

Lesson 17: Matplotlib Basics

Data Science with Python – BSc Course

45 Minutes

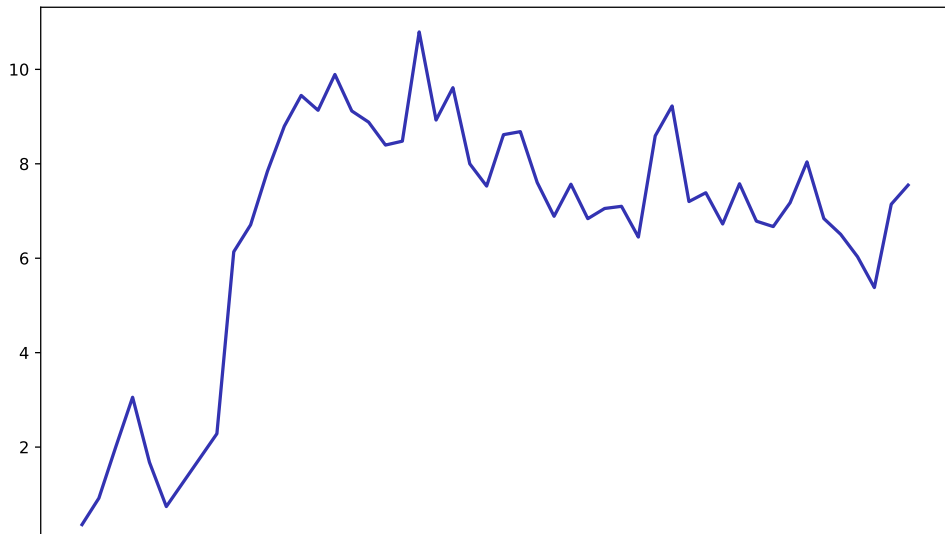
Learning Objectives

After this lesson, you will be able to:

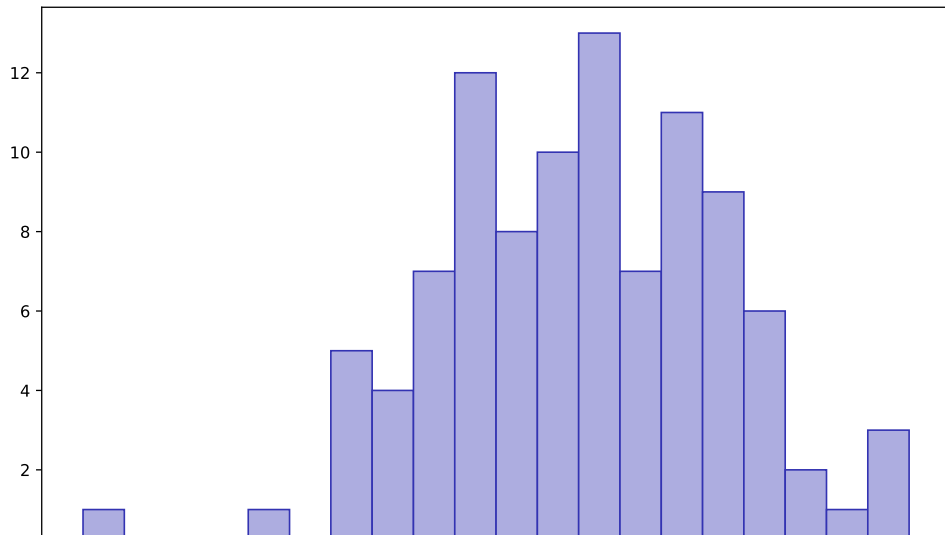
- Create line, bar, and scatter plots
- Customize colors, labels, legends
- Build multi-panel figures
- Add annotations and formatting

