# Skip to content Operators

 $bpy.ops.object.add(*, radius=1.0, type='EMPTY', enter\_editmode=False, align='WORLD', location=(0.0, 0.0, 0.0), rotation=(0.0, 0.0, 0.0), scale=(0.0, 0.0, 0.0))$ 

Add an object to the scene

#### **PARAMETERS:**

- radius (float in [0, inf], (optional)) Radius
- type (enum in Object Type Items, (optional)) Type
- enter\_editmode (boolean, (optional)) Enter Edit Mode, Enter edit mode when adding this object
- align (enum in ['WORLD', 'VIEW', 'CURSOR'], (optional))—

Align, The alignment of the new object

- WORLD World Align the new object to the world.
- VIEW View Align the new object to the view.
- CURSOR 3D Cursor Use the 3D cursor orientation for the new object.
- location (mathutils. Vector of 3 items in [-inf, inf], (optional)) Location, Location for the newly added object
- rotation (mathutils. Euler rotation of 3 items in [-inf, inf], (optional)) Rotation, Rotation for the newly added object
- scale (mathutils. Vector of 3 items in [-inf, inf], (optional)) Scale, Scale for the newly added object

bpy.ops.object.add modifier menu()

Undocumented, consider contributing.

### FILE:

startup/bl ui/properties data modifier.py:283

bpy.ops.object.add\_named(\*, linked=False, name='', session\_uid=0, matrix=((0.0, 0.0, 0.0), (0.0, 0.0, 0.0, 0.0), (0.0, 0.0, 0

Add named object

### **PARAMETERS:**

- linked (boolean, (optional)) Linked, Duplicate object but not object data, linking to the original data
- name (string, (optional, never None)) Name, Name of the data-block to use by the operator
- session uid (int in [-inf, inf], (optional)) Session UID, Session UID of the data-block to use by the operator
- matrix (mathutils.Matrix of 4 \* 4 items in [-inf, inf], (optional)) Matrix
- drop\_x (int in [-inf, inf], (optional)) Drop X, X-coordinate (screen space) to place the new object under
- drop\_y (int in [-inf, inf], (optional)) Drop Y, Y-coordinate (screen space) to place the new object under

bpy.ops.object.align(\*, bb\_quality=True, align\_mode='OPT\_2', relative\_to='OPT\_4', align\_axis={})

Align objects

# **PARAMETERS:**

- **bb\_quality** (*boolean*, (*optional*)) High Quality, Enables high quality but slow calculation of the bounding box for perfect results on complex shape meshes with rotation/scale
- align\_mode (enum in ['OPT\_1', 'OPT\_2', 'OPT\_3'], (optional)) Align Mode, Side of object to use for alignment
- relative\_to (enum in ['OPT\_1', 'OPT\_2', 'OPT\_3', 'OPT\_4'], (optional)) –

Relative To, Reference location to align to

- OPT 1 Scene Origin Use the scene origin as the position for the selected objects to align to.
- OPT 2 3D Cursor Use the 3D cursor as the position for the selected objects to align to.
- OPT 3 Selection Use the selected objects as the position for the selected objects to align to.
- OPT 4 Active Use the active object as the position for the selected objects to align to.

• align axis (enum set in {'X', 'Y', 'Z'}, (optional)) – Align, Align to axis

### FILE:

startup/bl operators/object align.py:386

bpy.ops.object.anim transforms to deltas()

Convert object animation for normal transforms to delta transforms

### FILE:

startup/bl operators/object.py:794

bpy.ops.object.armature\_add(\*, radius=1.0, enter\_editmode=False, align='WORLD', location=(0.0, 0.0, 0.0), rotation=(0.0, 0.0, 0.0), scale=(0.0, 0.0, 0.0))

Add an armature object to the scene

### **PARAMETERS:**

- radius (float in [0, inf], (optional)) Radius
- enter\_editmode (boolean, (optional)) Enter Edit Mode, Enter edit mode when adding this object
- align (enum in ['WORLD', 'VIEW', 'CURSOR'], (optional))—

Align, The alignment of the new object

- WORLD World Align the new object to the world.
- VIEW View Align the new object to the view.
- CURSOR 3D Cursor Use the 3D cursor orientation for the new object.
- location (mathutils. Vector of 3 items in [-inf, inf], (optional)) Location, Location for the newly added object
- rotation (mathutils. Euler rotation of 3 items in [-inf, inf], (optional)) Rotation, Rotation for the newly added object
- scale (mathutils. Vector of 3 items in [-inf, inf], (optional)) Scale, Scale for the newly added object

bpy.ops.object.assign property defaults(\*, process data=True, process bones=True)

Assign the current values of custom properties as their defaults, for use as part of the rest pose state in NLA track mixing

### **PARAMETERS:**

- process\_data (boolean, (optional)) Process data properties
- process\_bones (boolean, (optional)) Process bone properties

# FILE:

startup/bl\_operators/object.py:947

bpy.ops.object.bake(\*, type='COMBINED', pass\_filter={}, filepath='', width=512, height=512, margin=16, margin\_type='EXTEND', use\_selected\_to\_active=False, max\_ray\_distance=0.0, cage\_extrusion=0.0, cage\_object='', normal\_space='TANGENT', normal\_r='POS\_X', normal\_g='POS\_Y', normal\_b='POS\_Z', target='IMAGE\_TEXTURES', save\_mode='INTERNAL', use clear=False, use cage=False, use split materials=False, use automatic name=False, uv layer='')

Bake image textures of selected objects

- type (enum in Bake Pass Type Items, (optional)) Type, Type of pass to bake, some of them may not be supported by the current render engine
- pass\_filter (enum set in Bake Pass Filter Type Items, (optional)) Pass Filter, Filter to combined, diffuse, glossy, transmission and subsurfac passes
- filepath (string, (optional, never None)) File Path, Image filepath to use when saving externally
- width (int in [1, inf], (optional)) Width, Horizontal dimension of the baking map (external only)
- **height** (int in [1, inf], (optional)) Height, Vertical dimension of the baking map (external only)
- margin (int in [0, inf], (optional)) Margin, Extends the baked result as a post process filter
- margin\_type (enum in Bake Margin Type Items, (optional)) Margin Type, Which algorithm to use to generate the margin
- use selected to active (boolean, (optional)) Selected to Active, Bake shading on the surface of selected objects to the active object

- max\_ray\_distance (float in [0, inf], (optional)) Max Ray Distance, The maximum ray distance for matching points between the active ar selected objects. If zero, there is no limit
- cage\_extrusion (float in [0, inf], (optional)) Cage Extrusion, Inflate the active object by the specified distance for baking. This helps matching to points nearer to the outside of the selected object meshes
- cage\_object (string, (optional, never None)) Cage Object, Object to use as cage, instead of calculating the cage from the active object with cage extrusion
- normal space (enum in Normal Space Items, (optional)) Normal Space, Choose normal space for baking
- normal\_r (enum in Normal Swizzle Items, (optional)) R, Axis to bake in red channel
- **normal** g (enum in Normal Swizzle Items, (optional)) G, Axis to bake in green channel
- normal b (enum in Normal Swizzle Items, (optional)) B, Axis to bake in blue channel
- target (enum in Bake Target Items, (optional)) Target, Where to output the baked map
- save\_mode (enum in Bake Save Mode Items, (optional)) Save Mode, Where to save baked image textures
- use clear (boolean, (optional)) Clear, Clear images before baking (only for internal saving)
- use cage (boolean, (optional)) Cage, Cast rays to active object from a cage
- use\_split\_materials (boolean, (optional)) Split Materials, Split baked maps per material, using material name in output file (external only)
- use\_automatic\_name (boolean, (optional)) Automatic Name, Automatically name the output file with the pass type
- uv\_layer (string, (optional, never None)) UV Layer, UV layer to override active

# bpy.ops.object.bake\_image()

Bake image textures of selected objects

bpy.ops.object.camera\_add(\*, enter\_editmode=False, align='WORLD', location=(0.0, 0.0, 0.0), rotation=(0.0, 0.0, 0.0), scale=(0.0, 0.0, 0.0), 0.0))

Add a camera object to the scene

### **PARAMETERS:**

- enter editmode (boolean, (optional)) Enter Edit Mode, Enter edit mode when adding this object
- align (enum in ['WORLD', 'VIEW', 'CURSOR'], (optional))—

Align, The alignment of the new object

- WORLD World Align the new object to the world.
- VIEW View Align the new object to the view.
- CURSOR 3D Cursor Use the 3D cursor orientation for the new object.
- location (mathutils. Vector of 3 items in [-inf, inf], (optional)) Location, Location for the newly added object
- rotation (mathutils.Euler rotation of 3 items in [-inf, inf], (optional)) Rotation, Rotation for the newly added object
- scale (mathutils. Vector of 3 items in [-inf, inf], (optional)) Scale, Scale for the newly added object

# bpy.ops.object.clear\_override\_library()

Delete the selected local overrides and relink their usages to the linked data-blocks if possible, else reset them and mark them as non editable

# bpy.ops.object.collection\_add()

Add an object to a new collection

bpy.ops.object.collection\_external\_asset\_drop(\*, session\_uid=0, align='WORLD', location=(0.0, 0.0, 0.0), rotation=(0.0, 0.0, 0.0), scale=(0.0, 0.0, 0.0), use\_instance=True, drop\_x=0, drop\_y=0, collection=')

Add the dragged collection to the scene

# **PARAMETERS:**

- session uid (int in f-inf, inf], (optional)) Session UID, Session UID of the data-block to use by the operator
- align (enum in ['WORLD', 'VIEW', 'CURSOR'], (optional)) –

Align, The alignment of the new object

• WORLD World - Align the new object to the world.

- VIEW View Align the new object to the view.
- CURSOR 3D Cursor Use the 3D cursor orientation for the new object.
- location (mathutils. Vector of 3 items in [-inf, inf], (optional)) Location, Location for the newly added object
- rotation (mathutils. Euler rotation of 3 items in [-inf, inf], (optional)) Rotation, Rotation for the newly added object
- scale (mathutils. Vector of 3 items in [-inf, inf], (optional)) Scale, Scale for the newly added object
- use instance (boolean, (optional)) Instance, Add the dropped collection as collection instance
- drop\_x (int in [-inf, inf], (optional)) Drop X, X-coordinate (screen space) to place the new object under
- drop\_y (int in [-inf, inf], (optional)) Drop Y, Y-coordinate (screen space) to place the new object under
- **collection** (*enum in [], (optional*)) Collection

bpy.ops.object.collection\_instance\_add(\*, name='Collection', collection='', align='WORLD', location=(0.0, 0.0, 0.0), rotation=(0.0, 0.0, 0.0) scale=(0.0, 0.0, 0.0), session uid=0, drop y=0)

Add a collection instance

## **PARAMETERS:**

- name (string, (optional, never None)) Name, Collection name to add
- **collection** (*enum in* [], (*optional*)) Collection
- align (enum in ['WORLD', 'VIEW', 'CURSOR'], (optional)) –

Align, The alignment of the new object

- WORLD World Align the new object to the world.
- VIEW View Align the new object to the view.
- CURSOR 3D Cursor Use the 3D cursor orientation for the new object.
- location (mathutils. Vector of 3 items in [-inf, inf], (optional)) Location, Location for the newly added object
- rotation (mathutils.Euler rotation of 3 items in [-inf, inf], (optional)) Rotation, Rotation for the newly added object
- scale (mathutils. Vector of 3 items in [-inf, inf], (optional)) Scale, Scale for the newly added object
- session\_uid (int in [-inf, inf], (optional)) Session UID, Session UID of the data-block to use by the operator
- drop\_x (int in [-inf, inf], (optional)) Drop X, X-coordinate (screen space) to place the new object under
- drop y (int in [-inf, inf], (optional)) Drop Y, Y-coordinate (screen space) to place the new object under

bpy.ops.object.collection\_link(\*, collection=")

Add an object to an existing collection

# **PARAMETERS:**

**collection** (enum in [], (optional)) – Collection

bpy.ops.object.collection objects select()

Select all objects in collection

bpy.ops.object.collection\_remove()

Remove the active object from this collection

bpy.ops.object.collection unlink()

Unlink the collection from all objects

bpy.ops.object.constraint add(\*, type=")

Add a constraint to the active object

### **PARAMETERS:**

type (enum in [], (optional)) – Type

bpy.ops.object.constraint\_add\_with\_targets(\*, type=")

Add a constraint to the active object, with target (where applicable) set to the selected objects/bones

### **PARAMETERS:**

**type** (*enum in* [], (*optional*)) – Type

bpy.ops.object.constraints clear()

Clear all constraints from the selected objects

bpy.ops.object.constraints\_copy()

Copy constraints to other selected objects

bpy.ops.object.convert(\*, target='MESH', keep\_original=False, merge\_customdata=True, thickness=5, faces=True, offset=0.01)

