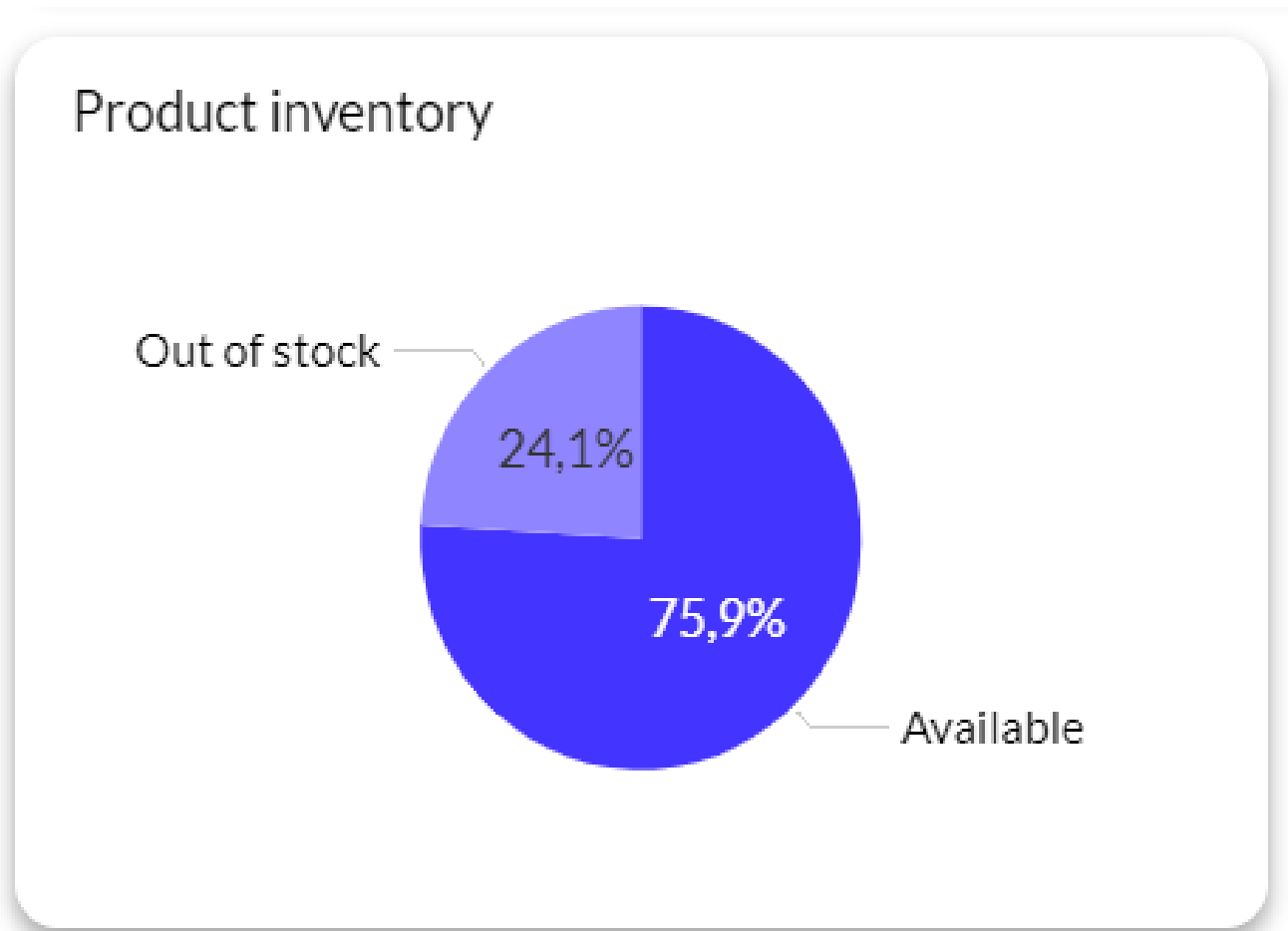


# 1

## Pie Chart



### When to use

When you want to show **simple proportions** (like 25%,75%).

### Use case

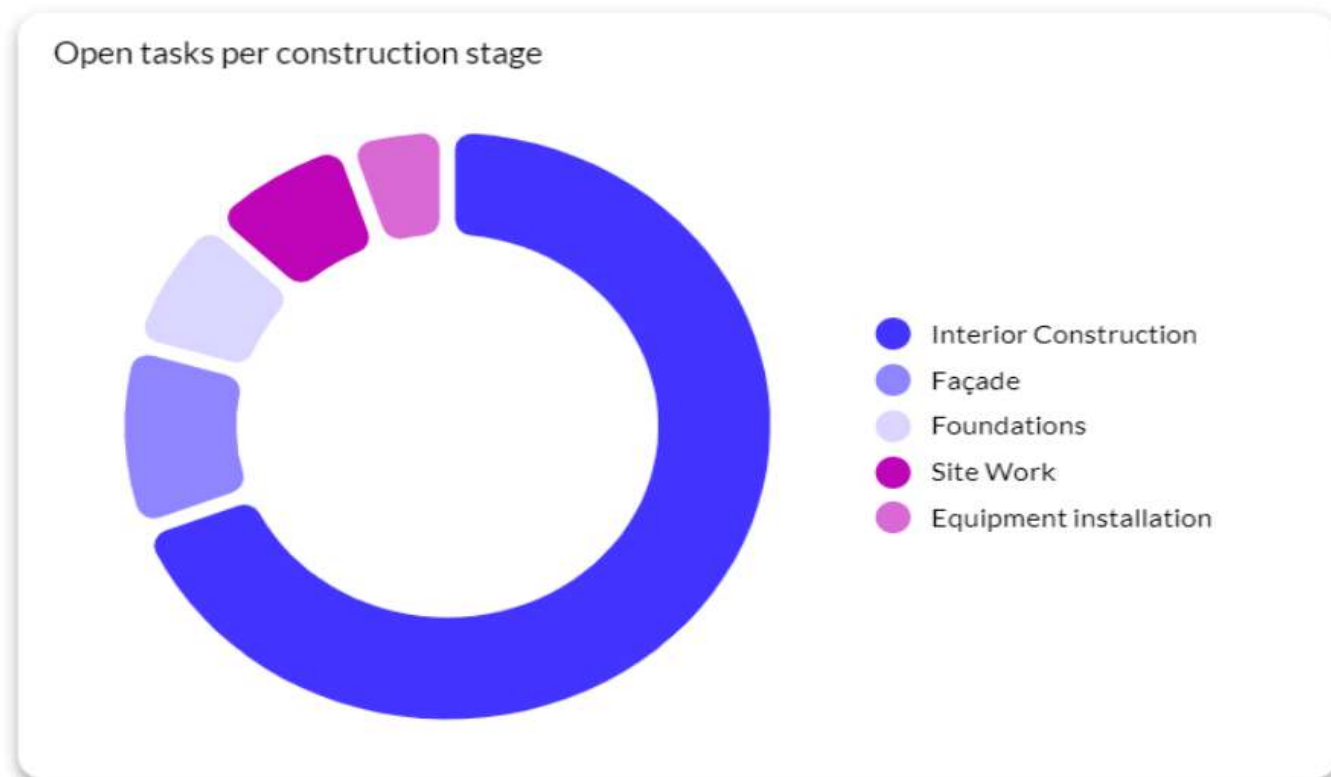
Showing how your ₹1,000 monthly expenses are split: **40% food, 30% rent, 30% other**

### Tips

- Please Don't Use more than 5 slices or it Will gets confusing
- Always start slices at 12 o'clock, going clockwise
- Sort slices from largest to smallest
- Never use 3D pies

# 2

## Donut Chart



### When to use

When **showing parts of a whole**, but with a visual focus on the **center number** (like total sales).

