Skip to content **Sculpt Operators**

bpy.ops.sculpt.brush_stroke(*, stroke=None, mode='NORMAL', pen_flip=False, override_location=False, ignore_background_click=False)

Sculpt a stroke into the geometry

PARAMETERS:

- stroke (bpy_prop_collection of OperatorStrokeElement, (optional)) Stroke
- mode (enum in ['NORMAL', 'INVERT', 'SMOOTH', 'ERASE'], (optional)) –

Stroke Mode, Action taken when a paint stroke is made

- NORMAL Regular Apply brush normally.
- INVERT Invert Invert action of brush for duration of stroke.
- SMOOTH Smooth Switch brush to smooth mode for duration of stroke.
- ERASE Erase Switch brush to erase mode for duration of stroke.
- pen flip (boolean, (optional)) Pen Flip, Whether a tablet's eraser mode is being used
- **override_location** (boolean, (optional)) Override Location, Override the given location array by recalculating object space positions from the provided mouse_event positions
- ignore background click (boolean, (optional)) Ignore Background Click, Clicks on the background do not start the stroke

bpy.ops.sculpt.cloth_filter(*, start_mouse=(0, 0), area_normal_radius=0.25, strength=1.0, iteration_count=1, event_history=None, type='GRAVITY', force_axis={'X', 'Y', 'Z'}, orientation='LOCAL', cloth_mass=1.0, cloth_damping=0.0, use_face_sets=False, use_collisions=False)

Applies a cloth simulation deformation to the entire mesh

PARAMETERS:

- start_mouse (int array of 2 items in [0, 16384], (optional)) Starting Mouse
- area_normal_radius (float in [0.001, 5], (optional)) Normal Radius, Radius used for calculating area normal on initial click, in percentage of brush radius
- strength (float in [-10, 10], (optional)) Strength, Filter strength
- iteration_count (int in [1, 10000], (optional)) Repeat, How many times to repeat the filter
- type (enum in ['GRAVITY', 'INFLATE', 'EXPAND', 'PINCH', 'SCALE'], (optional)) –

Filter Type, Operation that is going to be applied to the mesh

- GRAVITY Gravity Applies gravity to the simulation.
- INFLATE Inflate Inflates the cloth.
- EXPAND Expand Expands the cloth's dimensions.
- PINCH Pinch Pulls the cloth to the cursor's start position.
- SCALE Scale Scales the mesh as a soft body using the origin of the object as scale.
- force_axis (enum set in {'X', 'Y', 'Z'}, (optional)) –

Force Axis, Apply the force in the selected axis

- \circ X X Apply force in the X axis.
- \circ Y Y Apply force in the Y axis.
- \circ Z Z Apply force in the Z axis.
- orientation (enum in ['LOCAL', 'WORLD', 'VIEW'], (optional)) –

Orientation, Orientation of the axis to limit the filter force

- LOCAL Local Use the local axis to limit the force and set the gravity direction.
- WORLD World Use the global axis to limit the force and set the gravity direction.
- \circ $\,\,$ VIEW $\,$ View Use the view axis to limit the force and set the gravity direction.

- cloth mass (float in [0, 2], (optional)) Cloth Mass, Mass of each simulation particle
- cloth damping (float in [0, 1], (optional)) Cloth Damping, How much the applied forces are propagated through the cloth
- use face sets (boolean, (optional)) Use Face Sets, Apply the filter only to the Face Set under the cursor
- use collisions (boolean, (optional)) Use Collisions, Collide with other collider objects in the scene

bpy.ops.sculpt.color_filter(*, start_mouse=(0, 0), area_normal_radius=0.25, strength=1.0, iteration_count=1, event_history=None, type='FILL', fill_color=(1.0, 1.0, 1.0))

Applies a filter to modify the active color attribute

PARAMETERS:

- start mouse (int array of 2 items in [0, 16384], (optional)) Starting Mouse
- area_normal_radius (float in [0.001, 5], (optional)) Normal Radius, Radius used for calculating area normal on initial click, in percentage of brush radius
- strength (float in [-10, 10], (optional)) Strength, Filter strength
- iteration_count (int in [1, 10000], (optional)) Repeat, How many times to repeat the filter
- type (emum in ['FILL', 'HUE', 'SATURATION', 'VALUE', 'BRIGHTNESS', 'CONTRAST', 'SMOOTH', 'RED', 'GREEN', 'BLUE'], (optional)) –