Convert selected objects to another type

### **PARAMETERS:**

- target (emum in ['CURVE', 'MESH', 'CURVES', 'GREASEPENCIL'], (optional)) Target, Type of object to convert to
  - CURVE Curve Curve from Mesh or Text objects.
  - MESH Mesh Mesh from Curve, Surface, Metaball, or Text objects.
  - CURVES Curves Curves from evaluated curve data.
  - GREASEPENCIL Grease Pencil Grease Pencil from Curve or Mesh objects.
- keep original (boolean, (optional)) Keep Original, Keep original objects instead of replacing them
- merge\_customdata (boolean, (optional)) Merge UVs, Merge UV coordinates that share a vertex to account for imprecision in some modifiers
- thickness (int in [1, 100], (optional)) Thickness
- faces (boolean, (optional)) Export Faces, Export faces as filled strokes
- offset (float in [0, inf], (optional)) Stroke Offset, Offset strokes from fill

bpy.ops.object.correctivesmooth bind(\*, modifier="')

Bind base pose in Corrective Smooth modifier

### **PARAMETERS:**

modifier (string, (optional, never None)) - Modifier, Name of the modifier to edit

bpy.ops.object.curves\_empty\_hair\_add(\*, align='WORLD', location=(0.0, 0.0, 0.0), rotation=(0.0, 0.0, 0.0), scale=(0.0, 0.0, 0.0))

Add an empty curve object to the scene with the selected mesh as surface

# **PARAMETERS:**

align (enum in ['WORLD', 'VIEW', 'CURSOR'], (optional)) –
 Align, The alignment of the new object

- $\circ \ \ \mbox{WORLD} \ \mbox{World} \mbox{Align}$  the new object to the world.
- VIEW View Align the new object to the view.
- CURSOR 3D Cursor Use the 3D cursor orientation for the new object.
- location (mathutils.Vector of 3 items in [-inf, inf], (optional)) Location, Location for the newly added object
- $\bullet \quad \textbf{rotation} \ (\texttt{mathutils.Euler} \ \ \textbf{rotation} \ \ \textbf{of 3} \ \ \textbf{items} \ \ \textbf{in} \ [-\textbf{inf, inf]}, \ (\textbf{optional})) \ \textbf{Rotation}, \ \textbf{Rotation} \ \ \textbf{for the newly added object}$
- scale (mathutils. Vector of 3 items in [-inf, inf], (optional)) Scale, Scale for the newly added object

bpy.ops.object.curves random add(\*, align='WORLD', location=(0.0, 0.0, 0.0), rotation=(0.0, 0.0, 0.0), scale=(0.0, 0.0, 0.0))

Add a curves object with random curves to the scene

### **PARAMETERS:**

• align (enum in ['WORLD', 'VIEW', 'CURSOR'], (optional))—

Align, The alignment of the new object

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- WOKLD WORLD Align the new object to the world.
- VIEW View Align the new object to the view.
- CURSOR 3D Cursor Use the 3D cursor orientation for the new object.
- location (mathutils. Vector of 3 items in [-inf, inf], (optional)) Location, Location for the newly added object
- rotation (mathutils. Euler rotation of 3 items in [-inf, inf], (optional)) Rotation, Rotation for the newly added object
- scale (mathutils. Vector of 3 items in [-inf, inf], (optional)) Scale, Scale for the newly added object

bpy.ops.object.data\_instance\_add(\*, name=", session\_uid=0, type='ACTION', align='WORLD', location=(0.0, 0.0, 0.0), rotation=(0.0, 0.0, 0.0), scale=(0.0, 0.0, 0.0), drop\_x=0, drop\_y=0)

Add an object data instance

### **PARAMETERS:**

- name (string, (optional, never None)) Name, Name of the data-block to use by the operator
- session uid (int in [-inf, inf], (optional)) Session UID, Session UID of the data-block to use by the operator
- type (enum in Id Type Items, (optional)) Type
- align (enum in ['WORLD', 'VIEW', 'CURSOR'], (optional)) –
   Align, The alignment of the new object
  - WORLD World Align the new object to the world.
  - VIEW View Align the new object to the view.
  - CURSOR 3D Cursor Use the 3D cursor orientation for the new object.
- location (mathutils. Vector of 3 items in [-inf, inf], (optional)) Location, Location for the newly added object
- rotation (mathutils. Euler rotation of 3 items in [-inf, inf], (optional)) Rotation, Rotation for the newly added object
- scale (mathutils. Vector of 3 items in [-inf, inf], (optional)) Scale, Scale for the newly added object
- drop\_x (int in [-inf, inf], (optional)) Drop X, X-coordinate (screen space) to place the new object under
- drop\_y (int in [-inf, inf], (optional)) Drop Y, Y-coordinate (screen space) to place the new object under

bpy.ops.object.data\_transfer(\*, use\_reverse\_transfer=False, use\_freeze=False, data\_type=", use\_create=True, vert\_mapping='NEAREST', edge\_mapping='NEAREST', loop\_mapping='NEAREST\_POLYNOR', poly\_mapping='NEAREST', use\_auto\_transform=False, use\_object\_transform=True, use\_max\_distance=False, max\_distance=1.0, ray\_radius=0.0, islands\_precision=0.1, layers\_select\_src='ACTIVE', layers\_select\_dst='ACTIVE', mix\_mode='REPLACE', mix\_factor=1.0)

Transfer data layer(s) (weights, edge sharp, etc.) from active to selected meshes

# **PARAMETERS:**

- use\_reverse\_transfer (boolean, (optional)) Reverse Transfer, Transfer from selected objects to active one
- use\_freeze (boolean, (optional)) Freeze Operator, Prevent changes to settings to re-run the operator, handy to change several things at once with heavy geometry
- data\_type (enum in ['VGROUP\_WEIGHTS', 'BEVEL\_WEIGHT\_VERT', 'COLOR\_VERTEX', 'SHARP\_EDGE', 'SEAM', 'CREASE', 'BEVEL\_WEIGHT\_EDGE', 'FREESTYLE\_EDGE', 'CUSTOM\_NORMAL', 'COLOR\_CORNER', 'UV', 'SMOOTH', 'FREESTYLE\_FACE'], (optional)) –

Data Type, Which data to transfer

- VGROUP WEIGHTS Vertex Group(s) Transfer active or all vertex groups.
- BEVEL\_WEIGHT\_VERT Bevel Weight Transfer bevel weights.
- COLOR VERTEX Colors Color Attributes.
- SHARP EDGE Sharp Transfer sharp mark.
- SEAM UV Seam Transfer UV seam mark.
- CREASE Subdivision Crease Transfer crease values.
- $\verb| OBEVEL_WEIGHT_EDGE| Bevel Weight-Transfer bevel weights. \\$
- FREESTYLE EDGE Freestyle Mark Transfer Freestyle edge mark.
- CUSTOM NORMAL Custom Normals Transfer custom normals.
- COLOR CORNER Colors Color Attributes.
- 0 III I We \_ Transfer I W lawere

- UV UVS- Hansier UV rayers.
- SMOOTH Smooth Transfer flat/smooth mark.
- FREESTYLE FACE Freestyle Mark Transfer Freestyle face mark.
- use\_create (boolean, (optional)) Create Data, Add data layers on destination meshes if needed
- vert mapping (enum in Dt Method Vertex Items, (optional)) Vertex Mapping, Method used to map source vertices to destination ones
- edge\_mapping (enum in Dt Method Edge Items, (optional)) Edge Mapping, Method used to map source edges to destination ones
- loop\_mapping (enum in Dt Method Loop Items, (optional)) Face Corner Mapping, Method used to map source faces' corners to destination ones
- poly\_mapping (enum in Dt Method Poly Items, (optional)) Face Mapping, Method used to map source faces to destination ones
- use\_auto\_transform (boolean, (optional)) Auto Transform, Automatically compute transformation to get the best possible match between source and destination meshes. Warning: Results will never be as good as manual matching of objects
- use\_object\_transform (boolean, (optional)) Object Transform, Evaluate source and destination meshes in global space
- use\_max\_distance (boolean, (optional)) Only Neighbor Geometry, Source elements must be closer than given distance from destination one
- max\_distance (float in [0, inf], (optional)) Max Distance, Maximum allowed distance between source and destination element, for non-topology mappings
- ray\_radius (float in [0, inf], (optional)) Ray Radius, 'Width' of rays (especially useful when raycasting against vertices or edges)
- islands\_precision (float in [0, 10], (optional)) Islands Precision, Factor controlling precision of islands handling (the higher, the better the results)
- layers\_select\_src (enum in Dt Layers Select Src Items, (optional)) Source Layers Selection, Which layers to transfer, in case of multi-laye types
- layers\_select\_dst (enum in Dt Layers Select Dst Items, (optional)) Destination Layers Matching, How to match source and destination layers
- mix\_mode (enum in Dt Mix Mode Items, (optional)) Mix Mode, How to affect destination elements with source values
- mix\_factor (float in [0, 1], (optional)) Mix Factor, Factor to use when applying data to destination (exact behavior depends on mix mode)

bpy.ops.object.datalayout\_transfer(\*, modifier=", data\_type=", use\_delete=False, layers\_select\_src='ACTIVE', layers\_select\_dst='ACTIVE')

Transfer layout of data layer(s) from active to selected meshes

# **PARAMETERS:**

- modifier (string, (optional, never None)) Modifier, Name of the modifier to edit
- data\_type (enum in ['VGROUP\_WEIGHTS', 'BEVEL\_WEIGHT\_VERT', 'COLOR\_VERTEX', 'SHARP\_EDGE', 'SEAM', 'CREASE', 'BEVEL\_WEIGHT\_EDGE', 'FREESTYLE\_EDGE', 'CUSTOM\_NORMAL', 'COLOR\_CORNER', 'UV', 'SMOOTH', 'FREESTYLE\_FACE'], (optional)) —

Data Type, Which data to transfer

- VGROUP WEIGHTS Vertex Group(s) Transfer active or all vertex groups.
- BEVEL WEIGHT VERT Bevel Weight Transfer bevel weights.
- COLOR VERTEX Colors Color Attributes.
- SHARP EDGE Sharp Transfer sharp mark.
- SEAM UV Seam-Transfer UV seam mark.
- CREASE Subdivision Crease Transfer crease values.
- BEVEL WEIGHT EDGE Bevel Weight Transfer bevel weights.
- FREESTYLE\_EDGE Freestyle Mark Transfer Freestyle edge mark.
- CUSTOM\_NORMAL Custom Normals Transfer custom normals.
- $\circ$  COLOR\_CORNER Colors Color Attributes.
- UV UVs Transfer UV layers.
- SMOOTH Smooth Transfer flat/smooth mark.
- $\begin{tabular}{ll} \bullet & FREESTYLE\_FACE & Freestyle & Mark-Transfer & Freestyle & face & mark. \end{tabular}$
- use\_delete (boolean, (optional)) Exact Match, Also delete some data layers from destination if necessary, so that it matches exactly source
- Involve called and Community Dt Larger Calcat Con House Continue No. Common Larger Calcation Wilsiah larger to troughts in 2000 of small larger

- layers\_select\_src (enum in Di Layers Select Src Herrs, (opuonal)) Source Layers Selection, which layers to transfer, in case of multi-layer types
- layers\_select\_dst (enum in Dt Layers Select Dst Items, (optional)) Destination Layers Matching, How to match source and destination layers

bpy.ops.object.delete(\*, use global=False, confirm=True)

Delete selected objects

### **PARAMETERS:**

- use global (boolean, (optional)) Delete Globally, Remove object from all scenes
- confirm (boolean, (optional)) Confirm, Prompt for confirmation

bpy.ops.object.drop\_geometry\_nodes(\*, session\_uid=0, show\_datablock\_in\_modifier=True)

Undocumented, consider contributing.

### **PARAMETERS:**

- session uid (int in [-inf, inf], (optional)) Session UID, Session UID of the geometry node group being dropped
- show datablock in modifier (boolean, (optional)) Show the datablock selector in the modifier

bpy.ops.object.drop named material(\*, name=", session uid=0)

Undocumented, consider contributing.

