

```
In [1]: import pandas as pd
```

```
In [2]: data = {
    "Month": ["Jan", "Feb", "Mar", "Apr", "May", "Jun"],
    "Sales": [10000, 12000, 15000, 13000, 17000, 16000],
    "Profit": [2000, 3000, 4000, 2500, 3500, 3000]
}

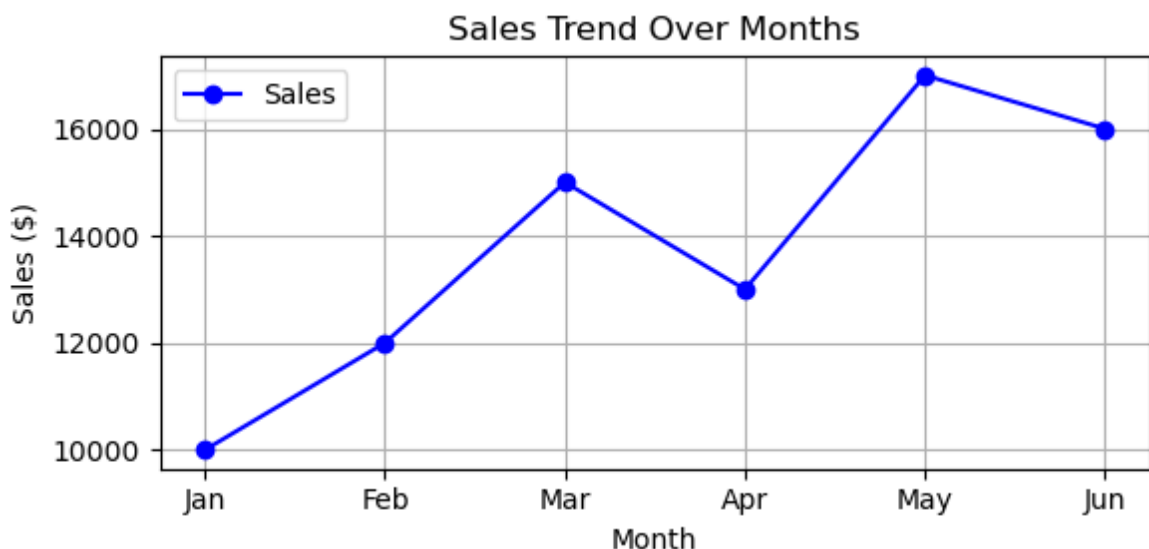
df = pd.DataFrame(data)
```

```
In [4]: print(df)
```

	Month	Sales	Profit
0	Jan	10000	2000
1	Feb	12000	3000
2	Mar	15000	4000
3	Apr	13000	2500
4	May	17000	3500
5	Jun	16000	3000

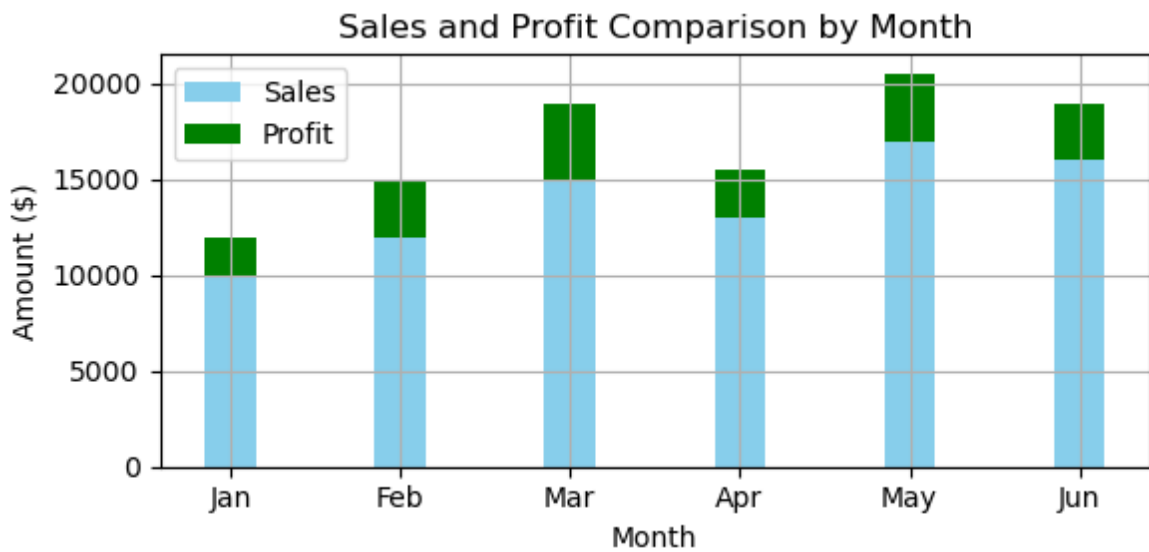
```
In [5]: import matplotlib.pyplot as plt
```

```
In [9]: plt.figure(figsize=(6, 3))
plt.plot(df['Month'], df['Sales'], color='blue', marker='o', linestyle='-', label=
plt.title('Sales Trend Over Months')
plt.xlabel('Month')
plt.ylabel('Sales ($)')
plt.grid(True)
plt.legend()
plt.tight_layout()
plt.show()
```

