

Module 5:

Polishing & Styling Layouts

Elevating Matplotlib & Seaborn Visuals to Executive Grade

SECTION 01

Corporate Chart Themes

| The Philosophy of Clean Charts

Standard Python Defaults

Default programmatic outputs contain unnecessary visual elements designed for analytical exploration, not quick corporate ingestion.

Features like heavy black outer frames, contrasting gridlines, and small generic fonts distract the audience and dilute your key message.

Corporate Style Guidelines

Executive presentations demand clean visual breathing room. Removing boundaries instantly shifts the focus directly onto your core data trends.

By leveraging custom themes with purposeful color selections, you align your analytical findings with professional slide aesthetics.

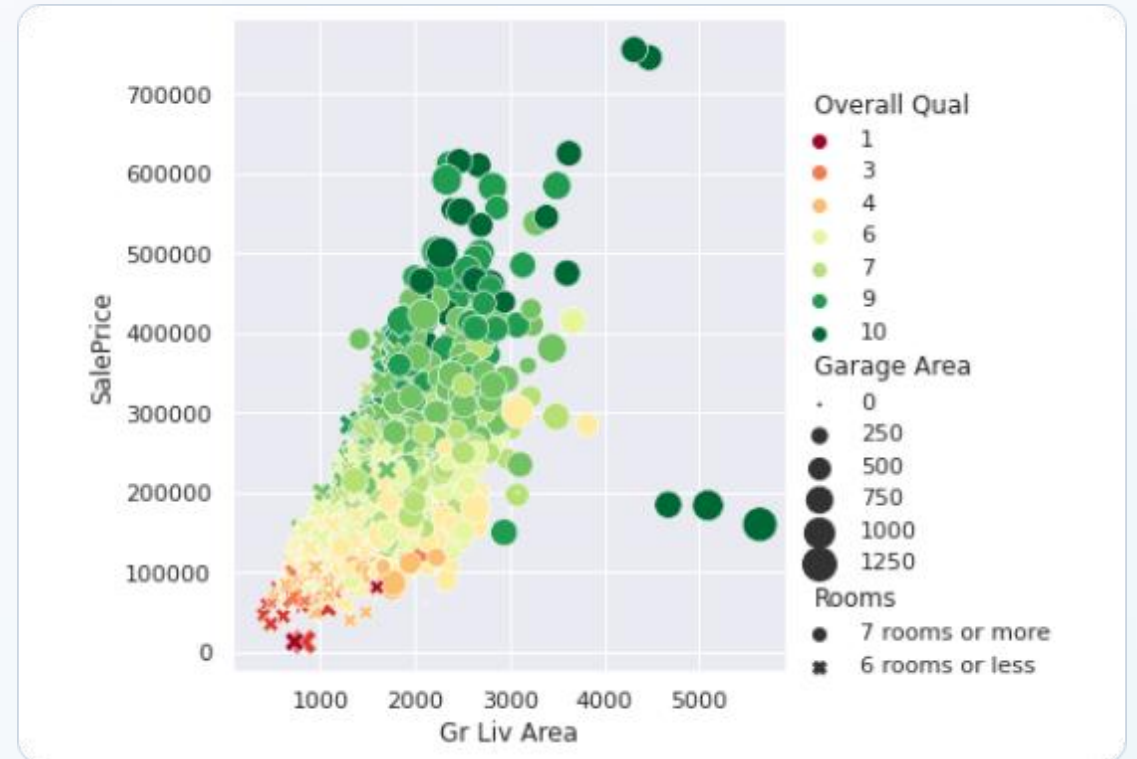
Anatomy of a Styled Plot

■ **Spine Elimination:** Use `sns.despine()` to immediately strip away the top and right bounding box borders.

Gridline Softening: Keep gridlines subtle (or remove them) to reduce clutter behind the primary elements.

T↑ **Font Sizing Strategy:** Increase label sizes to ensure readability when embedded inside a presentation slide.

🌀 **Visual Hierarchy:** Direct the eye using intentional contrast, making key comparisons obvious at a glance.



SECTION 02

Subplots & Dashboards

Subplot Grid Principles



Grid Selection

Organize charts in structured grids (e.g., 1x2 or 2x2). Grouping related metrics side-by-side tells a far richer story than isolated individual slides.



Visual Padding

Use `plt.tight_layout()` or configure spacing ratios programmatically. Crowded subplots with overlapping text labels degrade credibility instantly.



Palette Unity

Maintain consistent color codes across your subplots. Assigning the same shade to a specific category across all charts builds instant visual continuity.

Balancing Visual Weight



- Core Data Representation (60%)
- Structural Whitespace & Labels (25%)
- Accent/Highlight Callouts (15%)

SECTION 03

The Executive Makeover

| From Scratch to Dashboard

The Presentation Layer

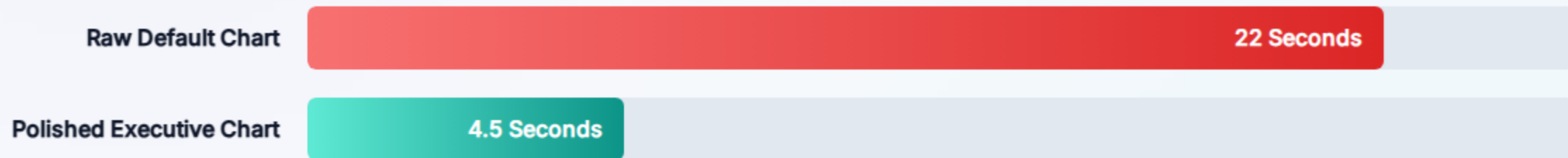
Raw programmatic default figures are hard to parse. Clean corporate styling removes excess elements and simplifies the layout, turning standard metrics into highly impactful visual narratives.

This formatting transition shifts the viewer's experience from merely reading data to instantly comprehending strategic business trends.

Formatting Cheat Sheet

Visual Element	Standard Python Default	Executive Style Target
Bounding Box	Four black outer box spines active	Top and right spines removed via despine()
Gridlines	Heavy, high-contrast dark gray lines	Soft light-gray lines, or completely eliminated
Label Sizing	Small 10px fonts (hard to read)	Large 14px+ labels with bold titles
Color Palettes	High-saturation, primary color schemes	Subdued modern palettes (muted blues, slate, gold)

Audience Comprehension Metrics



Average audience parsing speed before and after formatting optimizations are implemented.

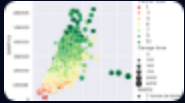
Interactive Challenge

Exercise: Re-style Your Sales Visuals

Makeover Prompt

Take the standard sales performance chart you generated in Module 3. Prompt the AI: "Take this Python matplotlib code and polish it for a corporate slide. Remove top/right spines, change the default blue bar color to a modern teal HEX palette, increase the font labels, and clean up the chart gridlines." Run the updated code in Jupyter and observe the visual improvement.

Verified Visual Sources



Slide 4 Asset: Clean scientific matplotlib/seaborn plot

Source URL: http://googleusercontent.com/image_collection/image_retrieval/6934600895916646742



Visual

Source 2

Thumbnail

Slide 9 Asset: Polished corporate business dashboard analytics presentation chart

Source URL: http://googleusercontent.com/image_collection/image_retrieval/375536996558064762

| Image Sources



Thumbnail for https://www.dataquest.io/wp-content/uploads/2024/10/seaborn_relational_plot.png.webp

Source: www.dataquest.io



https://stg-uploads.slidenest.com/template_4076/templateColor_3836/previewImages/business-data-analysis-dashboard-powerpoint-google-slides-keynote-presentation-template-16.jpeg

Source: slidenest.com