

Transpose

Block Group:	Table Operations
Icon:	

The Transpose block returns a new table that transposes the input table, so that the columns in the input table are rows in the output table. Optionally, you can set columns to omit from the output. You can also set an input column to be the header row of the output table.

For information on using dataflow blocks, see [Dataflow](#).

For answers to some common questions about working with tables, see [Tables](#).

Input/Output Properties

The following properties of the Transpose block can take input and give output.

- `input` (*table*)
- `ignoreColumns` (*string*)
- `headerColumn` (*string*)
- `includeHeaders` (*boolean*)
- `headerPrefix` (*string*)

input receives the table that you want to transpose.

ignoreColumns specifies the names of columns in the input table to ignore when transposing, as comma-separated values.

headerColumn specifies the column from the input table to use as headers in the output table.

includeHeaders specifies whether the header row from the input table is included as a column in the output table.

headerPrefix specifies the text string to include before the column number, for each column header in the output table. The **headerPrefix** property works only when the **headerColumn** property is null.

Output Property

The following property of the Transpose block can give output but cannot take input.

- `output` (*table*)

output returns the transposed table.

Example

The following image shows an example of the Transpose block.

The screenshot shows a data processing workflow with three blocks: **strLoader**, **csvParser**, and **tableTranspose**.

- strLoader**: invoke: Instance of 'IB', path: data/Point Data.csv, status: 200, output: Dis_Air_Temp,Fan_...
- csvParser**: input: Dis_Air_Temp,Fa..., withHeader: true, delimiter: , , parseError: false, output: Table
- tableTranspose**: input: Table, ignoreColumns: Room_Temp, headerColumn: , includeHeaders: true, headerPrefix: , output: Table

Below the blocks are two table views:

Table 1 (Original Data):

row	Dis_Air_Temp	Fan_Status	Occ	Room_Temp	Unit_Name
0	68	ON	Yes	74	VAV 1_1
1	72	OFF	No	63	VAV 1_2
2	65	OFF	Yes	79	VAV 1_3
3	56	OFF	No	62	VAV 1_4
4	77	ON	Yes	79	VAV 1_5
5	53	ON	No	68	VAV 1_6

Table 2 (Transposed Data):

row	headers	0	1	2	3	4	5
0	Dis_Air_Temp	68	72	65	56	77	53
1	Fan_Status	ON	OFF	OFF	OFF	ON	ON
2	Occ	Yes	No	Yes	No	Yes	No
3	Unit_Name	VAV 1_1	VAV 1_2	VAV 1_3	VAV 1_4	VAV 1_5	VAV 1_6

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Last update: **2021/09/20 15:03**