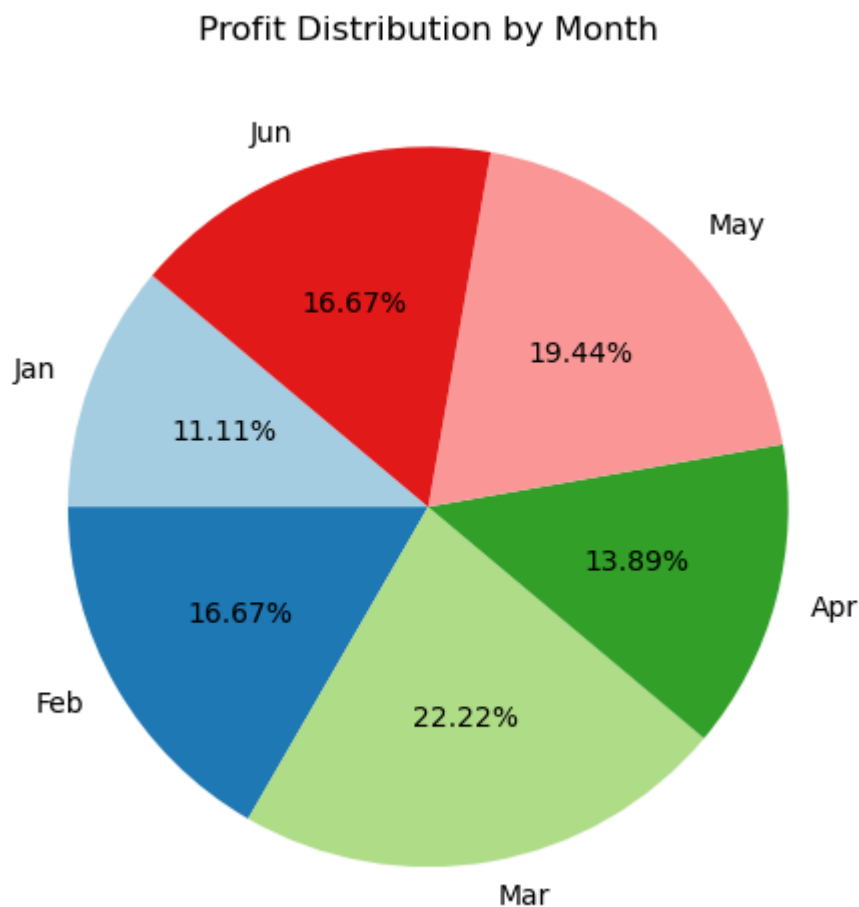


```
In [12]: plt.figure(figsize=(6, 3))
width = 0.3
plt.bar(df['Month'], df['Sales'], width=width, label='Sales', color='skyblue')
plt.bar(df['Month'], df['Profit'], width=width, label='Profit', color='green', b
plt.title('Sales and Profit Comparison by Month')
plt.xlabel('Month')
plt.ylabel('Amount ($)')
plt.grid(True)
```

```
plt.legend()
plt.tight_layout()
plt.show()
```

