RigidBodyWorld(bpy_struct)

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base class — bpy_struct
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class bpy.types.RigidBodyWorld(bpy_struct)
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Self-contained rigid body simulation environment and settings

collection

Collection containing objects participating in this simulation

TYPE:

Collection

constraints

Collection containing rigid body constraint objects

TYPE:

Collection

effector_weights

TYPE:

EffectorWeights, (readonly)

enabled

Simulation will be evaluated

TYPE:

boolean, default False

point_cache

TYPE:

PointCache, (readonly, never None)

solver_iterations

Number of constraint solver iterations made per simulation step (higher values are more accurate but slower)

TYPE:

int in [1, 1000], default 10

substeps_per_frame

Number of simulation steps taken per frame (higher values are more accurate but slower)

TYPE:

int in [1, 32767], default 10

time_scale

Change the speed of the simulation

TYPE:

float in [0, 100], default 1.0

use_split_impulse

Reduce extra velocity that can build up when objects collide (lowers simulation stability a little so use only when necessary)

TYPE:

hoolean default Falce

convex sweep test(object, start, end)

Sweep test convex rigidbody against the current rigidbody world

PARAMETERS:

object (Object, (never None)) - Rigidbody object with a convex collision shape

RETURNS:

object location, The hit location of this sweep test, mathutils. Vector of 3 items in [-inf, inf]

hitpoint, The hit location of this sweep test, mathutils. Vector of 3 items in [-inf, inf]

normal, The face normal at the sweep test hit location, mathutils. Vector of 3 items in [-inf, inf]

has hit, If the function has found collision point, value is 1, otherwise 0, int in [-inf, inf]

RETURN TYPE:

(mathutils.Vector of 3 items in [-inf, inf], mathutils.Vector of 3 items in [-inf, inf], mathutils.Vector of 3 items in [-inf, inf], int 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.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.is_property_overridable_library bpy_struct.property_unset

- bpy_struct.is_property_readonly
- bpy_struct.is_property_set

- bpy_struct.type_recast
- bpy_struct.values

References

• Scene.rigidbody_world

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