Skip to content SpaceView3D(Space)

```
base classes — bpy_struct, Space
class bpy.types.SpaceView3D(Space)
    3D View space data
     camera
         Active camera used in this view (when unlocked from the scene's active camera)
         TYPE:
               Object
     clip_end
         3D View far clipping distance
         TYPE:
              float in [1e-06, inf], default 1000.0
     clip_start
         3D View near clipping distance (perspective view only)
         TYPE:
              float in [1e-06, inf], default 0.01
     icon\_from\_show\_object\_viewport
         TYPE:
              int in [-inf, inf], default 0, (readonly)
     lens
         Viewport lens angle
         TYPE:
              float in [1, 250], default 50.0
     local_view
         Display an isolated subset of objects, apart from the scene visibility
         TYPE:
               SpaceView3D, (readonly)
     lock_bone
         3D View center is locked to this bone's position
         TYPE:
              string, default ", (never None)
     lock_camera
         Enable view navigation within the camera view
         TYPE:
              boolean, default False
     lock_cursor
```

3D View center is locked to the cursor's position

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TYPE:
         boolean, default False
lock object
    3D View center is locked to this object's position
    TYPE:
         Object
mirror_xr_session
    Synchronize the viewer perspective of virtual reality sessions with this 3D viewport
    TYPE:
         boolean, default False
overlay
    Settings for display of overlays in the 3D viewport
    TYPE:
         View3DOverlay, (readonly, never None)
region 3d
    3D region for this space. When the space is in quad view, the camera region
    TYPE:
         RegionView3D, (readonly)
region quadviews
    3D regions (the third one defines quad view settings, the fourth one is same as 'region 3d')
    TYPE:
         bpy prop collection of RegionView3D, (readonly)
render_border_max_x
    Maximum X value for the render region
    TYPE:
         float in [0, 1], default 0.0
render_border_max_y
    Maximum Y value for the render region
    TYPE:
         float in [0, 1], default 0.0
render_border_min_x
    Minimum X value for the render region
    TYPE:
         float in [0, 1], default 0.0
render_border_min_y
    Minimum Y value for the render region
    TYPE:
         float in [0, 1], default 0.0
```

shading

```
Settings for shading in the 3D viewport
    TYPE:
         View3DShading, (readonly, never None)
show_bundle_names
    Show names for reconstructed tracks objects
    TYPE:
         boolean, default False
show_camera_path
    Show reconstructed camera path
    TYPE:
         boolean, default False
show_gizmo
    Show gizmos of all types
    TYPE:
         boolean, default True
show_gizmo_camera_dof_distance
    Gizmo to adjust camera focus distance (depends on limits display)
    TYPE:
         boolean, default False
show_gizmo_camera_lens
    Gizmo to adjust camera focal length or orthographic scale
    TYPE:
         boolean, default False
show_gizmo_context
    Context sensitive gizmos for the active item
    TYPE:
         boolean, default True
show gizmo empty force field
    Gizmo to adjust the force field
    TYPE:
         boolean, default False
show_gizmo_empty_image
    Gizmo to adjust image size and position
    TYPE:
         boolean, default False
show_gizmo_light_look_at
    Gizmo to adjust the direction of the light
```

TYPE:

boolean, default False

show_gizmo_light_size Gizmo to adjust spot and area size TYPE: boolean, default False show_gizmo_modifier Gizmos for the active modifier TYPE:

boolean, default True

show_gizmo_navigate

Viewport navigation gizmo

TYPE:

boolean, default True

show_gizmo_object_rotate
Gizmo to adjust rotation

TYPE:

boolean, default False

show_gizmo_object_scale
Gizmo to adjust scale

TYPE:

boolean, default False

 $show_gizmo_object_translate$

Gizmo to adjust location

TYPE:

boolean, default False

show_gizmo_tool

Active tool gizmo

TYPE:

boolean, default True

show_object_select_armature

Allow selection of armatures

TYPE:

boolean, default True

 $show_object_select_camera$

Allow selection of cameras

TYPE:

boolean, default True

show_object_select_curve

Allow selection of curves

TYPE:
boolean, default True
show object_select_curves
Allow selection of hair curves
TYPE:
boolean, default True
show_object_select_empty
Allow selection of empties
ТҮРЕ:
boolean, default True
show object select font
Allow selection of text objects
·
TYPE: boolean, default True
boolean, delaun Tue
show_object_select_grease_pencil
Allow selection of Grease Pencil objects
TYPE:
boolean, default True
show object select lattice
Allow selection of lattices
TS/DE.
TYPE: boolean, default True
,
show_object_select_light
Allow selection of lights
TYPE:
boolean, default True
show object select light probe
Allow selection of light probes
TYPE:
boolean, default True
show_object_select_mesh
Allow selection of mesh objects
TYPE:
boolean, default True
show_object_select_meta
Allow selection of metaballs
TYPE:
boolean, default True
, in the second
show_object_select_pointcloud

ТҮРЕ:
boolean, default True
show_object_select_speaker
Allow selection of speakers
TYPE:
boolean, default True
show_object_select_surf Allow selection of surfaces
TYPE: boolean, default True
show_object_select_volume
Allow selection of volumes
TYPE:
boolean, default True
show_object_viewport_armature
Show armatures
TYPE: boolean, default True
show_object_viewport_camera Show cameras
TYPE:
boolean, default True
show_object_viewport_curve
Show curves
TYPE:
boolean, default True
show_object_viewport_curves
Show hair curves
TYPE: boolean, default True
show_object_viewport_empty Show empties
TYPE:
boolean, default True
show_object_viewport_font
Show text objects
TYPE:
boolean, default True

Allow selection of point clouds

Show Grease Pencil objects TYPE: boolean, default True show_object_viewport_lattice Show lattices TYPE: boolean, default True show_object_viewport_light Show lights TYPE: boolean, default True $show_object_viewport_light_probe$ Show light probes TYPE: boolean, default True $show_object_viewport_mesh$ Show mesh objects TYPE: boolean, default True show_object_viewport_meta Show metaballs TYPE: boolean, default True $show_object_viewport_pointcloud$ Show point clouds TYPE: boolean, default True show_object_viewport_speaker Show speakers TYPE: boolean, default True show_object_viewport_surf Show surfaces TYPE: boolean, default True show_object_viewport_volume Show volumes TYDE.

show_object_viewport_grease_pencil

