Chart Visualization Report

Test Cases and Edge Cases

Overview

This report demonstrates various chart visualization capabilities, including handling of different data scenarios and edge cases. Each chart is accompanied by a description of its purpose and key features.

Test Cases Included:

• Standard Line Chart

• Single Data Point

• Zero Values Chart

• Profit/Loss Chart

• Large Value Bar Chart

• Small Decimal Values

Standard Line Chart

A typical line chart showing monthly sales data with multiple data points.

Data Values:

Label	Value
Jan	1,000.00
Feb	1,500.00
Mar	1,200.00
Apr	1,700.00
May	1,600.00

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Single Data Point

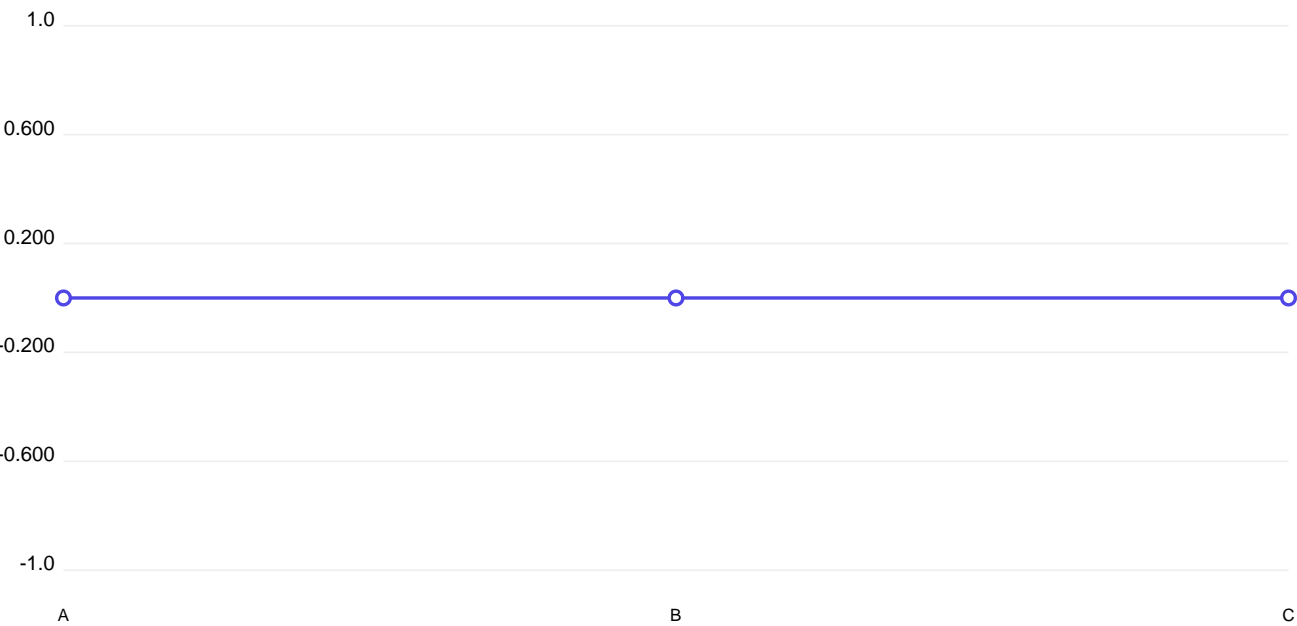Edge case: Chart with only one data point, centered in the visualization.

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110.0 ─────────────────────────────────────────────

106.0 ─────────────────────────────────────────────

102.0 ─────────────────────────────────────────────
                             ○
 98.0 ─────────────────────────────────────────────