Finance application: Statistical analysis of market data

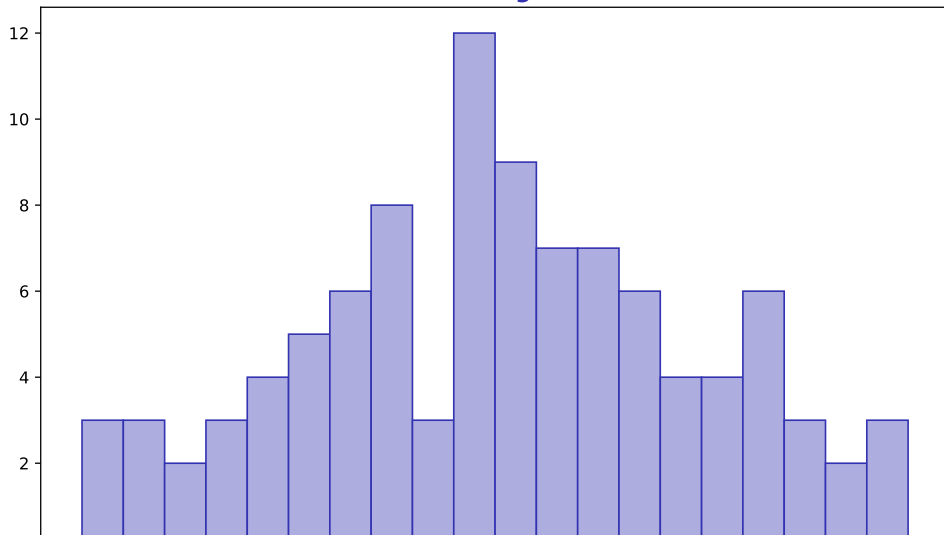
01 Line Plot



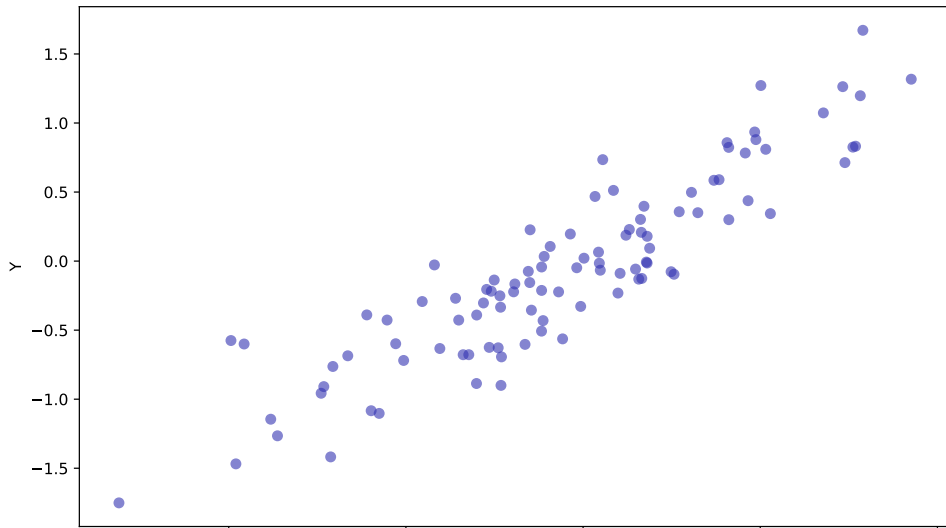
02 Bar Chart

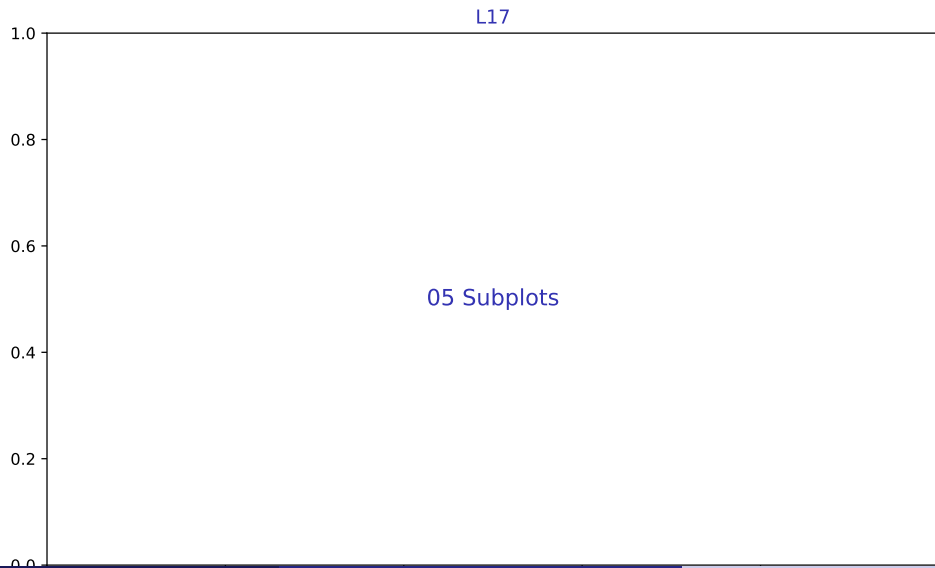


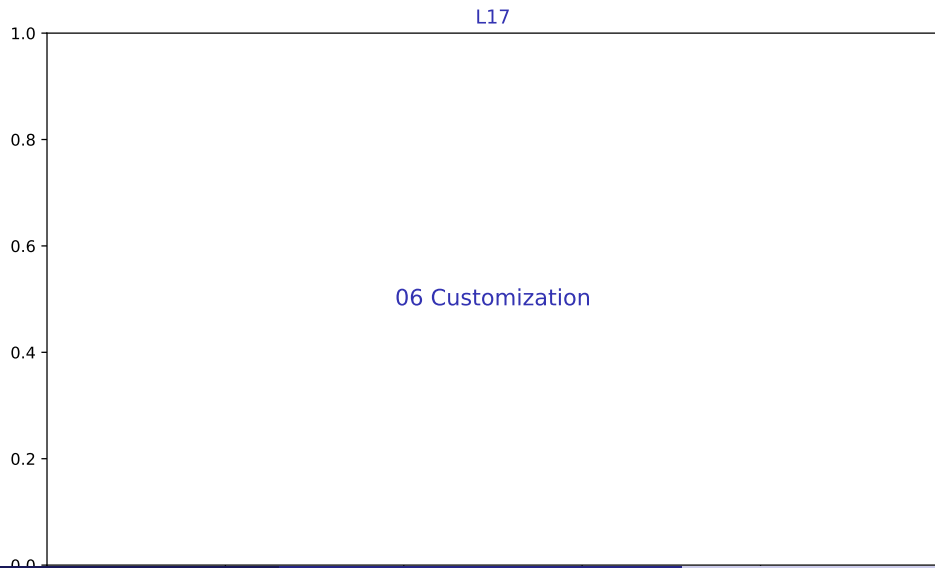
03 Histogram

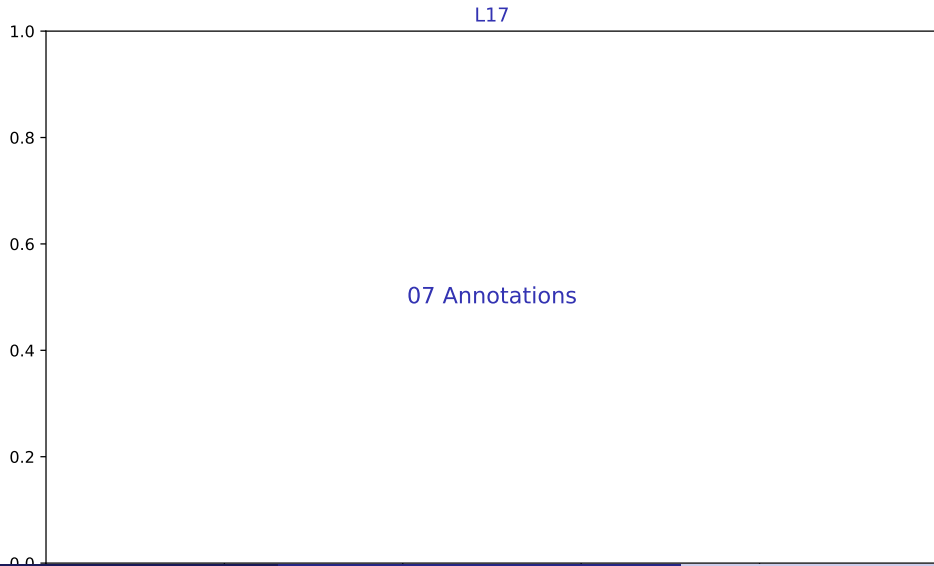