### Use case

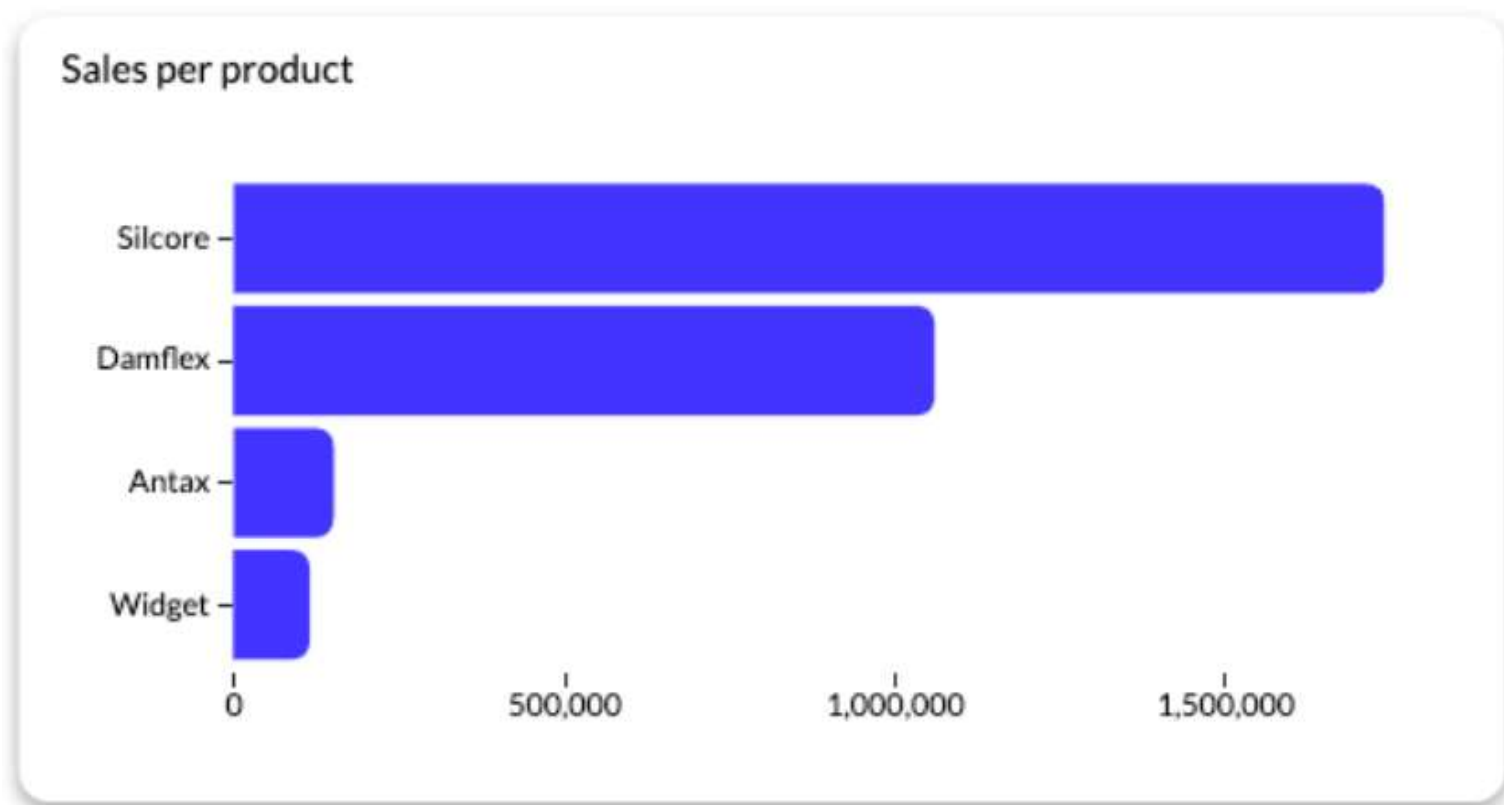
- Showing market share percentage for 4–5 competing brands.
- To show where most of your website visitors come from.

### Tips

- Use the center space to show total value or percent
- Avoid tiny slices (group them under “Others”)
- Not good for comparing multiple donut charts side-by-side

# 3

## Bar Chart



### When to use

To compare categories side-by-side, like comparing sales for products, or scores for students.