#### **PARAMETERS:**

- name (string, (optional, never None)) Name, Name of the data-block to use by the operator
- session\_uid (int in [-inf, inf], (optional)) Session UID, Session UID of the data-block to use by the operator

bpy.ops.object.duplicate(\*, linked=False, mode='TRANSLATION')

Duplicate selected objects

### **PARAMETERS:**

- linked (boolean, (optional)) Linked, Duplicate object but not object data, linking to the original data
- mode (enum in Transform Mode Type Items, (optional)) Mode

bpy.ops.object.duplicate\_move(\*, OBJECT\_OT\_duplicate=None, TRANSFORM\_OT\_translate=None)

Duplicate the selected objects and move them

### **PARAMETERS:**

- OBJECT OT duplicate (OBJECT OT duplicate, (optional)) Duplicate Objects, Duplicate selected objects
- TRANSFORM OT translate (TRANSFORM OT translate, (optional)) Move, Move selected items

bpy.ops.object.duplicate\_move\_linked(\*, OBJECT\_OT\_duplicate=None, TRANSFORM\_OT\_translate=None)

Duplicate the selected objects, but not their object data, and move them

# **PARAMETERS:**

- OBJECT OT duplicate (OBJECT OT duplicate, (optional)) Duplicate Objects, Duplicate selected objects
- TRANSFORM OT translate (TRANSFORM OT translate, (optional)) Move, Move selected items

bpy.ops.object.duplicates\_make\_real(\*, use\_base\_parent=False, use\_hierarchy=False)

Make instanced objects attached to this object real

# **PARAMETERS:**

- use base parent (boolean, (optional)) Parent, Parent newly created objects to the original instancer
- use hierarchy (boolean, (optional)) Keep Hierarchy, Maintain parent child relationships

bpy.ops.object.editmode\_toggle()

Toggle object's edit mode

bpy.ops.object.effector\_add(\*, type='FORCE', radius=1.0, enter\_editmode=False, align='WORLD', location=(0.0, 0.0, 0.0), rotation=(0.0, 0.0, 0.0), scale=(0.0, 0.0, 0.0))

Add an empty object with a physics effector to the scene

### **PARAMETERS:**

- type (enum in ['FORCE', 'WIND', 'VORTEX', 'MAGNET', 'HARMONIC', 'CHARGE', 'LENNARDJ', 'TEXTURE', 'GUIDE', 'BOID', 'TURBULENCE', 'DRAG', 'FLUID'], (optional)) Type
- radius (float in [0, inf], (optional)) Radius
- enter editmode (boolean, (optional)) Enter Edit Mode, Enter edit mode when adding this object
- align (enum in ['WORLD', 'VIEW', 'CURSOR'], (optional))—

Align, The alignment of the new object

- WORLD World Align the new object to the world.
- VIEW View Align the new object to the view.
- CURSOR 3D Cursor Use the 3D cursor orientation for the new object.
- location (mathutils. Vector of 3 items in [-inf, inf], (optional)) Location, Location for the newly added object
- rotation (mathutils. Euler rotation of 3 items in [-inf, inf], (optional)) Rotation, Rotation for the newly added object
- scale (mathutils. Vector of 3 items in [-inf, inf], (optional)) Scale, Scale for the newly added object

bpy.ops.object.empty\_add(\*, type='PLAIN\_AXES', radius=1.0, align='WORLD', location=(0.0, 0.0, 0.0), rotation=(0.0, 0.0, 0.0), scale=(0.0, 0.0, 0.0))

Add an empty object to the scene

### **PARAMETERS:**

- type (enum in Object Empty Drawtype Items, (optional)) Type
- radius (float in [0, inf], (optional)) Radius
- align (enum in ['WORLD', 'VIEW', 'CURSOR'], (optional))—

Align, The alignment of the new object

- WORLD World Align the new object to the world.
- VIEW View Align the new object to the view.
- CURSOR 3D Cursor Use the 3D cursor orientation for the new object.
- location (mathutils. Vector of 3 items in [-inf, inf], (optional)) Location, Location for the newly added object
- rotation (mathutils. Euler rotation of 3 items in [-inf, inf], (optional)) Rotation, Rotation for the newly added object
- scale (mathutils. Vector of 3 items in [-inf, inf], (optional)) Scale, Scale for the newly added object

bpy.ops.object.empty\_image\_add(\*, filepath=", hide\_props\_region=True, check\_existing=False, filter\_blender=False, filter\_backup=False filter\_image=True, filter\_movie=True, filter\_python=False, filter\_font=False, filter\_sound=False, filter\_text=False, filter\_archive=False, filter\_btx=False, filter\_collada=False, filter\_alembic=False, filter\_usd=False, filter\_obj=False, filter\_obj=False, filter\_volume=False, filter\_folder=True, filter\_blenlib=False, filemode=9, relative\_path=True, show\_multiview=False, use\_multiview=False, display\_type='DEFAULT', sort\_method=", name=", session\_uid=0, align='WORLD', location=(0.0, 0.0, 0.0), rotation=(0.0, 0.0, 0.0), scale=(0.0, 0.0, 0.0), background=False)

Add an empty image type to scene with data

- filepath (string, (optional, never None)) File Path, Path to file
- hide\_props\_region (boolean, (optional)) Hide Operator Properties, Collapse the region displaying the operator settings
- check\_existing (boolean, (optional)) Check Existing, Check and warn on overwriting existing files
- **filter blender** (boolean, (optional)) Filter .blend files
- $\bullet \quad \textbf{filter\_backup} \ (boolean, \ (optional)) Filter \ .blend \ files$
- **filter image** (boolean, (optional)) Filter image files
- filter movie (boolean, (optional)) Filter movie files

- filter python (boolean, (optional)) Filter Python files
- **filter font** (boolean, (optional)) Filter font files
- **filter sound** (boolean, (optional)) Filter sound files
- **filter text** (boolean, (optional)) Filter text files
- filter archive (boolean, (optional)) Filter archive files
- filter btx (boolean, (optional)) Filter btx files
- filter collada (boolean, (optional)) Filter COLLADA files
- filter alembic (boolean, (optional)) Filter Alembic files
- filter\_usd (boolean, (optional)) Filter USD files
- filter\_obj (boolean, (optional)) Filter OBJ files
- filter volume (boolean, (optional)) Filter OpenVDB volume files
- **filter\_folder** (boolean, (optional)) Filter folders
- **filter blenlib** (boolean, (optional)) Filter Blender IDs
- file mode (int in [1, 9], (optional)) File Browser Mode, The setting for the file browser mode to load a .blend file, a library or a special file
- relative path (boolean, (optional)) Relative Path, Select the file relative to the blend file
- **show\_multiview** (boolean, (optional)) Enable Multi-View
- use\_multiview(boolean, (optional)) Use Multi-View
- display\_type (emm in ['DEFAULT', 'LIST\_VERTICAL', 'LIST\_HORIZONTAL', 'THUMBNAIL'], (optional)) Display Type
  - DEFAULT Default Automatically determine display type for files.
  - LIST VERTICAL Short List Display files as short list.
  - $\circ$  LIST\_HORIZONTAL Long List Display files as a detailed list.
  - THUMBNAIL Thumbnails Display files as thumbnails.
- sort\_method (enum in ['DEFAULT', 'FILE\_SORT\_ALPHA', 'FILE\_SORT\_EXTENSION', 'FILE\_SORT\_TIME', 'FILE\_SORT\_SIZE', 'ASSET\_CATALOG'], (optional)) –

# File sorting mode

- DEFAULT Default Automatically determine sort method for files.
- FILE SORT ALPHA Name Sort the file list alphabetically.
- FILE SORT EXTENSION Extension Sort the file list by extension/type.
- FILE SORT TIME Modified Date Sort files by modification time.
- FILE SORT SIZE Size Sort files by size.
- ASSET\_CATALOG Asset Catalog Sort the asset list so that assets in the same catalog are kept together. Within a single catalog, asset are ordered by name. The catalogs are in order of the flattened catalog hierarchy.
- name (string, (optional, never None)) Name, Name of the data-block to use by the operator
- session uid (int in [-inf, inf], (optional)) Session UID, Session UID of the data-block to use by the operator
- align (enum in ['WORLD', 'VIEW', 'CURSOR'], (optional)) –

Align, The alignment of the new object

- $\circ \ \ \mbox{WORLD} \ \mbox{World} \mbox{Align the new object to the world.}$
- VIEW View Align the new object to the view.
- CURSOR 3D Cursor Use the 3D cursor orientation for the new object.
- location (mathutils. Vector of 3 items in [-inf, inf], (optional)) Location, Location for the newly added object
- rotation (mathutils.Euler rotation of 3 items in [-inf, inf], (optional)) Rotation, Rotation for the newly added object
- scale (mathutils. Vector of 3 items in [-inf, inf], (optional)) Scale, Scale for the newly added object
- background (boolean, (optional)) Put in Background, Make the image render behind all objects

# bpy.ops.object.explode refresh(\*, modifier=")

### **PARAMETERS:**

modifier (string, (optional, never None)) – Modifier, Name of the modifier to edit

bpy.ops.object.forcefield toggle()

Toggle object's force field

bpy.ops.object.geometry\_node\_bake\_delete\_single(\*, session\_uid=0, modifier\_name=", bake\_id=0)

Delete baked data of a single bake node or simulation

### **PARAMETERS:**

- session uid (int in [-inf, inf], (optional)) Session UID, Session UID of the data-block to use by the operator
- modifier name (string, (optional, never None)) Modifier Name, Name of the modifier that contains the node
- bake\_id (int in [0, inf], (optional)) Bake ID, Nested node id of the node

bpy.ops.object.geometry node bake pack single(\*, session uid=0, modifier name=", bake id=0)

Pack baked data from disk into the .blend file

### **PARAMETERS:**

- session\_uid (int in [-inf, inf], (optional)) Session UID, Session UID of the data-block to use by the operator
- modifier\_name (string, (optional, never None)) Modifier Name, Name of the modifier that contains the node
- bake\_id (int in [0, inf], (optional)) Bake ID, Nested node id of the node

bpy.ops.object.geometry\_node\_bake\_single(\*, session\_uid=0, modifier\_name=", bake\_id=0)

Bake a single bake node or simulation

### **PARAMETERS:**

- session uid (int in [-inf, inf], (optional)) Session UID, Session UID of the data-block to use by the operator
- modifier name (string, (optional, never None)) Modifier Name, Name of the modifier that contains the node
- bake id (int in [0, inf], (optional)) Bake ID, Nested node id of the node

bpy.ops.object.geometry\_node\_bake\_unpack\_single(\*, session\_uid=0, modifier\_name="', bake\_id=0, method='USE\_LOCAL')

Unpack baked data from the .blend file to disk

# **PARAMETERS:**

- session uid (int in f-inf, inf], (optional)) Session UID, Session UID of the data-block to use by the operator
- modifier name (string, (optional, never None)) Modifier Name, Name of the modifier that contains the node
- bake id (int in [0, inf], (optional)) Bake ID, Nested node id of the node
- method (emum in ['USE\_LOCAL', 'WRITE\_LOCAL', 'USE\_ORIGINAL', 'WRITE\_ORIGINAL'], (optional)) Method, How to unpack

bpy.ops.object.geometry\_node\_tree\_copy\_assign()

Copy the active geometry node group and assign it to the active modifier

bpy.ops.object.geometry\_nodes\_input\_attribute\_toggle(\*, input\_name=", modifier\_name=")

Switch between an attribute and a single value to define the data for every element

# **PARAMETERS:**

- input name (string, (optional, never None)) Input Name
- modifier name (string, (optional, never None)) Modifier Name

bpy.ops.object.geometry\_nodes\_move\_to\_nodes(\*, use\_selected\_objects=False)

Move inputs and outputs from in the modifier to a new node group

# **PARAMETERS:**

use selected objects (boolean, (optional)) – Selected Objects, Affect all selected objects instead of just the active object

startup/bl\_operators/geometry\_nodes.py:260

bpy.ops.object.grease\_pencil\_add(\*, type='EMPTY', use\_in\_front=True, stroke\_depth\_offset=0.05, use\_lights=False, stroke\_depth\_order='3D', radius=1.0, align='WORLD', location=(0.0, 0.0, 0.0), rotation=(0.0, 0.0, 0.0), scale=(0.0, 0.0, 0.0))

Add a Grease Pencil object to the scene

#### PARAMETERS:

- type (enum in Object Gpencil Type Items, (optional)) Type
- use in front (boolean, (optional)) Show In Front, Show Line Art Grease Pencil in front of everything
- stroke\_depth\_offset (float in [0, inf], (optional)) Stroke Offset, Stroke offset for the Line Art modifier
- use\_lights (boolean, (optional)) Use Lights, Use lights for this Grease Pencil object
- stroke depth order (enum in ['2D', '3D'], (optional)) –

Stroke Depth Order, Defines how the strokes are ordered in 3D space (for objects not displayed 'In Front')

- 2D 2D Layers Display strokes using Grease Pencil layers to define order.
- $\circ \quad \mbox{3D D Location} \mbox{Display strokes using real 3D position in 3D space.}$
- radius (float in [0, inf], (optional)) Radius
- align (enum in ['WORLD', 'VIEW', 'CURSOR'], (optional)) –

Align, The alignment of the new object

- WORLD World Align the new object to the world.
- VIEW View Align the new object to the view.
- CURSOR 3D Cursor Use the 3D cursor orientation for the new object.
- location (mathutils. Vector of 3 items in [-inf, inf], (optional)) Location, Location for the newly added object
- rotation (mathutils. Euler rotation of 3 items in [-inf, inf], (optional)) Rotation, Rotation for the newly added object
- scale (mathutils. Vector of 3 items in [-inf, inf], (optional)) Scale, Scale for the newly added object

bpy.ops.object.grease\_pencil\_dash\_modifier\_segment\_add(\*, modifier=")

Add a segment to the dash modifier

# **PARAMETERS:**

modifier (string, (optional, never None)) - Modifier, Name of the modifier to edit

bpy.ops.object.grease pencil dash modifier segment move(\*, modifier=", type='UP')

Move the active dash segment up or down

### **PARAMETERS:**

- modifier (string, (optional, never None)) Modifier, Name of the modifier to edit
- type (enum in ['UP', 'DOWN'], (optional)) Type

bpy.ops.object.grease pencil dash modifier segment remove(\*, modifier=", index=0)

