SPHFluidSettings(bpy_struct)

```
base class — bpy_struct
class bpy.types.SPHFluidSettings(bpy_struct)
     Settings for particle fluids physics
     buoyancy
          Artificial buoyancy force in negative gravity direction based on pressure differences inside the fluid
          TYPE:
               float in [0, 10], default 0.0
     fluid_radius
          Fluid interaction radius
          TYPE:
               float in [0, 20], default 0.0
     linear_viscosity
          Linear viscosity
          TYPE:
               float in [0, 100], default 0.0
     plasticity
          How much the spring rest length can change after the elastic limit is crossed
          TYPE:
               float in [0, 100], default 0.0
     repulsion
          How strongly the fluid tries to keep from clustering (factor of stiffness)
          TYPE:
               float in [0, 100], default 0.0
     rest_density
          Fluid rest density
          TYPE:
               float in [0, 10000], default 0.0
     rest length
          Spring rest length (factor of particle radius)
          TYPE:
```

solver

The code used to calculate internal forces on particles

float in [0, 2], default 0.0

- DDR Double-Density An artistic solver with strong surface tension effects (original).
- CLASSICAL Classical A more physically-accurate solver.

TYPE:

```
enum in ['DDR', 'CLASSICAL'], default 'DDR'
```

spring_force

Spring force

TYPE:

float in [0, 100], default 0.0

spring frames

Create springs for this number of frames since particles birth (0 is always)

TYPE:

int in [0, 100], default 0

stiff_viscosity

Creates viscosity for expanding fluid

TYPE:

float in [0, 100], default 0.0

stiffness

How incompressible the fluid is (speed of sound)

TYPE:

float in [0, 1000], default 0.0

use factor density

Density is calculated as a factor of default density (depends on particle size)

TYPE:

boolean, default False

use_factor_radius

Interaction radius is a factor of 4 * particle size

TYPE:

boolean, default False

use factor repulsion

Repulsion is a factor of stiffness

TYPE:

boolean, default False

use_factor_rest_length

Spring rest length is a factor of 2 * particle size

TYPE:

boolean, default False

use_factor_stiff_viscosity

Stiff viscosity is a factor of normal viscosity

TYPE:

boolean, default False

use initial rest length

Use the initial length as spring rest length instead of 2 * particle size

```
TYPE:
         boolean, default False
use viscoelastic springs
    Use viscoelastic springs instead of Hooke's springs
    TYPE:
         boolean, default False
yield ratio
    How much the spring has to be stretched/compressed in order to change its rest length
    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.
```

Inherited Properties

RETURN TYPE: type

• bpy struct.id data

Inherited Functions

• bpy struct.as pointer • bpy struct.items • bpy struct.driver add • bpy struct.keyframe delete • 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

• ParticleSettings.fluid

Previous SEQUENCER_FH_sound_strip(FileHandler) Report issue on this page

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