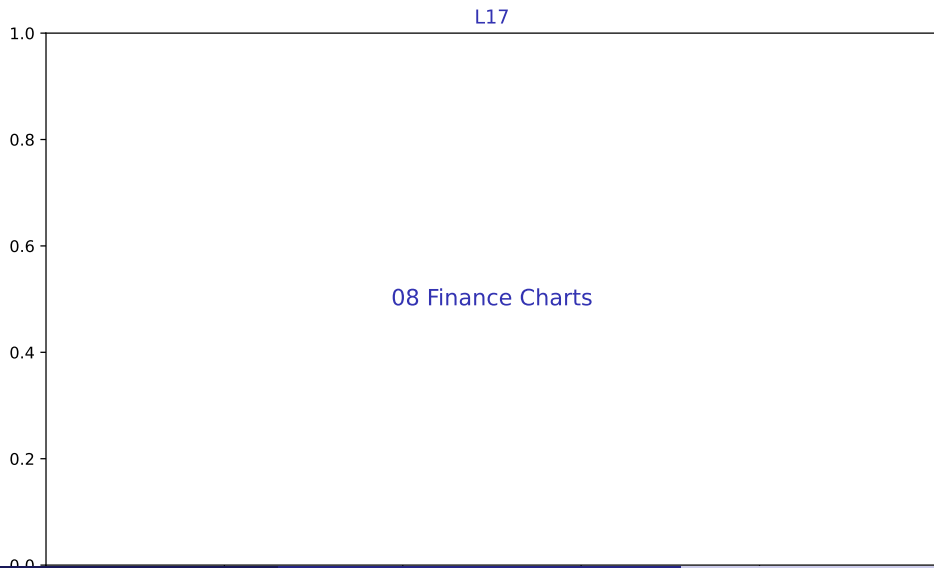
04 Scatter Plot











Key Takeaways:

- Create line, bar, and scatter plots
- Customize colors, labels, legends
- Build multi-panel figures
- Add annotations and formatting

Statistics + Visualization = Data Science foundation