Attribute Statistic Node

The *Attribute Statistic* node evaluates a field on a geometry and outputs a statistic about the entire data set.

Inputs

Geometry

Standard geometry input.

Selection

A boolean field input for each element indicating whether to include its value in the statistics result If the boolean is false, the corresponding value from the *Attribute* input will be ignored.

Attribute

The attribute field to query a statistic from.

Properties

Data Type

Float:

The output will be a single floating-point value.

Vector:

The output will be a vector of three floating-point values. All calculations are elementwise.

Domain

The attribute domain used for the statistics and to evaluate the input *Attribute* field on.

Outputs

Mean

The average value of all data.

Median

The median value of all data.

Sum

The sum value of all data.

Min

The min value of all data.

Max

The max value of all data.

Range

The difference between the max and min value.

Standard Deviation

How much values differ from the mean. A low standard deviation indicates that the values are grouped tightly together at the mean. A high standard deviation indicates that the values are spread out over a large range.

Variance

The variance of all data, defined as the square of the standard deviation.