### Use case

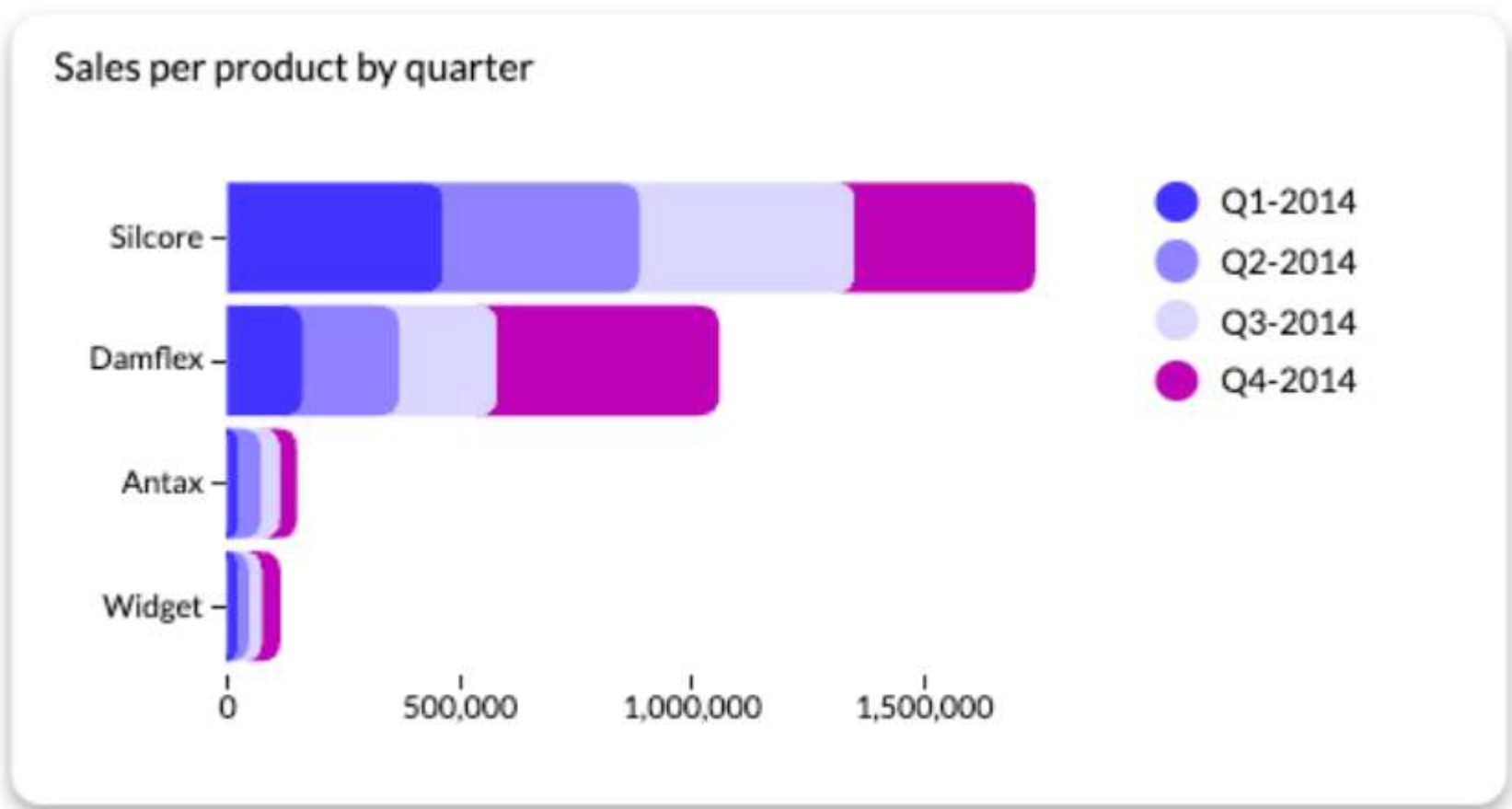
- Compare sales of T-shirts, jeans, and shoes
- Comparing monthly sales for different stores

### Tips

- Sort bars from biggest to smallest, easier to read
- Use the same color unless you want to highlight something
- Please don't skip the Y-axis label (people forget what they're looking at)
- Horizontal bars work better for long labels

# 4

# Stacked Bar Chart



## When to use

When you want to **compare overall totals** and see what they're made of like **total sales split by regions**.

## Use case

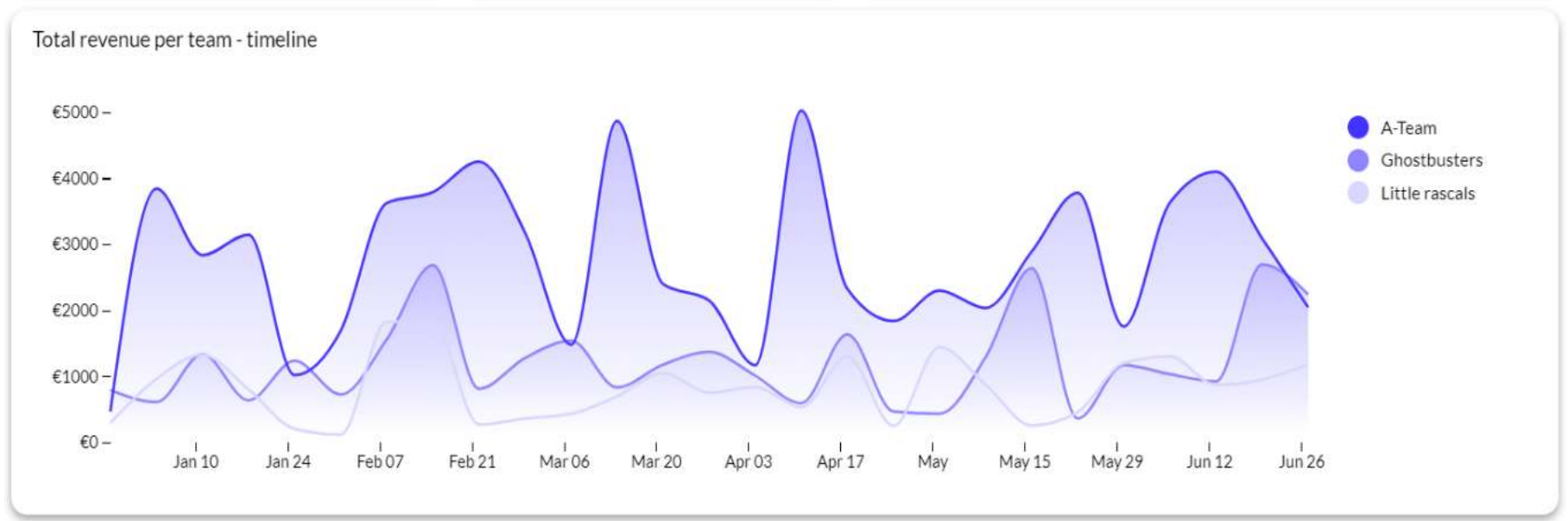
Comparing total sales across regions with a breakdown by product type.

## Tips

- Don't stack more than 4–5 categories becomes hard to compare
- Show total on top of each bar (it's not obvious!)
- Color categories consistently across charts

