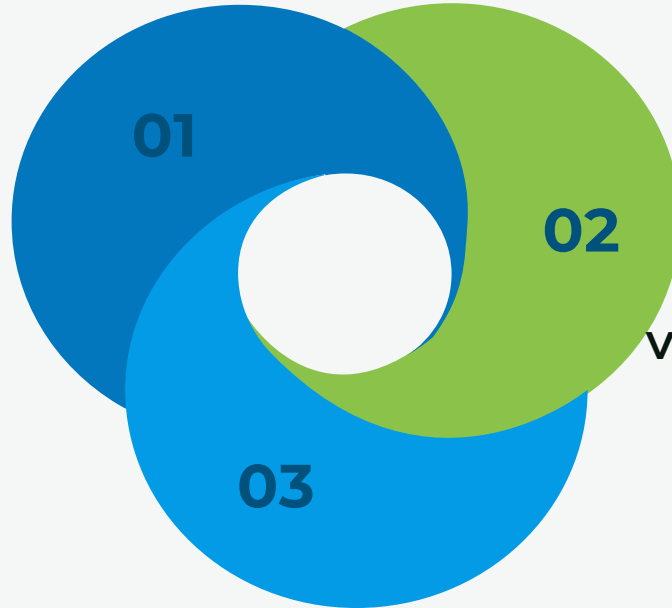# Advanced Visualization Techniques for Complex Data Sets

Introduction
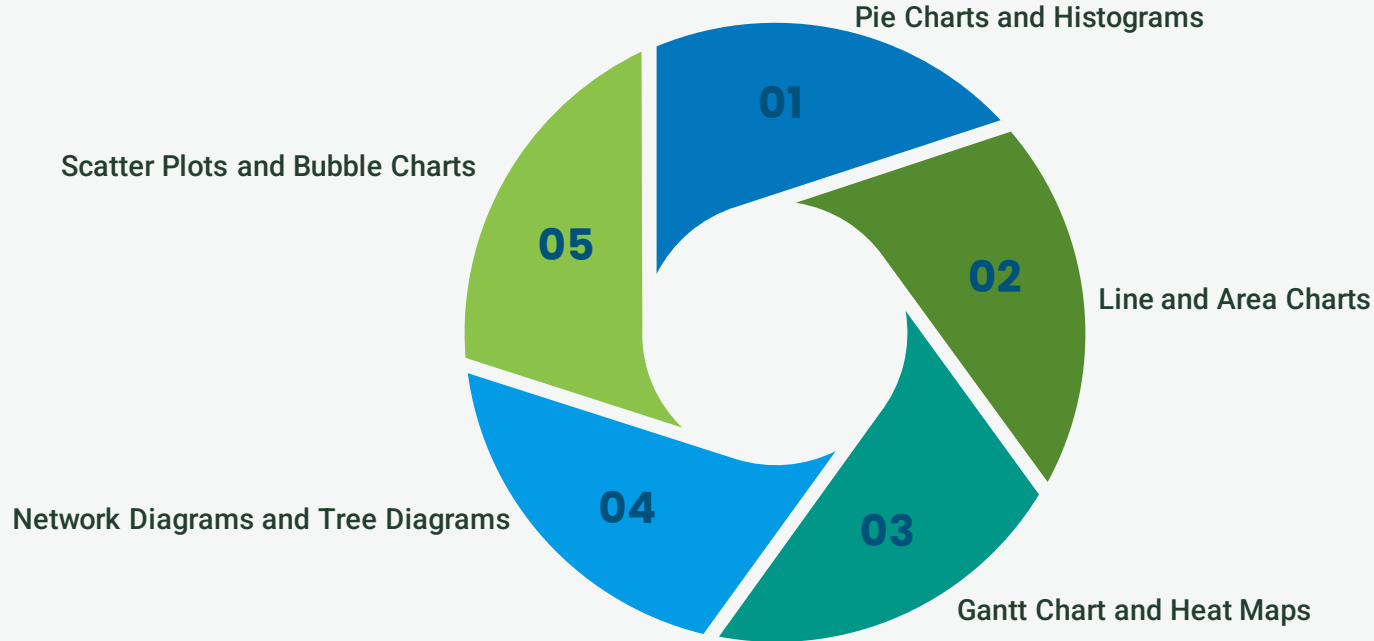

Types of Data Visualization

01

Importance of Visualizing Complex Data

02

(Interactive Visualization & Visualizing Large Data Sets)

