Particle(bpy_struct)

base class — `bpy_struct`

class bpy.types.**Particle(bpy_struct)**

Particle in a particle system

alive_state

TYPE:

enum in ['DEAD', 'UNBORN', 'ALIVE', 'DYING'], default 'DEAD'

angular_velocity

TYPE:

`mathutils.Vector` of 3 items in [-inf, inf], default (0.0, 0.0, 0.0)

birth_time

TYPE:

float in [-inf, inf], default 0.0

die_time

TYPE:

float in [-inf, inf], default 0.0

hair_keys

TYPE:

`bpy_prop_collection` of `ParticleHairKey`, (readonly)

is_exist

TYPE:

boolean, default False, (readonly)

is_visible

TYPE:

boolean, default False, (readonly)

lifetime

TYPE:

float in [-inf, inf], default 0.0

location

TYPE:

`mathutils.Vector` of 3 items in [-inf, inf], default (0.0, 0.0, 0.0)

particle_keys

TYPE:

`bpy_prop_collection` of `ParticleKey`, (readonly)

prev_angular_velocity

TYPE:

`mathutils.Vector` of 3 items in [-inf, inf], default (0.0, 0.0, 0.0)

prev_location

TYPE:

`mathutils.Vector` of 3 items in [-inf, inf], default (0.0, 0.0, 0.0)

prev_rotation

TYPE:

`mathutils.Quaternion` rotation of 4 items in [-inf, inf], default (0.0, 0.0, 0.0, 0.0)

prev_velocity

TYPE:

`mathutils.Vector` of 3 items in [-inf, inf], default (0.0, 0.0, 0.0)

rotation

TYPE:

`mathutils.Quaternion` rotation of 4 items in [-inf, inf], default (0.0, 0.0, 0.0, 0.0)

size

TYPE:

float in [-inf, inf], default 0.0

velocity

TYPE:

`mathutils.Vector` of 3 items in [-inf, inf], default (0.0, 0.0, 0.0)

uv_on_emitter(modifier)

Obtain UV coordinates for a particle on an evaluated mesh.

PARAMETERS:

modifier (`ParticleSystemModifier`, (never None)) – Particle modifier from an evaluated object

RETURNS:

uv

RETURN TYPE:

`mathutils.Vector` of 2 items in [-inf, inf]

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.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.is_property_readonly](#)
- [bpy_struct.is_property_set](#)
- [bpy_struct.items](#)
- [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](#)
- [bpy_struct.property_unset](#)
- [bpy_struct.type_recast](#)
- [bpy_struct.values](#)

References

- [ParticleHairKey.co_object](#)
- [ParticleHairKey.co_object_set](#)
- [ParticleSystem.mcol_on_emitter](#)
- [ParticleSystem.particles](#)
- [ParticleSystem.uv_on_emitter](#)

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