

# HCC Bar Chart: A Custom Chart for RAWGraphs

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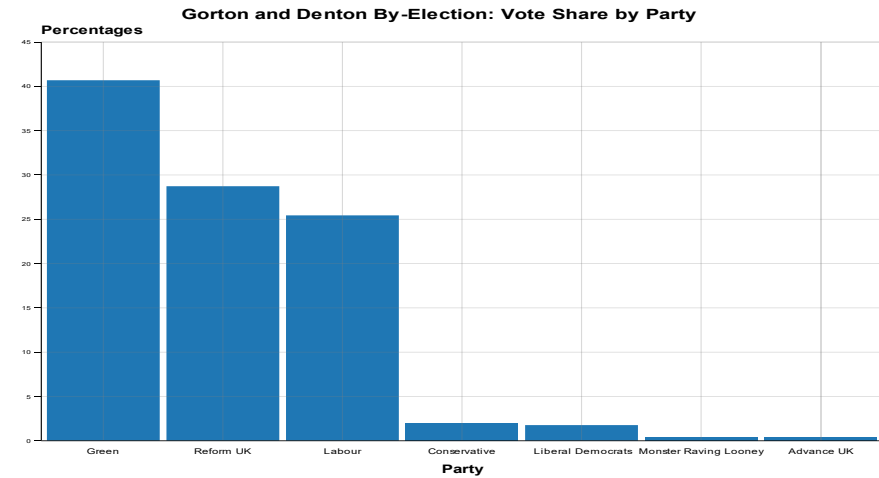
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# Reasons to Use Bar Charts

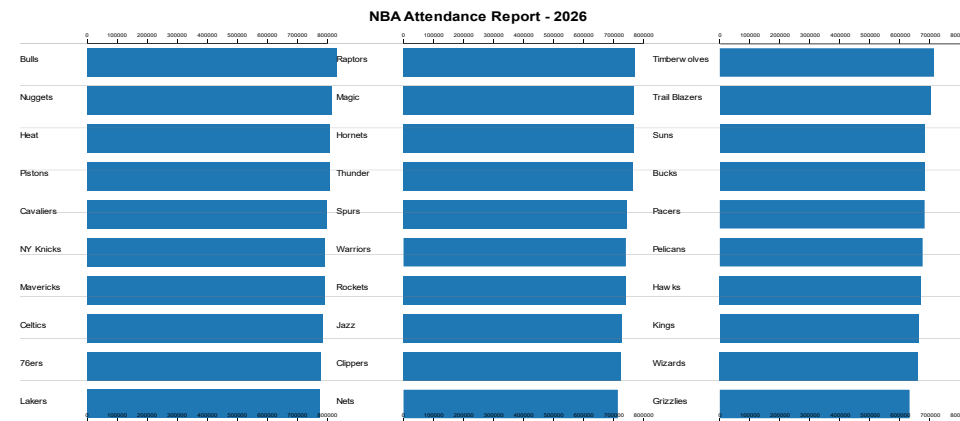
- To feature a comparison relationship.
- To compare categories and sub-categories (Year, Region, Department) with numeric values (Population, Revenue) with one another.

# Types of Bar Charts

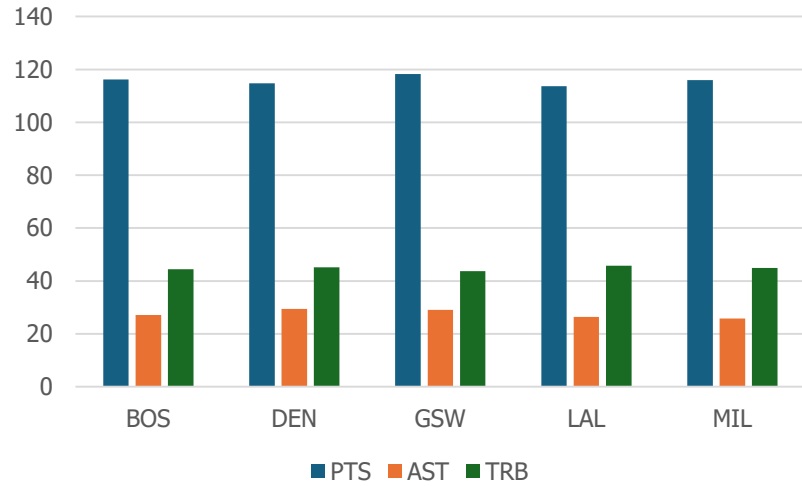
- Regular Bar Charts.
- Wrapped Bar Charts.
- Clustered (Grouped) Bar Charts.
- Stacked Bar Charts.
- Merged Bar Charts.



