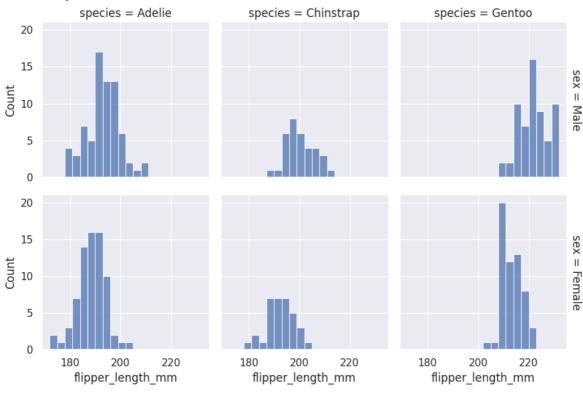
HISTOGRAM

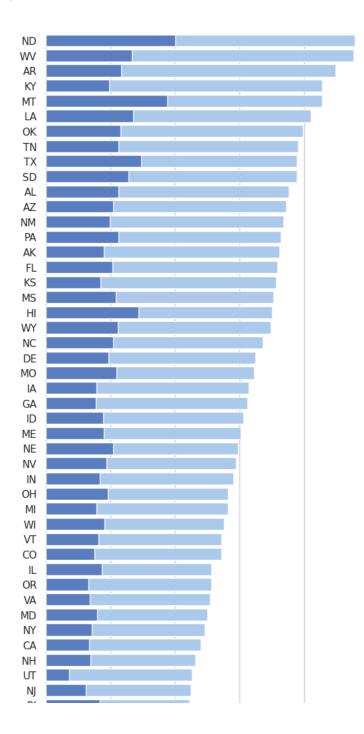
```
import seaborn as sns

sns.set_theme(style="darkgrid")
df = sns.load_dataset("penguins")
sns.displot(
    df, x="flipper_length_mm", col="species", row="sex",
    binwidth=3, height=3, facet_kws=dict(margin_titles=True),
)
```



BAR CHART

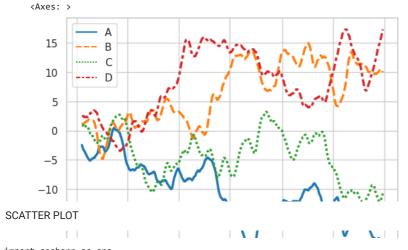
```
import seaborn as sns
import matplotlib.pyplot as plt
sns.set_theme(style="whitegrid")
# Initialize the matplotlib figure
f, ax = plt.subplots(figsize=(6, 15))
# Load the example car crash dataset
crashes = sns.load_dataset("car_crashes").sort_values("total", ascending=False)
# Plot the total crashes
sns.set_color_codes("pastel")
# Plot the crashes where alcohol was involved
sns.set_color_codes("muted")
sns.barplot(x="alcohol", y="abbrev", data=crashes,
           label="Alcohol-involved", color="b")
# Add a legend and informative axis label
ax.legend(ncol=2, loc="lower right", frameon=True)
ax.set(xlim=(0, 24), ylabel="",
      xlabel="Automobile collisions per billion miles")
sns.despine(left=True, bottom=True)
```



LINE PLOT

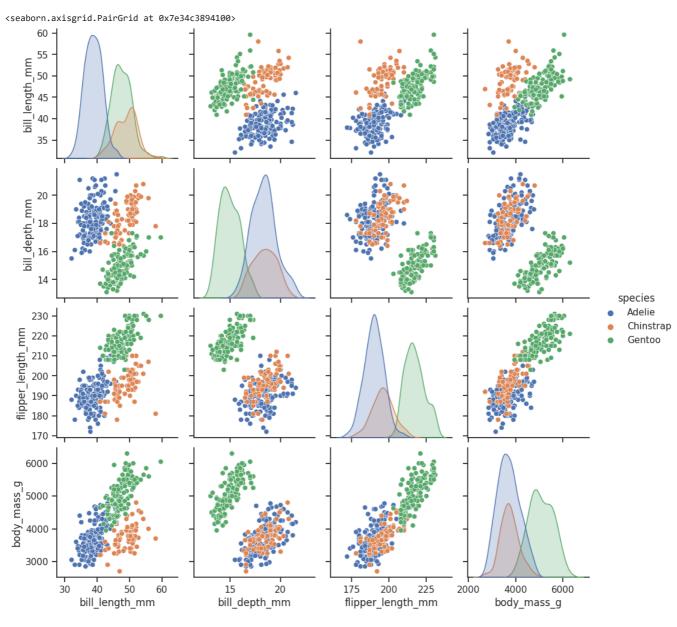
```
import numpy as np
import pandas as pd
import seaborn as sns
sns.set_theme(style="whitegrid")

rs = np.random.RandomState(365)
values = rs.randn(365, 4).cumsum(axis=0)
dates = pd.date_range("1 1 2016", periods=365, freq="D")
data = pd.DataFrame(values, dates, columns=["A", "B", "C", "D"])
data = data.rolling(7).mean()
sns.lineplot(data=data, palette="tab10", linewidth=2.5)
```



