Skip to content **Uv Operators**

bpy.ops.uv.align(*, axis='ALIGN AUTO')

Aligns selected UV vertices on a line

PARAMETERS:

axis (emm in ['ALIGN_S', 'ALIGN_T', 'ALIGN_U', 'ALIGN_AUTO', 'ALIGN_X', 'ALIGN_Y'], (optional))—

Axis, Axis to align UV locations on

- ALIGN S Straighten Align UV vertices along the line defined by the endpoints.
- ALIGN T Straighten X Align UV vertices, moving them horizontally to the line defined by the endpoints.
- ALIGN U Straighten Y Align UV vertices, moving them vertically to the line defined by the endpoints.
- ALIGN AUTO Align Auto Automatically choose the direction on which there is most alignment already.
- ALIGN X Align Vertically Align UV vertices on a vertical line.
- ALIGN Y Align Horizontally Align UV vertices on a horizontal line.

bpy.ops.uv.align rotation(*, method='AUTO', axis='X', correct aspect=False)

Align the UV island's rotation

PARAMETERS:

• method (enum in ['AUTO', 'EDGE', 'GEOMETRY'], (optional)) –

Method, Method to calculate rotation angle

- AUTO Auto Align from all edges.
- EDGE Edge Only selected edges.
- GEOMETRY Geometry Align to Geometry axis.
- **axis** (enum in ['X', 'Y', 'Z'], (optional)) –

Axis, Axis to align to

- ∘ x X X axis.
- \circ Y Y Y axis.
- \circ Z Z Z axis.
- correct_aspect (boolean, (optional)) Correct Aspect, Take image aspect ratio into account

FILE:

startup/bl operators/uvcalc transform.py:299

bpy.ops.uv.average islands scale(*, scale uv=False, shear=False)

Average the size of separate UV islands, based on their area in 3D space

PARAMETERS:

- scale_uv (boolean, (optional)) Non-Uniform, Scale U and V independently
- shear (boolean, (optional)) Shear, Reduce shear within islands

bpy.ops.uv.copy()

Copy selected UV vertices

bpy.ops.uv.cube_project(*, cube_size=1.0, correct_aspect=True, clip_to_bounds=False, scale_to_bounds=False)

Project the UV vertices of the mesh over the six faces of a cube

- **cube_size** (*float in [0, inf], (optional)*) Cube Size, Size of the cube to project on
- correct_aspect (boolean, (optional)) Correct Aspect, Map UVs taking aspect ratio of the image associated with the material into account

- clip to bounds (boolean, (optional)) Clip to Bounds, Clip UV coordinates to bounds after unwrapping
- scale to bounds (boolean, (optional)) Scale to Bounds, Scale UV coordinates to bounds after unwrapping

bpy.ops.uv.cursor set(*, location=(0.0, 0.0))

Set 2D cursor location

PARAMETERS:

location (mathutils. Vector of 2 items in [-inf, inf], (optional)) - Location, Cursor location in normalized (0.0 to 1.0) coordinates

bpy.ops.uv.cylinder_project(*, direction='VIEW_ON_EQUATOR', align='POLAR_ZX', pole='PINCH', seam=False, radius=1.0, correct_aspect=True, clip_to_bounds=False, scale_to_bounds=False)

Project the UV vertices of the mesh over the curved wall of a cylinder

PARAMETERS:

- direction (emm in ['VIEW_ON_EQUATOR', 'VIEW_ON_POLES', 'ALIGN_TO_OBJECT'], (optional)) —
 Direction, Direction of the sphere or cylinder
 - VIEW_ON_EQUATOR View on Equator 3D view is on the equator.
 - VIEW ON POLES View on Poles 3D view is on the poles.
 - $\verb| Object-Align according to object transform | \\$
- align (enum in ['POLAR ZX', 'POLAR ZY'], (optional)) –

Align, How to determine rotation around the pole

- POLAR_ZX Polar ZX Polar 0 is X.
- POLAR_ZY Polar ZY Polar 0 is Y.
- pole (enum in ['PINCH', 'FAN'], (optional)) –

