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# Analytics Canvas Tutorial:

## *How to use the Rank Block*



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### Overview

Welcome to Analytics Canvas's Rank Block tutorial. This is one of a number of detailed tutorials in which we explain how each feature within Analytics Canvas works, with additional context to help you understand it better, and to use it to best suit your own needs.

### How to use the Rank Block



*Figure 1: Rank Block*

To rank data using the Rank Block:

Step 1. Drag and drop the Rank Block from the Block Library onto the Main Canvas.

Step 2. Connect input data.

Step 3. Configure Rank Block settings: select Value Column, Rank Method, and a column to rank by.

Step 4. Use Data Viewer to view the results.

### Rank Types

**ROW NUMBER** - Returns the sequential number of a row within a partition of a result set, starting at 1 for the first row in each partition.

**RANK** - Returns the rank of each row within the partition of a result set. The rank of a row is 1, plus the number of ranks that come before the row in question.

**DENSE RANK** - Returns the rank of rows within the partition of a result set, without any gaps in the ranking. The rank of a row is 1, plus the number of distinct ranks that come before the row in question.

**NTILE** - Distributes the rows in an ordered partition into a specified number of groups. The groups are numbered, starting at 1. For each row, NTILE returns the number of the group to which the row belongs.



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The screenshot displays the Analytics Canvas interface. At the top, a data flow is shown from a source block labeled 'Countries.txt' to a target block labeled 'Rank Block 1'. A line connects them with the number '184' indicating the row count. Below this, the 'Main Canvas' area shows a configuration panel for 'Rank Block 1'. The panel includes a 'Block Name' field containing 'Rank Block 1' and a 'Rank Block' label. It features two columns: 'Not Ranked' with 'Region' and 'Rank By' with 'Country'. Between these columns are navigation arrows '>' and '<'. To the right is a 'Field Order' section with 'Up' and 'Down' buttons. Further right are settings for 'Rank Column' (set to 'Rank'), 'Value Column' (set to 'Population'), and 'Rank Method' (set to 'DenseRank'). At the bottom right, there are radio buttons for 'Rank Descending', 'Ascending', and 'Descending', with 'Descending' being selected.

Figure 2: Using Rank Block

### Conclusion

Thank you for reading this tutorial. We invite you to continue with the tutorial training to learn more about using Analytics Canvas.