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Rigidbody Operators

bpy.ops.rigidbody.bake to keyframes(*, frame start=1, frame end=250, step=1)

Bake rigid body transformations of selected objects to keyframes

PARAMETERS:

- frame_start (int in [0, 300000], (optional)) Start Frame, Start frame for baking
- frame_end (int in [1, 300000], (optional)) End Frame, End frame for baking
- step (int in [1, 120], (optional)) Frame Step, Frame Step

FILE:

startup/bl_operators/rigidbody.py:108

bpy.ops.rigidbody.connect(*, con type='FIXED', pivot type='CENTER', connection pattern='SELECTED TO ACTIVE')

Create rigid body constraints between selected rigid bodies

PARAMETERS:

- con_type (emm in ['FIXED', 'POINT', 'HINGE', 'SLIDER', 'PISTON', 'GENERIC', 'GENERIC_SPRING', 'MOTOR'], (optional))—
 Type, Type of generated constraint
 - FIXED Fixed Glue rigid bodies together.
 - POINT Point Constrain rigid bodies to move around common pivot point.
 - HINGE Hinge Restrict rigid body rotation to one axis.
 - SLIDER Slider Restrict rigid body translation to one axis.
 - PISTON Piston Restrict rigid body translation and rotation to one axis.
 - GENERIC Generic Restrict translation and rotation to specified axes.
 - GENERIC SPRING Generic Spring Restrict translation and rotation to specified axes with springs.
 - MOTOR Motor Drive rigid body around or along an axis.
- **pivot_type** (emum in ['CENTER', 'ACTIVE', 'SELECTED'], (optional)) –

Location, Constraint pivot location

- CENTER Center Pivot location is between the constrained rigid bodies.
- ACTIVE Active Pivot location is at the active object position.
- SELECTED Selected Pivot location is at the selected object position.
- connection pattern (enum in ['SELECTED TO ACTIVE', 'CHAIN DISTANCE'], (optional)) –

Connection Pattern, Pattern used to connect objects

- $\verb| OSELECTED_TO_ACTIVE | Selected to Active Connect selected objects to the active object. \\$
- $\verb| OHAIN_DISTANCE| Chain by Distance-Connect objects as a chain based on distance, starting at the active object. \\$

FILE:

startup/bl operators/rigidbody.py:270

bpy.ops.rigidbody.constraint add(*, type='FIXED')

Add Rigid Body Constraint to active object

PARAMETERS:

type (enum in Rigidbody Constraint Type Items, (optional)) – Rigid Body Constraint Type

bpy.ops.rigidbody.constraint remove()

Remove Rigid Body Constraint from Object

bpy.ops.rigidbody.mass_calculate(*, material='DEFAULT', density=1.0)

Automatically calculate mass values for Rioid Rody Obiects based on volume

PARAMETERS:

- material (enum in ['DEFAULT'], (optional)) Material Preset, Type of material that objects are made of (determines material density)
- density (float in [1.17549e-38, inf], (optional)) Density, Density value (kg/m^3), allows custom value if the 'Custom' preset is used

bpy.ops.rigidbody.object_add(*, type='ACTIVE')

Add active object as Rigid Body

PARAMETERS:

type (enum in Rigidbody Object Type Items, (optional)) - Rigid Body Type

bpy.ops.rigidbody.object_remove()

Remove Rigid Body settings from Object

bpy.ops.rigidbody.object_settings_copy()

Copy Rigid Body settings from active object to selected

FILE:

startup/bl_operators/rigidbody.py:45

bpy.ops.rigidbody.objects add(*, type='ACTIVE')

Add selected objects as Rigid Bodies

PARAMETERS:

type (enum in Rigidbody Object Type Items, (optional)) - Rigid Body Type

bpy.ops.rigidbody.objects_remove()

Remove selected objects from Rigid Body simulation

bpy.ops.rigidbody.shape change(*, type='MESH')

Change collision shapes for selected Rigid Body Objects

PARAMETERS:

type (enum in Rigidbody Object Shape Items, (optional)) - Rigid Body Shape

bpy.ops.rigidbody.world_add()

Add Rigid Body simulation world to the current scene

bpy.ops.rigidbody.world_remove()

Remove Rigid Body simulation world from the current scene

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