True
show_object_origins
    Show object center dots
    TYPE:
         boolean, default True
show_object_origins_all
    Show the object origin center dot for all (selected and unselected) objects
    TYPE:
         boolean, default False
show_onion_skins
    Show the Onion Skinning Overlay
    TYPE:
         boolean, default False
show ortho grid
    Show grid in orthographic side view
    TYPE:
         boolean, default True
show\_outline\_selected
    Show an outline highlight around selected objects
    TYPE:
         boolean, default True
show_overlays
    Display overlays like gizmos and outlines
    TYPE:
         boolean, default True
show_paint_wire
```

Use wireframe display in painting modes TYPE: boolean, default False $show_relationship_lines$ Show dashed lines indicating parent or constraint relationships TYPE: boolean, default True show retopology Hide the solid mesh and offset the overlay towards the view. Selection is occluded by inactive geometry, unless X-Ray is enabled TYPE: boolean, default False show_sculpt_curves_cage Show original curves that are currently being edited TYPE: boolean, default False show_sculpt_face_sets TYPE: boolean, default True show_sculpt_mask TYPE: boolean, default True $show_split_normals$ Display vertex-per-face normals as lines TYPE: boolean, default False show_stats Display scene statistics overlay text TYPE: boolean, default False show_statvis Display statistical information about the mesh TYPE: boolean, default False $show_text$ Display overlay text TYPE: boolean, default True show_vertex_normals

Display vertex normals as lines

```
TYPE:
         boolean, default False
show_viewer_attribute
    Show attribute overlay for active viewer node
    TYPE:
         boolean, default True
show_viewer_text
    Show attribute values as text in viewport
    TYPE:
         boolean, default False
show_weight
    Display weights in editmode
    TYPE:
         boolean, default False
show_wireframes
    Show face edges wires
    TYPE:
         boolean, default False
show_wpaint_contours
    Show contour lines formed by points with the same interpolated weight
    TYPE:
         boolean, default False
show_xray_bone
    Show the bone selection overlay
    TYPE:
         boolean, default False
texture_paint_mode_opacity
    Opacity of the texture paint mode stencil mask overlay
    TYPE:
         float in [0, 1], default 1.0
use debug freeze view culling
    Freeze view culling bounds
    TYPE:
         boolean, default False
use_gpencil_canvas_xray
    Show Canvas grid in front
    TYPE:
         boolean, default False
```

use gpencii eait iines Show Edit Lines when editing strokes TYPE: boolean, default True use_gpencil_fade_gp_objects Fade Grease Pencil Objects, except the active one TYPE: boolean, default False use_gpencil_fade_layers Toggle fading of Grease Pencil layers except the active one TYPE: boolean, default False use_gpencil_fade_objects Fade all viewport objects with a full color layer to improve visibility TYPE: boolean, default False use_gpencil_grid Display a grid over Grease Pencil paper TYPE: boolean, default False use_gpencil_multiedit_line_only Show Edit Lines only in multiframe TYPE: boolean, default False use_gpencil_onion_skin Show ghosts of the keyframes before and after the current frame TYPE: boolean, default False use_gpencil_show_directions Show stroke drawing direction with a bigger green dot (start) and smaller red dot (end) points TYPE: boolean, default False use gpencil show material name Show material name assigned to each stroke

TYPE:

boolean, default False

use normals constant screen size

Keep size of normals constant in relation to 3D view

TYPE:

1 1 10 10 1

```
boolean, detault False
```

```
vertex opacity
```

Opacity for edit vertices

TYPE:

float in [0, 1], default 1.0

vertex paint mode opacity

Opacity of the texture paint mode stencil mask overlay

TYPE:

float in [0, 1], default 1.0

viewer_attribute_opacity

Opacity of the attribute that is currently visualized

TYPE:

float in [0, 1], default 1.0

weight_paint_mode_opacity

Opacity of the weight paint mode overlay

TYPE:

float in [0, 1], default 1.0

wireframe opacity

Opacity of the displayed edges (1.0 for opaque)

TYPE:

float in [0, 1], default 1.0

wireframe threshold

Adjust the angle threshold for displaying edges (1.0 for all)

TYPE:

float in [0, 1], default 1.0

xray alpha bone

Opacity to use for bone selection

TYPE:

float in [0, 1], default 0.5

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:

RETURN TYPE:

type

Inherited Properties

• bpy_struct.id_data

Inherited Functions

- bpy_struct.as_pointer
- bpy struct.driver add
- bpy_struct.driver_remove
- bpy struct.get
- bpy_struct.id_properties_clear
- bpy_struct.id_properties_ensure
- bpy struct.id properties ui
- bpy struct.is property hidden
- bpy struct.is property overridable library bpy struct.property unset
- bpy struct.is property readonly
- bpy_struct.is_property_set

- bpy struct.items
- bpy struct.keyframe delete
- bpy_struct.keyframe_insert
- bpy struct.keys
- bpy_struct.path_from_id
- bpy struct.path resolve
- bpy struct.pop
- bpy_struct.property_overridable_library_set
- bpy struct.type recast
- bpy struct.values

References

• SpaceView3D.overlay

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View3DShading(bpy stru