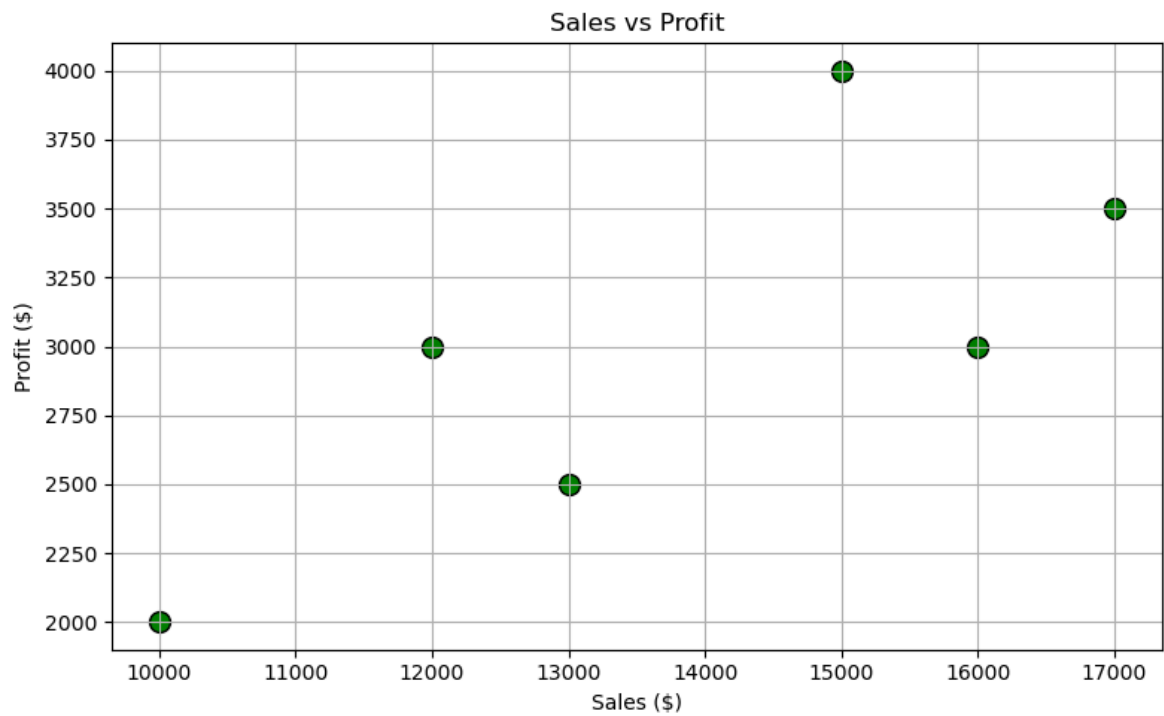


```
In [16]: plt.figure(figsize=(10, 5))
plt.pie(df['Profit'], labels=df['Month'], autopct='%1.2f%%', startangle=140, col
plt.title('Profit Distribution by Month')
plt.tight_layout()
plt.show()
```

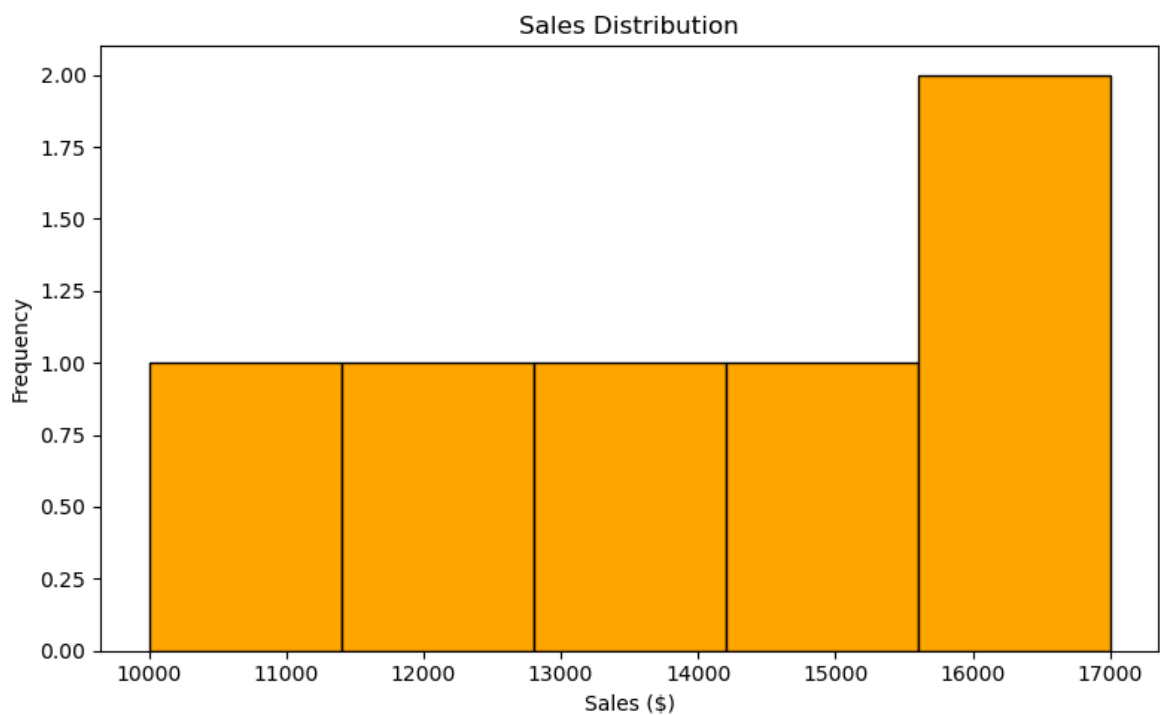


```
In [18]: plt.figure(figsize=(8, 5))
plt.scatter(df['Sales'], df['Profit'], color='green', s=100, edgecolors='black')
```

