Trend

- Configuration options
  - Panel options
  - X axis options
  - Tooltip options
  - Legend options
  - Graph styles options
  - Axis options
  - Standard options
  - Data links and actions
  - Value mappings
  - Thresholds
  - Field overrides

Trend visualizations should be used for datasets that have a sequential, numeric x-field that is not time. Some examples are function graphs, rpm/torque curves, supply/demand relationships, and elevation or heart rate plots along a race course (with x as distance or duration from start).

For example, you could represent engine power and torque versus speed where speed is plotted on the x-axis and power and torque are plotted on the y-axes:

{{< figure src="/media/docs/grafana/screenshot-trend-visualization-v12.0.png" max-width="750px" alt="Trend engine power and torque curves" >}}

Trend visualizations support all visual styles and options available in the time series visualization with these exceptions:

- No annotations or time regions
- No shared cursor/crosshair
- No multi-timezone x-axis
- No ability to change the dashboard time range using drag-selection

Trend visualizations require at least two numeric fields. The x-field must use ascending numeric values. If the values aren't ascending, Grafana shows an error. When multiple frames or queries

exist, you should use a join transformation on the x-fields to produce a single frame.

Configuration options

{{< docs/shared lookup="visualizations/config-options-intro.md" source="grafana" version="<GRAFANA_VERSION>" >}}

Panel options

{{< docs/shared lookup="visualizations/panel-options.md" source="grafana" version="<GRAFANA_VERSION>" >}}

X axis options

In the **X field** option, select a numeric field that contains ascending values.

Tooltip options

{{< docs/shared lookup="visualizations/tooltip-options-2.md" source="grafana" version="<GRAFANA_VERSION>" leveloffset="+1" >}}

Legend options

{{< docs/shared lookup="visualizations/legend-options-1.md" source="grafana" version="<GRAFANA_VERSION>" >}}

Graph styles options

The options under the **Graph styles** section let you control the general appearance of the graph, excluding color. These options apply to numeric-x series.

{{< docs/shared lookup="visualizations/graph-styles-options.md" source="grafana" version="<GRAFANA_VERSION>" >}}

Axis options

{{< docs/shared lookup="visualizations/axis-options-2.md" source="grafana" version="<GRAFANA_VERSION>" leveloffset="+1" >}}

Standard options

{{< docs/shared lookup="visualizations/standard-options.md" source="grafana" version="<GRAFANA_VERSION>" >}}

Data links and actions

{{< docs/shared lookup="visualizations/datalink-options-2.md" source="grafana" version="<GRAFANA_VERSION>" >}}

Value mappings

{{< docs/shared lookup="visualizations/value-mappings-options.md" source="grafana" version="<GRAFANA_VERSION>" >}}

Thresholds

{{< docs/shared lookup="visualizations/thresholds-options-1.md" source="grafana" version="<GRAFANA_VERSION>" >}}

Field overrides

{{< docs/shared lookup="visualizations/overrides-options.md" source="grafana" version="<GRAFANA_VERSION>" >}}

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