Pole, How to handle faces at the poles

- PINCH Pinch UVs are pinched at the poles.
- \circ FAN Fan UVs are fanned at the poles.
- seam(boolean, (optional)) Preserve Seams, Separate projections by islands isolated by seams
- radius (float in [0, inf], (optional)) Radius, Radius of the sphere or cylinder
- correct aspect (boolean, (optional)) Correct Aspect, Map UVs taking aspect ratio of the image associated with the material into account
- clip to bounds (boolean, (optional)) Clip to Bounds, Clip UV coordinates to bounds after unwrapping
- scale to bounds (boolean, (optional)) Scale to Bounds, Scale UV coordinates to bounds after unwrapping

bpy.ops.uv.export_layout(*, filepath="', export_all=False, export_tiles='NONE', modified=False, mode='PNG', size=(1024, 1024), opacity=0.25, check_existing=True)

Export UV layout to file

PARAMETERS:

- filepath (string, (optional, never None)) filepath
- export all (boolean, (optional)) All UVs, Export all UVs in this mesh (not just visible ones)
- export tiles (emum in ['NONE', 'UDIM', 'UV'], (optional)) –

Export Tiles, Choose whether to export only the [0, 1] range, or all UV tiles

- NONE None Export only UVs in the [0, 1] range.
- UDIM UDIM Export tiles in the UDIM numbering scheme: 1001 + u tile + 10*v tile.
- \circ UV UVTILE Export tiles in the UVTILE numbering scheme: u(u tile + 1) v(v tile + 1).
- modified (boolean, (optional)) Modified, Exports UVs from the modified mesh
- mode (enum in ['SVG', 'EPS', 'PNG'], (optional)) –

Format, File format to export the UV layout to

• SVG Scalable Vector Graphic (.svg) - Export the UV layout to a vector SVG file.

- EPS Encapsulated PostScript (.eps) Export the UV layout to a vector EPS file.
- PNG PNG Image (.png) Export the UV layout to a bitmap image.
- size (int array of 2 items in [8, 32768], (optional)) Size, Dimensions of the exported file
- opacity (float in [0, 1], (optional)) Fill Opacity, Set amount of opacity for exported UV layout
- check existing (boolean, (optional)) check existing

FILE:

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addons_core/io_mesh_uv_layout/__init__.py:137
```

bpy.ops.uv.follow_active_quads(*, mode='LENGTH_AVERAGE')

Follow UVs from active quads along continuous face loops

PARAMETERS:

mode (emim in ['EVEN', 'LENGTH', 'LENGTH AVERAGE'], (optional)) –

Edge Length Mode, Method to space UV edge loops

- EVEN Even Space all UVs evenly.
- LENGTH Length Average space UVs edge length of each loop.
- LENGTH AVERAGE Length Average Average space UVs edge length of each loop.

FILE:

startup/bl_operators/uvcalc_follow_active.py:297

bpy.ops.uv.hide(*, unselected=False)

Hide (un)selected UV vertices

PARAMETERS:

unselected (boolean, (optional)) – Unselected, Hide unselected rather than selected

bpy.ops.uv.lightmap_pack(*, PREF_CONTEXT='SEL_FACES', PREF_PACK_IN_ONE=True, PREF_NEW_UVLAYER=False, PREF_BOX_DIV=12, PREF_MARGIN_DIV=0.1)

Pack each face's UVs into the UV bounds

PARAMETERS:

• PREF CONTEXT (emim in ['SEL FACES', 'ALL FACES'], (optional))—

Selection

- SEL FACES Selected Faces Space all UVs evenly.
- ALL_FACES All Faces Average space UVs edge length of each loop.
- PREF PACK IN ONE (boolean, (optional)) Share Texture Space, Objects share texture space, map all objects into a single UV map
- PREF NEW UVLAYER (boolean, (optional)) New UV Map, Create a new UV map for every mesh packed
- PREF_BOX_DIV (int in [1, 48], (optional)) Pack Quality, Quality of the packing. Higher values will be slower but waste less space
- PREF MARGIN DIV (float in [0.001, 1], (optional)) Margin, Size of the margin as a division of the UV

FILE:

startup/bl operators/uvcalc lightmap.py:662

bpy.ops.uv.mark_seam(*, clear=False)

Mark selected UV edges as seams

PARAMETERS:

clear (boolean, (optional)) - Clear Seams, Clear instead of marking seams

bpy.ops.uv.minimize_stretch(*, fill_holes=True, blend=0.0, iterations=0)

Reduce UV stretching by relaxing angles

PARAMETERS:

- fill_holes (boolean, (optional)) Fill Holes, Virtually fill holes in mesh before unwrapping, to better avoid overlaps and preserve symmetry
- blend (float in [0, 1], (optional)) Blend, Blend factor between stretch minimized and original
- iterations (int in [0, inf], (optional)) Iterations, Number of iterations to run, 0 is unlimited when run interactively

bpy.ops.uv.pack_islands(*, udim_source='CLOSEST_UDIM', rotate=True, rotate_method='ANY', scale=True, merge_overlap=False, margin_method='SCALED', margin=0.001, pin=False, pin_method='LOCKED', shape_method='CONCAVE')

Transform all islands so that they fill up the UV/UDIM space as much as possible

PARAMETERS:

- udim_source (emim in ['CLOSEST_UDIM', 'ACTIVE_UDIM', 'ORIGINAL_AABB'], (optional)) Pack to
 - CLOSEST UDIM Closest UDIM Pack islands to closest UDIM.
 - ACTIVE UDIM Active UDIM Pack islands to active UDIM image tile or UDIM grid tile where 2D cursor is located.
 - ORIGINAL AABB Original bounding box Pack to starting bounding box of islands.
- rotate (boolean, (optional)) Rotate, Rotate islands to improve layout
- rotate_method (enum in ['ANY', 'CARDINAL', 'AXIS_ALIGNED', 'AXIS_ALIGNED_X', 'AXIS_ALIGNED_Y'], (optional))—
 Rotation Method
 - ANY Any Any angle is allowed for rotation.
 - CARDINAL Cardinal Only 90 degree rotations are allowed.
 - AXIS ALIGNED Axis-aligned Rotated to a minimal rectangle, either vertical or horizontal.
 - AXIS ALIGNED X Axis-aligned (Horizontal) Rotate islands to be aligned horizontally.
 - AXIS ALIGNED Y Axis-aligned (Vertical) Rotate islands to be aligned vertically.
- scale (boolean, (optional)) Scale, Scale islands to fill unit square
- merge overlap (boolean, (optional)) Merge Overlapping, Overlapping islands stick together
- margin_method (emum in ['SCALED', 'ADD', 'FRACTION'], (optional)) —
 Margin Method
 - SCALED Scaled Use scale of existing UVs to multiply margin.
 - ADD Add Just add the margin, ignoring any UV scale.
 - FRACTION Fraction Specify a precise fraction of final UV output.
- margin (float in [0, 1], (optional)) Margin, Space between islands
- pin (boolean, (optional)) Lock Pinned Islands, Constrain islands containing any pinned UV's
- pin_method (emm in ['SCALE', 'ROTATION', 'ROTATION_SCALE', 'LOCKED'], (optional)) —
 Pin Method
 - SCALE Scale Pinned islands won't rescale.
 - ROTATION Rotation Pinned islands won't rotate.