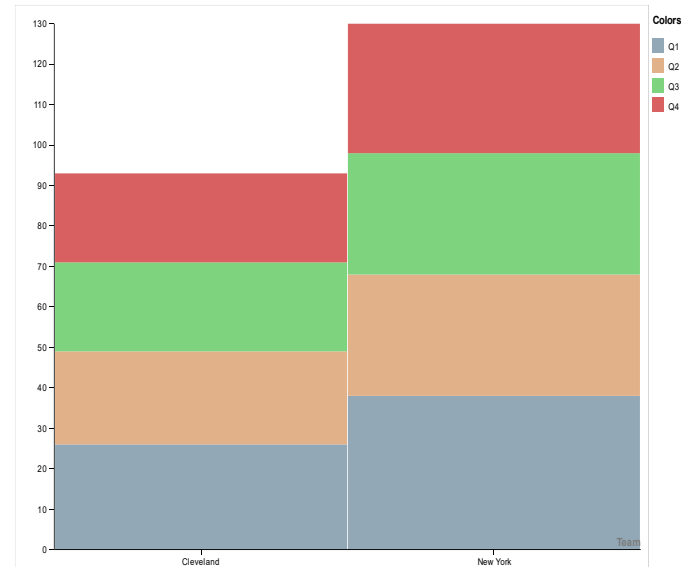
Source: Regular Bar charts of Gorton and Denton By-Election Results, 26 Feb 2026, data from [https://manchester.gov.uk/directory\\_record/538292/parliamentary\\_gorton\\_and\\_denton\\_by-election\\_-\\_26\\_february\\_2026](https://manchester.gov.uk/directory_record/538292/parliamentary_gorton_and_denton_by-election_-_26_february_2026) in RAWGraphs by the authors



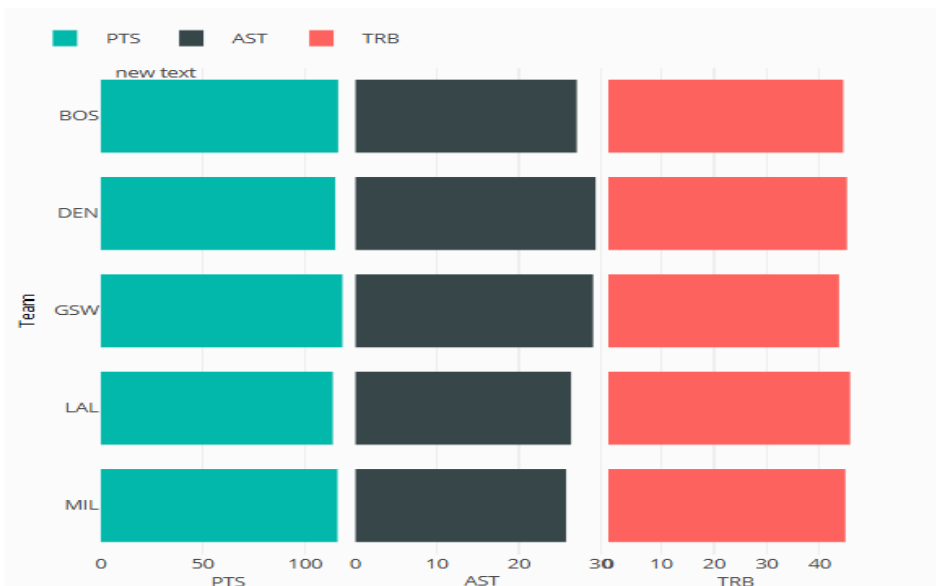
Source: Wrapped Bar chart of NBA Team Home Attendance, 2025–26 Regular Season, data from ESPN NBA Attendance Reports, <https://www.espn.com/nba/attendance>, made in RAWGraphs by the author.



Source: Clustered Bar chart of some NBA Team Performance Metrics (Points, Assists, and Rebounds per Game), 2026 Regular Season, data from Basketball Reference [https://www.basketball-reference.com/leagues/NBA\\_2026](https://www.basketball-reference.com/leagues/NBA_2026), made in Excel by the author



Source: Stacked bar charts of New York Knicks vs Cleveland Cavaliers game results by quarter, 25 May 2026, data from <https://www.basketball-reference.com/boxscores/> in RAWGraphs by the author