 94.0 ─────────────────────────────────────────────

 90.0 ─────────────────────────────────────────────
                        Single Point
```
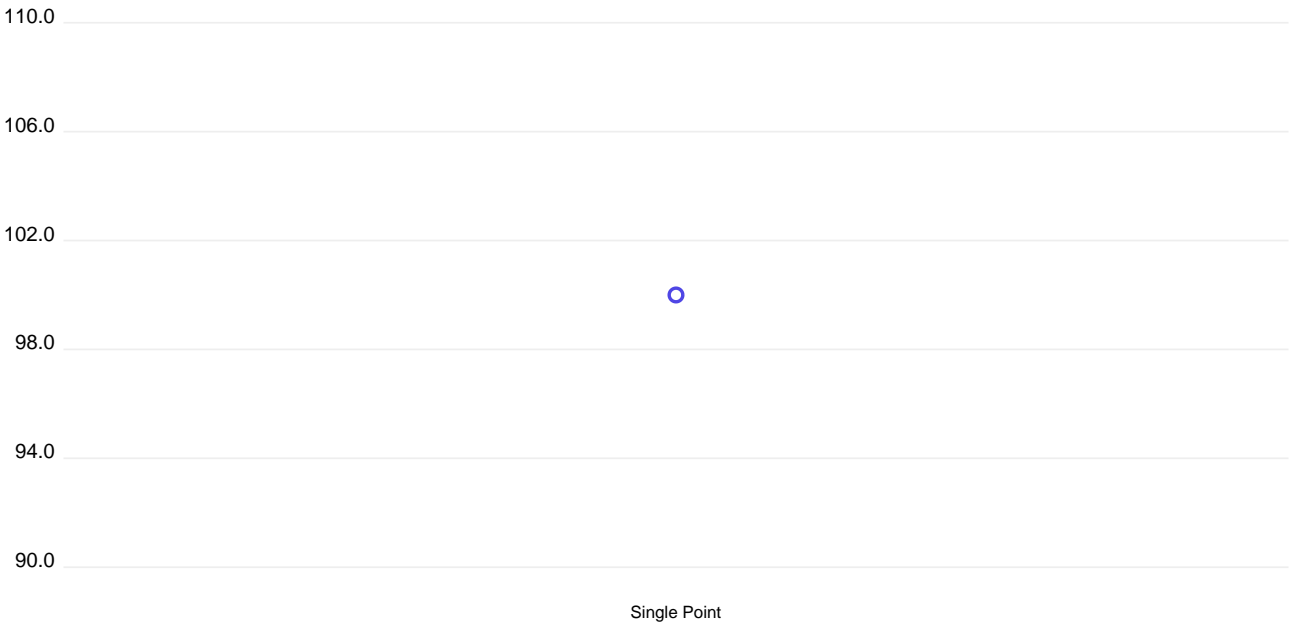
Data Values:

Label	Value
Single Point	100.00

Zero Values Chart

Edge case: Chart handling multiple zero values with proper scaling.

Data Values:
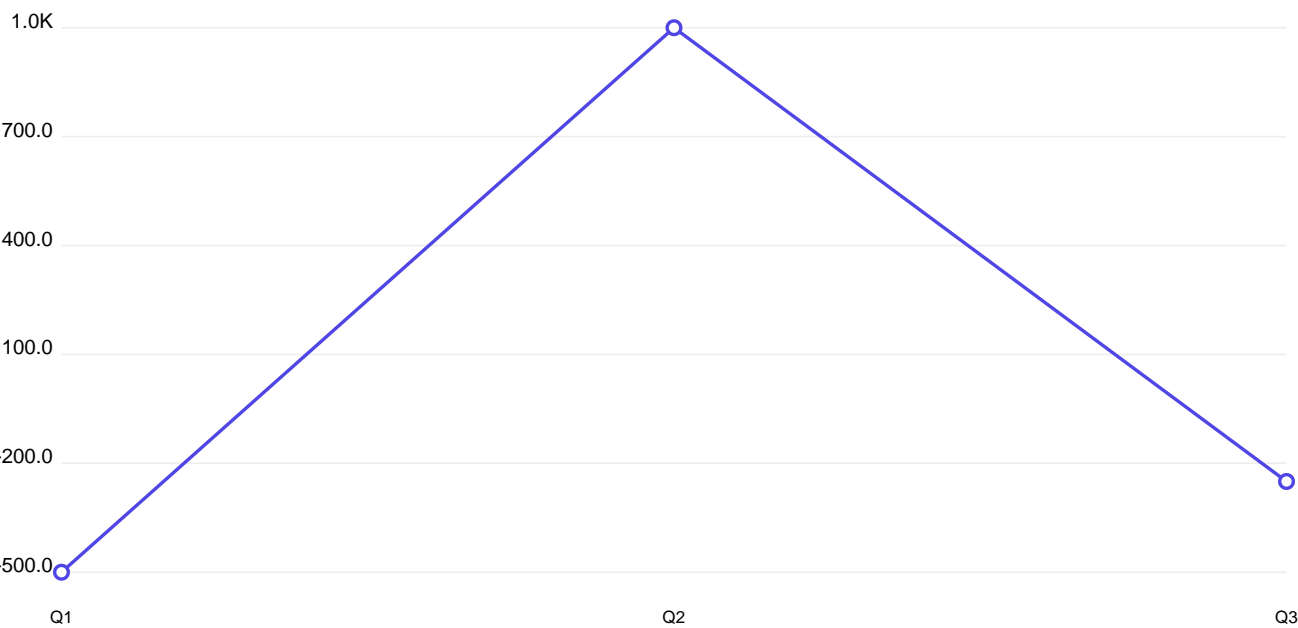
Label	Value
A	0.00
B	0.00
C	0.00

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Profit/Loss Chart