 - ROTATION SCALE Rotation and Scale Pinned islands will translate only.
 - LOCKED All-Pinned islands are locked in place.
- shape_method (emum in ['CONCAVE', 'CONVEX', 'AABB'], (optional)) –

Shape Method

- CONCAVE Exact Shape (Concave) Uses exact geometry.
- CONVEX Boundary Shape (Convex) Uses convex hull.
- AABB Bounding Box Uses bounding boxes.

bpy.ops.uv.paste()

Paste selected UV vertices

bpy.ops.uv.pin(*, clear=False, invert=False)

Set/clear selected UV vertices as anchored between multiple unwrap operations

PARAMETERS:

- clear (boolean, (optional)) Clear, Clear pinning for the selection instead of setting it
- invert (boolean, (optional)) Invert, Invert pinning for the selection instead of setting it

bpy.ops.uv.project_from_view(*, orthographic=False, camera_bounds=True, correct_aspect=True, clip_to_bounds=False, scale_to_bounds=False)

Project the UV vertices of the mesh as seen in current 3D view

PARAMETERS:

- orthographic (boolean, (optional)) Orthographic, Use orthographic projection
- camera bounds (boolean, (optional)) Camera Bounds, Map UVs to the camera region taking resolution and aspect into account
- correct_aspect (boolean, (optional)) Correct Aspect, Map UVs taking aspect ratio of the image associated with the material into account
- clip_to_bounds (boolean, (optional)) Clip to Bounds, Clip UV coordinates to bounds after unwrapping
- scale_to_bounds (boolean, (optional)) Scale to Bounds, Scale UV coordinates to bounds after unwrapping

bpy.ops.uv.randomize_uv_transform(*, random_seed=0, use_loc=True, loc=(0.0, 0.0), use_rot=True, rot=0.0, use_scale=True, scale even=False, scale=(1.0, 1.0))

Randomize the UV island's location, rotation, and scale

PARAMETERS:

- random_seed (int in [0, 10000], (optional)) Random Seed, Seed value for the random generator
- use_loc (boolean, (optional)) Randomize Location, Randomize the location values
- loc (mathutils. Vector of 2 items in [-100, 100], (optional)) Location, Maximum distance the objects can spread over each axis
- use rot (boolean, (optional)) Randomize Rotation, Randomize the rotation value
- rot (float in [-6.28319, 6.28319], (optional)) Rotation, Maximum rotation
- use scale (boolean, (optional)) Randomize Scale, Randomize the scale values
- scale even (boolean, (optional)) Scale Even, Use the same scale value for both axes
- scale (float array of 2 items in [-100, 100], (optional)) Scale, Maximum scale randomization over each axis

FILE:

startup/bl_operators/uvcalc_transform.py:473

bpy.ops.uv.remove doubles(*, threshold=0.02, use unselected=False, use shared vertex=False)

Selected UV vertices that are within a radius of each other are welded together

PARAMETERS:

- threshold (float in [0, 10], (optional)) Merge Distance, Maximum distance between welded vertices
- use_unselected (boolean, (optional)) Unselected, Merge selected to other unselected vertices
- use_shared_vertex (boolean, (optional)) Shared Vertex, Weld UVs based on shared vertices

bpy.ops.uv.reset()

Reset UV projection

bpy.ops.uv.reveal(*, select=True)

Reveal all hidden UV vertices

PARAMETERS:

select (boolean, (optional)) - Select

bpy.ops.uv.rip(*, mirror=False, release confirm=False, use accurate=False, location=(0.0, 0.0))

Rip selected vertices or a selected region

- mirror (boolean, (optional)) Mirror Editing
- release confirm (boolean, (optional)) Confirm on Release, Always confirm operation when releasing button
- use accurate (boolean, (optional)) Accurate, Use accurate transformation
- location (mathutils.Vector of 2 items in [-inf, inf], (optional)) Location, Mouse location in normalized coordinates, 0.0 to 1.0 is within the image bounds

bpy.ops.uv.rip_move(*, UV_OT_rip=None, TRANSFORM_OT_translate=None)

Unstitch UVs and move the result

PARAMETERS:

- $UV_OT_{rip} (UV_OT_{rip}, (optional)) UV Rip, Rip selected vertices or a selected region$
- TRANSFORM OT translate (TRANSFORM OT translate, (optional)) Move, Move selected items

bpy.ops.uv.seams_from_islands(*, mark_seams=True, mark_sharp=False)

Set mesh seams according to island setup in the UV editor

PARAMETERS:

- mark_seams (boolean, (optional)) Mark Seams, Mark boundary edges as seams
- mark sharp (boolean, (optional)) Mark Sharp, Mark boundary edges as sharp

bpy.ops.uv.select(*, extend=False, deselect=False, toggle=False, deselect all=False, select passthrough=False, location=(0.0, 0.0))