# 5

# Line Chart



## When to use

When you want to **show how something changes over time**

## Use case

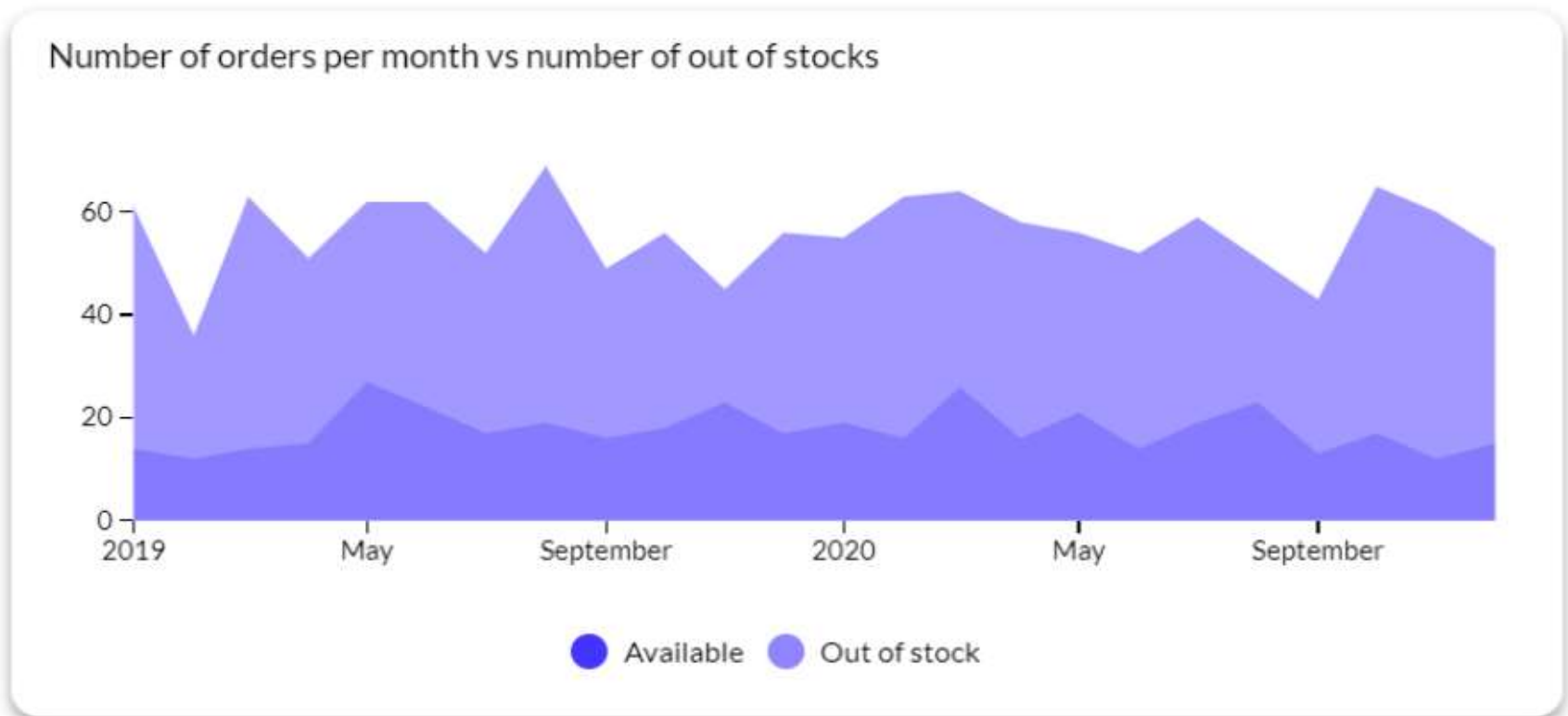
- Showing website traffic over 12 months.
- Tracking stock price changes daily.

## Tips

- Keep the time order correct (left to right).
- Use markers to highlight important points (such as exams or holidays).
- Don't overcrowd with too many lines it's harder to read.

# 6

# Area Chart



## When to use

An Area Chart shows **how values change over time**, with filled areas making it easy to compare **multiple categories**.

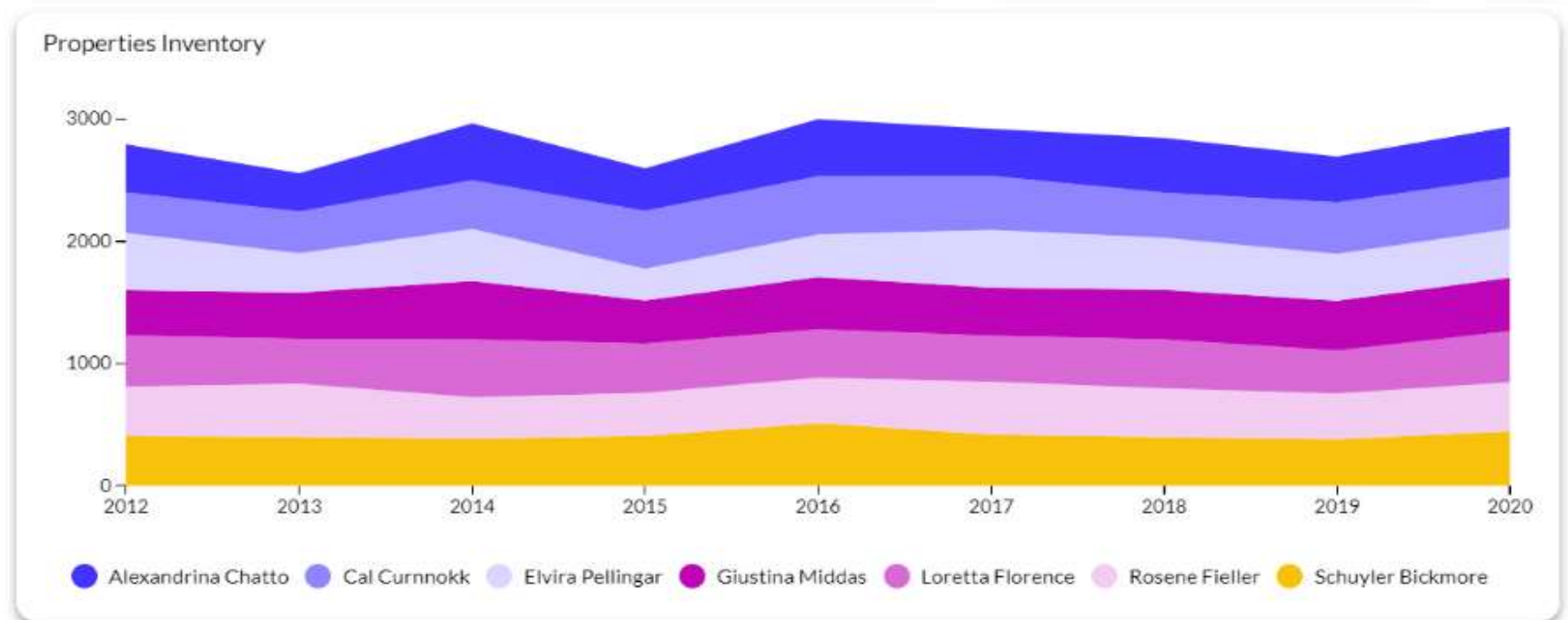
## Use case

- Tracking sales growth for different products over the years.
- Showing how each energy source contributes to total power generation.

## Tips

- Don't add too many groups, or it gets messy.
- Use see-through colors so overlaps are clear.
- Put the biggest group at the bottom for easy reading.

# 7 Stacked area chart



## When to use

A stacked area chart shows how each category adds up to the total over time, highlighting both trends and contributions.

## Use case

- Showing how different product categories contribute to total sales over years.
- Tracking how energy sources (solar, wind, coal) make up total power generation over time.