Filter Type

- FILL Fill Fill with a specific color.
- HUE Hue Change hue.
- SATURATION Saturation Change saturation.
- VALUE Value Change value.
- BRIGHTNESS Brightness Change brightness.
- CONTRAST Contrast Change contrast.
- SMOOTH Smooth Smooth colors.
- $\verb| o RED Red-Change red channel|. \\$
- GREEN Green Change green channel.
- BLUE Blue Change blue channel.
- fill_color (mathutils.Color of 3 items in [0, inf], (optional)) Fill Color

bpy.ops.sculpt.detail flood fill()

Flood fill the mesh with the selected detail setting

bpy.ops.sculpt.dynamic topology toggle()

Dynamic topology alters the mesh topology while sculpting

bpy.ops.sculpt.dyntopo_detail_size_edit()

Modify the detail size of dyntopo interactively

bpy.ops.sculpt.expand(*, target='MASK', falloff_type='GEODESIC', invert=False, use_mask_preserve=False, use_falloff_gradient=False, use_modify_active=False, use_reposition_pivot=True, max_geodesic_move_preview=10000, use_auto_mask=False, normal_falloff_smooth=2)

Generic sculpt expand operator

PARAMETERS:

- target (enum in ['MASK', 'FACE SETS', 'COLOR'], (optional)) Data Target, Data that is going to be modified in the expand operation
- falloff_type (enum in ['GEODESIC', 'TOPOLOGY', 'TOPOLOGY_DIAGONALS', 'NORMALS', 'SPHERICAL', 'BOUNDARY_TOPOLOGY', 'BOUNDARY_FACE_SET', 'ACTIVE_FACE_SET'], (optional)) Falloff Type, Initial falloff of the expand operation
- invert (boolean, (optional)) Invert, Invert the expand active elements
- use mask preserve (boolean, (optional)) Preserve Previous, Preserve the previous state of the target data
- use falloff gradient (boolean, (optional)) Falloff Gradient, Expand Using a linear falloff

- use modify active (boolean, (optional)) Modify Active, Modify the active Face Set instead of creating a new one
- use_reposition_pivot (boolean, (optional)) Reposition Pivot, Reposition the sculpt transform pivot to the boundary of the expand active
 area
- max_geodesic_move_preview (int in [0, inf], (optional)) Max Vertex Count for Geodesic Move Preview, Maximum number of vertice in the mesh for using geodesic falloff when moving the origin of expand. If the total number of vertices is greater than this value, the falloff will be set to spherical when moving
- use auto mask (boolean, (optional)) Auto Create, Fill in mask if nothing is already masked
- normal_falloff_smooth (int in [0, 10], (optional)) Normal Smooth, Blurring steps for normal falloff

bpy.ops.sculpt.face set box gesture(*, xmin=0, xmax=0, ymin=0, ymax=0, wait for input=True, use front faces only=False)

Add a face set in a rectangle defined by the cursor

PARAMETERS:

- xmin (int in [-inf, inf], (optional)) X Min
- xmax (int in [-inf, inf], (optional)) X Max
- ymin (int in [-inf, inf], (optional)) Y Min
- ymax (int in [-inf, inf], (optional)) Y Max
- wait for input (boolean, (optional)) Wait for Input
- use front faces only (boolean, (optional)) Front Faces Only, Affect only faces facing towards the view

bpy.ops.sculpt.face_set_change_visibility(*, mode='TOGGLE')

Change the visibility of the Face Sets of the sculpt

PARAMETERS:

mode (enum in ['TOGGLE', 'SHOW_ACTIVE', 'HIDE_ACTIVE'], (optional)) -

Mode

- TOGGLE Toggle Visibility Hide all Face Sets except for the active one.
- SHOW ACTIVE Show Active Face Set Show Active Face Set.
- HIDE ACTIVE Hide Active Face Sets Hide Active Face Sets.

bpy.ops.sculpt.face_set_edit(*, active_face_set=1, mode='GROW', strength=1.0, modify_hidden=False)

Edits the current active Face Set

PARAMETERS:

