

# Main Title

Subtitle or Description

Additional Information

# Beamer Template Collection

28 Professional Slide Layouts with Madrid Theme

Template System

Academic & Professional Presentations

December 7, 2025

- 1 Content Layouts
- 2 Visual Layouts
- 3 Comparisons and Analysis
- 4 Specialized Formats
- 5 Data Visualization
- 6 Multi-Chart Layouts

## Content Layouts

## Left Column Header

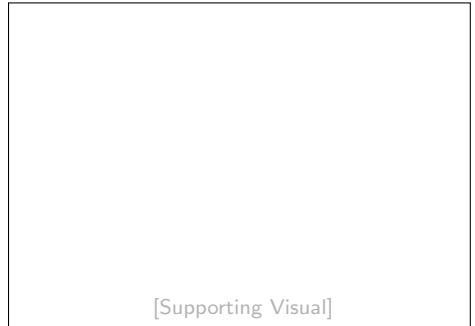
Main content for the left side.

Key points:

- First key point
- Second key point
- Third key point

## Right Column Header

Supporting content for the right side.



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Key takeaway in one sentence

## Definition

A mathematical concept defined:

$$f(x) = ax^2 + bx + c$$

Properties:

- Property:  $a \neq 0$
- Vertex:  $x = -\frac{b}{2a}$
- Discriminant:  $\Delta = b^2 - 4ac$

## Example

Specific instance:

$$f(x) = 2x^2 + 3x + 1$$

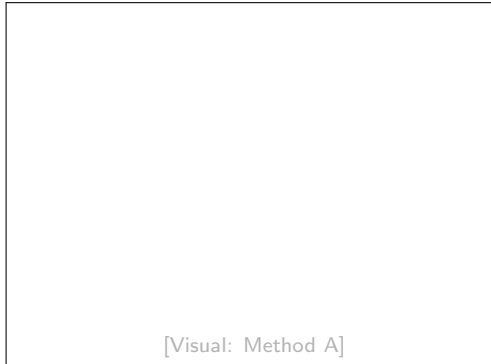
Result: Minimum at  $x = -\frac{3}{4}$



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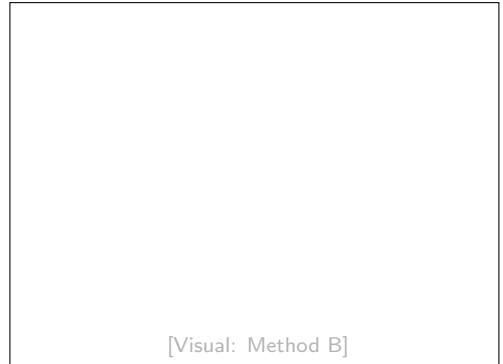
Theory paired with visual example

## Approach A



- Key characteristic 1
- Key characteristic 2

## Approach B



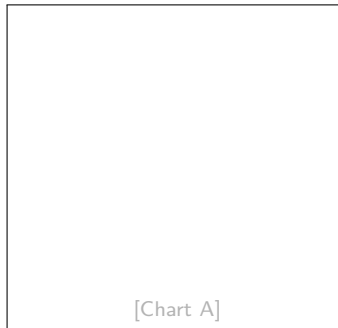
- Key characteristic 1
- Key characteristic 2

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Use visuals to show differences

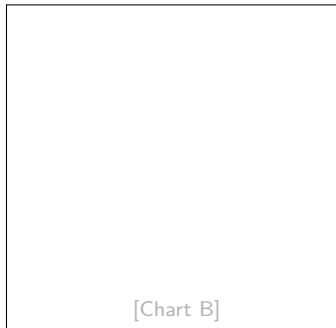
# Three-Way Visual Comparison

**Category A**



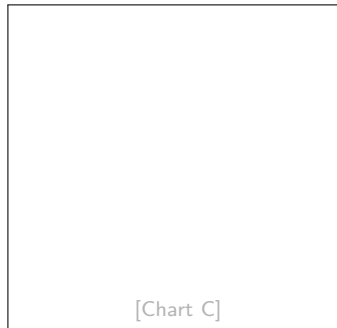
- Point 1
- Point 2

**Category B**



- Point 1
- Point 2

**Category C**



- Point 1
- Point 2

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**Three-way comparisons need strong visuals**



## Visual Layouts

## Main Topic Introduction

Key concepts:

- Concept one with brief explanation
- Concept two with additional details



[Image/Chart Placeholder]