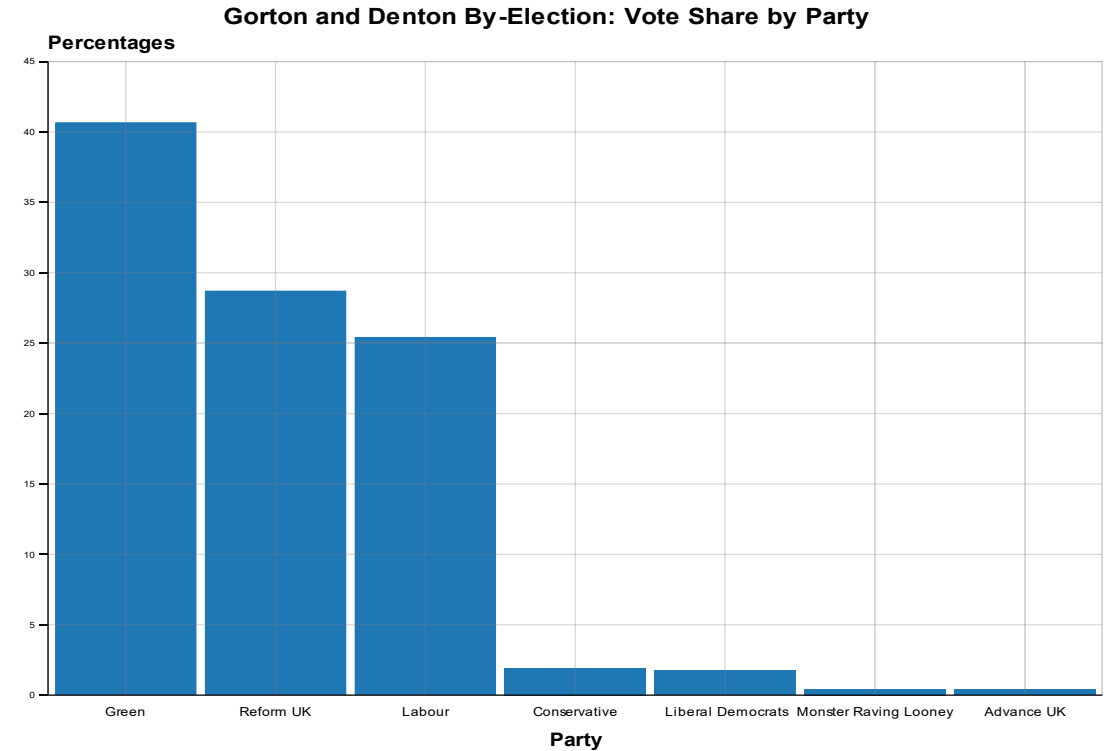
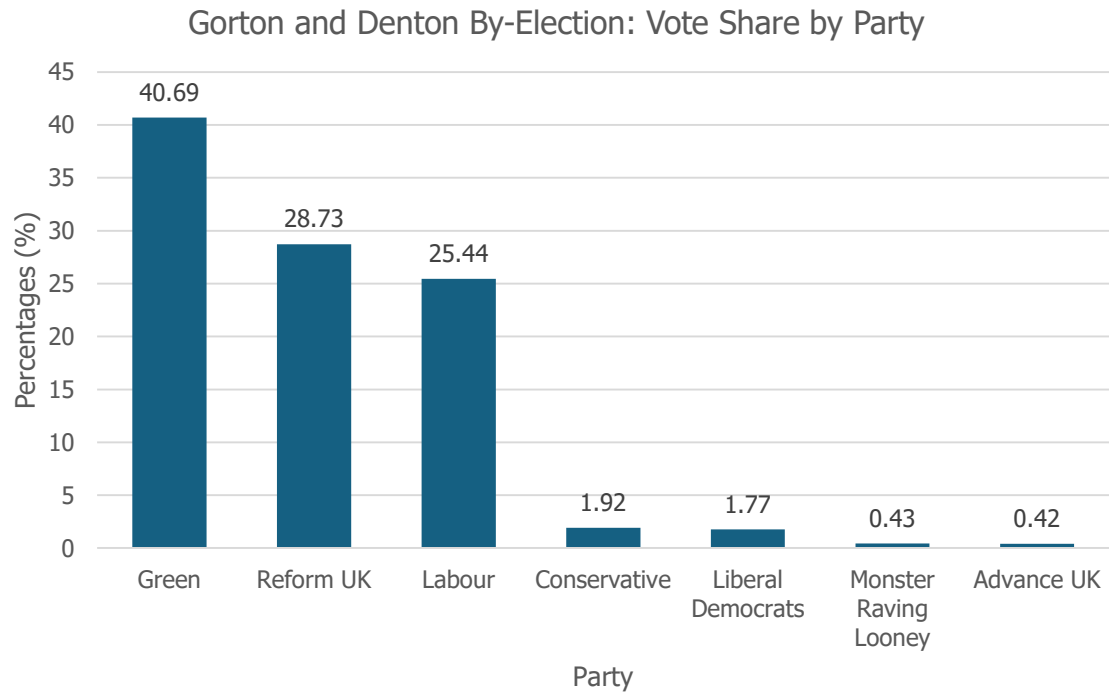