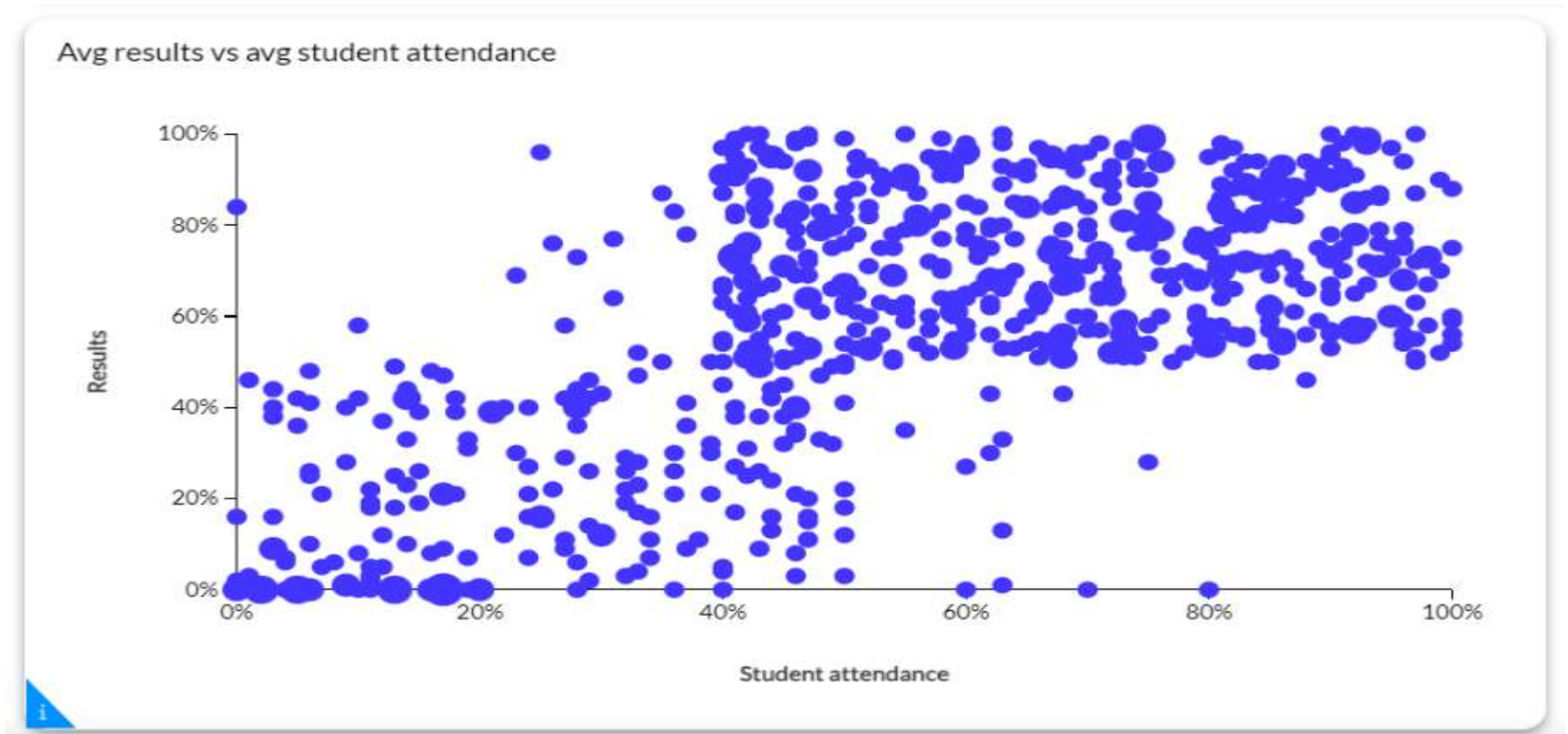
## Tips

- Don't add too many groups, or it will look messy.
- Use soft, see-through colors so layers don't hide each other.
- Put the biggest group at the bottom so it's easier to follow.



# 8

# Scatter Plot



## When to use

A scatter plot shows the **relationship between two variables**

## Use case

- Analysing if higher education levels lead to higher salaries.
- Checking the relationship between product price and customer satisfaction scores.