Remove the active segment from the dash modifier

### **PARAMETERS:**

- modifier (string, (optional, never None)) Modifier, Name of the modifier to edit
- index (int in [0, inf], (optional)) Index, Index of the segment to remove

bpy.ops.object.grease pencil time modifier segment add(\*, modifier=")

Add a segment to the time modifier

### **PARAMETERS:**

modifier (string, (optional, never None)) - Modifier, Name of the modifier to edit

bpy.ops.object.grease\_pencil\_time\_modifier\_segment\_move(\*, modifier=", type='UP')

Move the active time segment up or down

### **PARAMETERS:**

- modifier (string, (optional, never None)) Modifier, Name of the modifier to edit
- **type** (*enum in ['UP', 'DOWN'], (optional)*) Type

bpy.ops.object.grease pencil time modifier segment remove(\*, modifier="', index=0)

Remove the active segment from the time modifier

### **PARAMETERS:**

- modifier (string, (optional, never None)) Modifier, Name of the modifier to edit
- index (int in [0, inf], (optional)) Index, Index of the segment to remove

bpy.ops.object.hide\_collection(\*, collection\_index=-1, toggle=False, extend=False)

Show only objects in collection (Shift to extend)

### **PARAMETERS:**

- collection index (int in [-1, inf], (optional)) Collection Index, Index of the collection to change visibility
- toggle (boolean, (optional)) Toggle, Toggle visibility
- extend (boolean, (optional)) Extend, Extend visibility

bpy.ops.object.hide render clear all()

Reveal all render objects by setting the hide render flag

### FILE:

startup/bl\_operators/object.py:701

bpy.ops.object.hide\_view\_clear(\*, select=True)

Reveal temporarily hidden objects

# **PARAMETERS:**

select (boolean, (optional)) - Select, Select revealed objects

bpy.ops.object.hide view set(\*, unselected=False)

Temporarily hide objects from the viewport

### **PARAMETERS:**

unselected (boolean, (optional)) - Unselected, Hide unselected rather than selected objects

bpy.ops.object.hook\_add\_newob()

Hook selected vertices to a newly created object

bpy.ops.object.hook add selob(\*, use bone=False)

Hook selected vertices to the first selected object

# **PARAMETERS:**

use\_bone (boolean, (optional)) - Active Bone, Assign the hook to the hook object's active bone

bpy.ops.object.hook assign(\*, modifier=")

Assign the selected vertices to a hook

# **PARAMETERS:**

modifier (enum in [7, (optional)) – Modifier, Modifier number to assign to

bpy.ops.object.hook recenter(\*, modifier=")

Set hook center to cursor position

```
PARAMETERS:
         modifier (enum in [], (optional)) - Modifier, Modifier number to assign to
bpy.ops.object.hook remove(*, modifier=")
    Remove a hook from the active object
    PARAMETERS:
         modifier (enum in [], (optional)) – Modifier, Modifier number to remove
bpy.ops.object.hook reset(*, modifier=")
    Recalculate and clear offset transformation
    PARAMETERS:
         modifier (enum in [], (optional)) – Modifier, Modifier number to assign to
bpy.ops.object.hook_select(*, modifier=")
    Select affected vertices on mesh
    PARAMETERS:
         modifier (enum in [], (optional)) – Modifier, Modifier number to remove
bpy.ops.object.instance offset from cursor()
    Set offset used for collection instances based on cursor position
    FILE:
         startup/bl_operators/object.py:882
bpy.ops.object.instance_offset_from_object()
    Set offset used for collection instances based on the active object position
    FILE:
         startup/bl_operators/object.py:914
bpy.ops.object.instance_offset_to_cursor()
    Set cursor position to the offset used for collection instances
    FILE:
         startup/bl operators/object.py:897
bpy.ops.object.isolate_type_render()
    Hide unselected render objects of same type as active by setting the hide render flag
    FILE:
         startup/bl operators/object.py:681
bpy.ops.object.join()
    Join selected objects into active object
bpy.ops.object.join_shapes()
    Copy the current resulting shape of another selected object to this one
bpy.ops.object.join_uvs()
    Transfer UV Maps from active to selected objects (needs matching geometry)
    FILE:
         startup/bl_operators/object.py:582
bpy.ops.object.laplaciandeform bind(*, modifier="')
```

Bind mesh to system in laplacian deform modifier

#### **PARAMETERS:**

modifier (string, (optional, never None)) - Modifier, Name of the modifier to edit

bpy.ops.object.light\_add(\*, type='POINT', radius=1.0, align='WORLD', location=(0.0, 0.0, 0.0), rotation=(0.0, 0.0, 0.0), scale=(0.0, 0.0, 0.0)

Add a light object to the scene

### **PARAMETERS:**

- type (enum in Light Type Items, (optional)) Type
- radius (float in [0, inf], (optional)) Radius
- align (emim in ['WORLD', 'VIEW', 'CURSOR'], (optional))—

Align, The alignment of the new object

- WORLD World Align the new object to the world.
- VIEW View Align the new object to the view.
- CURSOR 3D Cursor Use the 3D cursor orientation for the new object.
- location (mathutils. Vector of 3 items in [-inf, inf], (optional)) Location, Location for the newly added object
- rotation (mathutils. Euler rotation of 3 items in [-inf, inf], (optional)) Rotation, Rotation for the newly added object
- scale (mathutils. Vector of 3 items in [-inf, inf], (optional)) Scale, Scale for the newly added object

# bpy.ops.object.light\_linking\_blocker\_collection\_new()

Create new light linking collection used by the active emitter

# bpy.ops.object.light linking blockers link(\*, link state='INCLUDE')

Light link selected blockers to the active emitter object

### **PARAMETERS:**

link\_state (enum in ['INCLUDE', 'EXCLUDE'], (optional)) -

Link State, State of the shadow linking

- INCLUDE Include Include selected blockers to cast shadows from the active emitter.
- EXCLUDE Exclude Exclude selected blockers from casting shadows from the active emitter.

# bpy.ops.object.light\_linking\_blockers\_select()

Select all objects which block light from this emitter

# bpy.ops.object.light linking receiver collection new()

Create new light linking collection used by the active emitter

### bpy.ops.object.light linking receivers link(\*, link state='INCLUDE')

Light link selected receivers to the active emitter object

# **PARAMETERS:**

link state (enum in ['INCLUDE', 'EXCLUDE'], (optional)) -

Link State, State of the light linking

- INCLUDE Include Include selected receivers to receive light from the active emitter.
- EXCLUDE Exclude Exclude selected receivers from receiving light from the active emitter.

# bpy.ops.object.light\_linking\_receivers\_select()

Select all objects which receive light from this emitter

bpy.ops.object.light\_linking\_unlink\_from\_collection()

bpy.ops.object.lightprobe\_add(\*, type='SPHERE', radius=1.0, enter\_editmode=False, align='WORLD', location=(0.0, 0.0, 0.0), rotation=(0.0, 0.0, 0.0), scale=(0.0, 0.0, 0.0))

Add a light probe object

### **PARAMETERS:**

- type (enum in ['SPHERE', 'PLANE', 'VOLUME'], (optional))
  - SPHERE Sphere Light probe that captures precise lighting from all directions at a single point in space.
  - PLANE Plane Light probe that captures incoming light from a single direction on a plane.
  - VOLUME Volume Light probe that captures low frequency lighting inside a volume.
- radius (float in [0, inf], (optional)) Radius
- enter\_editmode (boolean, (optional)) Enter Edit Mode, Enter edit mode when adding this object
- align (enum in ['WORLD', 'VIEW', 'CURSOR'], (optional)) –

Align, The alignment of the new object

- WORLD World Align the new object to the world.
- VIEW View Align the new object to the view.
- CURSOR 3D Cursor Use the 3D cursor orientation for the new object.
- location (mathutils. Vector of 3 items in [-inf, inf], (optional)) Location, Location for the newly added object
- rotation (mathutils. Euler rotation of 3 items in [-inf, inf], (optional)) Rotation, Rotation for the newly added object
- scale (mathutils. Vector of 3 items in [-inf, inf], (optional)) Scale, Scale for the newly added object

# bpy.ops.object.lightprobe\_cache\_bake(\*, subset='ALL')

Bake irradiance volume light cache

# **PARAMETERS:**

subset (enum in ['ALL', 'SELECTED', 'ACTIVE'], (optional)) -

Subset, Subset of probes to update

- ALL All Volumes Bake all light probe volumes.
- SELECTED Selected Only Only bake selected light probe volumes.
- ACTIVE Active Only Only bake the active light probe volume.

# bpy.ops.object.lightprobe\_cache\_free(\*, subset='SELECTED')

Delete cached indirect lighting

### **PARAMETERS:**

subset (enum in ['ALL', 'SELECTED', 'ACTIVE'], (optional)) –

Subset, Subset of probes to update

- ALL All Light Probes Delete all light probes' baked lighting data.
- SELECTED Selected Only Only delete selected light probes' baked lighting data.
- ACTIVE Active Only Only delete the active light probe's baked lighting data.

# bpy.ops.object.lineart\_bake\_strokes(\*, bake\_all=False)

Bake Line Art for current Grease Pencil object

### **PARAMETERS:**

bake all (boolean, (optional)) - Bake All, Bake all Line Art modifiers

# bpy.ops.object.lineart\_clear(\*, clear\_all=False)

Clear all strokes in current Greace Pencil chiect

### **PARAMETERS:**

clear all (boolean, (optional)) - Clear All, Clear all Line Art modifier bakes

bpy.ops.object.link to collection(\*, collection index=-1, is new=False, new collection name=")

Link objects to a collection

### **PARAMETERS:**

- collection\_index (int in [-1, inf], (optional)) Collection Index, Index of the collection to move to
- is new (boolean, (optional)) New, Move objects to a new collection
- new collection name (string, (optional, never None)) Name, Name of the newly added collection

bpy.ops.object.location clear(\*, clear delta=False)

Clear the object's location

### **PARAMETERS:**

clear delta (boolean, (optional)) - Clear Delta, Clear delta location in addition to clearing the normal location transform

bpy.ops.object.make\_dupli\_face()

Convert objects into instanced faces

### FILE:

startup/bl\_operators/object.py:664

bpy.ops.object.make links data(\*, type='OBDATA')

Transfer data from active object to selected objects

### **PARAMETERS:**

type (enum in ['OBDATA', 'MATERIAL', 'ANIMATION', 'GROUPS', 'DUPLICOLLECTION', 'FONTS', 'MODIFIERS', 'EFFECTS'], (optional))—

Type

- OBDATA Link Object Data Replace assigned Object Data.
- MATERIAL Link Materials Replace assigned Materials.
- ANIMATION Link Animation Data Replace assigned Animation Data.
- GROUPS Link Collections Replace assigned Collections.
- DUPLICOLLECTION Link Instance Collection Replace assigned Collection Instance.
- FONTS Link Fonts to Text Replace Text object Fonts.
- $\bullet \quad \text{MODIFIERS} \quad Copy \, Modifiers Replace \, Modifiers.$
- $\bullet \quad {\tt EFFECTS} \ \ Copy\ Grease\ Pencil\ Effects Replace\ Grease\ Pencil\ Effects.$

bpy.ops.object.make links scene(\*, scene=")

Link selection to another scene

### **PARAMETERS:**

scene (enum in [], (optional)) – Scene

bpy.ops.object.make\_local(\*, type='SELECT\_OBJECT')

Make library linked data-blocks local to this file

### **PARAMETERS:**

type (enum in ['SELECT\_OBJECT', 'SELECT\_OBDATA', 'SELECT\_OBDATA\_MATERIAL', 'ALL'], (optional)) - Type

bpy.ops.object.make\_override\_library(\*, collection=0)

Create a local override of the selected linked objects, and their hierarchy of dependencies

### **PARAMETERS:**

**collection** (int in [-inf, inf], (optional)) – Override Collection, Session UID of the directly linked collection containing the selected object, to make an override from

bpy.ops.object.make\_single\_user(\*, type='SELECTED\_OBJECTS', object=False, obdata=False, material=False, animation=False, obdata animation=False)

Make linked data local to each object

### **PARAMETERS:**

- type (enum in ['SELECTED OBJECTS', 'ALL'], (optional)) Type
- **object** (boolean, (optional)) Object, Make single user objects
- obdata (boolean, (optional)) Object Data, Make single user object data
- material (boolean, (optional)) Materials, Make materials local to each data-block
- animation (boolean, (optional)) Object Animation, Make object animation data local to each object
- obdata\_animation (boolean, (optional)) Object Data Animation, Make object data (mesh, curve etc.) animation data local to each object

### bpy.ops.object.material slot add()

Add a new material slot

bpy.ops.object.material slot assign()

Assign active material slot to selection

bpy.ops.object.material slot copy()

Copy material to selected objects

bpy.ops.object.material\_slot\_deselect()

Deselect by active material slot

bpy.ops.object.material\_slot\_move(\*, direction='UP')

Move the active material up/down in the list

# **PARAMETERS:**

direction (emm in ['UP', 'DOWN'], (optional)) - Direction, Direction to move the active material towards

bpy.ops.object.material slot remove()