- active face set (int in [0, inf], (optional)) Active Face Set
- mode (enum in ['GROW', 'SHRINK', 'DELETE_GEOMETRY', 'FAIR_POSITIONS', 'FAIR_TANGENCY'], (optional)) —
 Mode
 - GROW Grow Face Set Grows the Face Sets boundary by one face based on mesh topology.
 - SHRINK Shrink Face Set Shrinks the Face Sets boundary by one face based on mesh topology.
 - DELETE GEOMETRY Delete Geometry Deletes the faces that are assigned to the Face Set.
 - FAIR_POSITIONS Fair Positions Creates a smooth as possible geometry patch from the Face Set minimizing changes in vertex positions.
 - FAIR_TANGENCY Fair Tangency Creates a smooth as possible geometry patch from the Face Set minimizing changes in vertex tangents.
- **strength** (*float in* [0, 1], (optional)) Strength
- modify hidden (boolean, (optional)) Modify Hidden, Apply the edit operation to hidden geometry

bpy.ops.sculpt.face_set_lasso_gesture(*, path=None, use_smooth_stroke=False, smooth_stroke_factor=0.75, smooth_stroke_radius=35, use_front_faces_only=False)

Add a face set in a shape defined by the cursor

PARAMETERS:

- path (bpy prop collection of OperatorMousePath, (optional)) Path
- use smooth stroke (boolean, (optional)) Stabilize Stroke, Selection lags behind mouse and follows a smoother path
- smooth_stroke_factor (float in [0.5, 0.99], (optional)) Smooth Stroke Factor, Higher values gives a smoother stroke
- smooth_stroke_radius (int in [10, 200], (optional)) Smooth Stroke Radius, Minimum distance from last point before selection continues
- use_front_faces_only (boolean, (optional)) Front Faces Only, Affect only faces facing towards the view

bpy.ops.sculpt.face_set_line_gesture(*, xstart=0, xend=0, ystart=0, yend=0, flip=False, cursor=5, use_front_faces_only=False, use_limit_to_segment=False)

Add a face set to one side of a line defined by the cursor

PARAMETERS:

- xstart (int in [-inf, inf], (optional)) X Start
- **xend** (int in [-inf, inf], (optional)) X End
- ystart (int in [-inf, inf], (optional)) Y Start
- yend (int in [-inf, inf], (optional)) Y End
- **flip** (boolean, (optional)) Flip
- **cursor** (int in [0, inf], (optional)) Cursor, Mouse cursor style to use during the modal operator
- use front faces only (boolean, (optional)) Front Faces Only, Affect only faces facing towards the view
- use_limit_to_segment (boolean, (optional)) Limit to Segment, Apply the gesture action only to the area that is contained within the segment without extending its effect to the entire line

bpy.ops.sculpt.face set polyline gesture(*, path=None, use front faces only=False)

Add a face set in a shape defined by the cursor

PARAMETERS:

- path (bpy prop collection of OperatorMousePath, (optional)) Path
- use_front_faces_only (boolean, (optional)) Front Faces Only, Affect only faces facing towards the view

bpy.ops.sculpt.face_sets_create(*, mode='MASKED')

Create a new Face Set

PARAMETERS:

mode (enum in ['MASKED', 'VISIBLE', 'ALL', 'SELECTION'], (optional)) -

Mode

- MASKED Face Set from Masked Create a new Face Set from the masked faces.
- VISIBLE Face Set from Visible Create a new Face Set from the visible vertices.
- ALL Face Set Full Mesh Create an unique Face Set with all faces in the sculpt.
- SELECTION Face Set from Edit Mode Selection Create an Face Set corresponding to the Edit Mode face selection.

bpy.ops.sculpt.face_sets_init(*, mode='LOOSE_PARTS', threshold=0.5)

Initializes all Face Sets in the mesh

PARAMETERS:

• mode (enum in ['LOOSE_PARTS', 'MATERIALS', 'NORMALS', 'UV_SEAMS', 'CREASES', 'BEVEL_WEIGHT', 'SHARP_EDGES', 'FACE_SET_BOUNDARIES'], (optional)) –

