

Extract Map Attributes

Description

This functor extracts the attributes and calculates basic statistics from a map and as a result creates a table that contains the extracted attributes.

Inputs

Name	Type	Description
Map	Map	Map whose attributes will be extracted.

Optional Inputs

Name	Type	Description	Default Value
Extract Dynamic Attributes	Bool	If true, the dynamic attributes will be calculated.	True
Extract Statistical Attributes	Bool	If true, statistical attributes will be calculated.	False

Outputs

Name	Type	Description
Attributes	Lookup Table	Table containing the attributes extracted from a map.

Group

Map Algebra

Notes

This functor analyzes all map layers. The resulting table refers to all of them.

The functor employs a lookup table with keys to the attributes. Each key has a predefined name. This name can be used to retrieve the corresponding attribute in Calculate Map, Calculate Categorical Map, Calculate Value and Calculate Lookup Table.

If it is not possible to determine any of these attributes, the corresponding entry in the lookup table is left blank. It determines the maximum and the minimum values only when there is at least one non null cell on the map.

Basic Attributes

Key	Predefined Name	Description
1	"lines"	number of lines
2	"columns"	number of columns
3	"cells"	number of cells (number of lines multiplied by the number of columns).
4	"layers"	number of layers
5	"cellHeight"	cell height (in meters)
6	"cellWidth"	cell width (in meters)

7	"cellArea"	cell area (in hectares)
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Dynamic attributes

Key	Predefined Name	Description
8	"nullCells"	number of null cells
9	"nonNullCells"	number of non null cells
10	"minCell"	minimum value (excluding null cells)
11	"maxCell"	maximum value (excluding null cells)
12	"cellSum"	sum of the values (excluding null cells)

Statistical attributes

Key	Predefined Name	Description
13	"meanCell"	average (excluding null cells)
14	"cellVar"	variance (excluding null cells)
15	"cellStd"	standard deviation (excluding null cells)
16	"modeCell"	mode (excluding null cells)
17	"medianCell"	median (excluding null cells)
18	"uniqueCells"	total unique occurrences (excluding null cells)

Internal Name

ExtractMapAttributes

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