Remove the selected material slot

bpy.ops.object.material slot remove unused()

Remove unused material slots

bpy.ops.object.material\_slot\_select()

Select by active material slot

bpy.ops.object.meshdeform\_bind(\*, modifier='')

Bind mesh to cage in mesh deform modifier

# **PARAMETERS:**

modifier (string, (optional, never None)) - Modifier, Name of the modifier to edit

bpy.ops.object.metaball\_add(\*, type='BALL', radius=2.0, enter\_editmode=False, align='WORLD', location=(0.0, 0.0, 0.0), rotation=(0.0, 0.0, 0.0), scale=(0.0, 0.0, 0.0))

Add an metaball object to the scene

### **PARAMETERS:**

• type (enum in Metaelem Type Items, (optional)) – Primitive

- radius (float in [0, inf], (optional)) Radius
- enter editmode (boolean, (optional)) Enter Edit Mode, Enter edit mode when adding this object
- align (enum in ['WORLD', 'VIEW', 'CURSOR'], (optional))—

Align, The alignment of the new object

- WORLD World Align the new object to the world.
- VIEW View Align the new object to the view.
- CURSOR 3D Cursor Use the 3D cursor orientation for the new object.
- location (mathutils. Vector of 3 items in [-inf, inf], (optional)) Location, Location for the newly added object
- rotation (mathutils. Euler rotation of 3 items in [-inf, inf], (optional)) Rotation, Rotation for the newly added object
- scale (mathutils. Vector of 3 items in [-inf, inf], (optional)) Scale, Scale for the newly added object

bpy.ops.object.mode\_set(\*, mode='OBJECT', toggle=False)

Sets the object interaction mode

#### **PARAMETERS:**

- mode (enum in Object Mode Items, (optional)) Mode
- toggle (boolean, (optional)) Toggle

bpy.ops.object.mode\_set\_with\_submode(\*, mode='OBJECT', toggle=False, mesh\_select\_mode={})

Sets the object interaction mode

### **PARAMETERS:**

- mode (enum in Object Mode Items, (optional)) Mode
- toggle (boolean, (optional)) Toggle
- mesh select mode (enum set in Mesh Select Mode Items, (optional)) Mesh Mode

bpy.ops.object.modifier\_add(\*, type='SUBSURF', use\_selected\_objects=False)

Add a procedural operation/effect to the active object

# **PARAMETERS:**

- type (enum in Object Modifier Type Items, (optional)) Type
- use\_selected\_objects (boolean, (optional)) Selected Objects, Affect all selected objects instead of just the active object

bpy.ops.object.modifier\_add\_node\_group(\*, asset\_library\_type='LOCAL', asset\_library\_identifier='', relative\_asset\_identifier='', session\_uid=0, use\_selected\_objects=False)

Add a procedural operation/effect to the active object

### **PARAMETERS:**

- asset\_library\_type (enum in Asset Library Type Items, (optional)) Asset Library Type
- asset library identifier (string, (optional, never None)) Asset Library Identifier
- relative asset identifier (string, (optional, never None)) Relative Asset Identifier
- session uid (int in [-inf, inf], (optional)) Session UID, Session UID of the data-block to use by the operator
- use\_selected\_objects (boolean, (optional)) Selected Objects, Affect all selected objects instead of just the active object

bpy.ops.object.modifier\_apply(\*, modifier='', report=False, merge\_customdata=True, single\_user=False, all\_keyframes=False, use\_selected\_objects=False)

Apply modifier and remove from the stack

- modifier (string, (optional, never None)) Modifier, Name of the modifier to edit
- report (boolean, (optional)) Report, Create a notification after the operation
- merge\_customdata (boolean, (optional)) Merge UVs, For mesh objects, merge UV coordinates that share a vertex to account for imprecision in some modifiers

- single user (boolean, (optional)) Make Data Single User, Make the object's data single user if needed
- all keyframes (boolean, (optional)) Apply to all keyframes, For Grease Pencil objects, apply the modifier to all the keyframes
- use selected objects (boolean, (optional)) Selected Objects, Affect all selected objects instead of just the active object

 $bpy.ops.object. \textbf{modifier\_apply\_as\_shapekey} (*, \textbf{keep\_modifier=False}, \textbf{modifier=''}, \textbf{report=False}, \textbf{use\_selected\_objects=False})$ 

Apply modifier as a new shape key and remove from the stack

### **PARAMETERS:**

- **keep modifier** (boolean, (optional)) Keep Modifier, Do not remove the modifier from stack
- modifier (string, (optional, never None)) Modifier, Name of the modifier to edit
- report (boolean, (optional)) Report, Create a notification after the operation
- use\_selected\_objects (boolean, (optional)) Selected Objects, Affect all selected objects instead of just the active object

bpy.ops.object.modifier\_convert(\*, modifier=")

Convert particles to a mesh object

### **PARAMETERS:**

modifier (string, (optional, never None)) - Modifier, Name of the modifier to edit

bpy.ops.object.modifier copy(\*, modifier=", use selected objects=False)

Duplicate modifier at the same position in the stack

### **PARAMETERS:**

- modifier (string, (optional, never None)) Modifier, Name of the modifier to edit
- use\_selected\_objects (boolean, (optional)) Selected Objects, Affect all selected objects instead of just the active object

bpy.ops.object.modifier\_copy\_to\_selected(\*, modifier="')

Copy the modifier from the active object to all selected objects

# **PARAMETERS:**

modifier (string, (optional, never None)) - Modifier, Name of the modifier to edit

bpy.ops.object.modifier move down(\*, modifier=")

Move modifier down in the stack

### **PARAMETERS:**

**modifier** (string, (optional, never None)) – Modifier, Name of the modifier to edit

bpy.ops.object.modifier\_move\_to\_index(\*, modifier='', index=0, use\_selected\_objects=False)

Change the modifier's index in the stack so it evaluates after the set number of others

# **PARAMETERS:**

- modifier (string, (optional, never None)) Modifier, Name of the modifier to edit
- index (int in [0, inf], (optional)) Index, The index to move the modifier to
- use selected objects (boolean, (optional)) Selected Objects, Affect all selected objects instead of just the active object

bpy.ops.object.modifier\_move\_up(\*, modifier=")

Move modifier up in the stack

# **PARAMETERS:**

modifier (string, (optional, never None)) – Modifier, Name of the modifier to edit

 $bpy.ops.object. \textbf{modifier\_remove(*, modifier=", report=False, use\_selected\_objects=False)}$ 

Remove a modifier from the active object

- modifier (string, (optional, never None)) Modifier, Name of the modifier to edit
- report (boolean, (optional)) Report, Create a notification after the operation
- use selected objects (boolean, (optional)) Selected Objects, Affect all selected objects instead of just the active object

# bpy.ops.object.modifier set active(\*, modifier=")

Activate the modifier to use as the context

#### **PARAMETERS:**

modifier (string, (optional, never None)) - Modifier, Name of the modifier to edit

bpy.ops.object.modifiers clear()

Clear all modifiers from the selected objects

bpy.ops.object.modifiers copy to selected()

Copy modifiers to other selected objects

bpy.ops.object.move to collection(\*, collection index=-1, is new=False, new collection name=")

Move objects to a collection

### **PARAMETERS:**

- **collection index** (int in [-1, inf], (optional)) Collection Index, Index of the collection to move to
- is new (boolean, (optional)) New, Move objects to a new collection
- new collection name (string, (optional, never None)) Name, Name of the newly added collection

bpy.ops.object.multires base apply(\*, modifier=")

Modify the base mesh to conform to the displaced mesh

### **PARAMETERS:**

modifier (string, (optional, never None)) - Modifier, Name of the modifier to edit

bpy.ops.object.multires\_external\_pack()

Pack displacements from an external file

bpy.ops.object.multires\_external\_save(\*, filepath=", hide\_props\_region=True, check\_existing=True, filter\_blender=False, filter\_backup=False, filter\_image=False, filter\_movie=False, filter\_python=False, filter\_font=False, filter\_sound=False, filter\_sound=False, filter\_text=False, filter\_archive=False, filter\_btx=True, filter\_collada=False, filter\_alembic=False, filter\_usd=False, filter\_obj=False, filter\_volume=False, filter\_folder=True, filter\_blenlib=False, filemode=9, relative\_path=True, display\_type='DEFAULT', sort\_method=", modifier=")

Save displacements to an external file

- **filepath** (*string*, (*optional*, *never* None)) File Path, Path to file
- hide\_props\_region (boolean, (optional)) Hide Operator Properties, Collapse the region displaying the operator settings
- check existing (boolean, (optional)) Check Existing, Check and warn on overwriting existing files
- filter\_blender (boolean, (optional)) Filter .blend files
- filter\_backup (boolean, (optional)) Filter .blend files
- filter\_image (boolean, (optional)) Filter image files
- filter movie (boolean, (optional)) Filter movie files
- **filter python** (boolean, (optional)) Filter Python files
- **filter\_font** (boolean, (optional)) Filter font files
- **filter sound** (boolean, (optional)) Filter sound files
- $\bullet \quad \textbf{filter\_text} \ (\textit{boolean}, \ (\textit{optional})) Filter \ \textbf{text} \ files$
- filter archive (boolean, (optional)) Filter archive files
- filter btx (boolean, (optional)) Filter btx files

- filter collada (boolean, (optional)) Filter COLLADA files
- filter alembic (boolean, (optional)) Filter Alembic files
- filter\_usd (boolean, (optional)) Filter USD files
- **filter obj** (boolean, (optional)) Filter OBJ files
- filter volume (boolean, (optional)) Filter OpenVDB volume files
- filter folder (boolean, (optional)) Filter folders
- **filter blenlib** (boolean, (optional)) Filter Blender IDs
- file mode (int in [1, 9], (optional)) File Browser Mode, The setting for the file browser mode to load a .blend file, a library or a special file
- relative path (boolean, (optional)) Relative Path, Select the file relative to the blend file
- display\_type (emm in ['DEFAULT', 'LIST\_VERTICAL', 'LIST\_HORIZONTAL', 'THUMBNAIL'], (optional)) Display Type
  - DEFAULT Default Automatically determine display type for files.
  - LIST VERTICAL Short List Display files as short list.
  - LIST HORIZONTAL Long List Display files as a detailed list.
  - THUMBNAIL Thumbnails Display files as thumbnails.
- **sort method** (*enum in* [], (*optional*)) File sorting mode
- modifier (string, (optional, never None)) Modifier, Name of the modifier to edit

# bpy.ops.object.multires higher levels delete(\*, modifier="')

Deletes the higher resolution mesh, potential loss of detail

### **PARAMETERS:**

modifier (string, (optional, never None)) – Modifier, Name of the modifier to edit

# bpy.ops.object.multires rebuild subdiv(\*, modifier=")

Rebuilds all possible subdivisions levels to generate a lower resolution base mesh

# **PARAMETERS:**

modifier (string, (optional, never None)) - Modifier, Name of the modifier to edit

### bpy.ops.object.multires reshape(\*, modifier=")

Copy vertex coordinates from other object

### **PARAMETERS:**

modifier (string, (optional, never None)) – Modifier, Name of the modifier to edit

# bpy.ops.object.multires subdivide(\*, modifier="', mode='CATMULL CLARK')

Add a new level of subdivision

### **PARAMETERS:**

- modifier (string, (optional, never None)) Modifier, Name of the modifier to edit
- mode (enum in ['CATMULL\_CLARK', 'SIMPLE', 'LINEAR'], (optional)) –

Subdivision Mode, How the mesh is going to be subdivided to create a new level

- CATMULL CLARK Catmull-Clark Create a new level using Catmull-Clark subdivisions.
- SIMPLE Simple Create a new level using simple subdivisions.
- LINEAR Linear Create a new level using linear interpolation of the sculpted displacement.