Source: Merged Bar chart of some NBA Team Performance Metrics (Points, Assists, and Rebounds per Game), 2026 Regular Season, data from Basketball Reference [https://www.basketball-reference.com/leagues/NBA\\_2026](https://www.basketball-reference.com/leagues/NBA_2026), made in PowerBI Visual Editor by the author

# Charts Best Practice.

- Desbarats, Nicholas P. (2023). Practical Charts: The essential guide to creating clear, compelling charts for reports and presentations. Practical Reporting, 2023, 978-1-7388883-0-6, <https://practicalreporting.com/practical-charts-book>

# Improving a Typical Bar Chart



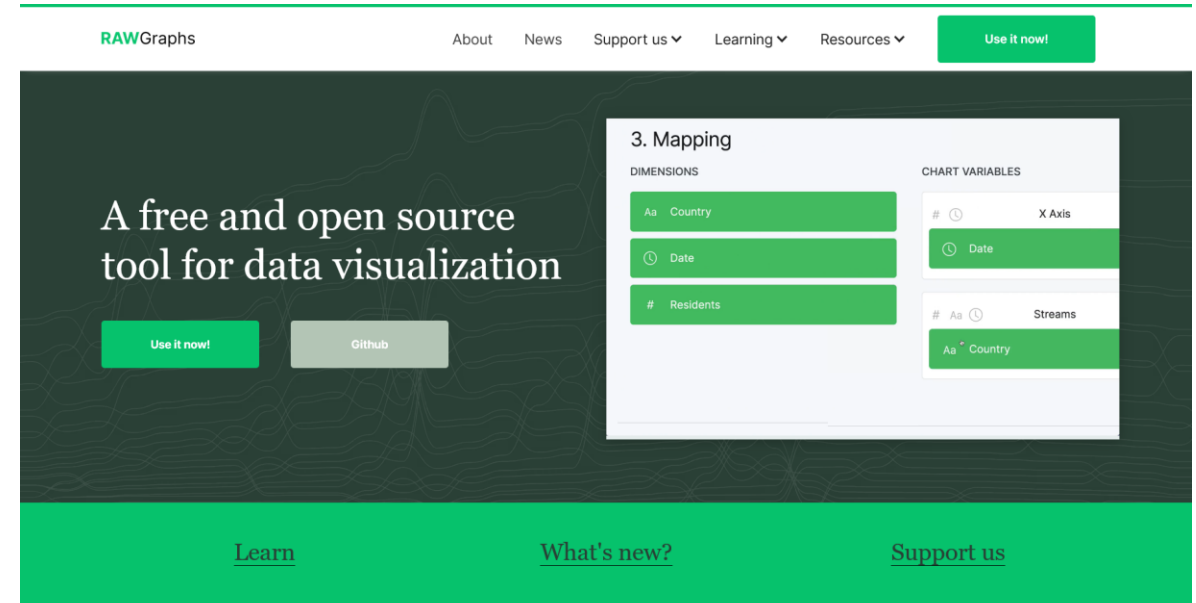
Source: Bar charts of Gorton and Denton By-Election Results, 26 Feb 2026, data from [https://manchester.gov.uk/directory\\_record/538292/parliamentary\\_gorton\\_and\\_denton\\_by-election\\_-\\_26\\_february\\_2026](https://manchester.gov.uk/directory_record/538292/parliamentary_gorton_and_denton_by-election_-_26_february_2026) in Excel and RawGraphs by the authors

# Desbarats Recommendations for Bar Charts

- Include “0” in the scale.
- Label “zero-length” bars.
- Legends at the top of the Chart.
- Sort bars meaningfully; ascending, descending.
- Use color intentionally.
- Label directly whenever possible: add data labels on bars when helpful.
- Aim for a small number of categories.