```
I YPE:
         boolean, default True
show\_reconstruction
    Display reconstruction data from active movie clip
    TYPE:
        boolean, default True
show_region_asset_shelf
    TYPE:
         boolean, default False
show_region_hud
    TYPE:
         boolean, default False
show_region_tool_header
    TYPE:
        boolean, default False
show\_region\_toolbar
    TYPE:
         boolean, default False
show_region_ui
    TYPE:
         boolean, default False
show_stereo_3d_cameras
    Show the left and right cameras
    TYPE:
         boolean, default False
show_stereo_3d_convergence_plane
    Show the stereo 3D convergence plane
    TYPE:
         boolean, default True
show_stereo_3d_volume
    Show the stereo 3D frustum volume
    TYPE:
        boolean, default False
show_viewer
    Display non-final geometry from viewer nodes
    TYPE:
         boolean, default True
stereo_3d_camera
    TYPE:
         enum in ['LEFT', 'RIGHT', 'S3D'], default 'S3D'
```

```
stereo_3d_convergence_plane_alpha
```

Opacity (alpha) of the convergence plane

TYPE:

float in [0, 1], default 0.15

stereo_3d_eye

Current stereo eye being displayed

TYPE:

enum in ['LEFT EYE', 'RIGHT EYE'], default 'LEFT EYE', (readonly)

stereo_3d_volume_alpha

Opacity (alpha) of the cameras' frustum volume

TYPE:

float in [0, 1], default 0.05

tracks_display_size

Display size of tracks from reconstructed data

TYPE:

float in [0, inf], default 0.2

tracks_display_type

Viewport display style for tracks

TYPE:

enum in ['PLAIN_AXES', 'ARROWS', 'SINGLE_ARROW', 'CIRCLE', 'CUBE', 'SPHERE', 'CONE'], default 'PLAIN_AXES'

use_local_camera

Use a local camera in this view, rather than scene's active camera

TYPE:

boolean, default False

use_local_collections

Display a different set of collections in this viewport

TYPE:

boolean, default False

use_render_border

Use a region within the frame size for rendered viewport (when not viewing through the camera)

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

classmethod draw handler add(callback, args, region type, draw type)

Add a new draw handler to this space type. It will be called every time the specified region in the space type will be drawn. Note: All argument are positional only for now.

PARAMETERS:

- callback (Callable[[Any, ...], Any]) A function that will be called when the region is drawn. It gets the specified arguments as input, it's return value is ignored.
- args (tuple[Any, ...]) Arguments that will be passed to the callback.
- region type (str) The region type the callback draws in; usually WINDOW. (bpy.types.Region.type)
- draw type (str) Usually POST PIXEL for 2D drawing and POST VIEW for 3D drawing. In some cases PRE VIEW can be used. BACKDROP can be used for backdrops in the node editor.

RETURNS:

Handler that can be removed later on.

RETURN TYPE:

object

classmethod draw handler remove(handler, region type)

Remove a draw handler that was added previously.

PARAMETERS:

- handler (object) The draw handler that should be removed.
- region type (str) Region type the callback was added to.

Inherited Properties

- bpy struct.id data Space.show locked time
- Space.type Space.show region header

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.values
- bpy_struct.is_property_readonly

- 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
- Space.bl_rna_get_subclass
- 0---- 1-1 ---- ---- -----

- ppy_struct.is_property_set
- bpy_struct.items
- bpy_struct.keyframe_delete

- Space.bl rna get subclass py
- Space.draw_handler_add
- Space.draw_handler_remove

References

- Object.visible_get
- Object.local_view_set
 SpaceView3D.local_view

Previous SpaceUVEditor(bpy_struct) Report issue on this page

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