03

Data Visualization Best Practices

Types of Data Visualization

Pie Charts and Histograms

01

Scatter Plots and Bubble Charts

05

Line and Area Charts

02

Network Diagrams and Tree Diagrams

04

Gantt Chart and Heat Maps

03

Interactive Visualization

Benefits of Interactive Visualization

01

Highlighting Key Insights

02

Enabling User Interaction

03

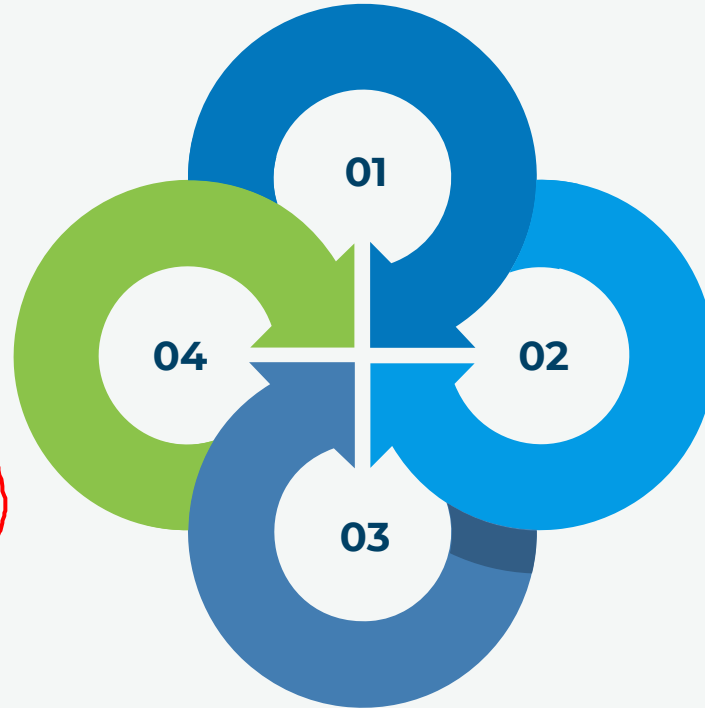**Exploring and Filtering Data**

04
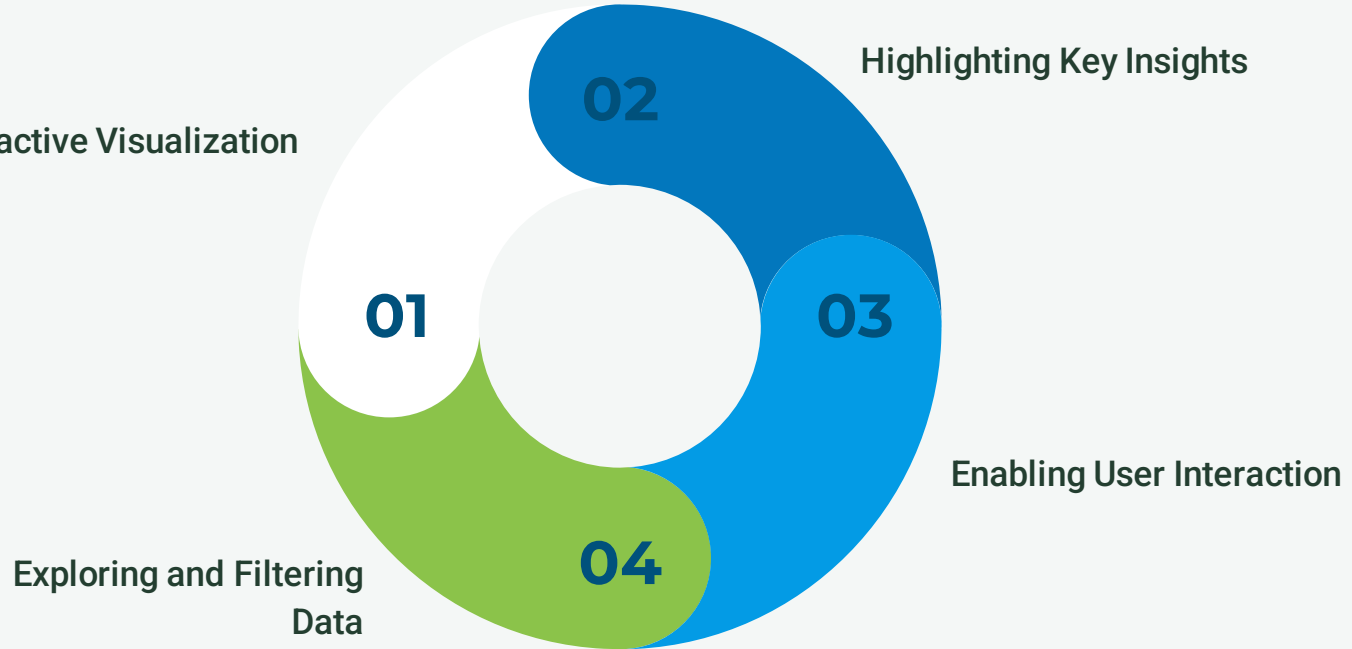
Visualizing Large Data Sets
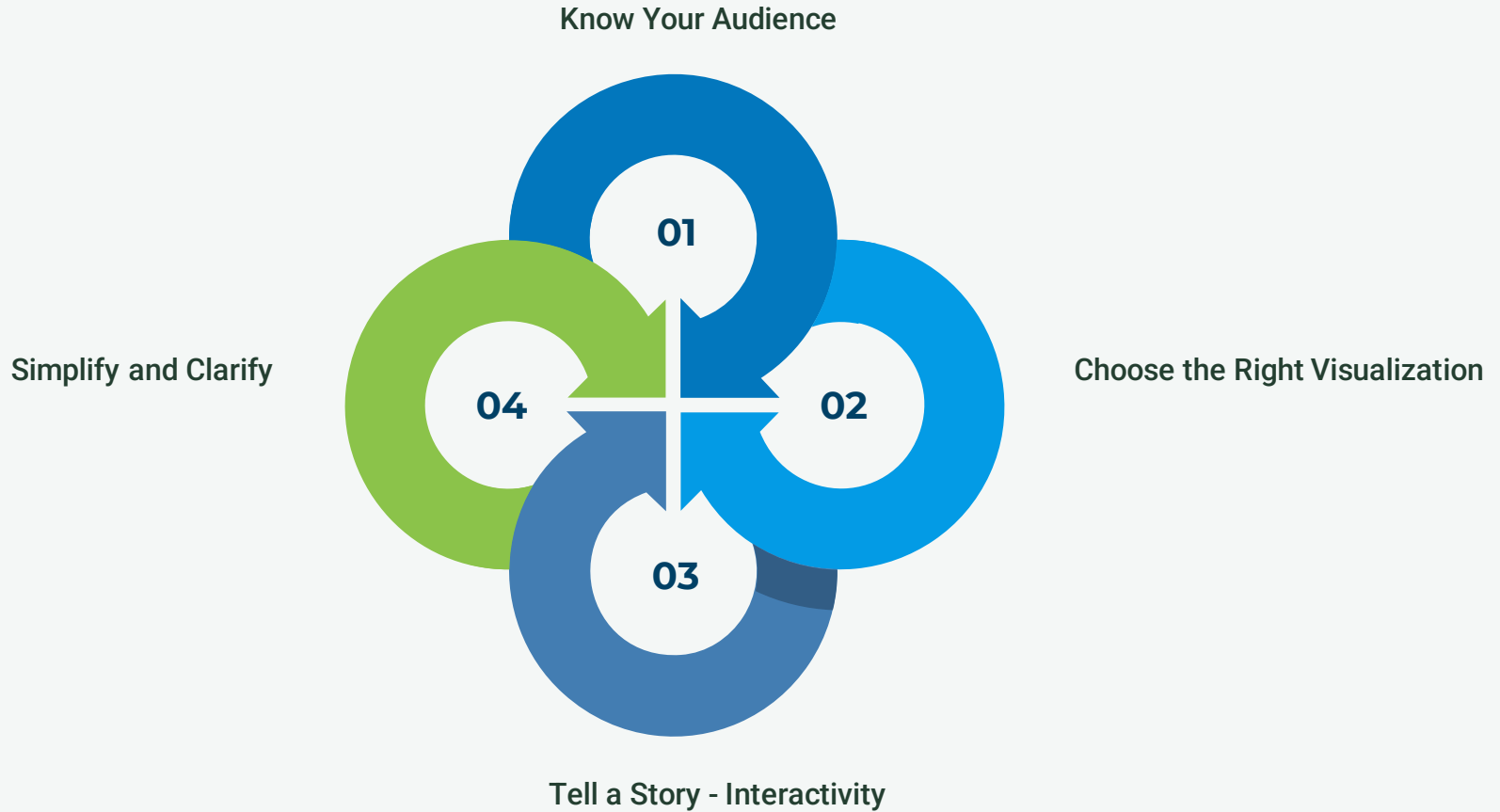
Hierarchical and nested visualizations

Sampling and aggregation techniques

Using data clustering and dimensionality reduction

Data reduction and summarization

01

04

02

03

Data Visualization Best Practices

Know Your Audience

Choose the Right Visualization

Simplify and Clarify

Tell a Story - Interactivity

01

02

03

04

Conclusion

01
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Yapı Kredi Teknoloji
Bahçeşehir Üniversitesi

02 Key takeaways from the presentation

1. **Clear Data for Good Information**
2. **Story Telling for Best Concept**
3. **Goal for more functionality**
4. **Visual Form for best Metaphor**

What Makes a Good Visualization?