Mode

- LOOSE PARTS Face Sets from Loose Parts Create a Face Set per loose part in the mesh.
- $\verb| OMATERIALS| Face Sets from Material Slots Create a Face Set per Material Slot. \\$
- NORMALS Face Sets from Mesh Normals Create Face Sets for Faces that have similar normal.
- UV SEAMS Face Sets from UV Seams Create Face Sets using UV Seams as boundaries.
- CREASES Face Sets from Edge Creases Create Face Sets using Edge Creases as boundaries.
- O DEVIET METCHT Face Sets from Revel Weight _ Create Face Sets using Revel Weights as houndaries

- DEVEE WEIGHT I acc DOD HOHIDEVE WEIGH Clear I acc DOD HOHIS DEVEL WEIGHS AS DOUBLANDS.
- SHARP_EDGES Face Sets from Sharp Edges Create Face Sets using Sharp Edges as boundaries.
- FACE SET BOUNDARIES Face Sets from Face Set Boundaries Create a Face Set per isolated Face Set.
- threshold (float in [0, 1], (optional)) Threshold, Minimum value to consider a certain attribute a boundary when creating the Face Sets

bpy.ops.sculpt.face_sets_randomize_colors()

Generates a new set of random colors to render the Face Sets in the viewport

bpy.ops.sculpt.mask by color(*, contiguous=False, invert=False, preserve previous mask=False, threshold=0.35)

Creates a mask based on the active color attribute

PARAMETERS:

- contiguous (boolean, (optional)) Contiguous, Mask only contiguous color areas
- invert (boolean, (optional)) Invert, Invert the generated mask
- preserve_previous_mask (boolean, (optional)) Preserve Previous Mask, Preserve the previous mask and add or subtract the new one generated by the colors
- threshold (float in [0, 1], (optional)) Threshold, How much changes in color affect the mask generation

bpy.ops.sculpt.mask filter(*, filter type='SMOOTH', iterations=1, auto iteration count=True)

Applies a filter to modify the current mask

PARAMETERS:

- filter_type (emum in ['SMOOTH', 'SHARPEN', 'GROW', 'SHRINK', 'CONTRAST_INCREASE', 'CONTRAST_DECREASE'], (optional, Type, Filter that is going to be applied to the mask
- iterations (int in [1, 100], (optional)) Iterations, Number of times that the filter is going to be applied
- auto_iteration_count (boolean, (optional)) Auto Iteration Count, Use an automatic number of iterations based on the number of vertices the sculpt

bpy.ops.sculpt.mask_from_boundary(*, mix_mode='MIX', mix_factor=1.0, settings_source='OPERATOR', boundary_mode='MESH', propagation_steps=1)

Creates a mask based on the boundaries of the surface

PARAMETERS:

- mix mode (enum in ['MIX', 'MULTIPLY', 'DIVIDE', 'ADD', 'SUBTRACT'], (optional)) Mode, Mix mode
- mix factor (float in [0, 5], (optional)) Mix Factor
- settings_source (enum in ['OPERATOR', 'BRUSH', 'SCENE'], (optional)) –

Settings, Use settings from here

- \circ $\,$ OPERATOR $\,$ Operator Use settings from operator properties.
- BRUSH Brush Use settings from brush.
- SCENE Scene Use settings from scene.
- boundary_mode (enum in ['MESH', 'FACE_SETS'], (optional)) –

Mode, Boundary type to mask

- MESH Mesh Calculate the boundary mask based on disconnected mesh topology islands.
- FACE SETS Face Sets Calculate the boundary mask between face sets.
- propagation steps (int in [1, 20], (optional)) Propagation Steps

bpy.ops.sculpt.mask_from_cavity(*, mix_mode='MIX', mix_factor=1.0, settings_source='OPERATOR', factor=0.5, blur_steps=2, use curve=False, invert=False)

Creates a mask based on the curvature of the surface

PARAMETERS:

• mix_mode (emm in ['MIX', 'MULTIPLY', 'DIVIDE', 'ADD', 'SUBTRACT'], (optional)) – Mode, Mix mode

- mix_factor (float in [0, 5], (optional)) Mix Factor
- settings_source (enum in ['OPERATOR', 'BRUSH', 'SCENE'], (optional)) –

