



12.1.13 Editors - Geometry Nodes Editor - Header - Add Menu - Geometry - Operations

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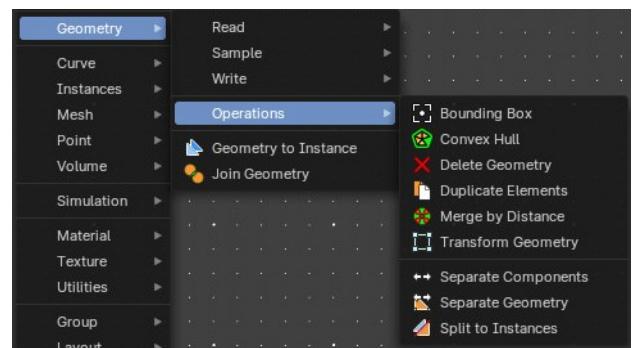
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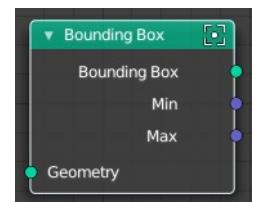
Add menu - Geometry - Operations

Here you find nodes to modify the geometry.



Bounding Box

The Bounding Box geometry node allows you to work with the values of a bounding box.



Inputs

Geometry

Standard geometry input.

Output

Bounding Box

Standard output.

Min

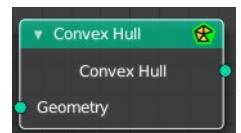
The minimum values of the bounding box.

Max

The maximum values of the bounding box.

Convex Hull

The node allows you to work with the values of a convex hull of this object.



Inputs

Geometry

Standard geometry input.

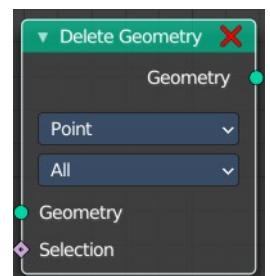
Output

Convex Hull

Standard output.

Delete Geometry

The node allows you to work with the values of a convex hull of this object.



Inputs

Geometry

Standard geometry input.

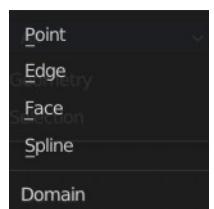
Selection

A selection of the geomerty

Properties

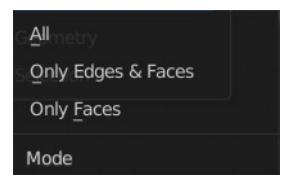
Domain

What element to delete.



Mode

Delete mode. Names should be self explaining.



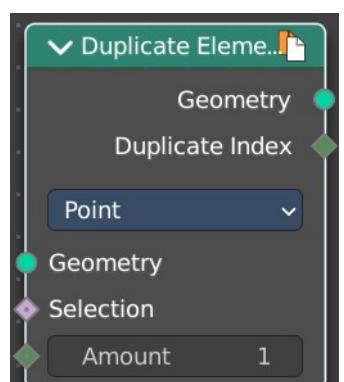
Output

Geometry

Standard output.

Duplicate Elements

Duplicates a part of a geometry a dynamic number of times.



Inputs

Geometry

Standard geometry input.

Selection

A selection of the geometry.

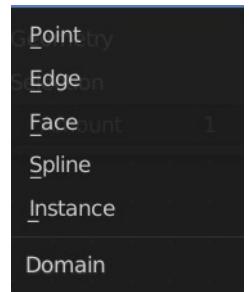
Amount

Number of times the geometry should be duplicated.

Properties

Domain

What element to duplicate.



Output

Geometry

Standard output.

Duplicate Index

The index of the duplicated elements.

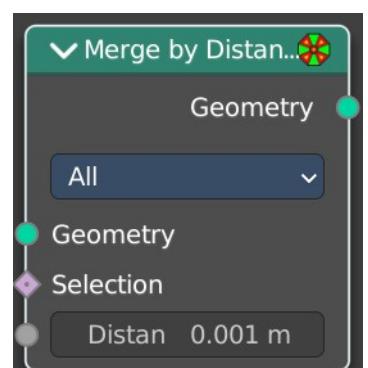
Merge by Distance

Welds the selected geometry below a given distance into one vertex.

Input

Geometry

The input geometry.



Selection

A selection of the input geometry.

Distance

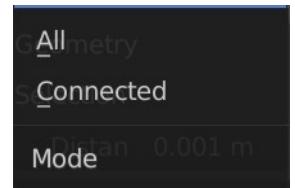
The merge distance. Everything below this distance will be merged into one vertex.

