

Lesson 17: Matplotlib Basics

Data Science with Python – BSc Course

45 Minutes

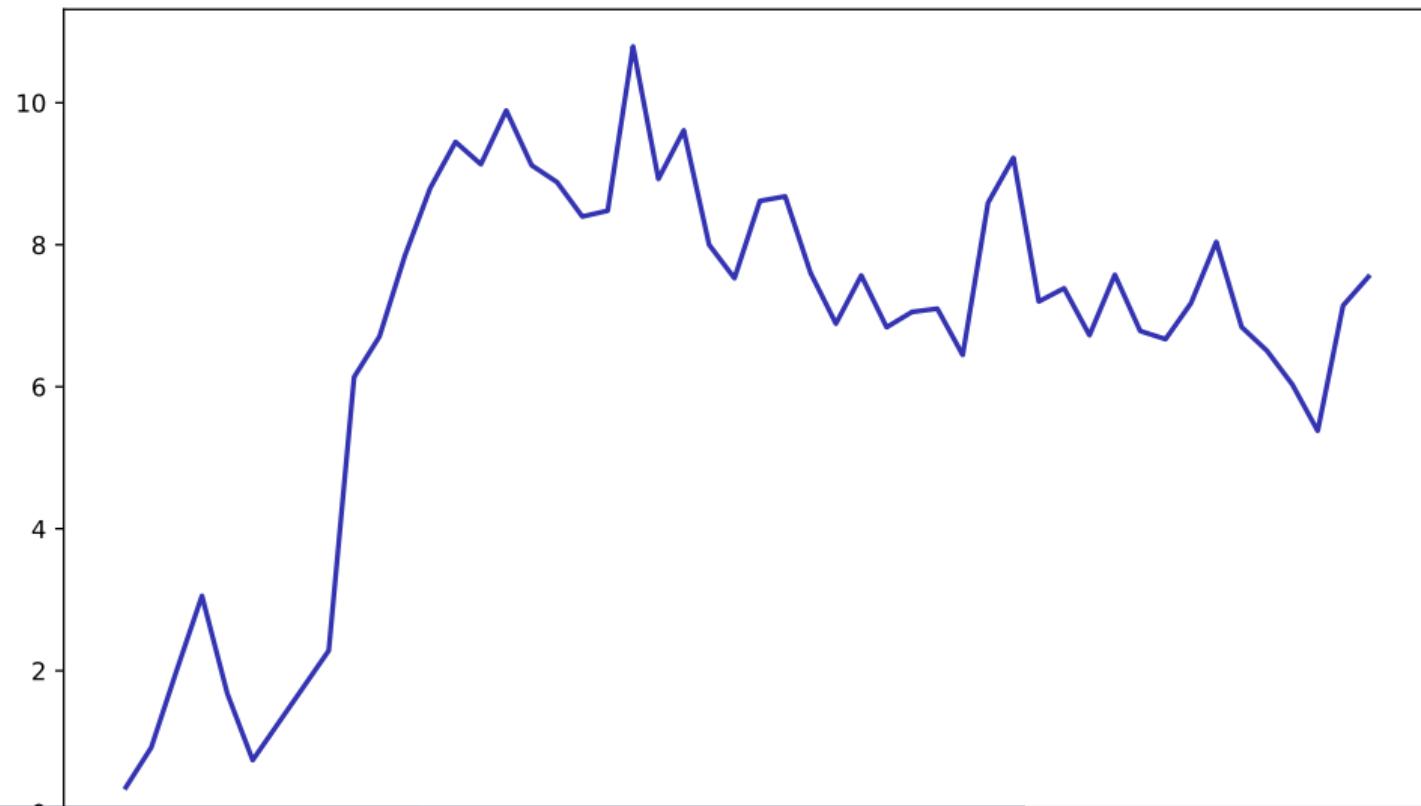
After this lesson, you will be able to:

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

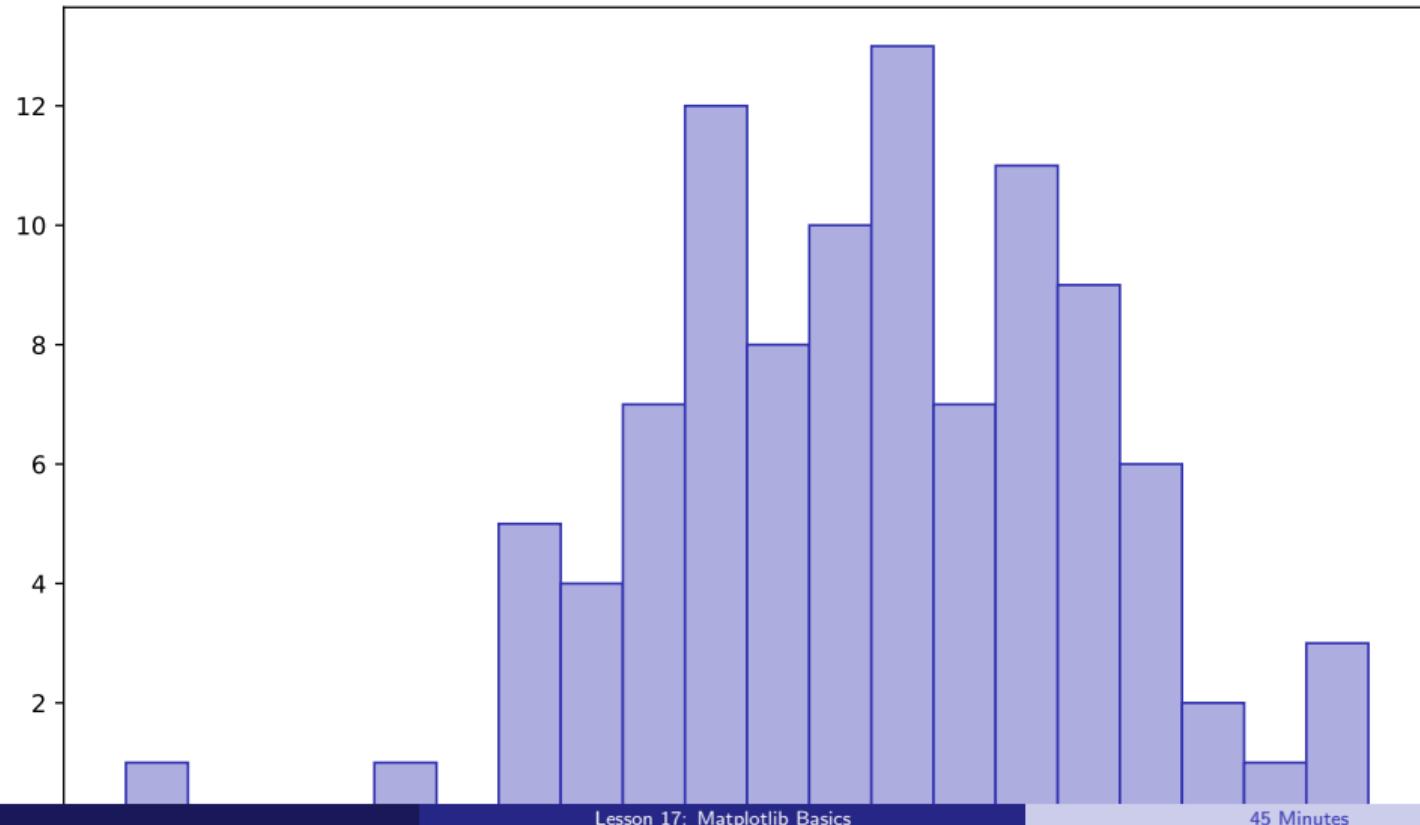
Finance application: Statistical analysis of market data