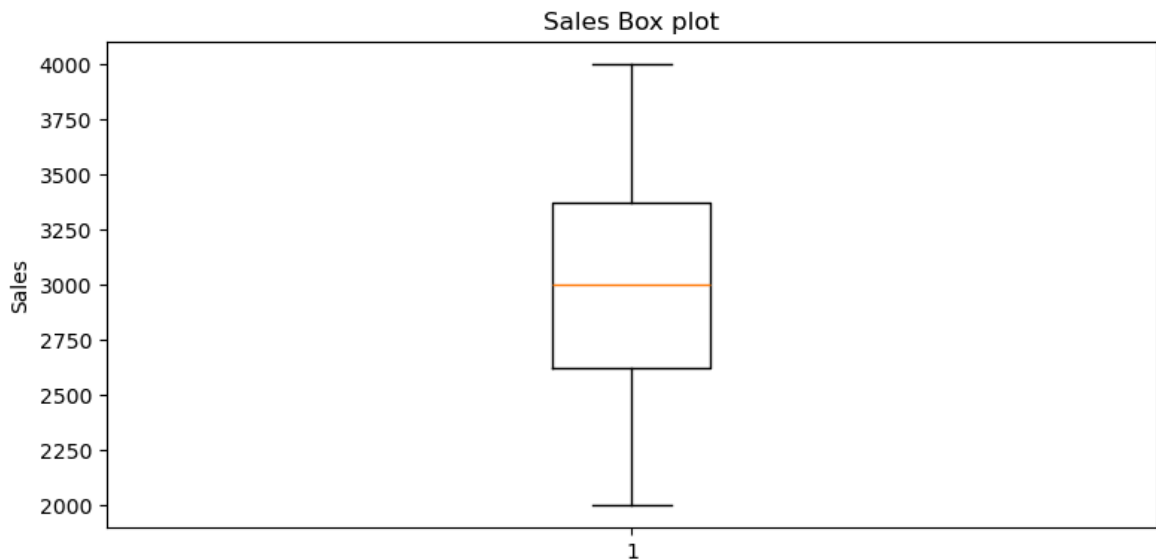
```
plt.title('Sales vs Profit')
plt.xlabel('Sales ($)')
plt.ylabel('Profit ($)')
plt.grid(True)
plt.tight_layout()
plt.show()
```