Settings, Use settings from here

- OPERATOR Operator Use settings from operator properties.
- BRUSH Brush Use settings from brush.
- SCENE Scene Use settings from scene.
- factor (float in [0, 5], (optional)) Factor, The contrast of the cavity mask
- blur_steps (int in [0, 25], (optional)) Blur, The number of times the cavity mask is blurred
- use curve (boolean, (optional)) Custom Curve
- invert (boolean, (optional)) Cavity (Inverted)

bpy.ops.sculpt.mask_init(*, mode='RANDOM_PER_VERTEX')

Creates a new mask for the entire mesh

PARAMETERS:

mode (enum in ['RANDOM PER VERTEX', 'RANDOM PER FACE SET', 'RANDOM PER LOOSE PART'], (optional)) - Mode

bpy.ops.sculpt.mesh_filter(*, start_mouse=(0, 0), area_normal_radius=0.25, strength=1.0, iteration_count=1, event_history=None, type='INFLATE', deform_axis={'X', 'Y', 'Z'}, orientation='LOCAL', surface_smooth_shape_preservation=0.5, surface_smooth_current_vertex=0.5, sharpen_smooth_ratio=0.35, sharpen_intensify_detail_strength=0.0, sharpen_curvature_smooth_iterations=0)

Applies a filter to modify the current mesh

PARAMETERS:

- start mouse (int array of 2 items in [0, 16384], (optional)) Starting Mouse
- area_normal_radius (float in [0.001, 5], (optional)) Normal Radius, Radius used for calculating area normal on initial click, in percentage
 of brush radius
- **strength** (*float in* [-10, 10], (optional)) Strength, Filter strength
- iteration count (int in [1, 10000], (optional)) Repeat, How many times to repeat the filter
- type (enum in ['SMOOTH', 'SCALE', 'INFLATE', 'SPHERE', 'RANDOM', 'RELAX', 'RELAX_FACE_SETS', 'SURFACE_SMOOTH', 'SHARPEN', 'ENHANCE DETAILS', 'ERASE DISPLACEMENT'], (optional))—

Filter Type, Operation that is going to be applied to the mesh

- SMOOTH Smooth Smooth mesh.
- SCALE Scale Scale mesh.
- INFLATE Inflate Inflate mesh.
- SPHERE Sphere Morph into sphere.
- RANDOM Random-Randomize vertex positions.
- RELAX Relax Relax mesh.
- RELAX FACE SETS Relax Face Sets Smooth the edges of all the Face Sets.
- SURFACE SMOOTH Surface Smooth Smooth the surface of the mesh, preserving the volume.
- SHARPEN Sharpen Sharpen the cavities of the mesh.
- ENHANCE DETAILS Enhance Details Enhance the high frequency surface detail.
- ERASE DISPLACEMENT Erase Displacement Deletes the displacement of the Multires Modifier.
- **deform_axis** (enum set in {'X', 'Y', 'Z'}, (optional)) –

Deform Axis, Apply the deformation in the selected axis

- \circ X X Deform in the X axis.
- \circ Y Y Deform in the Y axis.
- \circ Z Z Deform in the Z axis.
- orientation (enum in ['LOCAL', 'WORLD', 'VIEW'], (optional))—

Orientation Orientation of the axis to limit the filter displacement

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- LOCAL Local Use the local axis to limit the displacement.
- WORLD World Use the global axis to limit the displacement.
- VIEW View Use the view axis to limit the displacement.
- surface_smooth_shape_preservation (float in [0, 1], (optional)) Shape Preservation, How much of the original shape is preserved wh smoothing
- surface_smooth_current_vertex (*float in [0, 1], (optional*)) Per Vertex Displacement, How much the position of each individual vertex influences the final result
- sharpen smooth ratio (float in [0, 1], (optional)) Smooth Ratio, How much smoothing is applied to polished surfaces
- sharpen_intensify_detail_strength (float in [0, 10], (optional)) Intensify Details, How much creases and valleys are intensified
- **sharpen_curvature_smooth_iterations** (*int in [0, 10], (optional)*) Curvature Smooth Iterations, How much smooth the resulting shape ignoring high frequency details

bpy.ops.sculpt.optimize()

Recalculate the sculpt BVH to improve performance

bpy.ops.sculpt.project_line_gesture(*, xstart=0, xend=0, ystart=0, yend=0, flip=False, cursor=5, use_front_faces_only=False, use_limit_to_segment=False)