Line Plot

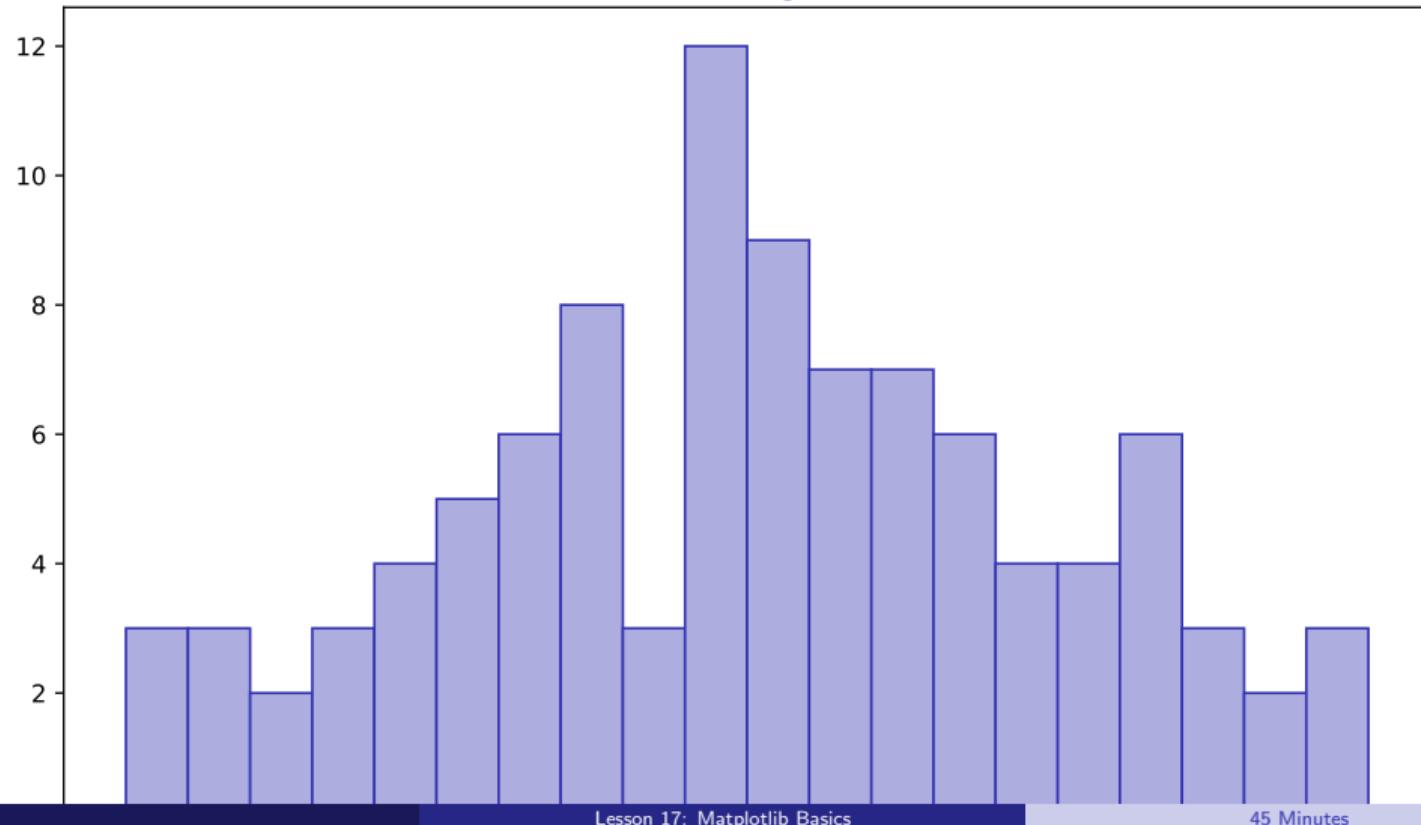
01 Line Plot



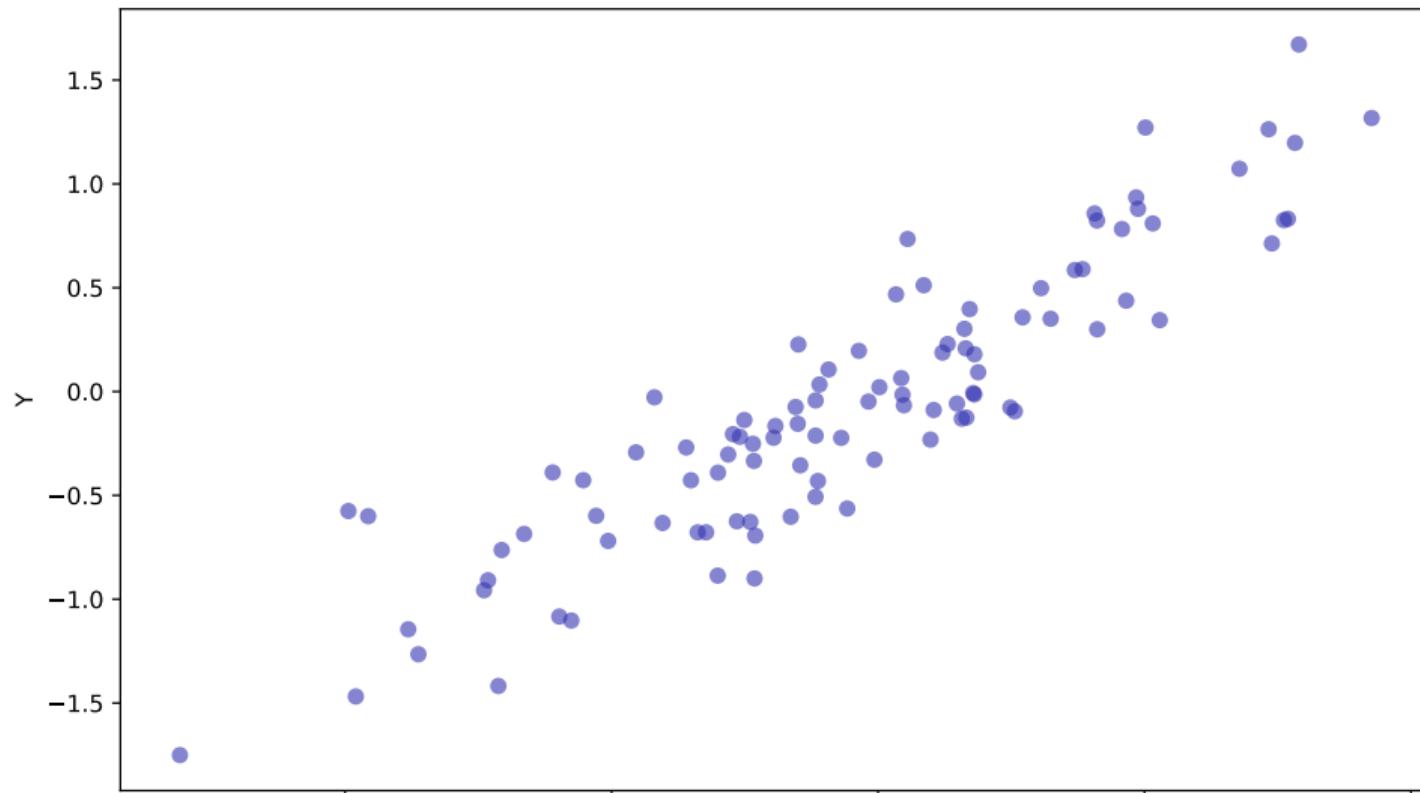
02 Bar Chart