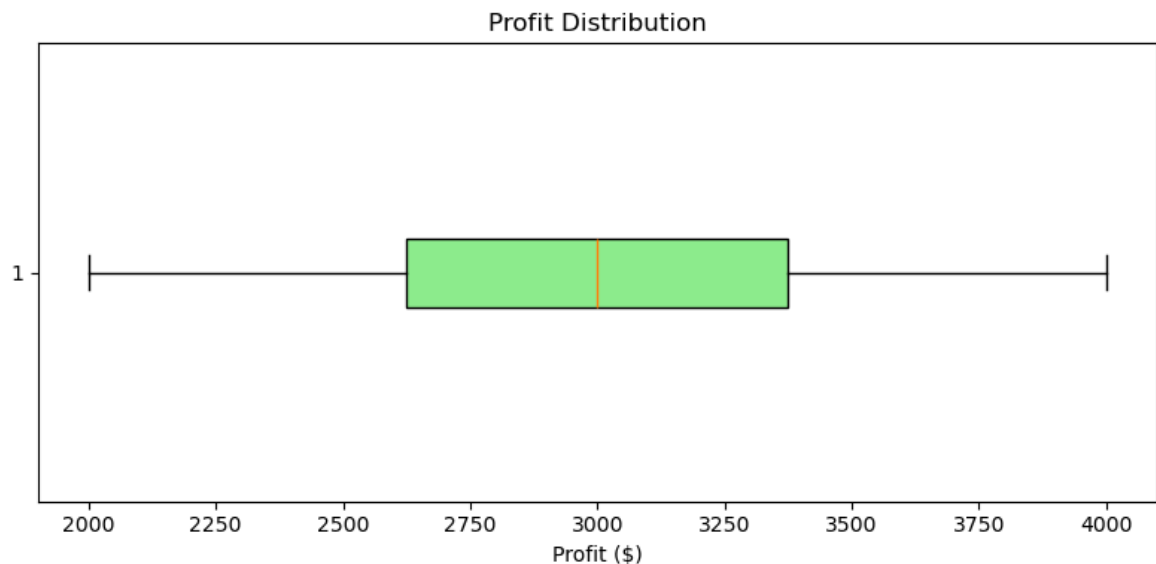
```
In [22]: plt.figure(figsize=(8, 5))
plt.hist(df['Sales'], bins=5, color='orange', edgecolor='black')
plt.title('Sales Distribution')
plt.xlabel('Sales ($)')
plt.ylabel('Frequency')
plt.tight_layout()
plt.show()
```



```
In [25]: plt.figure(figsize=(8, 4))
plt.boxplot(df['Profit'])
plt.title('Sales Box plot')
plt.ylabel('Sales')
plt.tight_layout()
plt.show()
```



```
In [24]: plt.figure(figsize=(8, 4))
plt.boxplot(df['Profit'], vert=False, patch_artist=True, boxprops=dict(facecolor='green'))
plt.title('Profit Distribution')
plt.xlabel('Profit ($)')
plt.tight_layout()
plt.show()
```



```
In [26]: !pip install gradio
```

```
Collecting gradio
  Downloading gradio-5.36.2-py3-none-any.whl.metadata (16 kB)
Collecting aiofiles<25.0,>=22.0 (from gradio)
  Downloading aiofiles-24.1.0-py3-none-any.whl.metadata (10 kB)
Requirement already satisfied: anyio<5.0,>=3.0 in c:\users\dell\anaconda3\lib\site-packages (from gradio) (4.2.0)
Collecting brotli>=1.1.0 (from gradio)
  Downloading Brotli-1.1.0-cp312-cp312-win_amd64.whl.metadata (5.6 kB)
Collecting fastapi<1.0,>=0.115.2 (from gradio)
  Downloading fastapi-0.116.1-py3-none-any.whl.metadata (28 kB)
Collecting ffmpeg (from gradio)
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Collecting gradio-client==1.10.4 (from gradio)
  Downloading gradio_client-1.10.4-py3-none-any.whl.metadata (7.1 kB)
Collecting groovy~>0.1 (from gradio)
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Requirement already satisfied: httpx<1.0,>=0.24.1 in c:\users\dell\anaconda3\lib\site-packages (from gradio) (0.27.0)
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Requirement already satisfied: numpy<3.0,>=1.0 in c:\users\dell\anaconda3\lib\site-packages (from gradio) (1.26.4)
Collecting orjson~>3.0 (from gradio)
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Requirement already satisfied: packaging in c:\users\dell\anaconda3\lib\site-packages (from gradio) (24.1)
Requirement already satisfied: pandas<3.0,>=1.0 in c:\users\dell\anaconda3\lib\site-packages (from gradio) (2.2.2)
Requirement already satisfied: pillow<12.0,>=8.0 in c:\users\dell\anaconda3\lib\site-packages (from gradio) (10.4.0)
Requirement already satisfied: pydantic<2.12,>=2.0 in c:\users\dell\anaconda3\lib\site-packages (from gradio) (2.8.2)
Collecting pydub (from gradio)
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Collecting python-multipart>=0.0.18 (from gradio)
  Downloading python_multipart-0.0.20-py3-none-any.whl.metadata (1.8 kB)
Requirement already satisfied: pyyaml<7.0,>=5.0 in c:\users\dell\anaconda3\lib\site-packages (from gradio) (6.0.1)
Collecting ruff>=0.9.3 (from gradio)
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Collecting safehttpx<0.2.0,>=0.1.6 (from gradio)
  Downloading safehttpx-0.1.6-py3-none-any.whl.metadata (4.2 kB)
Collecting semantic-version~>2.0 (from gradio)
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Collecting starlette<1.0,>=0.40.0 (from gradio)
  Downloading starlette-0.47.1-py3-none-any.whl.metadata (6.2 kB)
Collecting tomlkit<0.14.0,>=0.12.0 (from gradio)
  Downloading tomlkit-0.13.3-py3-none-any.whl.metadata (2.8 kB)
Collecting typer<1.0,>=0.12 (from gradio)
  Downloading typer-0.16.0-py3-none-any.whl.metadata (15 kB)
Requirement already satisfied: typing-extensions~>4.0 in c:\users\dell\anaconda3\lib\site-packages (from gradio) (4.11.0)
Collecting uvicorn>=0.14.0 (from gradio)
  Downloading uvicorn-0.35.0-py3-none-any.whl.metadata (6.5 kB)
Requirement already satisfied: fsspec in c:\users\dell\anaconda3\lib\site-packages (from gradio-client==1.10.4->gradio) (2024.6.1)
```

```

Collecting websockets<16.0,>=10.0 (from gradio-client==1.10.4->gradio)
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Requirement already satisfied: idna>=2.8 in c:\users\dell\anaconda3\lib\site-pack
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Requirement already satisfied: httpcore==1.* in c:\users\dell\anaconda3\lib\site-
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Downloading Brotli-1.1.0-cp312-cp312-win_amd64.whl (357 kB)
Downloading fastapi-0.116.1-py3-none-any.whl (95 kB)
Downloading groovy-0.1.2-py3-none-any.whl (14 kB)
Downloading huggingface_hub-0.33.4-py3-none-any.whl (515 kB)
Downloading orjson-3.10.18-cp312-cp312-win_amd64.whl (134 kB)
Downloading python_multipart-0.0.20-py3-none-any.whl (24 kB)
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Downloading starlette-0.47.1-py3-none-any.whl (72 kB)
Downloading tomlkit-0.13.3-py3-none-any.whl (38 kB)
Downloading typer-0.16.0-py3-none-any.whl (46 kB)
Downloading uvicorn-0.35.0-py3-none-any.whl (66 kB)
Downloading ffmpeg-0.6.0-py3-none-any.whl (5.5 kB)
Downloading pydub-0.25.1-py2.py3-none-any.whl (32 kB)
Downloading websockets-15.0.1-cp312-cp312-win_amd64.whl (176 kB)
Installing collected packages: pydub, brotli, websockets, tomlkit, semantic-versi
on, ruff, python-multipart, orjson, groovy, ffmpeg, aiofiles, uvicorn, starlette,
huggingface-hub, typer, safehttpx, gradio-client, fastapi, gradio
Attempting uninstall: brotli
  Found existing installation: Brotli 1.0.9
  Uninstalling Brotli-1.0.9:
    Successfully uninstalled Brotli-1.0.9
Attempting uninstall: tomlkit
  Found existing installation: tomlkit 0.11.1
  Uninstalling tomlkit-0.11.1:
    Successfully uninstalled tomlkit-0.11.1
Attempting uninstall: typer