Project the geometry onto a plane defined by a line

PARAMETERS:

- xstart (int in [-inf, inf], (optional)) X Start
- **xend** (*int in [-inf, inf], (optional*)) X End
- ystart (int in [-inf, inf], (optional)) Y Start
- yend (int in [-inf, inf], (optional)) Y End
- **flip** (boolean, (optional)) Flip
- **cursor** (int in [0, inf], (optional)) Cursor, Mouse cursor style to use during the modal operator
- use front faces only (boolean, (optional)) Front Faces Only, Affect only faces facing towards the view
- use_limit_to_segment (boolean, (optional)) Limit to Segment, Apply the gesture action only to the area that is contained within the segment without extending its effect to the entire line

bpy.ops.sculpt.sample_color()

Sample the vertex color of the active vertex

bpy.ops.sculpt.sample detail size(*, location=(0, 0), mode='DYNTOPO')

Sample the mesh detail on clicked point

PARAMETERS:

- location (int array of 2 items in [0, 32767], (optional)) Location, Screen coordinates of sampling
- mode (enum in ['DYNTOPO', 'VOXEL'], (optional)) –

Detail Mode, Target sculpting workflow that is going to use the sampled size

- DYNTOPO Dyntopo Sample dyntopo detail.
- VOXEL Voxel Sample mesh voxel size.

bpy.ops.sculpt.sculptmode toggle()

Toggle sculpt mode in 3D view

bpy.ops.sculpt.set persistent base()

Reset the copy of the mesh that is being sculpted on

bpy.ops.sculpt.set pivot position(*, mode='UNMASKED', mouse x=0.0, mouse y=0.0)

Sets the sculpt transform pivot position

PARAMETERS:

- mode (enum in ['ORIGIN', 'UNMASKED', 'BORDER', 'ACTIVE', 'SURFACE'], (optional)) –
 Mode
 - ORIGIN Origin Sets the pivot to the origin of the sculpt.
 - UNMASKED Unmasked Sets the pivot position to the average position of the unmasked vertices.
 - BORDER Mask Border Sets the pivot position to the center of the border of the mask.
 - ACTIVE Active Vertex Sets the pivot position to the active vertex position.
 - SURFACE Surface Sets the pivot position to the surface under the cursor.
- mouse x (float in [0, inf], (optional)) Mouse Position X, Position of the mouse used for "Surface" mode
- mouse y (float in [0, inf], (optional)) Mouse Position Y, Position of the mouse used for "Surface" mode

bpy.ops.sculpt.symmetrize(*, merge tolerance=0.0005)

Symmetrize the topology modifications

PARAMETERS:

merge_tolerance (float in [0, inf], (optional)) - Merge Distance, Distance within which symmetrical vertices are merged

bpy.ops.sculpt.trim_box_gesture(*, xmin=0, xmax=0, ymin=0, ymax=0, wait_for_input=True, use_front_faces_only=False, location=(0, 0), trim_mode='DIFFERENCE', use_cursor_depth=False, trim_orientation='VIEW', trim_extrude_mode='FIXED', trim_solver='FAST')

Execute a boolean operation on the mesh and a rectangle defined by the cursor

PARAMETERS:

- xmin (int in [-inf, inf], (optional)) X Min
- xmax (int in [-inf, inf], (optional)) X Max
- ymin (int in [-inf, inf], (optional)) Y Min
- ymax (int in [-inf, inf], (optional)) Y Max
- wait_for_input (boolean, (optional)) Wait for Input
- use_front_faces_only (boolean, (optional)) Front Faces Only, Affect only faces facing towards the view
- location (int array of 2 items in [-inf, inf], (optional)) Location, Mouse location
- trim_mode (enum in ['DIFFERENCE', 'UNION', 'JOIN'], (optional)) -

Trim Mode

- DIFFERENCE Difference Use a difference boolean operation.
- UNION Union Use a union boolean operation.
- JOIN Join Join the new mesh as separate geometry, without performing any boolean operation.
- use_cursor_depth (boolean, (optional)) Use Cursor for Depth, Use cursor location and radius for the dimensions and position of the trimming shape
- trim_orientation (enum in ['VIEW', 'SURFACE'], (optional)) –

