Skip to content FluidFlowSettings(bpy_struct)

```
base class — bpy_struct
```

class bpy.types.FluidFlowSettings(bpy_struct)

Fluid flow settings

density

TYPE:

float in [0, 10], default 1.0

density_vertex_group

Name of vertex group which determines surface emission rate

TYPE:

string, default ", (never None)

flow behavior

Change flow behavior in the simulation

- INFLOW Inflow Add fluid to simulation.
- OUTFLOW Outflow Delete fluid from simulation.
- GEOMETRY Geometry Only use given geometry for fluid.

TYPE:

enum in ['INFLOW', 'OUTFLOW', 'GEOMETRY'], default 'GEOMETRY'

flow_source

Change how fluid is emitted

TYPE:

enum in ['NONE'], default 'NONE'

flow_type

Change type of fluid in the simulation

- SMOKE Smoke Add smoke.
- BOTH Fire + Smoke Add fire and smoke.
- FIRE Fire Add fire.
- LIQUID Liquid Add liquid.

TYPE:

```
enum in ['SMOKE', 'BOTH', 'FIRE', 'LIQUID'], default 'SMOKE'
```

fuel_amount

TYPE:

float in [0, 10], default 1.0

noise_texture

Texture that controls emission strength

TYPE:

Texture

particle_size

```
Particle size in simulation cells
```

```
TYPE:
```

float in [0.1, inf], default 1.0

particle_system

Particle systems emitted from the object

TYPE:

ParticleSystem

smoke color

Color of smoke

TYPE:

```
mathutils.Color of 3 items in [0, inf], default (0.7, 0.7, 0.7)
```

subframes

Number of additional samples to take between frames to improve quality of fast moving flows

TYPE:

int in [0, 200], default 0

surface_distance

Controls fluid emission from the mesh surface (higher value results in emission further away from the mesh surface

TYPE:

float in [0, 10], default 1.5

temperature

Temperature difference to ambient temperature

TYPE:

float in [-10, 10], default 1.0

texture_map_type

Texture mapping type

- AUTO Generated Generated coordinates centered to flow object.
- UV UV Use UV layer for texture coordinates.

TYPE:

```
enum in ['AUTO', 'UV'], default 'AUTO'
```

$texture_offset$

Z-offset of texture mapping

TYPE:

float in [0, 200], default 0.0

texture_size

Size of texture mapping

TYPE:

float in [0.01, 10], default 1.0

use_absolute

Only allow given density value in emitter area and will not add up

```
TYPE:
         boolean, default True
use inflow
    Control when to apply fluid flow
    TYPE:
         boolean, default True
use initial velocity
    Fluid has some initial velocity when it is emitted
    TYPE:
         boolean, default False
use particle size
    Set particle size in simulation cells or use nearest cell
    TYPE:
         boolean, default True
use_plane_init
    Treat this object as a planar and unclosed mesh. Fluid will only be emitted from the mesh surface and based on the surface emission value.
    TYPE:
         boolean, default False
use_texture
    Use a texture to control emission strength
    TYPE:
         boolean, default False
uv layer
    UV map name
    TYPE:
         string, default ", (never None)
velocity_coord
    Additional initial velocity in X, Y and Z direction (added to source velocity)
    TYPE:
          mathutils. Vector of 3 items in [-1000.1, 1000.1], default (0.0, 0.0, 0.0)
velocity factor
    Multiplier of source velocity passed to fluid (source velocity is non-zero only if object is moving)
    TYPE:
         float in [-100, 100], default 1.0
velocity_normal
    Amount of normal directional velocity
```

float in [-100, 100], default 0.0

TYPE:

```
velocity random
    Amount of random velocity
    TYPE:
         float in [0, 10], default 0.0
volume_density
    Controls fluid emission from within the mesh (higher value results in greater emissions from inside the mesh)
    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.items
                                             • bpy struct.keyframe_delete
• bpy struct.driver add
• 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

• FluidModifier.flow_settings

Previous
FluidEffectorSettings(bpy_struct)
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No FluidModifier(Modifier)