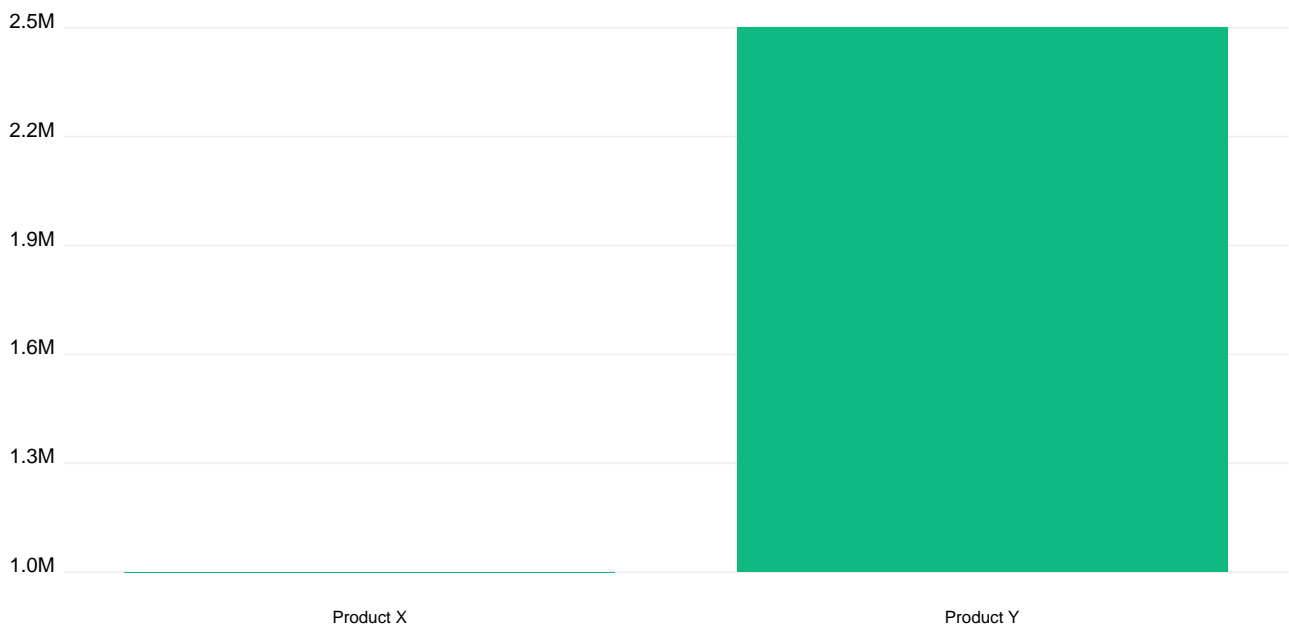Chart showing both positive and negative values, useful for financial data.

Data Values:

Label	Value
Q1	-500.00
Q2	1,000.00
Q3	-250.00

Large Value Bar Chart

Bar chart handling large numbers with automatic K/M suffix formatting.

Data Values:
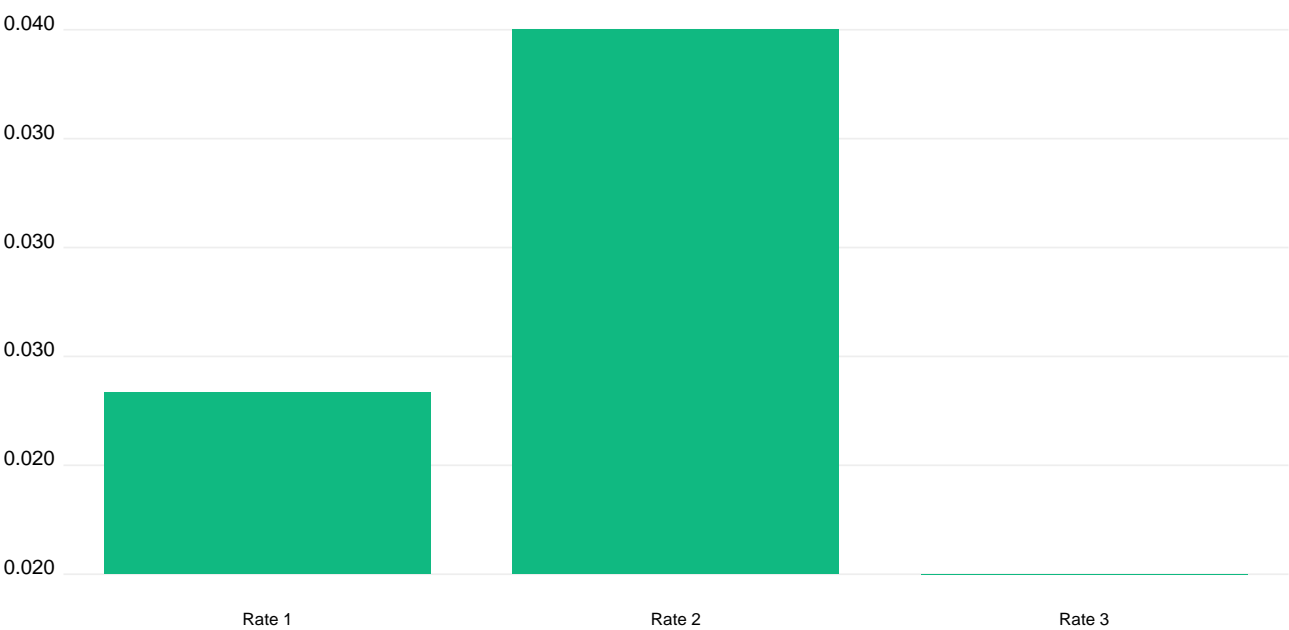
Label	Value
Product X	1,000,000.00
Product Y	2,500,000.00

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Small Decimal Values

Chart handling very small decimal values with appropriate precision.

Data Values:

Label	Value
Rate 1	0.03
Rate 2	0.04
Rate 3	0.02