Shape Orientation

- VIEW View Use the view to orientate the trimming shape.
- $\begin{tabular}{ll} \bullet & {\tt SURFACE} & {\tt Surface} {\tt Use} & {\tt the surface} & {\tt normal to} & {\tt orientate} & {\tt the trimming shape}. \\ \end{tabular}$
- trim_extrude_mode (enum in ['PROJECT', 'FIXED'], (optional)) –

Extrude Mode

- PROJECT Project Align trim geometry with the perspective of the current view for a tapered shape.
- FIXED Fixed Align trim geometry orthogonally for a shape with 90 degree angles.
- trim solver (enum in ['EXACT', 'FAST'], (optional)) —

Solver

• EXACT Exact – Use the exact boolean solver.

• FAST Fast – Use the fast float boolean solver.

bpy.ops.sculpt.trim_lasso_gesture(*, path=None, use_smooth_stroke=False, smooth_stroke_factor=0.75, smooth_stroke_radius=35, use_front_faces_only=False, location=(0, 0), trim_mode='DIFFERENCE', use_cursor_depth=False, trim_orientation='VIEW', trim_extrude_mode='FIXED', trim_solver='FAST')

Execute a boolean operation on the mesh and a shape defined by the cursor

PARAMETERS:

- path (bpy prop collection of OperatorMousePath, (optional)) Path
- use smooth stroke (boolean, (optional)) Stabilize Stroke, Selection lags behind mouse and follows a smoother path
- smooth stroke factor (float in [0.5, 0.99], (optional)) Smooth Stroke Factor, Higher values gives a smoother stroke
- smooth stroke radius (int in [10, 200], (optional)) Smooth Stroke Radius, Minimum distance from last point before selection continues
- use front faces only (boolean, (optional)) Front Faces Only, Affect only faces facing towards the view
- location (int array of 2 items in [-inf, inf], (optional)) Location, Mouse location
- trim mode (enum in ['DIFFERENCE', 'UNION', 'JOIN'], (optional)) —

Trim Mode

- DIFFERENCE Difference Use a difference boolean operation.
- UNION Union Use a union boolean operation.
- JOIN Join Join the new mesh as separate geometry, without performing any boolean operation.
- use_cursor_depth (boolean, (optional)) Use Cursor for Depth, Use cursor location and radius for the dimensions and position of the trimming shape
- trim orientation (enum in ['VIEW', 'SURFACE'], (optional)) –

Shape Orientation

- VIEW View Use the view to orientate the trimming shape.
- SURFACE Surface Use the surface normal to orientate the trimming shape.
- trim extrude mode (enum in ['PROJECT', 'FIXED'], (optional)) –

Extrude Mode

- PROJECT Project Align trim geometry with the perspective of the current view for a tapered shape.
- FIXED Fixed Align trim geometry orthogonally for a shape with 90 degree angles.
- trim_solver (enum in ['EXACT', 'FAST'], (optional)) —

Solver

- EXACT Exact Use the exact boolean solver.
- \circ FAST Fast Use the fast float boolean solver.

bpy.ops.sculpt.trim_line_gesture(*, xstart=0, xend=0, ystart=0, yend=0, flip=False, cursor=5, use_front_faces_only=False, use_limit_to_segment=False, location=(0, 0), trim_mode='DIFFERENCE', use_cursor_depth=False, trim_orientation='VIEW', trim_extrude_mode='FIXED', trim_solver='FAST')

Remove a portion of the mesh on one side of a line

PARAMETERS:

- xstart (int in [-inf, inf], (optional)) X Start
- **xend** (int in [-inf, inf], (optional)) X End
- ystart (int in [-inf, inf], (optional)) Y Start
- yend (int in [-inf, inf], (optional)) Y End
- **flip** (boolean, (optional)) Flip
- cursor (int in [0, inf], (optional)) Cursor, Mouse cursor style to use during the modal operator
- use_front_faces_only (boolean, (optional)) Front Faces Only, Affect only faces facing towards the view
- use_limit_to_segment (boolean, (optional)) Limit to Segment, Apply the gesture action only to the area that is contained within the segment without extending its effect to the entire line

- **location** (*int array of 2 items in |-inf, inf|, (optional)*) Location, Mouse location
- trim_mode (enum in ['DIFFERENCE', 'UNION', 'JOIN'], (optional)) –