Properties

Mode

All

Merges all vertices in reach.



Connected

Merges just vertices that are connected by edges.

Output

Geometry

The output geometry.

Transform Geometry

Move, rotate or scale the geometry. The transformation is applied to the entire geometry, and not per element. For example, you can not rotate individual point cloud points with this node.

Inputs

Geometry

Standard geometry input.

Translation

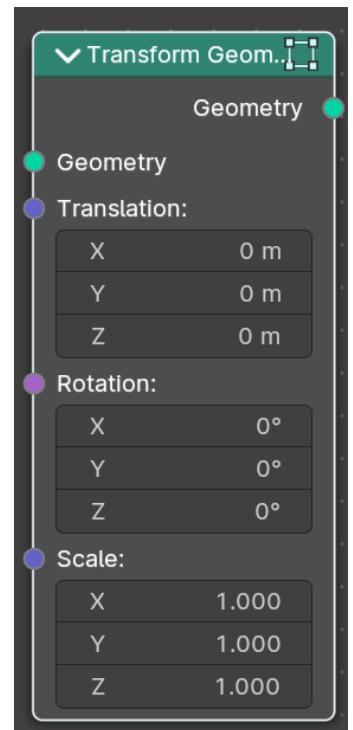
Translates the geometry in local space of the modified object.

Rotation

Euler rotation in local space.

Scale

Scale to transform the geometries in local space.



Output

Geometry

Standard geometry output.

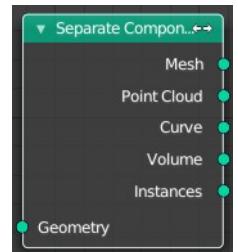
Separate Components

Splits a geometry into its components.

Inputs

Geometry

Geometry input.



Outputs

Mesh

Mesh component of the input geometry.

Point Cloud

Point cloud component of the input geometry.

Curve

Curve component of the input geometry.

Volume

Volume component of the input geometry.

In case that the input contains multiple volume instances, only the first volume component will be calculated.

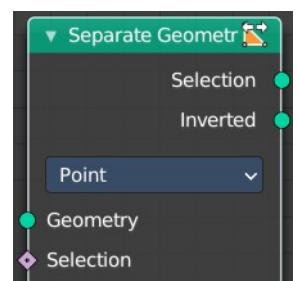
Instance

The single instances of the geometry.

Separate Geometry

Separates a selection of a geometry into its own object.

Tip: when you combine it with the Compare Floats nodem then you get a more precise control of which parts are separated to a given output geometry.



Inputs

Geometry

Geometry input.

Selection

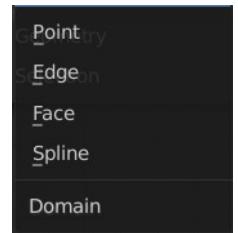
Selection input.

Properties

Domain

What kind of geometry to separate.

Note that when selecting a domain that doesn't modify all components, the unmodified components will appear in both outputs.



Outputs

Selection

Separated selection.

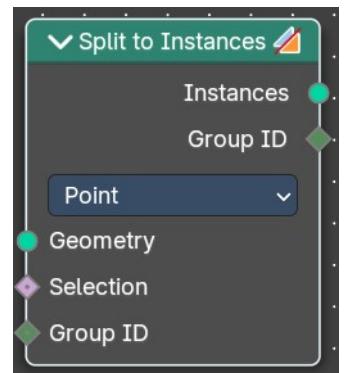
Inverted

The inverted separated selection.

Split to Instances

This node allows splitting up a geometry into groups. A group is defined as all elements with the same group id.

The node supports meshes, curves, point clouds and instances. Note that it only works on the top-level geometry. It does not go into nested instances because it also generates new instances.



Inputs

Geometry

Geometry input.

Selection

Selection input.

Group ID

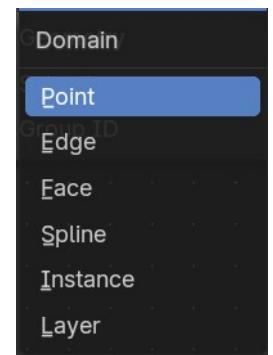
Group ID input value.

Properties

Domain

What kind of geometry to separate.

Note that when selecting a domain that doesn't modify all components, the unmodified components will appear in both outputs.



Outputs

Instances

Instances output. An Instance per group.

Group ID

Group ID output value.