# bpy.ops.object.multires\_unsubdivide(\*, modifier=")

Rebuild a lower subdivision level of the current base mesh

### **PARAMETERS:**

modifier (string, (optional, never None)) - Modifier, Name of the modifier to edit

bpy.ops.object.ocean bake(\*, modifier=", free=False)

Bake an image sequence of ocean data

### **PARAMETERS:**

- modifier (string, (optional, never None)) Modifier, Name of the modifier to edit
- free (boolean, (optional)) Free, Free the bake, rather than generating it

bpy.ops.object.origin clear()

Clear the object's origin

bpy.ops.object.origin\_set(\*, type='GEOMETRY\_ORIGIN', center='MEDIAN')

Set the object's origin, by either moving the data, or set to center of data, or use 3D cursor

### **PARAMETERS:**

• type (enum in ['GEOMETRY\_ORIGIN', 'ORIGIN\_GEOMETRY', 'ORIGIN\_CURSOR', 'ORIGIN\_CENTER\_OF\_MASS', 'ORIGIN\_CENTER\_OF\_VOLUME'], (optional))—

Type

- GEOMETRY ORIGIN Geometry to Origin Move object geometry to object origin.
- ORIGIN\_GEOMETRY Origin to Geometry Calculate the center of geometry based on the current pivot point (median, otherwise bounding box).
- ORIGIN\_CURSOR Origin to 3D Cursor Move object origin to position of the 3D cursor.
- $\circ \ \, \text{ORIGIN\_CENTER\_OF\_MASS} \ \, \text{Origin to Center of Mass (Surface)} \text{Calculate the center of mass from the surface area.} \\$
- ORIGIN\_CENTER\_OF\_VOLUME Origin to Center of Mass (Volume) Calculate the center of mass from the volume (must be manifold geometry with consistent normals).
- center (enum in ['MEDIAN', 'BOUNDS'], (optional)) Center

bpy.ops.object.parent clear(\*, type='CLEAR')

Clear the object's parenting

### **PARAMETERS:**

type (enum in ['CLEAR', 'CLEAR KEEP TRANSFORM', 'CLEAR INVERSE'], (optional)) –

Type

- CLEAR Clear Parent Completely clear the parenting relationship, including involved modifiers if any.
- CLEAR\_KEEP\_TRANSFORM Clear and Keep Transformation As 'Clear Parent', but keep the current visual transformations of the object.
- CLEAR\_INVERSE Clear Parent Inverse Reset the transform corrections applied to the parenting relationship, does not remove parenting itself.

bpy.ops.object.parent\_inverse\_apply()

Apply the object's parent inverse to its data

bpy.ops.object.parent\_no\_inverse\_set(\*, keep\_transform=False)

Set the object's parenting without setting the inverse parent correction

# **PARAMETERS:**

keep\_transform (boolean, (optional)) - Keep Transform, Preserve the world transform throughout parenting

bpy.ops.object.parent\_set(\*, type='OBJECT', xmirror=False, keep\_transform=False)

Set the object's parenting

# **PARAMETERS:**

• type (enum in ['OBJECT', 'ARMATURE', 'ARMATURE\_NAME', 'ARMATURE\_AUTO', 'ARMATURE\_ENVELOPE', 'BONE', 'BONE\_RELATIVE', 'CURVE', 'FOLLOW', 'PATH\_CONST', 'LATTICE', 'VERTEX', 'VERTEX\_TRI'], (optional)) – Type

- xmirror (boolean, (optional)) X Mirror, Apply weights symmetrically along X axis, for Envelope/Automatic vertex groups creation
- keep\_transform (boolean, (optional)) Keep Transform, Apply transformation before parenting

bpy.ops.object.particle\_system\_add()

Add a particle system

bpy.ops.object.particle system remove()

Remove the selected particle system

bpy.ops.object.paths calculate(\*, display type='RANGE', range='SCENE')

Generate motion paths for the selected objects

### **PARAMETERS:**

- display type (enum in Motionpath Display Type Items, (optional)) Display type
- range (enum in Motionpath Range Items, (optional)) Computation Range

bpy.ops.object.paths clear(\*, only selected=False)

Undocumented, consider contributing.

### **PARAMETERS:**

only selected (boolean, (optional)) - Only Selected, Only clear motion paths of selected objects

bpy.ops.object.paths\_update()

Recalculate motion paths for selected objects

bpy.ops.object.paths update visible()

Recalculate all visible motion paths for objects and poses

bpy.ops.object.pointcloud add(\*, align='WORLD', location=(0.0, 0.0, 0.0), rotation=(0.0, 0.0, 0.0), scale=(0.0, 0.0, 0.0))

Add a point cloud object to the scene

# **PARAMETERS:**

• align (enum in ['WORLD', 'VIEW', 'CURSOR'], (optional))—

Align, The alignment of the new object

- WORLD World Align the new object to the world.
- VIEW View Align the new object to the view.
- CURSOR 3D Cursor Use the 3D cursor orientation for the new object.
- location (mathutils. Vector of 3 items in [-inf, inf], (optional)) Location, Location for the newly added object
- rotation (mathutils. Euler rotation of 3 items in [-inf, inf], (optional)) Rotation, Rotation for the newly added object
- scale (mathutils. Vector of 3 items in [-inf, inf], (optional)) Scale, Scale for the newly added object

bpy.ops.object.posemode\_toggle()

Enable or disable posing/selecting bones

bpy.ops.object.quadriflow\_remesh(\*, use\_mesh\_symmetry=True, use\_preserve\_sharp=False, use\_preserve\_boundary=False, preserve\_attributes=False, smooth\_normals=False, mode='FACES', target\_ratio=1.0, target\_edge\_length=0.1, target\_faces=4000, mesh\_area=-1.0, seed=0)

Create a new quad based mesh using the surface data of the current mesh. All data layers will be lost

- use\_mesh\_symmetry (boolean, (optional)) Use Mesh Symmetry, Generates a symmetrical mesh using the mesh symmetry configuration
- use preserve sharp (boolean, (optional)) Preserve Sharp, Try to preserve sharp features on the mesh
- use preserve boundary (boolean, (optional)) Preserve Mesh Boundary, Try to preserve mesh boundary on the mesh
- preserve attributes (boolean, (optional)) Preserve Attributes, Reproject attributes onto the new mesh

- smooth normals (boolean, (optional)) Smooth Normals, Set the output mesh normals to smooth
- mode (enum in ['RATIO', 'EDGE', 'FACES'], (optional))—

Mode, How to specify the amount of detail for the new mesh

- RATIO Ratio Specify target number of faces relative to the current mesh.
- $\circ \;\;$  EDGE Edge Length Input target edge length in the new mesh.
- FACES Faces Input target number of faces in the new mesh.
- target ratio (float in [0, inf], (optional)) Ratio, Relative number of faces compared to the current mesh
- target edge length (float in [1e-07, inf], (optional)) Edge Length, Target edge length in the new mesh
- target faces (int in [1, inf], (optional)) Number of Faces, Approximate number of faces (quads) in the new mesh
- mesh area (float in [-inf, inf], (optional)) Old Object Face Area, This property is only used to cache the object area for later calculation
- seed (int in [0, inf], (optional)) Seed, Random seed to use with the solver. Different seeds will cause the remesher to come up with different quad layouts on the mesh

bpy.ops.object.quick\_explode(\*, style='EXPLODE', amount=100, frame\_duration=50, frame\_start=1, frame\_end=10, velocity=1.0, fade=True)

Make selected objects explode

### **PARAMETERS:**

- **style** (*enum in ['EXPLODE', 'BLEND'], (optional)*) Explode Style
- amount (int in [2, 10000], (optional)) Number of Pieces
- frame\_duration (int in [1, 300000], (optional)) Duration
- frame start (int in [1, 300000], (optional)) Start Frame
- frame end (int in [1, 300000], (optional)) End Frame
- velocity (float in [0, 300000], (optional)) Outwards Velocity
- fade (boolean, (optional)) Fade, Fade the pieces over time

### FILE:

startup/bl\_operators/object\_quick\_effects.py:260

bpy.ops.object.quick\_fur(\*, density='MEDIUM', length=0.1, radius=0.001, view\_percentage=1.0, apply\_hair\_guides=True, use noise=True, use frizz=True)

Add a fur setup to the selected objects

### **PARAMETERS:**

- density (enum in ['LOW', 'MEDIUM', 'HIGH'], (optional)) Density
- length (float in [0.001, 100], (optional)) Length
- radius (float in [0, 10], (optional)) Hair Radius
- view\_percentage (float in [0, 1], (optional)) View Percentage
- apply\_hair\_guides (boolean, (optional)) Apply Hair Guides
- use\_noise (boolean, (optional)) Noise
- use\_frizz(boolean, (optional)) Frizz

### FILE:

startup/bl\_operators/object\_quick\_effects.py:91

bpy.ops.object.quick\_liquid(\*, show\_flows=False)

Make selected objects liquid

# **PARAMETERS:**

show flows (boolean, (optional)) - Render Liquid Objects, Keep the liquid objects visible during rendering

### FILE:

startup/bl operators/object quick effects.py:546

bpy.ops.object.quick smoke(\*, style='SMOKE', show flows=False)

Use selected objects as smoke emitters

### **PARAMETERS:**

- style (enum in ['SMOKE', 'FIRE', 'BOTH'], (optional)) Smoke Style
- show flows (boolean, (optional)) Render Smoke Objects, Keep the smoke objects visible during rendering

### FILE:

startup/bl operators/object quick effects.py:437

bpy.ops.object.randomize\_transform(\*, random\_seed=0, use\_delta=False, use\_loc=True, loc=(0.0, 0.0, 0.0), use\_rot=True, rot=(0.0, 0.0, 0.0), use\_rot=(0.0, 0.0, 0.0, 0.0), use\_rot=(0.0, 0.0, 0.0), u

Randomize objects location, rotation, and scale

### **PARAMETERS:**

- random seed (int in [0, 10000], (optional)) Random Seed, Seed value for the random generator
- use\_delta (boolean, (optional)) Transform Delta, Randomize delta transform values instead of regular transform
- use\_loc (boolean, (optional)) Randomize Location, Randomize the location values
- loc (mathutils. Vector of 3 items in [-100, 100], (optional)) Location, Maximum distance the objects can spread over each axis
- use\_rot (boolean, (optional)) Randomize Rotation, Randomize the rotation values
- rot (mathutils. Euler rotation of 3 items in [-3.14159, 3.14159], (optional)) Rotation, Maximum rotation over each axis
- use scale (boolean, (optional)) Randomize Scale, Randomize the scale values
- scale even (boolean, (optional)) Scale Even, Use the same scale value for all axis
- scale (float array of 3 items in [-100, 100], (optional)) Scale, Maximum scale randomization over each axis

#### FILE:

startup/bl operators/object randomize transform.py:161

bpy.ops.object.reset override library()

Reset the selected local overrides to their linked references values

bpy.ops.object.rotation clear(\*, clear delta=False)

Clear the object's rotation

# **PARAMETERS:**

clear delta (boolean, (optional)) - Clear Delta, Clear delta rotation in addition to clearing the normal rotation transform

bpy.ops.object.scale\_clear(\*, clear\_delta=False)

Clear the object's scale

# **PARAMETERS:**

clear\_delta (boolean, (optional)) - Clear Delta, Clear delta scale in addition to clearing the normal scale transform

bpy.ops.object.select all(\*, action='TOGGLE')

Change selection of all visible objects in scene

### **PARAMETERS:**

action (enum in ['TOGGLE', 'SELECT', 'DESELECT', 'INVERT'], (optional)) -

Action, Selection action to execute

- TOGGLE Toggle Toggle selection for all elements.
- SELECT Select Select all elements.
- DESELECT Deselect Deselect all elements.
- INVERT Invert Invert selection of all elements.

opy.ops.oojec.scieci\_oy\_type( , extend=raise, type=millsii )

Select all visible objects that are of a type

### **PARAMETERS:**

- extend (boolean, (optional)) Extend, Extend selection instead of deselecting everything first
- type (enum in Object Type Items, (optional)) Type

bpy.ops.object.select\_camera(\*, extend=False)

Select the active camera

#### **PARAMETERS:**

extend (boolean, (optional)) – Extend, Extend the selection

### FILE:

startup/bl\_operators/object.py:122

bpy.ops.object.select\_grouped(\*, extend=False, type='CHILDREN\_RECURSIVE')

Select all visible objects grouped by various properties

### **PARAMETERS:**

- extend (boolean, (optional)) Extend, Extend selection instead of deselecting everything first
- type (emim in ['CHILDREN\_RECURSIVE', 'CHILDREN', 'PARENT', 'SIBLINGS', 'TYPE', 'COLLECTION', 'HOOK', 'PASS', 'COLOF 'KEYINGSET', 'LIGHT\_TYPE'], (optional)) –

Type

- CHILDREN RECURSIVE Children.
- CHILDREN Immediate Children.
- PARENT Parent.
- SIBLINGS Siblings Shared parent.
- ∘ TYPE Type Shared object type.
- COLLECTION Collection Shared collection.
- HOOK Hook.
- PASS Pass Render pass index.
- COLOR Color Object color.
- KEYINGSET Keying Set Objects included in active Keying Set.
- LIGHT TYPE Light Type Matching light types.

# bpy.ops.object.select\_hierarchy(\*, direction='PARENT', extend=False)

Select object relative to the active object's position in the hierarchy

# **PARAMETERS:**

- direction (enum in ['PARENT', 'CHILD'], (optional)) Direction, Direction to select in the hierarchy
- extend (boolean, (optional)) Extend, Extend the existing selection

### FILE:

startup/bl\_operators/object.py:172

bpy.ops.object.select\_less()

Deselect objects at the boundaries of parent/child relationships

bpy.ops.object.select\_linked(\*, extend=False, type='OBDATA')

Select all visible objects that are linked

- extend (boolean, (optional)) Extend, Extend selection instead of deselecting everything first
- type (enum in ['OBDATA', 'MATERIAL', 'DUPGROUP', 'PARTICLE', 'LIBRARY', 'LIBRARY OBDATA'], (optional)) Type

# bpy.ops.object.select mirror(\*, extend=False)

Select the mirror objects of the selected object e.g. "L.sword" and "R.sword"

#### **PARAMETERS:**

extend (boolean, (optional)) – Extend, Extend selection instead of deselecting everything first

# bpy.ops.object.select\_more()

Select connected parent/child objects

# bpy.ops.object.select\_pattern(\*, pattern='\*', case\_sensitive=False, extend=True)

Select objects matching a naming pattern

### **PARAMETERS:**

- pattern (string, (optional, never None)) Pattern, Name filter using "\*", "?" and "[abc]" unix style wildcards
- case sensitive (boolean, (optional)) Case Sensitive, Do a case sensitive compare
- extend (boolean, (optional)) Extend, Extend the existing selection

### FILE:

startup/bl operators/object.py:45

# bpy.ops.object.select random(\*, ratio=0.5, seed=0, action='SELECT')

Select or deselect random visible objects

### **PARAMETERS:**

- ratio (float in [0, 1], (optional)) Ratio, Portion of items to select randomly
- seed (int in [0, inf], (optional)) Random Seed, Seed for the random number generator
- action (enum in ['SELECT', 'DESELECT'], (optional)) —

Action, Selection action to execute

- SELECT Select Select all elements.
- $\hspace{0.1in} \circ \hspace{0.1in} {\tt DESELECT} \hspace{0.1in} \begin{array}{l} \textbf{Deselect} \textbf{Deselect} \hspace{0.1in} \textbf{all} \hspace{0.1in} \textbf{elements}. \end{array}$

# bpy.ops.object.select\_same\_collection(\*, collection=")

Select object in the same collection

# **PARAMETERS:**

collection (string, (optional, never None)) – Collection, Name of the collection to select

### bpy.ops.object.shade auto smooth(\*, use auto smooth=True, angle=0.523599)

Add modifier to automatically set the sharpness of mesh edges based on the angle between the neighboring faces

### **PARAMETERS:**

- use\_auto\_smooth (boolean, (optional)) Auto Smooth, Add modifier to set edge sharpness automatically
- angle (float in [0, 3.14159], (optional)) Angle, Maximum angle between face normals that will be considered as smooth

### bpy.ops.object.shade flat(\*, keep sharp edges=True)

Render and display faces uniform, using face normals

### **PARAMETERS:**

keep sharp edges (boolean, (optional)) - Keep Sharp Edges, Don't remove sharp edges, which are redundant with faces shaded smooth

# bpy.ops.object.shade\_smooth(\*, keep\_sharp\_edges=True)

Render and display faces smooth, using interpolated vertex normals

### **PARAMETERS:**

keep\_sharp\_edges (boolean, (optional)) - Keep Sharp Edges, Don't remove sharp edges. Tagged edges will remain sharp

# bpy.ops.object.shade\_smooth\_by\_angle(\*, angle=0.523599, keep\_sharp\_edges=True)

Set the sharpness of mesh edges based on the angle between the neighboring faces

### **PARAMETERS:**

- angle (float in [0, 3.14159], (optional)) Angle, Maximum angle between face normals that will be considered as smooth
- keep sharp edges (boolean, (optional)) Keep Sharp Edges, Only add sharp edges instead of clearing existing tags first

bpy.ops.object.shaderfx add(\*, type='FX BLUR')

Add a visual effect to the active object

### **PARAMETERS:**

type (enum in Object Shaderfx Type Items, (optional)) – Type

bpy.ops.object.shaderfx\_copy(\*, shaderfx=")

Duplicate effect at the same position in the stack

### **PARAMETERS:**

shaderfx (string, (optional, never None)) – Shader, Name of the shaderfx to edit

bpy.ops.object.shaderfx move down(\*, shaderfx=")

Move effect down in the stack

### **PARAMETERS:**

**shaderfx** (string, (optional, never None)) – Shader, Name of the shaderfx to edit

bpy.ops.object.shaderfx\_move\_to\_index(\*, shaderfx="', index=0)

Change the effect's position in the list so it evaluates after the set number of others

# **PARAMETERS:**

- shaderfx (string, (optional, never None)) Shader, Name of the shaderfx to edit
- index (int in [0, inf], (optional)) Index, The index to move the effect to

bpy.ops.object.shaderfx\_move\_up(\*, shaderfx=")

Move effect up in the stack

# **PARAMETERS:**

shaderfx (string, (optional, never None)) - Shader, Name of the shaderfx to edit

bpy.ops.object.shaderfx remove(\*, shaderfx=", report=False)

Remove a effect from the active Grease Pencil object

# **PARAMETERS:**

- shaderfx (string, (optional, never None)) Shader, Name of the shaderfx to edit
- report (boolean, (optional)) Report, Create a notification after the operation

bpy.ops.object.shape key add(\*, from mix=True)

Add shape key to the object

# **PARAMETERS:**

from mix (boolean, (optional)) - From Mix, Create the new shape key from the existing mix of keys

bpy.ops.object.shape\_key\_clear()

Reset the weights of all shape keys to 0 or to the closest value respecting the limits

bpy.ops.object.shape\_key\_lock(\*, action='LOCK')

Change the lock state of all shape keys of active object

### **PARAMETERS:**

action (enum in ['LOCK', 'UNLOCK'], (optional)) -

Action, Lock action to execute on vertex groups

- LOCK Lock Lock all shape keys.
- UNLOCK Unlock Unlock all shape keys.

### bpy.ops.object.shape key mirror(\*, use topology=False)

Mirror the current shape key along the local X axis

### **PARAMETERS:**

**use\_topology** (boolean, (optional)) – Topology Mirror, Use topology based mirroring (for when both sides of mesh have matching, unique topology)

# bpy.ops.object.shape\_key\_move(\*, type='TOP')

Move the active shape key up/down in the list

### **PARAMETERS:**

type (enum in ['TOP', 'UP', 'DOWN', 'BOTTOM'], (optional)) -

Type

- TOP Top Top of the list.
- UP Up.
- DOWN Down.
- BOTTOM Bottom Bottom of the list.

# bpy.ops.object.shape\_key\_remove(\*, all=False, apply\_mix=False)

Remove shape key from the object

# **PARAMETERS:**

- all (boolean, (optional)) All, Remove all shape keys
- apply\_mix (boolean, (optional)) Apply Mix, Apply current mix of shape keys to the geometry before removing them

# bpy.ops.object.shape\_key\_retime()

Resets the timing for absolute shape keys

# bpy.ops.object.shape key transfer(\*, mode='OFFSET', use clamp=False)

Copy the active shape key of another selected object to this one

# **PARAMETERS:**

• mode (enum in ['OFFSET', 'RELATIVE\_FACE', 'RELATIVE\_EDGE'], (optional)) –

Transformation Mode, Relative shape positions to the new shape method

- OFFSET Offset Apply the relative positional offset.
- RELATIVE FACE Relative Face Calculate relative position (using faces).
- RELATIVE EDGE Relative Edge Calculate relative position (using edges).
- use clamp (boolean, (optional)) Clamp Offset, Clamp the transformation to the distance each vertex moves in the original shape

### FILE:

startup/bl operators/object.py:474

# bpy.ops.object.simulation nodes cache bake(\*, selected=False)

Bake simulations in geometry nodes modifiers

### **PARAMETERS:**

# bpy.ops.object.simulation nodes cache calculate to frame(\*, selected=False)

Calculate simulations in geometry nodes modifiers from the start to current frame

#### **PARAMETERS:**

selected (boolean, (optional)) - Selected, Calculate all selected objects instead of just the active object

# bpy.ops.object.simulation\_nodes\_cache\_delete(\*, selected=False)

Delete cached/baked simulations in geometry nodes modifiers

### **PARAMETERS:**

selected (boolean, (optional)) - Selected, Delete cache on all selected objects

### bpy.ops.object.skin armature create(\*, modifier=")

Create an armature that parallels the skin layout

### **PARAMETERS:**

modifier (string, (optional, never None)) - Modifier, Name of the modifier to edit

# bpy.ops.object.skin loose mark clear(\*, action='MARK')

Mark/clear selected vertices as loose

#### **PARAMETERS:**

action (emm in ['MARK', 'CLEAR'], (optional)) -

Action

- MARK Mark Mark selected vertices as loose.
- CLEAR Clear Set selected vertices as not loose.

### bpy.ops.object.skin radii equalize()

Make skin radii of selected vertices equal on each axis

# bpy.ops.object.skin\_root\_mark()

Mark selected vertices as roots

# bpy.ops.object.speaker\_add(\*, enter\_editmode=False, align='WORLD', location=(0.0, 0.0, 0.0), rotation=(0.0, 0.0, 0.0), scale=(0.0, 0.0, 0.0), 0.0))

Add a speaker object to the scene

# **PARAMETERS:**

- enter\_editmode (boolean, (optional)) Enter Edit Mode, Enter edit mode when adding this object
- align (enum in ['WORLD', 'VIEW', 'CURSOR'], (optional)) –

Align, The alignment of the new object

- WORLD World Align the new object to the world.
- VIEW View Align the new object to the view.
- CURSOR 3D Cursor Use the 3D cursor orientation for the new object.
- location (mathutils. Vector of 3 items in [-inf, inf], (optional)) Location, Location for the newly added object
- rotation (mathutils. Euler rotation of 3 items in [-inf, inf], (optional)) Rotation, Rotation for the newly added object
- scale (mathutils. Vector of 3 items in [-inf, inf], (optional)) Scale, Scale for the newly added object

# bpy.ops.object.subdivision\_set(\*, level=1, relative=False)

Sets a Subdivision Surface level (1 to 5)

### **PARAMETERS:**

1 1/1 . . F 100 1007 / . . 1/1 T 1

- **level** (*int in |-100, 100|, (optional)*) Level
- relative (boolean, (optional)) Relative, Apply the subdivision surface level as an offset relative to the current level

### FILE:

startup/bl operators/object.py:239

bpy.ops.object.surfacedeform bind(\*, modifier=")

Bind mesh to target in surface deform modifier

### **PARAMETERS:**

modifier (string, (optional, never None)) – Modifier, Name of the modifier to edit

bpy.ops.object.text\_add(\*, radius=1.0, enter\_editmode=False, align='WORLD', location=(0.0, 0.0, 0.0), rotation=(0.0, 0.0, 0.0), scale=(0.0, 0.0, 0.0))

Add a text object to the scene

# **PARAMETERS:**

- radius (float in [0, inf], (optional)) Radius
- enter\_editmode (boolean, (optional)) Enter Edit Mode, Enter edit mode when adding this object
- align (enum in ['WORLD', 'VIEW', 'CURSOR'], (optional))—

Align, The alignment of the new object

- WORLD World Align the new object to the world.
- VIEW View Align the new object to the view.
- CURSOR 3D Cursor Use the 3D cursor orientation for the new object.
- location (mathutils. Vector of 3 items in [-inf, inf], (optional)) Location, Location for the newly added object
- rotation (mathutils.Euler rotation of 3 items in [-inf, inf], (optional)) Rotation, Rotation for the newly added object
- scale (mathutils. Vector of 3 items in [-inf, inf], (optional)) Scale, Scale for the newly added object

bpy.ops.object.track clear(\*, type='CLEAR')

Clear tracking constraint or flag from object

### **PARAMETERS:**

type (emim in ['CLEAR', 'CLEAR\_KEEP\_TRANSFORM'], (optional)) - Type

bpy.ops.object.track\_set(\*, type='DAMPTRACK')

Make the object track another object, using various methods/constraints

# **PARAMETERS:**

type (enum in ['DAMPTRACK', 'TRACKTO', 'LOCKTRACK'], (optional)) - Type

bpy.ops.object.transfer mode(\*, use flash on transfer=True)

Switches the active object and assigns the same mode to a new one under the mouse cursor, leaving the active mode in the current one

# **PARAMETERS:**

use flash on transfer (boolean, (optional)) - Flash On Transfer, Flash the target object when transferring the mode

bpy.ops.object.transform apply(\*, location=True, rotation=True, scale=True, properties=True, isolate users=False)

Apply the object's transformation to its data

- **location** (boolean, (optional)) Location
- rotation (boolean, (optional)) Rotation
- scale (boolean, (optional)) Scale
- properties (boolean, (optional)) Apply Properties, Modify properties such as curve vertex radius, font size and bone envelope
- isolate users (boolean, (optional)) Isolate Multi User Data, Create new object-data users if needed

bpy.ops.object.transform axis target()

Interactively point cameras and lights to a location (Ctrl translates)

bpy.ops.object.transform\_to\_mouse(\*, name='', session\_uid=0, matrix=((0.0, 0.0, 0.0), (0.0,

Snap selected item(s) to the mouse location

### **PARAMETERS:**

- name (string, (optional, never None)) Name, Object name to place (uses the active object when this and 'session uid' are unset)
- session\_uid (int in [-inf, inf], (optional)) Session UUID, Session UUID of the object to place (uses the active object when this and 'nam are unset)
- matrix (mathutils.Matrix of 4 \* 4 items in [-inf, inf], (optional)) Matrix
- drop x (int in [-inf, inf], (optional)) Drop X, X-coordinate (screen space) to place the new object under
- drop y (int in [-inf, inf], (optional)) Drop Y, Y-coordinate (screen space) to place the new object under

bpy.ops.object.transforms\_to\_deltas(\*, mode='ALL', reset\_values=True)

Convert normal object transforms to delta transforms, any existing delta transforms will be included as well

### **PARAMETERS:**

• mode (enum in ['ALL', 'LOC', 'ROT', 'SCALE'], (optional)) –

Mode, Which transforms to transfer

- ALL All Transforms Transfer location, rotation, and scale transforms.
- LOC Location Transfer location transforms only.
- ROT Rotation Transfer rotation transforms only.
- SCALE Scale Transfer scale transforms only.
- reset\_values (boolean, (optional)) Reset Values, Clear transform values after transferring to deltas

### FILE:

startup/bl\_operators/object.py:736

bpy.ops.object.unlink\_data()

Undocumented, consider contributing.

bpy.ops.object.vertex\_group\_add()

Add a new vertex group to the active object

bpy.ops.object.vertex\_group\_assign()

Assign the selected vertices to the active vertex group

bpy.ops.object.vertex\_group\_assign\_new()

Assign the selected vertices to a new vertex group

bpy.ops.object.vertex\_group\_clean(\*, group\_select\_mode='', limit=0.0, keep\_single=False)

Remove vertex group assignments which are not required

# **PARAMETERS:**

- group select mode (enum in [], (optional)) Subset, Define which subset of groups shall be used
- **limit** (*float in [0, 1]*, (*optional*)) Limit, Remove vertices which weight is below or equal to this limit
- keep single (boolean, (optional)) Keep Single, Keep verts assigned to at least one group when cleaning

bpy.ops.object.vertex group copy()

Make a copy of the active vertex group

bpy.ops.object.vertex group copy to selected()

Replace vertex groups of selected objects by vertex groups of active object

bpy.ops.object.vertex group deselect()

Deselect all selected vertices assigned to the active vertex group

bpy.ops.object.vertex group invert(\*, group select mode=", auto assign=True, auto remove=True)

Invert active vertex group's weights

### **PARAMETERS:**

- group select mode (enum in [], (optional)) Subset, Define which subset of groups shall be used
- auto assign (boolean, (optional)) Add Weights, Add vertices from groups that have zero weight before inverting
- auto\_remove (boolean, (optional)) Remove Weights, Remove vertices from groups that have zero weight after inverting

bpy.ops.object.vertex\_group\_levels(\*, group\_select\_mode=", offset=0.0, gain=1.0)

Add some offset and multiply with some gain the weights of the active vertex group

### **PARAMETERS:**

- group select mode (enum in [], (optional)) Subset, Define which subset of groups shall be used
- offset (float in [-1, 1], (optional)) Offset, Value to add to weights
- gain (float in [0, inf], (optional)) Gain, Value to multiply weights by

bpy.ops.object.vertex group limit total(\*, group select mode=", limit=4)

Limit deform weights associated with a vertex to a specified number by removing lowest weights

### **PARAMETERS:**

- group\_select\_mode (enum in [], (optional)) Subset, Define which subset of groups shall be used
- **limit** (int in [1, 32], (optional)) Limit, Maximum number of deform weights

bpy.ops.object.vertex\_group\_lock(\*, action='TOGGLE', mask='ALL')

Change the lock state of all or some vertex groups of active object

# **PARAMETERS:**

• action (enum in ['TOGGLE', 'LOCK', 'UNLOCK', 'INVERT'], (optional)) –

Action, Lock action to execute on vertex groups

- TOGGLE Toggle Unlock all vertex groups if there is at least one locked group, lock all in other case.
- LOCK Lock Lock all vertex groups.
- UNLOCK Unlock Unlock all vertex groups.
- INVERT Invert Invert the lock state of all vertex groups.
- mask (enum in ['ALL', 'SELECTED', 'UNSELECTED', 'INVERT\_UNSELECTED'], (optional)) –

Mask, Apply the action based on vertex group selection

- ALL All Apply action to all vertex groups.
- SELECTED Selected Apply to selected vertex groups.
- $\verb| ONSELECTED| Unselected Apply to unselected vertex groups. \\$
- INVERT UNSELECTED Invert Unselected Apply the opposite of Lock/Unlock to unselected vertex groups.

bpy.ops.object.vertex group mirror(\*, mirror weights=True, flip group names=True, all groups=False, use topology=False)

Mirror vertex group, flip weights and/or names, editing only selected vertices, flipping when both sides are selected otherwise copy from unselected

- mirror\_weights (boolean, (optional)) Mirror Weights, Mirror weights
- flip\_group\_names (boolean, (optional)) Flip Group Names, Flip vertex group names
- all groups (boolean, (optional)) All Groups, Mirror all vertex groups weights

• use\_topology (boolean, (optional)) - Topology Mirror, Use topology based mirroring (for when both sides of mesh have matching, unique topology)

bpy.ops.object.vertex\_group\_move(\*, direction='UP')

Move the active vertex group up/down in the list

#### **PARAMETERS:**

direction (emm in ['UP', 'DOWN'], (optional)) - Direction, Direction to move the active vertex group towards

bpy.ops.object.vertex group normalize()

Normalize weights of the active vertex group, so that the highest ones are now 1.0

bpy.ops.object.vertex group normalize all(\*, group select mode=", lock active=True)

Normalize all weights of all vertex groups, so that for each vertex, the sum of all weights is 1.0

### **PARAMETERS:**

- group select mode (enum in [], (optional)) Subset, Define which subset of groups shall be used
- lock active (boolean, (optional)) Lock Active, Keep the values of the active group while normalizing others

bpy.ops.object.vertex group quantize(\*, group select mode=", steps=4)

Set weights to a fixed number of steps

### **PARAMETERS:**

- group\_select\_mode (enum in [], (optional)) Subset, Define which subset of groups shall be used
- steps (int in [1, 1000], (optional)) Steps, Number of steps between 0 and 1

bpy.ops.object.vertex group remove(\*, all=False, all unlocked=False)

Delete the active or all vertex groups from the active object

# **PARAMETERS:**

- all (boolean, (optional)) All, Remove all vertex groups
- all unlocked (boolean, (optional)) All Unlocked, Remove all unlocked vertex groups

bpy.ops.object.vertex group remove from(\*, use all groups=False, use all verts=False)

Remove the selected vertices from active or all vertex group(s)

# **PARAMETERS:**

- use all groups (boolean, (optional)) All Groups, Remove from all groups
- use all verts (boolean, (optional)) All Vertices, Clear the active group

bpy.ops.object.vertex group select()

Select all the vertices assigned to the active vertex group

bpy.ops.object.vertex group set active(\*, group=")

Set the active vertex group

### **PARAMETERS:**

**group** (enum in [], (optional)) – Group, Vertex group to set as active

bpy.ops.object.vertex\_group\_smooth(\*, group\_select\_mode=", factor=0.5, repeat=1, expand=0.0)

Smooth weights for selected vertices

- group\_select\_mode (enum in [], (optional)) Subset, Define which subset of groups shall be used
- **factor** (*float in* [0, 1], (optional)) Factor
- reneat (int in [1 100001 (ontional)) = Iterations

- **repeat** (an ar [ 1, 10000], (opinoimi)) - inimiono

• expand (float in [-1, 1], (optional)) - Expand/Contract, Expand/contract weights

bpy.ops.object.vertex group sort(\*, sort type='NAME')

Sort vertex groups

### **PARAMETERS:**

sort\_type (enum in ['NAME', 'BONE\_HIERARCHY'], (optional)) – Sort Type, Sort type

bpy.ops.object.vertex parent set()

Parent selected objects to the selected vertices

bpy.ops.object.vertex weight copy()

Copy weights from active to selected

bpy.ops.object.vertex weight delete(\*, weight group=-1)

Delete this weight from the vertex (disabled if vertex group is locked)

#### PARAMETERS:

weight group (int in [-1, inf], (optional)) – Weight Index, Index of source weight in active vertex group

bpy.ops.object.vertex weight normalize active vertex()

Normalize active vertex's weights

bpy.ops.object.vertex weight paste(\*, weight group=-1)

Copy this group's weight to other selected vertices (disabled if vertex group is locked)

# **PARAMETERS:**

weight group (int in [-1, inf], (optional)) – Weight Index, Index of source weight in active vertex group

bpy.ops.object.vertex weight set active(\*, weight group=-1)

Set as active vertex group

### **PARAMETERS:**

weight group (int in [-1, inf], (optional)) – Weight Index, Index of source weight in active vertex group

bpy.ops.object.visual\_transform\_apply()

Apply the object's visual transformation to its data

bpy.ops.object.volume add(\*, align='WORLD', location=(0.0, 0.0, 0.0), rotation=(0.0, 0.0, 0.0), scale=(0.0, 0.0, 0.0))

Add a volume object to the scene

# **PARAMETERS:**

• align (enum in ['WORLD', 'VIEW', 'CURSOR'], (optional))—

Align, The alignment of the new object

- WORLD World Align the new object to the world.
- VIEW View Align the new object to the view.
- CURSOR 3D Cursor Use the 3D cursor orientation for the new object.
- location (mathutils. Vector of 3 items in [-inf, inf], (optional)) Location, Location for the newly added object
- rotation (mathutils. Euler rotation of 3 items in [-inf, inf], (optional)) Rotation, Rotation for the newly added object
- scale (mathutils. Vector of 3 items in [-inf, inf], (optional)) Scale, Scale for the newly added object

bpy.ops.object.volume\_import(\*, filepath=", directory=", files=None, hide\_props\_region=True, check\_existing=False, filter\_blender=False, filter\_backup=False, filter\_image=False, filter\_movie=False, filter\_python=False, filter\_font=False, filter\_sound=False, filter\_sound=False, filter\_text=False, filter\_archive=False, filter\_btx=False, filter\_collada=False, filter\_alembic=False, filter\_usd=False, filter\_tollada=False, filter\_sound=9, relative\_path=True.

display\_type='DEFAULT', sort\_method='', use\_sequence\_detection=True, align='WORLD', location=(0.0, 0.0, 0.0), rotation=(0.0, 0.0, 0.0), scale=(0.0, 0.0, 0.0))

Import OpenVDB volume file

#### **PARAMETERS:**

- **filepath** (*string*, (*optional*, *never None*)) File Path, Path to file
- directory (string, (optional, never None)) Directory, Directory of the file
- files (bpy prop collection of OperatorFileListElement, (optional)) Files
- hide props region (boolean, (optional)) Hide Operator Properties, Collapse the region displaying the operator settings
- check existing (boolean, (optional)) Check Existing, Check and warn on overwriting existing files
- filter blender (boolean, (optional)) Filter .blend files
- filter\_backup (boolean, (optional)) Filter .blend files
- filter\_image (boolean, (optional)) Filter image files
- filter movie (boolean, (optional)) Filter movie files
- filter python (boolean, (optional)) Filter Python files
- **filter font** (boolean, (optional)) Filter font files
- filter\_sound (boolean, (optional)) Filter sound files
- **filter text** (boolean, (optional)) Filter text files
- filter\_archive (boolean, (optional)) Filter archive files
- filter btx (boolean, (optional)) Filter btx files
- filter\_collada (boolean, (optional)) Filter COLLADA files
- filter alembic (boolean, (optional)) Filter Alembic files
- filter usd (boolean, (optional)) Filter USD files
- **filter obj** (boolean, (optional)) Filter OBJ files
- **filter\_volume** (boolean, (optional)) Filter OpenVDB volume files
- filter\_folder (boolean, (optional)) Filter folders
- filter blenlib (boolean, (optional)) Filter Blender IDs
- file mode (int in [1, 9], (optional)) File Browser Mode, The setting for the file browser mode to load a .blend file, a library or a special file
- relative path (boolean, (optional)) Relative Path, Select the file relative to the blend file
- display\_type (enum in ['DEFAULT', 'LIST\_VERTICAL', 'LIST\_HORIZONTAL', 'THUMBNAIL'], (optional)) Display Type
  - DEFAULT Default Automatically determine display type for files.
  - LIST VERTICAL Short List Display files as short list.
  - LIST HORIZONTAL Long List Display files as a detailed list.
  - THUMBNAIL Thumbnails Display files as thumbnails.
- sort\_method (enum in [], (optional)) File sorting mode
- use\_sequence\_detection (boolean, (optional)) Detect Sequences, Automatically detect animated sequences in selected volume files (bas on file names)
- align (enum in ['WORLD', 'VIEW', 'CURSOR'], (optional)) –

Align, The alignment of the new object

- WORLD World Align the new object to the world.
- VIEW View Align the new object to the view.
- CURSOR 3D Cursor Use the 3D cursor orientation for the new object.
- location (mathutils. Vector of 3 items in [-inf, inf], (optional)) Location, Location for the newly added object
- rotation (mathutils. Euler rotation of 3 items in [-inf, inf], (optional)) Rotation, Rotation for the newly added object
- scale (mathutils. Vector of 3 items in [-inf, inf], (optional)) Scale, Scale for the newly added object

Calculates a new manifold mesh based on the volume of the current mesh. All data layers will be lost

bpy.ops.object.voxel\_size\_edit()

Modify the mesh voxel size interactively used in the voxel remesher

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