

A large graphic consisting of two blue triangles meeting at a diagonal line that runs from the bottom-left towards the top-right. The triangle on the left is a darker shade of blue, while the triangle on the right is a lighter shade.

materialise

innovators you can count on

Scripting functions with callback notification support

Materialise 3-matic Medical 19.0

Data

Scripting functions	obj_created	obj_deleted	obj_label_changed	obj_visual_state_changed	Remark
copy_to_part	√				obj_created exist only if destination is empty.
delete		√			
duplicate	√				
merge	√	√			
move_to_part	√				obj_created exist only if destination is empty.

Types

Scripting functions	obj_created	obj_deleted	obj_label_changed	obj_visual_state_changed	Remark
name			√		
visible				√	Supports only Show and Hide. Show Only is out of scope.

Analyze

Scripting functions	obj_created	obj_deleted	obj_label_changed	obj_visual_state_changed	Remark
create_point	√				
create_line	√				
create_line_fit_ruled_surface	√				
create_line_plane_intersection	√				
create_line_direction_and_length	√				
create_arc_3_points	√				
create_arc_normal_center_radius	√				
create_circle_arc_3_points	√				
create_circle_arc_fit	√				
create_circle_arc_normal_center_radius	√				
create_cylinder_axis	√				
create_cylinder_fit	√				
create_cone	√				
create_sphere_center_radius	√				
create_sphere_fit	√				
create_plane_1_point_parallel_plane	√				
create_plane_1_point_perpendicular_2_planes	√				
create_plane_2_points_perpendicular_1_plane	√				
create_plane_3_points	√				
create_plane_average_existing	√				
create_plane_fit	√				
create_plane_midplane	√				
create_plane_normal_origin	√				

Design

Scripting functions	obj_created	obj_deleted	obj_label_changed	obj_visual_state_changed	Remark
boolean_intersection	✓	✓			
boolean_subtraction	✓	✓			
boolean_union	✓	✓			
circular_sweep	✓				
convert_analytical_to_mesh	✓				
create_box_around_part	✓				
create_box_part	✓				
create_cone_part	✓				
create_connections_automatic	✓				
create_cylinder_part	✓				
create_part	✓				
create_part_by_surfaces	✓				
create_sphere_part	✓				
create_pyramid	✓				
create_pyramid_part	✓				
cut	✓	✓			
extrude	✓				
loft	✓	✓			obj_deleted exist only if merge is true.
sweep	✓				
sweep_loft	✓				
wrap	✓				

File

Scripting functions	obj_created	obj_deleted	obj_label_changed	obj_visual_state_changed	Remark
import_part_stl	✓				
open_project	✓				

Lattice

Scripting functions	obj_created	obj_deleted	obj_label_changed	obj_visual_state_changed	Remark
attach_graph_to_mesh	✓				
convert_lattice_to_organic_mesh	✓			✓	
convert_lattice_to_regular_mesh	✓			✓	
create_uv_based_conformal_lattice	✓			✓	
create_uv_based_dual_conformal_lattice	✓				
unit_cell_based_lattice	✓			✓	

Remesh

Scripting functions	obj_created	obj_deleted	obj_label_changed	obj_visual_state_changed	Remark
create_non_manifold_assembly_intersection	√	√			