# RAWGraphs

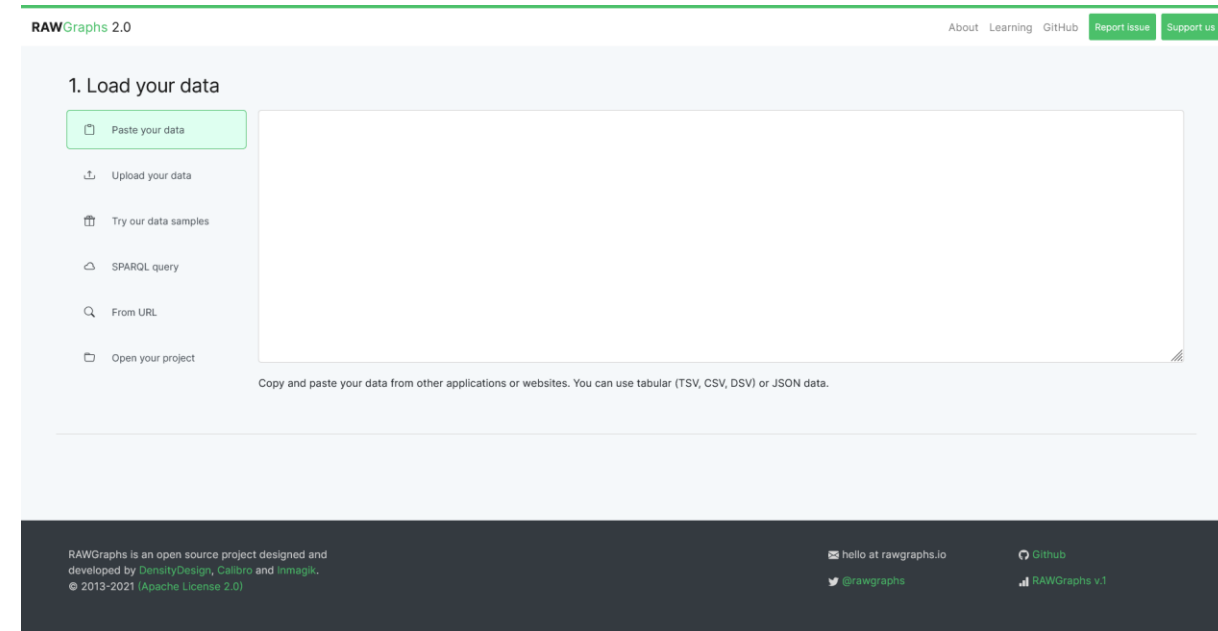
- Free to use and open source.
- Import data from CSV files.
- Flexible setup for creating different visualizations from the same data.
- Export chart in SVG, PNG, or JPEG formats.
- Supports a wide range of custom and uncommon chart types.
- [rawgraphs.io](https://rawgraphs.io)



Source: Screenshot of RAWGraphs by the author.

# RAWGraphs Custom Chart

- Supports a wide range of custom and non-standard chart types.
- Highly customizable to fit different data storytelling needs.
- Flexible chart configurations for unique visualization designs.
- [app.rawgraphs.io/](https://app.rawgraphs.io/)



Source: Screenshot of RAWGraphs chart section by the author.

# HCC Bar Chart

- Many more options than the standard bar chart.
- More chart variants than standard.
- Default settings correspond to Desbarats recommendations.
- <https://gitlab.tugraz.at/hccbarchart>

# HCC Bar Chart Settings

- Chart customization.
- Axis customization.
- Artistic customization.
- Grid customization.

# Chart Customization

CHART ⊖

Add title  Yes

**Chart title**

Title position  ▾

Bar chart type  ▾

Change Max Number of Columns  ▾

Padding between sets  ▾

Padding between bars  ▾

Bars orientation  ▾

Sort X axis by  ▾

Source: Screenshot of RAWGraphs HCC Bar Chart, chart section by the author.

# Axes Customization

**AXES** -

Show X axis  Yes

Show Y axis  Yes

**X Axis title text**

**Y Axis title text**

set X Axis title font size  ⬆️⬇️⬆️

Set Y Axis title font size  ⬆️⬇️⬆️

set X Axis label font size  ⬆️⬇️⬆️

Set Y Axis label font size  ⬆️⬇️⬆️

X axis title orientation  ⬆️⬇️⬆️

Change Y axis title orientatio  ⬆️⬇️⬆️

Source: Screenshot of RAWGraphs HCC Bar Chart, axes section by the author.

# Grid Customization

GRID ⊖

Edit Grid  No

Show vertical grid lines  No

Show horizontal grid lines  No

Grid style  ▾

Grid opacity  ▾

Source: Screenshot of RAWGraphs HCC Bar Chart, grid section by the author.

# Artistic Customization

ARTISTIC ⊖

Hand-drawn style  No

Edit Roughness

Change fill style  ⬆

Source: Screenshot of RAWGraphs HCC Bar Chart, artistic section by the author.

# Live Demo.

Thank you.