Skip to content XrSessionState(bpy_struct)

```
base class — bpy_struct
class bpy.types.XrSessionState(bpy struct)
     Runtime state information about the VR session
     actionmaps
          TYPE:
                XrActionMaps bpy_prop_collection of XrActionMap, (readonly)
     active_actionmap
          TYPE:
               int in [-inf, inf], default 0
     navigation_location
          Location offset to apply to base pose when determining viewer location
               mathutils. Vector of 3 items in [-inf, inf], default (0.0, 0.0, 0.0)
     navigation rotation
          Rotation offset to apply to base pose when determining viewer rotation
          TYPE:
               \verb|mathutils.Quaternion| \ \ \textit{rotation} \ \ \textit{of 4} \ \textit{items} \ \ \textit{in} \ [-\textit{inf, inf}], \ \textit{default} \ (0.0, 0.0, 0.0, 0.0)
     navigation scale
          Additional scale multiplier to apply to base scale when determining viewer scale
          TYPE:
               float in [-inf, inf], default 0.0
     selected_actionmap
          TYPE:
               int in [-inf, inf], default 0
     viewer_pose_location
          Last known location of the viewer pose (center between the eyes) in world space
          TYPE:
               mathutils. Vector of 3 items in [-inf, inf], default (0.0, 0.0, 0.0), (readonly)
     viewer_pose_rotation
          Last known rotation of the viewer pose (center between the eyes) in world space
          TYPE:
               mathutils.Quaternion rotation of 4 items in [-inf, inf], default (0.0, 0.0, 0.0, 0.0), (readonly)
     class method is_running(context)
          Query if the VR session is currently running
```

Result RETURN TVPE

RETURNS:

classmethod action_state_get(context, action_set_name, action_name, user_path)

PARAMETERS:

- action set name (string, (never None)) Action Set, Action set name
- action name (string, (never None)) Action, Action name
- user path (string, (never None)) User Path, OpenXR user path

RETURNS:

Action State, Current state of the VR action. Second float value is only set for 2D vector type actions.

RETURN TYPE:

float array of 2 items in [-inf, inf], (never None)

class method haptic_action_apply(context, action_set_name, action_name, user_path, duration, frequency, amplitude)

Apply a VR haptic action

PARAMETERS:

- action set name (string, (never None)) Action Set, Action set name
- action_name (string, (never None)) Action, Action name
- user_path (string, (never None)) User Path, Optional OpenXR user path. If not set, the action will be applied to all paths.
- duration (float in [0, inf]) Duration, Haptic duration in seconds. 0.0 is the minimum supported duration.
- **frequency** (*float in* [0, *inf*]) Frequency, Frequency of the haptic vibration in hertz. 0.0 specifies the OpenXR runtime's default frequency.
- amplitude (float in [0, 1]) Amplitude, Haptic amplitude, ranging from 0.0 to 1.0

RETURNS:

Result

RETURN TYPE:

boolean

classmethod haptic action stop(context, action set name, action name, user path)

Stop a VR haptic action

PARAMETERS:

- action_set_name (string, (never None)) Action Set, Action set name
- action_name (string, (never None)) Action, Action name
- user path (string, (never None)) User Path, Optional OpenXR user path. If not set, the action will be stopped for all paths.

classmethod controller grip location get(context, index)

Get the last known controller grip location in world space

PARAMETERS:

index (int in [0, 255]) – Index, Controller index

RETURNS:

Location, Controller grip location

RETURN TYPE:

mathutils. Vector of 3 items in [-inf, inf], (never None)

classmethod controller_grip_rotation_get(context, index)

Get the last known controller grip rotation (quaternion) in world space

PARAMETERS:

index (int in [0, 255]) – Index, Controller index

RETURNS:

Rotation. Controller grip quaternion rotation

RETURN TYPE:

mathutils.Quaternion rotation of 4 items in [-inf, inf], (never None)

classmethod controller_aim_location_get(context, index)

Get the last known controller aim location in world space

PARAMETERS:

index (int in [0, 255]) – Index, Controller index

RETURNS:

Location, Controller aim location

RETURN TYPE:

mathutils. Vector of 3 items in [-inf, inf], (never None)

classmethod controller_aim_rotation_get(context, index)

Get the last known controller aim rotation (quaternion) in world space

PARAMETERS:

index (int in [0, 255]) – Index, Controller index

RETURNS:

Rotation, Controller aim quaternion rotation

RETURN TYPE:

mathutils.Quaternion rotation of 4 items in [-inf, inf], (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

Inherited Functions

- bpy_struct.as_pointer
- bpy_struct.driver_add
- bpy struct.driver remove

- bpy_struct.items
- bpy_struct.keyframe_delete
- bpy struct.keyframe insert

- 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.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

- WindowManager.xr_session_state
- XrActionMaps.find
- XrActionMaps.new
- XrActionMaps.new_from_actionmap
- XrActionMaps.remove

Previous XrSessionSettings(bpy_struct)

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