Select UV vertices

PARAMETERS:

- extend (boolean, (optional)) Extend, Extend selection instead of deselecting everything first
- **deselect** (boolean, (optional)) Deselect, Remove from selection
- toggle (boolean, (optional)) Toggle Selection, Toggle the selection
- deselect_all (boolean, (optional)) Deselect On Nothing, Deselect all when nothing under the cursor
- select_passthrough (boolean, (optional)) Only Select Unselected, Ignore the select action when the element is already selected
- location (mathutils.Vector of 2 items in [-inf, inf], (optional)) Location, Mouse location in normalized coordinates, 0.0 to 1.0 is within the image bounds

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

Change selection of all UV vertices

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.

bpy.ops.uv.select_box(*, pinned=False, xmin=0, xmax=0, ymin=0, ymax=0, wait_for_input=True, mode='SET')

Select UV vertices using box selection

- pinned (boolean, (optional)) Pinned, Border select pinned UVs only
- 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

• mode (emum in ['SET', 'ADD', 'SUB'], (optional)) –

Mode

- SET Set Set a new selection.
- ADD Extend Extend existing selection.
- SUB Subtract Subtract existing selection.

bpy.ops.uv.select circle(*, x=0, y=0, radius=25, wait for input=True, mode='SET')

Select UV vertices using circle selection

PARAMETERS:

- **x** (int in [-inf, inf], (optional)) X
- y (int in [-inf, inf], (optional)) Y
- radius (int in [1, inf], (optional)) Radius
- wait for input (boolean, (optional)) Wait for Input
- mode (emm in ['SET', 'ADD', 'SUB'], (optional)) –

Mode

- ∘ SET Set Set a new selection.
- ADD Extend Extend existing selection.
- SUB Subtract Subtract existing selection.

bpy.ops.uv.select edge ring(*, extend=False, location=(0.0, 0.0))

Select an edge ring of connected UV vertices

PARAMETERS:

- extend (boolean, (optional)) Extend, Extend selection rather than clearing the existing selection
- location (mathutils. Vector of 2 items in [-inf, inf], (optional)) Location, Mouse location in normalized coordinates, 0.0 to 1.0 is within the image bounds

bpy.ops.uv.select_lasso(*, path=None, use_smooth_stroke=False, smooth_stroke_factor=0.75, smooth_stroke_radius=35, mode='SET')

Select UVs using lasso selection

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
- mode (emm in ['SET', 'ADD', 'SUB'], (optional)) –

Mode

- SET Set Set a new selection.
- ADD Extend Extend existing selection.
- SUB Subtract Subtract existing selection.

bpy.ops.uv.select_less()

Deselect UV vertices at the boundary of each selection region

bpy.ops.uv.select_linked()

Select all UV vertices linked to the active UV map

bpy.ops.uv.select linked pick(*, extend=False, deselect=False, location=(0.0, 0.0))

Select all UV vertices linked under the mouse

- extend (boolean, (optional)) Extend, Extend selection rather than clearing the existing selection
- deselect (boolean, (optional)) Deselect, Deselect linked UV vertices rather than selecting them
- location (mathutils.Vector of 2 items in [-inf, inf], (optional)) Location, Mouse location in normalized coordinates, 0.0 to 1.0 is within the image bounds

bpy.ops.uv.select loop(*, extend=False, location=(0.0, 0.0))

Select a loop of connected UV vertices

PARAMETERS:

- extend (boolean, (optional)) Extend, Extend selection rather than clearing the existing selection
- location (mathutils.Vector of 2 items in [-inf, inf], (optional)) Location, Mouse location in normalized coordinates, 0.0 to 1.0 is within the image bounds

bpy.ops.uv.select_mode(*, type='VERTEX')

Change UV selection mode

PARAMETERS:

type (enum in Mesh Select Mode Uv Items, (optional)) – Type

bpy.ops.uv.select_more()

Select more UV vertices connected to initial selection

bpy.ops.uv.select_overlap(*, extend=False)

Select all UV faces which overlap each other

PARAMETERS:

extend (boolean, (optional)) – Extend, Extend selection rather than clearing the existing selection

bpy.ops.uv.select_pinned()

Select all pinned UV vertices

bpy.ops.uv.select similar(*, type='PIN', compare='EQUAL', threshold=0.0)

Select similar UVs by property types

PARAMETERS:

- type (emum in ['PIN', 'LENGTH', 'LENGTH_3D', 'AREA', 'AREA_3D', 'MATERIAL', 'OBJECT', 'SIDES', 'WINDING', 'FACE'], (optional)) Type