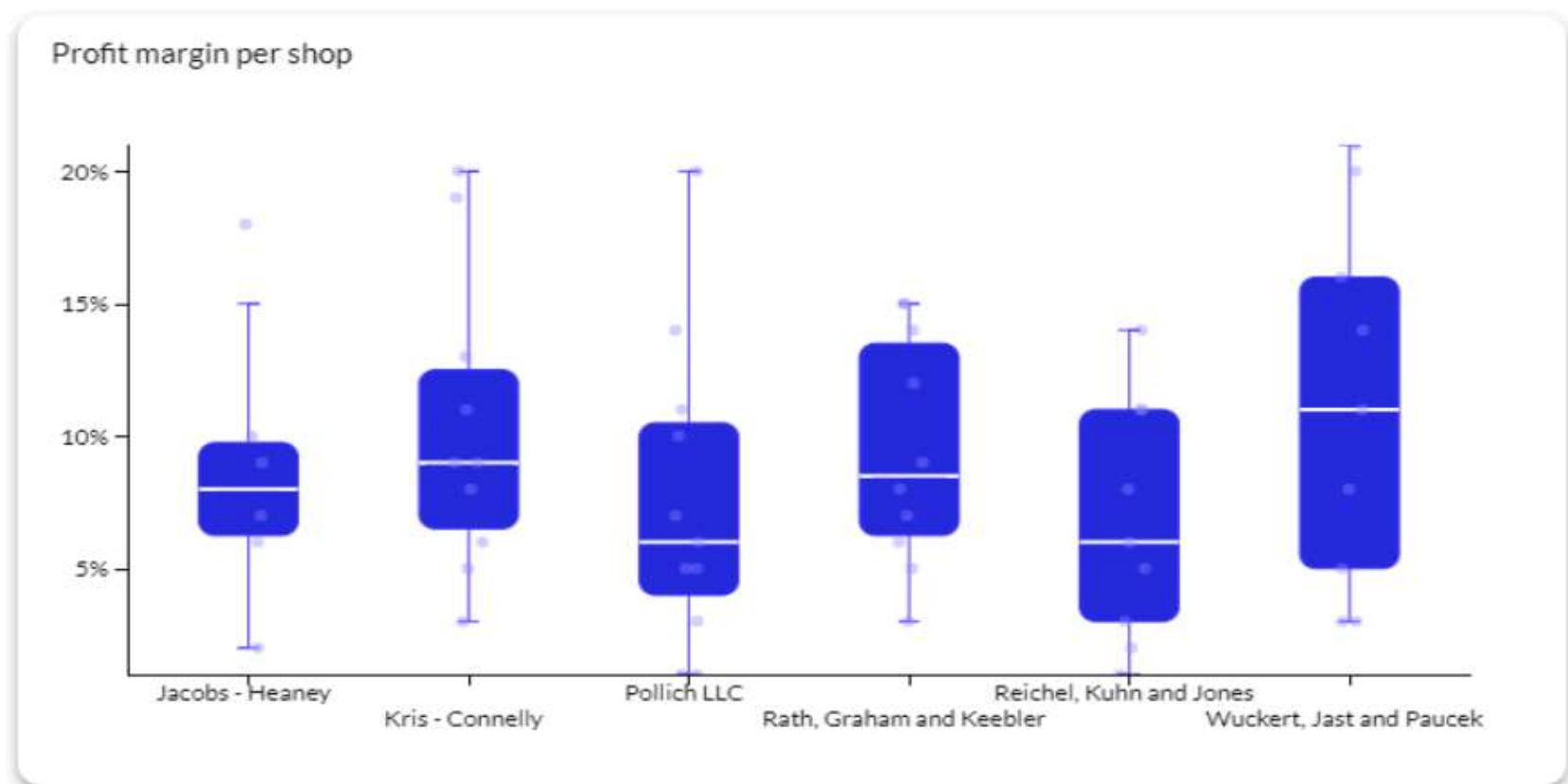
## Tips

- Use fewer points or sample the data if you have too many dots, so it's not cluttered.
- Add a trendline to quickly spot patterns.
- Use color or size to show a third variable.



# 9

# Box Plot



## When to use

When you want to visualize the spread of data, find medians, and identify outliers quickly.

## Use case

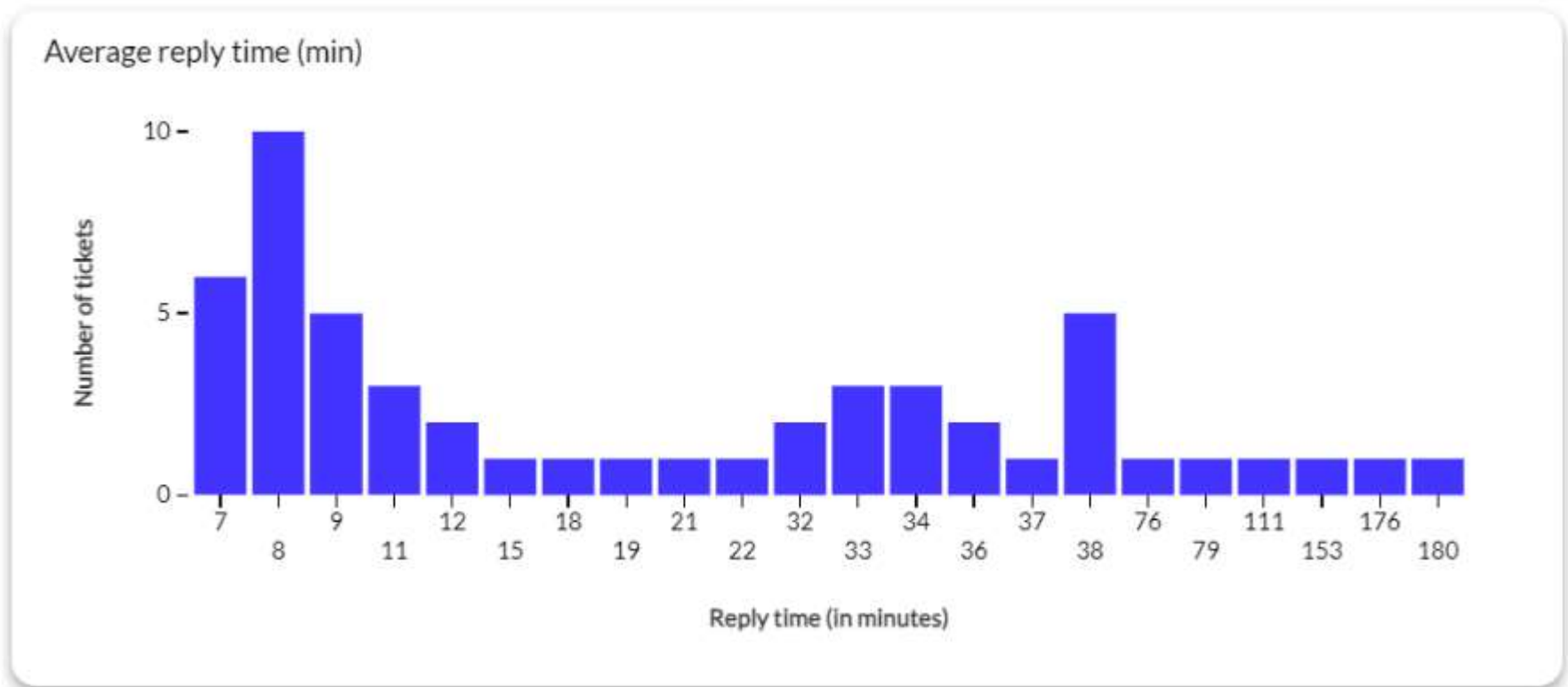
- Comparing exam score distributions across different classes.
- Checking salary ranges in different job roles.

## Tips

- Spot outliers fast they're the dots outside the whiskers.
- Place box plots side by side to compare groups easily.
- Use simple labels so the chart doesn't look messy.
- Works best when you have lots of data, not just a few points.

# 10

# Histogram



## When to use

Use a histogram to see [where most of your data falls and find patterns](#).

It helps you spot groups, common values, or anything unusual.

## Use case

- Checking which age group buys most of a product.
- Seeing common delivery times for online orders.

## Tips

- Pick the right number of bins to show clear patterns without clutter.
- Keep bin sizes equal for fair comparison.
- Use colors to highlight important value ranges.
- Avoid using histograms for small datasets

# 11

# Bubble Chart



## When to use

when you want to **compare multiple categories by size and group them visually using colours.**

