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bpy_extras submodule (bpy_extras.mesh_utils)

bpy_extras.mesh_utils.mesh_linked_uv_islands(mesh)

Returns lists of polygon indices connected by UV islands.

PARAMETERS:

mesh (bpy.types.Mesh) - the mesh used to group with.

RETURNS:

list of lists containing polygon indices

RETURN TYPE:

list[list[int]]

bpy_extras.mesh_utils.mesh_linked_triangles(mesh)

Splits the mesh into connected triangles, use this for separating cubes from other mesh elements within 1 mesh data-block.

PARAMETERS:

mesh (bpy.types.Mesh) - the mesh used to group with.

RETURNS:

Lists of lists containing triangles.

RETURN TYPE:

list[list[bpy.types.MeshLoopTriangle]]

bpy extras.mesh utils.edge face count dict(mesh)

RETURNS:

Dictionary of edge keys with their value set to the number of faces using each edge.

RETURN TYPE:

dict[tuple[int, int], int]

bpy extras.mesh utils.edge face count(mesh)

RETURNS:

list face users for each item in mesh.edges.

RETURN TYPE:

list[int]

bpy_extras.mesh_utils.edge_loops_from_edges(mesh, edges=None)

Edge loops defined by edges

Takes me.edges or a list of edges and returns the edge loops

return a list of vertex indices. [[1, 6, 7, 2], ...]

closed loops have matching start and end values.

bpy extras.mesh utils.ngon tessellate(from data, indices, fix loops=True, debug print=True)

Takes a poly-line of indices (ngon) and returns a list of face index lists. Designed to be used for importers that need indices for an ngon to create fix existing verts.

PARAMETERS:

- from_data (bpy.types.Mesh | list[Sequence[float]] | tuple[Sequence[float]]) Either a mesh, or a list/tuple of 3D vectors.
- indices (list[int]) a list of indices to use this list is the ordered closed poly-line to fill, and can be a subset of the data given.
- fix_loops (bool) If this is enabled poly-lines that use loops to make multiple poly-lines are dealt with correctly.

bpy_extras.mesh_utils.triangle_random_points(num_points, loop_triangles)

Generates a list of random points over mesh loop triangles.

PARAMETERS:

- **num_points** (*int*) The number of random points to generate on each triangle.
- loop_triangles (Sequence[bpy.types.MeshLoopTriangle]) Sequence of the triangles to generate points on.

RETURNS:

List of random points over all triangles.

RETURN TYPE:

list[mathutils.Vector]

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