```



Found existing installation: typer 0.9.0

Uninstalling typer-0.9.0:

Successfully uninstalled typer-0.9.0

Successfully installed aiofiles-24.1.0 brotli-1.1.0 fastapi-0.116.1 ffmpeg-0.6.0 g  
radio-5.36.2 gradio-client-1.10.4 groovy-0.1.2 huggingface-hub-0.33.4 orjson-3.1  
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WARNING: Failed to remove contents in a temporary directory 'C:\Users\DELL\AppData  
Local\Temp\pip-uninstall-39\_cb9s4'.

You can safely remove it manually.

```
In [32]: 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='blue', marker='o', label='Sales')
        plt.title('Sales Trend 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, label='Sales', color='skyblue')
        plt.bar(df['Month'], df['Profit'], width=width, label='Profit', color='coral')
        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='%1.1f%%', startangle=90)
        plt.title('Profit Distribution by Month')

    elif plot_type == "Scatter Plot":
        plt.scatter(df['Sales'], df['Profit'], color='green', s=100, edgecolors='black')
        plt.title('Sales vs Profit')
        plt.xlabel('Sales ($)')
        plt.ylabel('Profit ($)')
        plt.grid(True)

    elif plot_type == "Histogram":
        plt.hist(df['Sales'], bins=5, color='purple', 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(f
    plt.title('Profit Distribution')
    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."
)

demo.launch()

```

\* Running on local URL: <http://127.0.0.1:7861>

\* To create a public link, set `share=True` in `launch()`.



Out[32]:

In [ ]: