Skip to content Curves Operators

bpy.ops.curves.add_bezier(*, 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 new bezier curve

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.curves.add_circle(*, 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 new circle curve

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

 $bpy.ops.curves. attribute_set(*, value_float=0.0, value_float_vector_2d=(0.0, 0.0), value_float_vector_3d=(0.0, 0.0, 0.0), value_int=0, \\value_int_vector_2d=(0, 0), value_color=(1.0, 1.0, 1.0, 1.0), value_bool=False)$

Set values of the active attribute for selected elements

PARAMETERS:

- value_float (float in [-inf, inf], (optional)) Value
- value_float_vector_2d (float array of 2 items in [-inf, inf], (optional)) Value
- value_float_vector_3d (float array of 3 items in [-inf, inf], (optional)) Value
- value_int (int in [-inf, inf], (optional)) Value
- value_int_vector_2d (int array of 2 items in [-inf, inf], (optional)) Value
- value_color (float array of 4 items in [-inf, inf], (optional)) Value
- value_bool (boolean, (optional)) Value

bpy.ops.curves.convert from particle system()

Add a new curves object based on the current state of the particle system

bpy.ops.curves.convert to particle system()

Add a new or update an existing hair particle system on the surface object

bpy.ops.curves.curve type set(*, type='POLY', use handles=False)

Set type of selected curves

PARAMETERS:

- type (enum in Curves Type Items, (optional)) Type, Curve type
- use handles (boolean, (optional)) Handles, Take handle information into account in the conversion

bpy.ops.curves.cyclic toggle()

Make active curve closed/opened loop

bpy.ops.curves.delete()

Remove selected control points or curves

bpy.ops.curves.draw(*, error_threshold=0.0, fit_method='REFIT', corner_angle=1.22173, use_cyclic=True, stroke=None, wait_for_input=True, is_curve_2d=False, bezier_as_nurbs=False)

Draw a freehand curve

PARAMETERS:

- error threshold (float in [0, 10], (optional)) Error, Error distance threshold (in object units)
- fit_method (enum in Curve Fit Method Items, (optional)) Fit Method
- corner_angle (float in [0, 3.14159], (optional)) Corner Angle
- use cyclic (boolean, (optional)) Cyclic
- stroke (bpy prop collection of OperatorStrokeElement, (optional)) Stroke
- wait_for_input (boolean, (optional)) Wait for Input
- is curve 2d (boolean, (optional)) Curve 2D
- bezier_as_nurbs (boolean, (optional)) As NURBS

bpy.ops.curves.duplicate()

Copy selected points or curves

bpy.ops.curves.duplicate move(*, CURVES OT duplicate=None, TRANSFORM OT translate=None)

Make copies of selected elements and move them

PARAMETERS:

- CURVES_OT_duplicate (CURVES_OT_duplicate, (optional)) Duplicate, Copy selected points or curves
- $\bullet \ \, \textbf{TRANSFORM_OT_translate} \ (\, \texttt{TRANSFORM_OT_translate} \ , \ (optional)) Move, \ Move \ selected \ items \\$

bpy.ops.curves.extrude()

Extrude selected control point(s)

bpy.ops.curves.extrude move(*, CURVES OT extrude=None, TRANSFORM OT translate=None)

Extrude curve and move result

PARAMETERS:

- CURVES_OT_extrude (CURVES_OT_extrude, (optional)) Extrude, Extrude selected control point(s)
- TRANSFORM OT translate (TRANSFORM OT translate, (optional)) Move, Move selected items

bpy.ops.curves.handle type set(*, type='AUTO')

Set the handle type for bezier curves

PARAMETERS:

bpy.ops.curves.sculptmode toggle()

Enter/Exit sculpt mode for curves

bpy.ops.curves.select_all(*, action='TOGGLE')

(De)select all control points

PARAMETERS:

action (emum 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.

bpy.ops.curves.select ends(*, amount start=0, amount end=1)

Select end points of curves

PARAMETERS:

- amount start (int in [0, inf], (optional)) Amount Front, Number of points to select from the front
- amount end (int in [0, inf], (optional)) Amount Back, Number of points to select from the back

bpy.ops.curves.select_less()

Shrink the selection by one point

bpy.ops.curves.select linked()

Select all points in curves with any point selection

bpy.ops.curves.select_linked_pick(*, deselect=False)

Select all points in the curve under the cursor

PARAMETERS:

deselect (boolean, (optional)) – Deselect, Deselect linked control points rather than selecting them

bpy.ops.curves.select_more()

Grow the selection by one point

bpy.ops.curves.select random(*, seed=0, probability=0.5)

Randomizes existing selection or create new random selection

PARAMETERS:

- $\bullet \ \ \textbf{seed} \ (\textit{int in [-inf, inf], (optional)}) Seed, \ Source \ of \ randomness$
- probability (float in [0, 1], (optional)) Probability, Chance of every point or curve being included in the selection

bpy.ops.curves.set selection domain(*, domain='POINT')

Change the mode used for selection masking in curves sculpt mode

PARAMETERS:

domain (enum in Attribute Curves Domain Items, (optional)) - Domain

bpy.ops.curves.snap_curves_to_surface(*, attach_mode='NEAREST')

Move curves so that the first point is exactly on the surface mesh

PARAMETERS:

attacn_mode (enum in [TVEAKEST , DEF OKM], (optional)) -

Attach Mode, How to find the point on the surface to attach to

- NEAREST Nearest Find the closest point on the surface for the root point of every curve and move the root there.
- DEFORM Deform—Re-attach curves to a deformed surface using the existing attachment information. This only works when the topology of the surface mesh has not changed.

bpy.ops.curves.subdivide(*, number_cuts=1)

Subdivide selected curve segments

PARAMETERS:

number_cuts (int in [1, 1000], (optional)) – Number of Cuts

bpy.ops.curves.surface_set()

Use the active object as surface for selected curves objects and set it as the parent

bpy.ops.curves.switch_direction()

Reverse the direction of the selected curves

bpy.ops.curves.tilt_clear()

Clear the tilt of selected control points

Previous Curve Operators Report issue on this page Copyright © Blender Authors

Made with Furo

Cycles Operato