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# GeometryNodeMeshBoolean(GeometryNode)

base classes — [bpy\\_struct](#), [Node](#), [NodeInternal](#), [GeometryNode](#)

**class** `bpy.types.GeometryNodeMeshBoolean(GeometryNode)`

Cut, subtract, or join multiple mesh inputs

## operation

- `INTERSECT` Intersect – Keep the part of the mesh that is common between all operands.
- `UNION` Union – Combine meshes in an additive way.
- `DIFFERENCE` Difference – Combine meshes in a subtractive way.

## TYPE:

enum in ['INTERSECT', 'UNION', 'DIFFERENCE'], default 'INTERSECT'

## solver

- `EXACT` Exact – Exact solver for the best results.
- `FLOAT` Float – Simple solver for the best performance, without support for overlapping geometry.

## TYPE:

enum in ['EXACT', 'FLOAT'], default 'FLOAT'

**classmethod** `is_registered_node_type()`

True if a registered node type

## RETURNS:

Result

## RETURN TYPE:

boolean

**classmethod** `input_template(index)`

Input socket template

## PARAMETERS:

**index** (*int in [0, inf]*) – Index

## RETURNS:

result

## RETURN TYPE:

[NodeInternalSocketTemplate](#)

**classmethod** `output_template(index)`

Output socket template

## PARAMETERS:

**index** (*int in [0, inf]*) – Index

## RETURNS:

result

## RETURN TYPE:

[NodeInternalSocketTemplate](#)

**classmethod** `bl_ma_get_subclass(id, default=None)`

## PARAMETERS:

**id** (*str*) – The RNA type identifier.

**RETURNS:**

The RNA type or default when not found.

**RETURN TYPE:**

`bpy.types.Struct` subclass

**classmethod** `bl_ma_get_subclass_py(id, default=None)`

**PARAMETERS:**

**id** (*str*) – The RNA type identifier.

**RETURNS:**

The class or default when not found.

**RETURN TYPE:**

type

## Inherited Properties

- `bpy_struct.id_data`
- `Node.type`
- `Node.location`
- `Node.location_absolute`
- `Node.width`
- `Node.height`
- `Node.dimensions`
- `Node.name`
- `Node.label`
- `Node.inputs`
- `Node.outputs`
- `Node.internal_links`
- `Node.parent`
- `Node.warning_propagation`
- `Node.use_custom_color`
- `Node.color`
- `Node.color_tag`
- `Node.select`
- `Node.show_options`
- `Node.show_preview`
- `Node.hide`
- `Node.mute`
- `Node.show_texture`
- `Node.bl_idname`
- `Node.bl_label`
- `Node.bl_description`
- `Node.bl_icon`
- `Node.bl_static_type`
- `Node.bl_width_default`
- `Node.bl_width_min`
- `Node.bl_width_max`
- `Node.bl_height_default`
- `Node.bl_height_min`
- `Node.bl_height_max`

## Inherited Functions

- `bpy_struct.as_pointer`
- `bpy_struct.driver_add`
- `bpy_struct.driver_remove`
- `bpy_struct.get`
- `bpy_struct.id_properties_clear`
- `bpy_struct.id_properties_ensure`
- `bpy_struct.id_properties_ui`
- `bpy_struct.is_property_hidden`
- `bpy_struct.is_property_overridable_library`
- `bpy_struct.is_property_readonly`
- `bpy_struct.is_property_set`
- `Node.poll_instance`
- `Node.update`
- `Node.insert_link`
- `Node.init`
- `Node.copy`
- `Node.free`
- `Node.draw_buttons`
- `Node.draw_buttons_ext`
- `Node.draw_label`
- `Node.debug_zone_body_lazy_function_graph`

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- [bpy\\_struct.items](#)
- [bpy\\_struct.keyframe\\_delete](#)
- [bpy\\_struct.keyframe\\_insert](#)
- [bpy\\_struct.keys](#)
- [bpy\\_struct.path\\_from\\_id](#)
- [bpy\\_struct.path\\_resolve](#)
- [bpy\\_struct.pop](#)
- [bpy\\_struct.property\\_overridable\\_library\\_set](#)
- [bpy\\_struct.property\\_unset](#)
- [bpy\\_struct.type\\_recast](#)
- [bpy\\_struct.values](#)
- [Node.socket\\_value\\_update](#)
- [Node.is\\_registered\\_node\\_type](#)
- [Node.poll](#)

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