import seaborn as sns
sns.set_theme(style="ticks")

df = sns.load_dataset("penguins")
sns.pairplot(df, hue="species")



BOX PLOT

```
import seaborn as sns
sns.set_theme(style="ticks", palette="pastel")
```

Load the example tips dataset

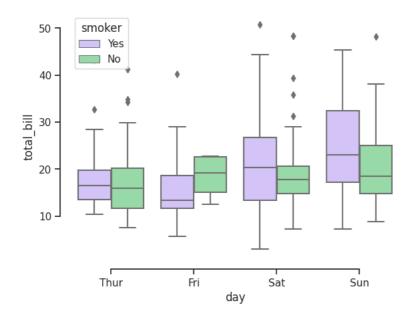
- 600

- 500

400

300

- 200



HEATMAPS

```
import matplotlib.pyplot as plt
import seaborn as sns
sns.set_theme()

# Load the example flights dataset and convert to long-form
flights_long = sns.load_dataset("flights")
flights = (
    flights_long
    .pivot(index="month", columns="year", values="passengers")
)

# Draw a heatmap with the numeric values in each cell
f, ax = plt.subplots(figsize=(9, 6))
sns.heatmap(flights, annot=True, fmt="d", linewidths=.5, ax=ax)
```

<Axes: xlabel='year', ylabel='month'>

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Jan	112	115	145	171	196	204	242	284	315	340	360	417
Feb	118	126	150	180	196	188	233	277	301	318	342	391
Mar	132	141	178	193	236	235	267	317	356	362	406	419
Apr	129	135	163	181	235	227	269	313	348	348	396	461
ıth Jun May	121	125	172	183	229	234	270	318	355	363	420	472
	135	149	178	218	243	264	315	374	422	435	472	535
month Jul Jun	148	170	199	230	264	302	364	413	465	491	548	622
Aug	148	170	199	242	272	293	347	405	467	505	559	606
Sep	136	158	184	209	237	259	312	355	404	404	463	508
Oct	119	133	162	191	211	229	274	306	347	359	407	461
Nov	104	114	146	172	180	203	237	271	305	310	362	390
Dec	118	140	166	194	201	229	278	306	336	337	405	432

1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 year

VIOLIN PLOTS

```
import seaborn as sns
import matplotlib.pyplot as plt
sns.set_theme(style="whitegrid")
# Load the example dataset of brain network correlations
df = sns.load_dataset("brain_networks", header=[0, 1, 2], index_col=0)
# Pull out a specific subset of networks
used_networks = [1, 3, 4, 5, 6, 7, 8, 11, 12, 13, 16, 17]
used_columns = (df.columns.get_level_values("network")
                          .astype(int)
                          .isin(used_networks))
df = df.loc[:, used_columns]
# Compute the correlation matrix and average over networks
corr_df = df.corr().groupby(level="network").mean()
corr_df.index = corr_df.index.astype(int)
corr_df = corr_df.sort_index().T
# Set up the matplotlib figure
f, ax = plt.subplots(figsize=(11, 6))
# Draw a violinplot with a narrower bandwidth than the default
sns.violinplot(data=corr_df, bw_adjust=.5, cut=1, linewidth=1, palette="Set3")
# Finalize the figure
ax.set(ylim=(-.7, 1.05))
sns.despine(left=True, bottom=True)
```

