Skip to content Volume(ID)

```
base classes — bpy_struct, ID
class bpy.types.Volume(ID)
    Volume data-block for 3D volume grids
     animation data
         Animation data for this data-block
         TYPE:
               AnimData, (readonly)
     display
         Volume display settings for 3D viewport
         TYPE:
               VolumeDisplay, (readonly)
     filepath
         Volume file used by this Volume data-block
         TYPE:
              string, default ", (never None)
     frame_duration
         Number of frames of the sequence to use
         TYPE:
              int in [0, 1048574], default 0
     frame offset
         Offset the number of the frame to use in the animation
         TYPE:
              int in [-inf, inf], default 0
     frame start
         Global starting frame of the sequence, assuming first has a #1
         TYPE:
              int in [-1048574, 1048574], default 1
     grids
         3D volume grids
         TYPE:
               VolumeGrids bpy prop collection of VolumeGrid, (readonly)
     is_sequence
         Whether the cache is separated in a series of files
         TYPE:
              boolean, default False
     materials
```

TYPE:

```
IDMaterials bpy prop collection of Material, (readonly)
```

packed file

TYPE:

```
PackedFile, (readonly)
```

render

Volume render settings for 3D viewport

TYPE:

```
VolumeRender, (readonly)
```

sequence_mode

Sequence playback mode

- CLIP Clip Hide frames outside the specified frame range.
- EXTEND Extend Repeat the start frame before, and the end frame after the frame range.
- REPEAT Repeat Cycle the frames in the sequence.
- PING PONG Ping-Pong Repeat the frames, reversing the playback direction every other cycle.

TYPE:

```
enum in ['CLIP', 'EXTEND', 'REPEAT', 'PING_PONG'], default 'CLIP'
```

velocity_grid

Name of the velocity field, or the base name if the velocity is split into multiple grids

TYPE:

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

velocity_scale

Factor to control the amount of motion blur

TYPE:

```
float in [0, inf], default 1.0
```

velocity unit

Define how the velocity vectors are interpreted with regard to time, 'frame' means the delta time is 1 frame, 'second' means the delta time is 1 FPS

TYPE:

```
enum in Velocity Unit Items, default 'FRAME'
```

velocity_x_grid

Name of the grid for the X axis component of the velocity field if it was split into multiple grids

TYPE:

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

velocity_y_grid

Name of the grid for the Y axis component of the velocity field if it was split into multiple grids

TYPE:

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

velocity_z_grid

Name of the grid for the Z axis component of the velocity field if it was split into multiple grids

```
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 • ID.is missing • ID.name • ID.is runtime data • ID.name full • ID.is editable • ID.id type • ID.tag • ID.session uid • ID.is library indirect • ID.is evaluated • ID.library • ID.original • ID.library_weak_reference • ID.users • ID.asset data • ID.use_fake_user • ID.override library • ID.use_extra_user • ID.preview • ID.is_embedded_data

Inherited Functions

• bpy struct.items

- 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.values • ID.rename • ID.evaluated_get • ID.copy • ID.asset mark • ID.asset clear • ID.asset_generate_preview

• ID.override hierarchy create

• bpy struct.type recast

- ID.user clear
- ID.user remap

- 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 ID.bl_rna_get_subclass
- bpy_struct.property_unset

- 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_py

References

- bpy.context.volume BlendDataVolumes.new
- BlendData.volumes BlendDataVolumes.remove

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VolumeDisplaceModifier(Modifier)