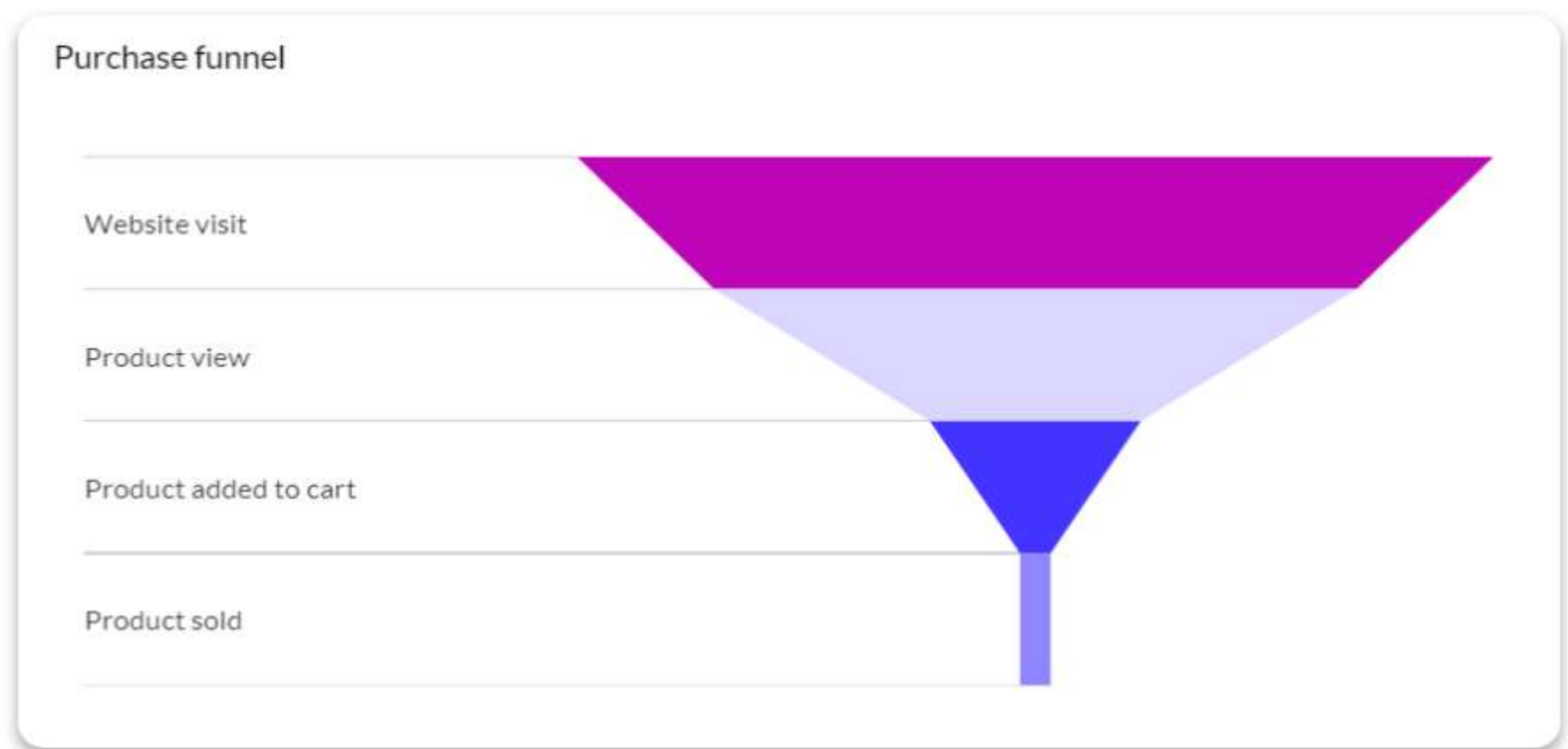
## Use case

- Showing sales volume by product category with bubble size and grouping by region color.
- Comparing social media posts by likes (size) and type (color).

## Tips

- Keep bubble sizes balanced to avoid hiding smaller bubbles.
- Use consistent colors to group related categories.
- Add labels or tooltips for clarity.

# 12 Funnel Chart



## When to use

when you want to **track how many items move through different stages of a process**, showing where drop-offs happen.

## Use case

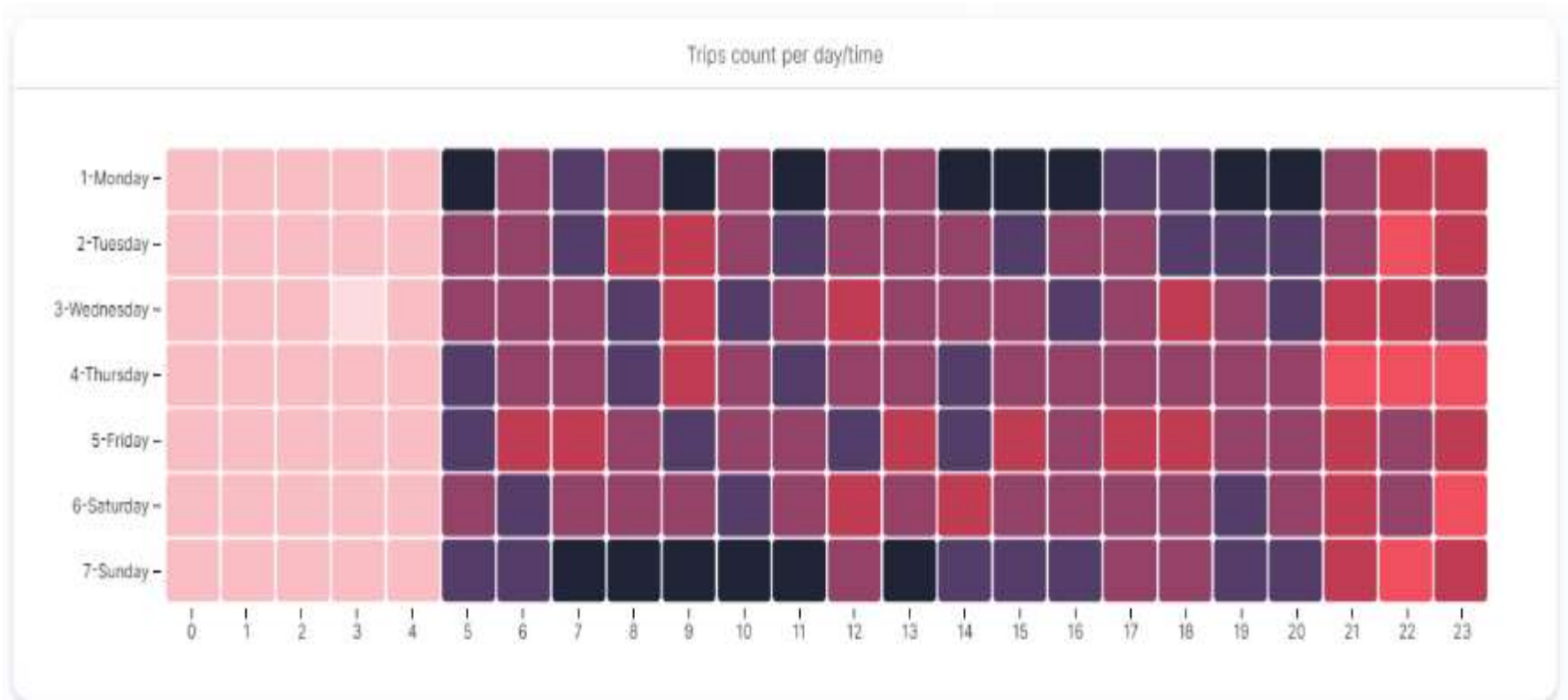
- Tracking sales leads as they move from initial contact to final purchase.
- Showing how many website visitors progress through steps like visit, signup, and purchase.

## Tips

- Keep stage names short and clear for easy reading.
- Use contrasting colors to highlight big drop-offs.
- Avoid too many stages 5 to 7 is ideal for clarity.
- Add percentages to show conversion rates between stages.