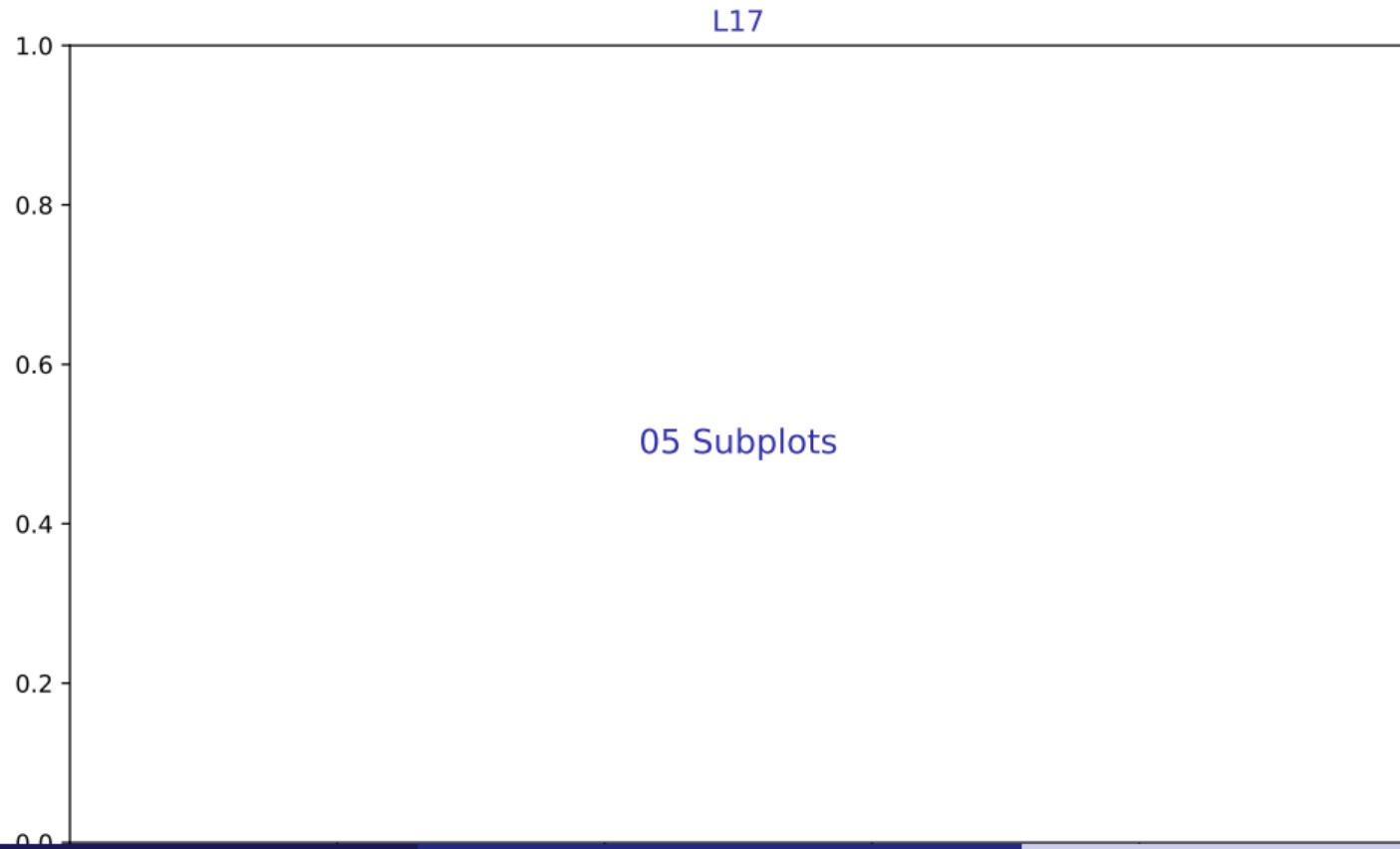
03 Histogram



04 Scatter Plot



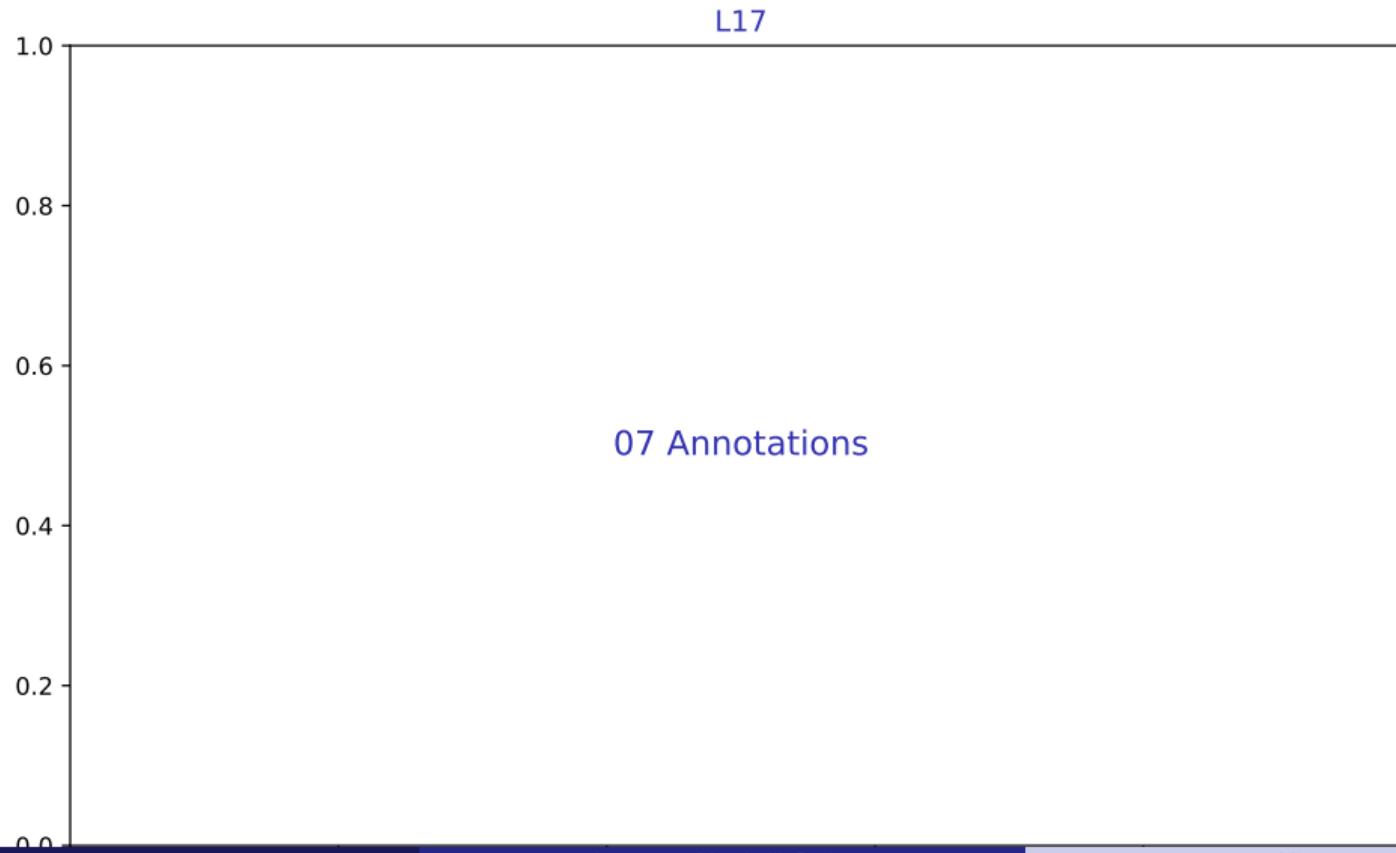
Subplots



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06 Customization

Annotations



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08 Finance Charts

Lesson Summary

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