```
In [2]: import gradio as gr
        import pandas as pd
        import matplotlib.pyplot as plt
        # Sample data
        data = {
            "Month": ["Jan", "Feb", "Mar", "Apr", "May", "Jun"],
            "Sales": [10000,12000,15000,13000,17000,16000],
            "Profit": [2000,3000,4000,2500,3500,3000]
        df = pd.DataFrame(data)
        # Function to return selected plot
        def generate_plot(plot_type):
            fig = plt.figure(figsize=(8,5))
            if plot_type == "Line Plot":
                 plt.plot(df['Month'], df['Sales'],color='black',marker='o',linestyle='--',l
                plt.title('Sales Trends Over Months')
                plt.xlabel('Month')
                plt.ylabel('Sales ($)')
                plt.grid(True)
                plt.legend()
            elif plot_type == "Stacked Bar Chart":
                 fig.set_size_inches(10, 6)
                width = 0.3
                plt.bar(df['Month'], df['Sales'], width=width, color='black', label='Sales'
                plt.bar(df['Month'], df['Profit'], width=width, color='green', label='Profi
                plt.title('Sales and Profit Comparison by Month')
                plt.xlabel('Month')
                plt.ylabel('Amount ($)')
                plt.legend()
            elif plot_type == "Pie Chart":
                fig.set_size_inches(7,7)
                 plt.pie(df['Profit'], labels=df['Month'], autopct='%1.2f%%',startangle=140,
                plt.title('Profit Distribution by Month')
            elif plot_type == "Scatter Plot":
                plt.scatter(df['Sales'], df['Profit'], color='red', s=100, edgecolors='blac
                 plt.title('Sales vs Profit Scatter Plot')
                plt.xlabel('Sales')
                plt.ylabel('Profit')
                plt.grid(True)
            elif plot_type == "Histogram":
                plt.hist(df['Sales'], bins=5,color='yellow',edgecolor='black'),
                plt.title('Sales Distribution')
                plt.xlabel('Sales')
                plt.ylabel('Frequency')
            elif plot_type == "Box Plot":
                 plt.boxplot(df['Profit'], vert=False, patch_artist=True, boxprops=dict(face
                 plt.title('Sales Box Plot')
                plt.xlabel('Profit ($)')
            plt.tight_layout()
            return fig
        # Gradio UI
        demo = gr.Interface(
            fn=generate_plot,
            inputs=gr.Radio(
                 ["Line Plot", "Stacked Bar Chart", "Pie Chart", "Scatter Plot", "Histogram"
                label="Choose Plot Type"
            outputs=gr.Plot(label="Visualization"),
            title="Sales & Profit Visual Explorer",
            description="Choose a chart type to visualize the data."
```

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)
demo.launch()
```

- * Running on local URL: http://127.0.0.1:7869
 * To create a public link, set `share=True` in `launch()`.

```
Out[2]:
```