# 13

# HeatMap



## When to use

Use a heatmap to quickly spot patterns, trends, or high and low values across two categories using color intensity.

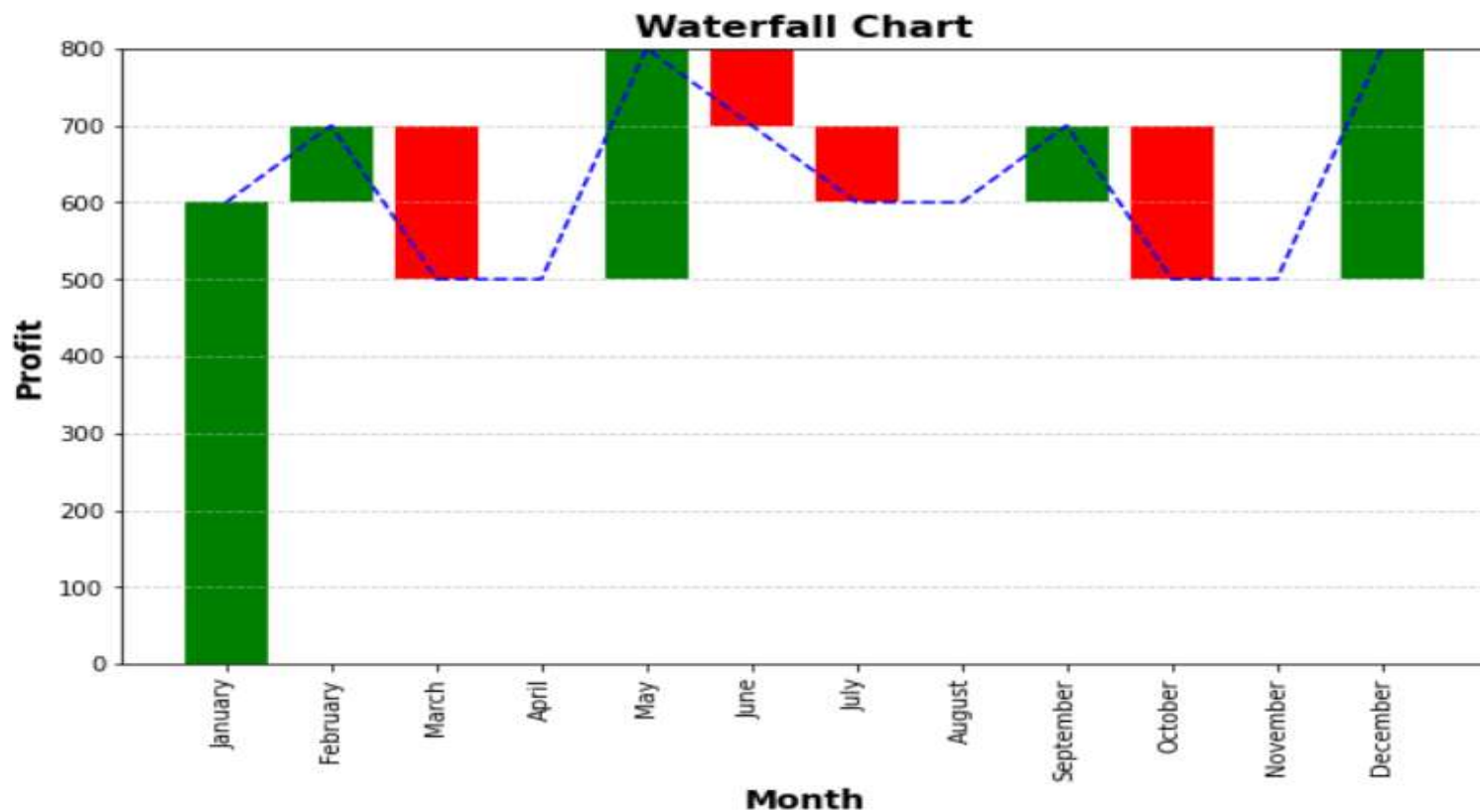
## Use case

- Showing sales performance by product and region.
- Visualizing website traffic by day of the week and hour.

## Tips

- Use a clear color gradient from low to high to make differences obvious.
- Avoid using too many color shades to keep it simple.
- Label rows and columns clearly for easy understanding.

# 14 Waterfall Chart



## When to use

when you want to show how a value changes step-by-step with positive and negative impacts leading to a final total.

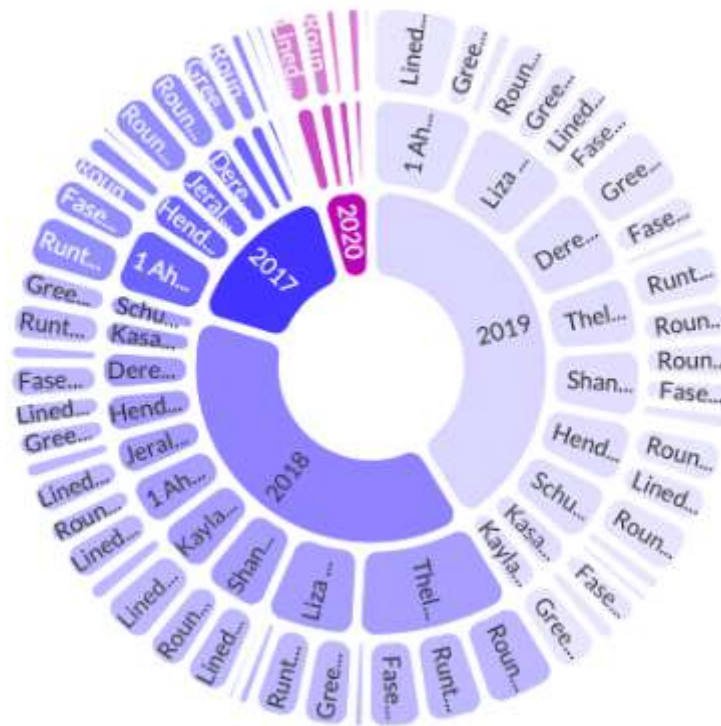
## Use case

- Showing how a company's profit changes from revenue, expenses, and taxes.
- Visualizing monthly cash flow changes over a year.

## Tips

- Use different colors for positive and negative changes to make them clear.
- Start and end bars should stand out (often bigger or different color).
- Keep the order logical to tell a clear story.

# 15 Sunburst chart



## When to use

Use a sunburst chart to explore and visualize hierarchical data with multiple levels, showing how parts relate to the whole.

## Use case

- Displaying a company's organizational structure by department and team.
- Visualizing file storage usage by folder and subfolder.

## Tips

- Limit the number of hierarchy levels to avoid clutter.
- Use distinct colors for top-level categories and shades for sub-levels.
- Add labels or tooltips to help identify smaller segments.
- Avoid too many small slices; group minor categories as "Others."