Trim Mode

- DIFFERENCE Difference Use a difference boolean operation.
- UNION Union Use a union boolean operation.
- JOIN Join Join the new mesh as separate geometry, without performing any boolean operation.
- use_cursor_depth (boolean, (optional)) Use Cursor for Depth, Use cursor location and radius for the dimensions and position of the trimming shape
- trim_orientation (enum in ['VIEW', 'SURFACE'], (optional))—

Shape Orientation

- VIEW View Use the view to orientate the trimming shape.
- SURFACE Surface Use the surface normal to orientate the trimming shape.
- trim_extrude_mode (enum in ['PROJECT', 'FIXED'], (optional)) –

Extrude Mode

- PROJECT Project Align trim geometry with the perspective of the current view for a tapered shape.
- FIXED Fixed Align trim geometry orthogonally for a shape with 90 degree angles.
- trim_solver (enum in ['EXACT', 'FAST'], (optional)) –

Solver

- EXACT Exact Use the exact boolean solver.
- FAST Fast Use the fast float boolean solver.

bpy.ops.sculpt.trim_polyline_gesture(*, path=None, use_front_faces_only=False, location=(0, 0), trim_mode='DIFFERENCE', use_cursor_depth=False, trim_orientation='VIEW', trim_extrude_mode='FIXED', trim_solver='FAST')

Execute a boolean operation on the mesh and a polygonal shape defined by the cursor

PARAMETERS:

- $\bullet \hspace{0.2cm} \textbf{path} \hspace{0.1cm} (\hspace{0.1cm} \texttt{bpy_prop_collection} \hspace{0.2cm} \textbf{of} \hspace{0.1cm} \texttt{OperatorMousePath} \hspace{0.1cm}, \hspace{0.1cm} \textbf{(optional)}) Path \\$
- use_front_faces_only (boolean, (optional)) Front Faces Only, Affect only faces facing towards the view
- location (int array of 2 items in [-inf, inf], (optional)) Location, Mouse location
- trim_mode (enum in ['DIFFERENCE', 'UNION', 'JOIN'], (optional))—

Trim Mode

- \circ $\,$ DIFFERENCE $\,$ Difference Use a difference boolean operation.
- \circ UNION Union Use a union boolean operation.
- \circ JOIN Join Join the new mesh as separate geometry, without performing any boolean operation.
- use_cursor_depth (boolean, (optional)) Use Cursor for Depth, Use cursor location and radius for the dimensions and position of the trimming shape
- trim orientation (enum in ['VIEW', 'SURFACE'], (optional)) –

Shape Orientation

- VIEW View Use the view to orientate the trimming shape.
- SURFACE Surface Use the surface normal to orientate the trimming shape.
- trim extrude mode (enum in ['PROJECT', 'FIXED'], (optional)) –

Extrude Mode

- PROJECT Project Align trim geometry with the perspective of the current view for a tapered shape.
- FIXED Fixed Align trim geometry orthogonally for a shape with 90 degree angles.
- trim solver (enum in ['EXACT', 'FAST'], (optional)) –

Solver

- EXACT Exact Use the exact boolean solver.
- FAST Fast Use the fast float boolean solver.

bpy.ops.sculpt.uv_sculpt_grab(*, use_invert=False)

Grab UVs

PARAMETERS:

use invert (boolean, (optional)) - Invert, Invert action for the duration of the stroke

bpy.ops.sculpt.uv_sculpt_pinch(*, use_invert=False)

Pinch UVs

PARAMETERS:

use_invert (boolean, (optional)) - Invert, Invert action for the duration of the stroke

 $bpy.ops.sculpt.uv_sculpt_relax(*, use_invert=False, relax_method='COTAN')$

Relax UVs

PARAMETERS:

- use_invert (boolean, (optional)) Invert, Invert action for the duration of the stroke
- relax_method (emm in ['LAPLACIAN', 'HC', 'COTAN'], (optional)) —
 Relax Method, Algorithm used for UV relaxation
 - LAPLACIAN Laplacian Use Laplacian method for relaxation.
 - HC HC Use HC method for relaxation.
 - COTAN Geometry Use Geometry (cotangent) relaxation, making UVs follow the underlying 3D geometry.

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