- compare (enum in ['EQUAL', 'GREATER', 'LESS'], (optional)) Compare
- threshold (float in [0, 1], (optional)) Threshold

bpy.ops.uv.select_split()

Select only entirely selected faces

bpy.ops.uv.shortest_path_pick(*, use_face_step=False, use_topology_distance=False, use_fill=False, skip=0, nth=1, offset=0, object_index=-1, index=-1)

Select shortest path between two selections

- use_face_step (boolean, (optional)) Face Stepping, Traverse connected faces (includes diagonals and edge-rings)
- use topology distance (boolean, (optional)) Topology Distance, Find the minimum number of steps, ignoring spatial distance
- use fill (boolean, (optional)) Fill Region, Select all paths between the source/destination elements
- skip (int in [0, inf], (optional)) Deselected, Number of deselected elements in the repetitive sequence
- **nth** (int in [1, inf], (optional)) Selected, Number of selected elements in the repetitive sequence
- offset (int in [-inf, inf], (optional)) Offset, Offset from the starting point

 $bpy. ops. uv. \textbf{shortest_path_select} (\texttt{*}, \textbf{use_face_step=False}, \textbf{use_topology_distance=False}, \textbf{use_fill=False}, \textbf{skip=0}, \textbf{nth=1}, \textbf{offset=0})$

Selected shortest path between two vertices/edges/faces

PARAMETERS:

- use face step (boolean, (optional)) Face Stepping, Traverse connected faces (includes diagonals and edge-rings)
- use topology distance (boolean, (optional)) Topology Distance, Find the minimum number of steps, ignoring spatial distance
- use_fill (boolean, (optional)) Fill Region, Select all paths between the source/destination elements
- skip (int in [0, inf], (optional)) Deselected, Number of deselected elements in the repetitive sequence
- **nth** (int in [1, inf], (optional)) Selected, Number of selected elements in the repetitive sequence
- offset (int in [-inf, inf], (optional)) Offset, Offset from the starting point

bpy.ops.uv.smart_project(*, angle_limit=1.15192, margin_method='SCALED', rotate_method='AXIS_ALIGNED_Y', island_margin=0.0, area weight=0.0, correct aspect=True, scale to bounds=False)

Projection unwraps the selected faces of mesh objects

PARAMETERS:

- angle limit (float in [0, 1.5708], (optional)) Angle Limit, Lower for more projection groups, higher for less distortion
- margin_method (emum in ['SCALED', 'ADD', 'FRACTION'], (optional)) –

Margin Method

- SCALED Scaled Use scale of existing UVs to multiply margin.
- ADD Add Just add the margin, ignoring any UV scale.
- FRACTION Fraction Specify a precise fraction of final UV output.
- rotate_method (enum in ['AXIS_ALIGNED', 'AXIS_ALIGNED_X', 'AXIS_ALIGNED_Y'], (optional)) —

Rotation Method

- AXIS ALIGNED Axis-aligned Rotated to a minimal rectangle, either vertical or horizontal.
- AXIS_ALIGNED_X Axis-aligned (Horizontal) Rotate islands to be aligned horizontally.
- $\verb| OAXIS_ALIGNED_Y Axis-a ligned (Vertical) Rotate is lands to be a ligned vertically. \\$
- island_margin (float in [0, 1], (optional)) Island Margin, Margin to reduce bleed from adjacent islands
- area weight (float in [0, 1], (optional)) Area Weight, Weight projection's vector by faces with larger areas
- correct_aspect (boolean, (optional)) Correct Aspect, Map UVs taking aspect ratio of the image associated with the material into account
- scale_to_bounds (boolean, (optional)) Scale to Bounds, Scale UV coordinates to bounds after unwrapping

bpy.ops.uv.snap cursor(*, target='PIXELS')

Snap cursor to target type

PARAMETERS:

target (emm in ['PIXELS', 'SELECTED', 'ORIGIN'], (optional)) - Target, Target to snap the selected UVs to

bpy.ops.uv.snap selected(*, target='PIXELS')

Snap selected UV vertices to target type

PARAMETERS:

target (emm in ['PIXELS', 'CURSOR', 'CURSOR_OFFSET', 'ADJACENT_UNSELECTED'], (optional)) — Target, Target to snap the selected UVs to

bpy.ops.uv.sphere_project(*, direction='VIEW_ON_EQUATOR', align='POLAR_ZX', pole='PINCH', seam=False, correct_aspect=True, clip_to_bounds=False, scale_to_bounds=False)

Project the UV vertices of the mesh over the curved surface of a sphere

PARAMETERS:

direction (emm in ['VIEW_ON_EQUATOR', 'VIEW_ON_POLES', 'ALIGN_TO_OBJECT'], (optional)) —
 Direction, Direction of the sphere or cylinder

- VIEW ON EQUATOR View on Equator -3D view is on the equator.