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Visuals complement textual content

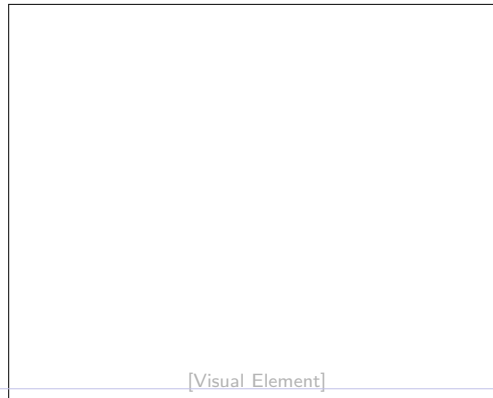
## Text Content

Explanation of concept.

Important points:

- First observation
- Second observation
- Third observation

Formula:  $E = mc^2$



Combine text and visuals

## Comparisons and Analysis

## Definition

Formal statement of concept.

## Key Properties

- Essential property 1
- Essential property 2

## Visual Example



Result: **Verified**

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One clear example beats multiple confusing ones

## Method A



### Strengths

- Top advantage 1
- Top advantage 2

**Limitation:** Key constraint

Focus on the most important trade-off

## Method B



### Strengths

- Top advantage 1
- Top advantage 2

**Limitation:** Key constraint



[Process Flow Diagram: Input -> Step 1 -> Step 2 -> Output]

**Input:** Data source

**Process:** Main action

**Output:** Result

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**Process flows must be visual**

## Category 1

$$a + b = c$$
$$x^2 + y^2 = r^2$$

## Category 2

$$\int_a^b f(x) dx$$
$$\sum_{i=1}^n i = \frac{n(n+1)}{2}$$

## Category 3

$$\nabla \times \vec{F} = 0$$
$$E = \hbar\omega$$

[Formula Visualization/Diagram]



## Key Concepts

- Main idea 1
- Main idea 2
- Main idea 3

## Applications

- Real-world use 1
- Real-world use 2
- Next steps / Further reading

[Summary Dashboard]

Summaries consolidate learning

## Specialized Formats

*Q1: What is the main purpose?*

Answer explaining the primary goal.

*Q2: How does it work?*

Brief explanation of the mechanism.

*Q3: When should it be used?*

Scenarios for application.



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**Anticipating questions improves comprehension**

Thank you

Questions?

[contact@example.com](mailto:contact@example.com)



**Part 1: Foundations**

**Part 2: Intermediate**

**Part 3: Advanced**

**Part 4: Applications**

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**Roadmaps should be visual journeys**

## Input Code

```
def function(x):  
    if x > 0:  
        return x * 2  
    else:  
        return -x
```

## Explanation

Doubles positive, negates negative.

**Output:** 10

## Examples

- $f(5) = 10$
- $f(-4) = 4$
- $f(0) = 0$



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Code with visual output

## Strengths

- + Most important benefit
- + Second key benefit
- + Third key benefit

## Limitations

- Most important drawback
- Second key drawback
- Third key drawback



[Trade-off Visualization]

**Recommendation:** One sentence guidance

[Gantt Chart: Phases 1-4 with milestones]

**Key Milestones:** Prototype (Week 6), Beta (Week 15), Launch (Week 18)

Generate timeline charts using Python



## Primary Sources

- Author (2024): *Main Title*
- Researcher (2023): *Key Paper*
- Expert (2023): *Foundation*

## Online Resources

- Official documentation
- Video tutorials
- Community forums



[QR Code to Resources]

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Curated resources accelerate learning

# Data Visualization

[Full-Size Chart/Visualization]

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**Key insight from the visualization**



[Main Chart/Visualization]

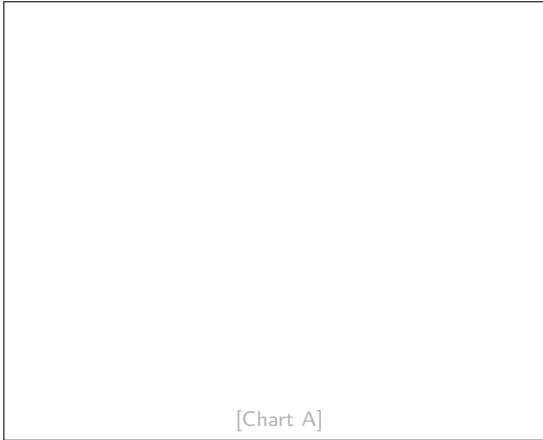
## Key Observations:

- Trend 1: First pattern or insight
- Trend 2: Second pattern or insight
- Trend 3: Third pattern or insight

Methodology notes about the data

## Multi-Chart Layouts

**Chart A Title**



**Chart B Title**



**Direct visual comparison of two related visualizations**

# Multi-Panel Chart Grid

**Panel A**

[Chart A]

**Panel B**

[Chart B]

**Panel C**

[Chart C]

**Panel D**

[Chart D]

Small multiples pattern for comprehensive overview

## Top: Overview Metric

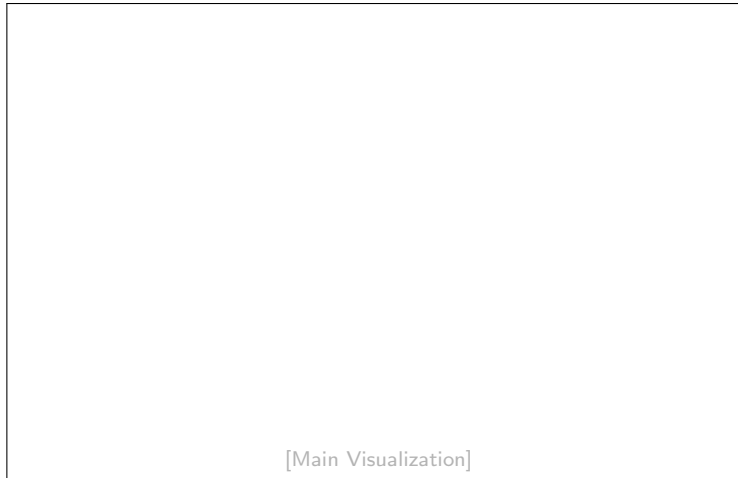
[Chart 1: Primary Visualization]

## Bottom: Detail Breakdown

[Chart 2: Detailed Analysis]

**Hierarchical: overview followed by detail**





## Key Statistics

Metric	Value
Mean	42.5
Median	41.2
StdDev	8.3
N	1,250

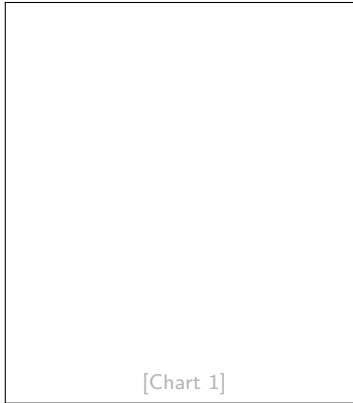
## Legend

- Series A
- Series B

Combine visualization with quantitative summary

# Three-Way Visual Comparison

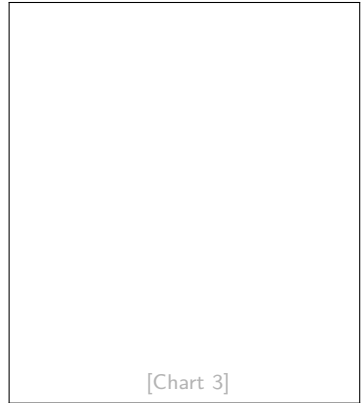
**Scenario 1**



**Scenario 2**



**Scenario 3**

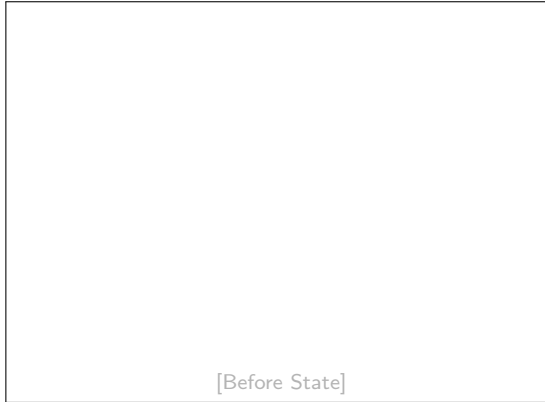


**Insight:** Key differences across scenarios

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**Side-by-side enables pattern recognition**

## Before: Baseline



Metric A: 45.2

Metric B: 23.8

## After: Post-Intervention



Metric A: 52.7 (+16.6%)

Metric B: 19.3 (-18.9%)

Visualizing change reveals intervention effectiveness