

# Transformation by Example Page

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In the Transform by Example page, you can build new columns of data by specifying values to map from the selected source column. For the column to transform, select **Create column by examples** from the column menu.

**NOTE:** Transformations by example are developed using the current sample. When the finished transformation is applied across the entire dataset, some source values may not be matched by the patterns you specified using the current sample.

**Tip:** Transformation by example works best for text-based inputs. For non-text inputs, you can convert the column data type to String.

To transform by example, you can use either of the following:

- **Grid View:** Displays Source and Preview column values as they appear in the sample in the data grid.
- **Pattern View:** Displays the Source and Preview values in groups of similar values based on pattern matching by Dataprep by Trifacta®.

For more information on these types of transformations, see *Overview of TBE*.

## Transform Builder

In the Transform Builder panel on the right, you can review and change the Source and Preview columns to transform.

**Tip:** To transform from a different source column, select a new column from the Example column drop-down. This step clears all examples from the transformation you are building. Some columns may not be available for selection. To use such a column, change its type to String first.

## Grid View

In grid view, the Source values for each row in the sample are listed next to an empty Preview column. You can create mappings by selecting a cell in the Preview column and manually entering a value.

The screenshot shows the 'Create column from examples' interface. On the left, a grid displays two columns: 'Source' and 'Preview'. The 'Source' column lists phone numbers, and the 'Preview' column shows the same numbers with inferred patterns in lighter text. On the right, a sidebar allows selecting a column and naming the new column.

Source	Preview
Phone Number	Phone_Number_clean
1 510-221-2244	510 221 2244
2 510-221-2245	510 221 2245
3 510-221-2246	510 221 2246
4 510-221-2247	510 221 2247
5 510-221-2248	510 221 2248
6 510-221-2249	510 221 2249
7 510-221-2250	510 221 2250
8 510-221-2251	510 221 2251
9 510-221-2252	510 221 2252
10 510-221-2253	510 221 2253
11 510-221-2254	510 221 2254
12 (510) 434 4404	510 434 4404
13 (510) 434 4405	510 434 4405
14 (510) 434 4406	510 434 4406
15 (510) 434 4407	510 434 4407
16 (510) 434 4408	510 434 4408
17 (510) 434 4409	510 434 4409
18 (510) 434 4410	510 434 4410
19 (510) 434 4411	510 434 4411
20 (510) 434 4412	510 434 4412
21 (510) 434 4413	510 434 4413
22 (510) 434 4414	510 434 4414
...	...

195 rows 60 unique source values

Right sidebar: Create column from examples. Column: Phone Number. New column name: Phone\_Number\_clean.

**Figure: Transformation by Example - Grid View**

After you enter a value, Dataprep by Trifacta attempts to match other values from the Source using the same pattern to generate additional values in the Preview column.

- Values that you manually enter are listed in dark text.
- Values that are inferred by the product are in lighter text.
- Null values indicate that no pattern has been identified to match the value.

**Tip:** Values that have been inferred can be replaced by manual entries for further refinement.

For more information on how to use, see *Create Column by Example*.

**Keyboard shortcuts**

- Use the arrow keys to navigate up and down the rows in the Preview column.
- CTRL + up arrow or CTRL + down arrow to jump to the first or last row of the sample
  - In Pattern View, the above shortcuts navigate between groups of values.
- ESC cancels your current edit.
- RETURN submits your current entry as a new example.

**Tip:** You can copy and paste values from the clipboard into the Preview column.

**Pattern View**

In Pattern view, Dataprep by Trifacta performs some preliminary pattern detection to group Source values together. Transformations are processed using Patterns .

DATASETS - TBE FLOW > Datasets - TBE Full Data Run Job

Source	Preview
Phone Number	Phone_Number_clean
Pattern 1 1 of 1 unique value	
5104289900	510 428 9900
Pattern 2 5 of 25 unique values	
(510) 434 4404	510 434 4404
(510) 434 4405	510 434 4405
(510) 434 4406	510 434 4406
(510) 434 4407	510 434 4407
(510) 434 4408	510 434 4408
Pattern 3 5 of 23 unique values	
1-510-122-3300	510 122 3300
1-510-122-3301	510 122 3301
1-510-122-3302	510 122 3302
1-510-122-3303	510 122 3303
1-510-122-3304	510 122 3304
Pattern 4 5 of 11 unique values	
510-221-2244	510 221 2244
510-221-2245	510 221 2245
510-221-2246	510 221 2246
510-221-2247	510 221 2247
---	---

195 rows 60 unique source values 4 patterns

Create column from examples

Create a new column by providing example values in the grid.

Column required

Phone Number v

New column name

Phone\_Number\_clean

Cancel Add to Recipe

**Figure: Transformation by Example - Pattern View**

- This view displays a maximum of five example values per pattern group.
- **Other group:** Values that do not map to any identifiable pattern are placed in a value group labeled, *Other*.
- For more information on patterns, see *Text Matching*.

## Toolbar



**Figure: Transformation by Example toolbar**

- **Grid View:** See previous.
- **Pattern View:** See previous.
- **Undo:** Undo the last change you made to the Preview values.
- **Redo:** Redo the most recently undo change you made to the Preview values.
- **Trash:** Remove all example values from the Preview column and start over.