- VIEW ON POLES View on Poles 3D view is on the poles.
- ALIGN TO OBJECT Align to Object Align according to object transform.
- align (enum in ['POLAR ZX', 'POLAR ZY'], (optional)) –

Align, How to determine rotation around the pole

- POLAR ZX Polar ZX Polar 0 is X.
- POLAR ZY Polar ZY Polar 0 is Y.
- pole (enum in ['PINCH', 'FAN'], (optional)) –

Pole, How to handle faces at the poles

- PINCH Pinch UVs are pinched at the poles.
- \circ FAN Fan UVs are fanned at the poles.
- seam (boolean, (optional)) Preserve Seams, Separate projections by islands isolated by seams
- correct aspect (boolean, (optional)) Correct Aspect, Map UVs taking aspect ratio of the image associated with the material into account
- clip_to_bounds (boolean, (optional)) Clip to Bounds, Clip UV coordinates to bounds after unwrapping
- scale to bounds (boolean, (optional)) Scale to Bounds, Scale UV coordinates to bounds after unwrapping

bpy.ops.uv.stitch(*, use_limit=False, snap_islands=True, limit=0.01, static_island=0, active_object_index=0, midpoint_snap=False, clear_seams=True, mode='VERTEX', stored_mode='VERTEX', selection=None, objects_selection_count=(0, 0, 0, 0, 0))

Stitch selected UV vertices by proximity

PARAMETERS:

- use limit (boolean, (optional)) Use Limit, Stitch UVs within a specified limit distance
- snap_islands (boolean, (optional)) Snap Islands, Snap islands together (on edge stitch mode, rotates the islands too)
- limit (float in [0, inf], (optional)) Limit, Limit distance in normalized coordinates
- static island (int in [0, inf], (optional)) Static Island, Island that stays in place when stitching islands
- active object index (int in [0, inf], (optional)) Active Object, Index of the active object
- midpoint snap (boolean, (optional)) Snap at Midpoint, UVs are stitched at midpoint instead of at static island
- clear seams (boolean, (optional)) Clear Seams, Clear seams of stitched edges
- mode (enum in ['VERTEX', 'EDGE'], (optional)) Operation Mode, Use vertex or edge stitching
- stored mode (enum in [VERTEX', 'EDGE'], (optional)) Stored Operation Mode, Use vertex or edge stitching
- selection (bpy prop collection of SelectedUvElement, (optional)) Selection
- objects_selection_count (int array of 6 items in [0, inf], (optional)) Objects Selection Count

bpy.ops.uv.unwrap(*, method='CONFORMAL', fill_holes=False, correct_aspect=True, use_subsurf_data=False, margin_method='SCALED', margin=0.001, no_flip=False, iterations=10, use_weights=False, weight_group='uv_importance', weight_factor=1.0)

Unwrap the mesh of the object being edited

- method (emum in ['ANGLE_BASED', 'CONFORMAL', 'MINIMUM_STRETCH'], (optional)) Method, Unwrapping method (Angle Based usually gives better results than Conformal, while being somewhat slower)
- fill holes (boolean, (optional)) Fill Holes, Virtually fill holes in mesh before unwrapping, to better avoid overlaps and preserve symmetry
- correct aspect (boolean, (optional)) Correct Aspect, Map UVs taking aspect ratio of the image associated with the material into account
- use_subsurf_data (boolean, (optional)) Use Subdivision Surface, Map UVs taking vertex position after Subdivision Surface modifier has been applied
- margin_method (enum in ['SCALED', 'ADD', 'FRACTION'], (optional)) –
 Margin Method
 - $\verb| OCALED Scaled-Use scale of existing UVs to multiply margin. \\$
 - \circ ADD Add Just add the margin, ignoring any UV scale.

- FRACTION Fraction Specify a precise fraction of final UV output.
- margin (float in [0, 1], (optional)) Margin, Space between islands
- no_flip (boolean, (optional)) No Flip, Prevent flipping UV's, flipping may lower distortion depending on the position of pins
- iterations (int in [0, 10000], (optional)) Iterations, Number of iterations when "Minimum Stretch" method is used
- use_weights (boolean, (optional)) Importance Weights, Whether to take into account per-vertex importance weights
- weight_group (string, (optional, never None)) Weight Group, Vertex group name for importance weights (modulating the deform)
- weight_factor (float in [-10000, 10000], (optional)) Weight Factor, How much influence the weightmap has for weighted parameterization, 0 being no influence

bpy.ops.uv.weld()

Weld selected UV vertices together

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