

Data visualization

▼ Step-1 Import Library

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Indented block

```
import seaborn as sns
import matplotlib.pyplot as plt
```

▼ Step-2 Load Dataset

```
anscombe=sns.load_dataset("anscombe")
anscombe.head()
```

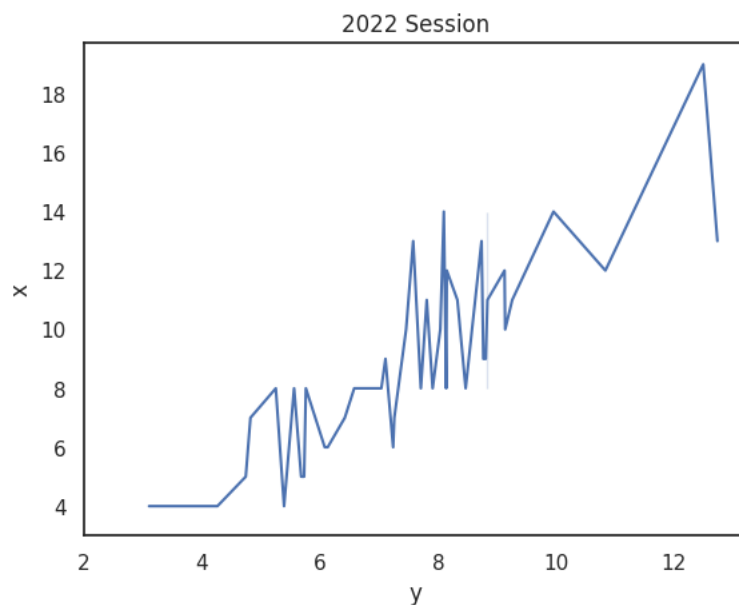
	dataset	x	y
0	I	10.0	8.04
1	I	8.0	6.95
2	I	13.0	7.58
3	I	9.0	8.81
4	I	11.0	8.33

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▼ Step-3 Plot a graph

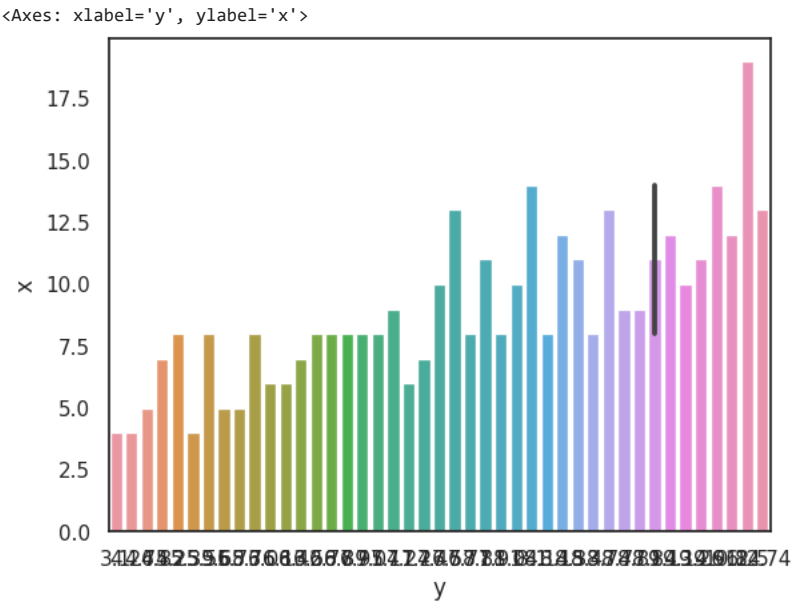
```
sns.lineplot(x="y",y="x",data=anscombe)
plt.xlim(2)
plt.ylim(3)
plt.title("2022 Session")
```

```
Text(0.5, 1.0, '2022 Session')
```



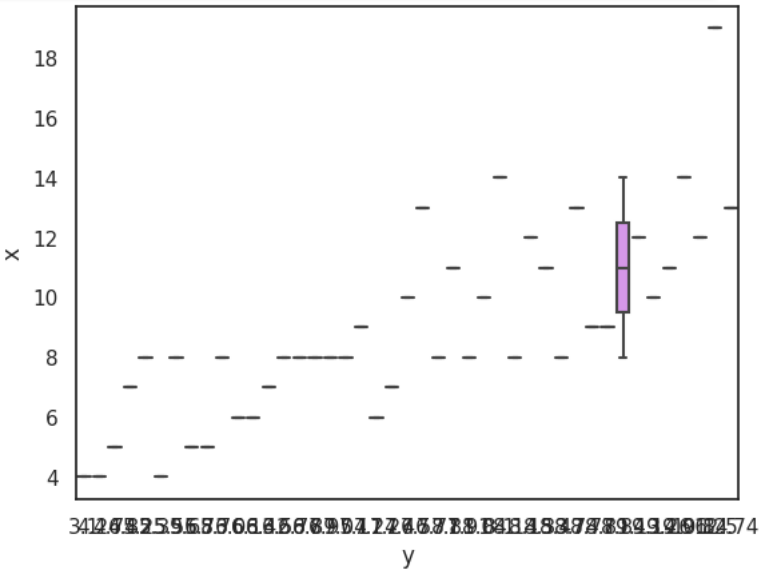
Bar plot

```
sns.barplot(x="y",y="x",data=anscombe)
```



Box plot

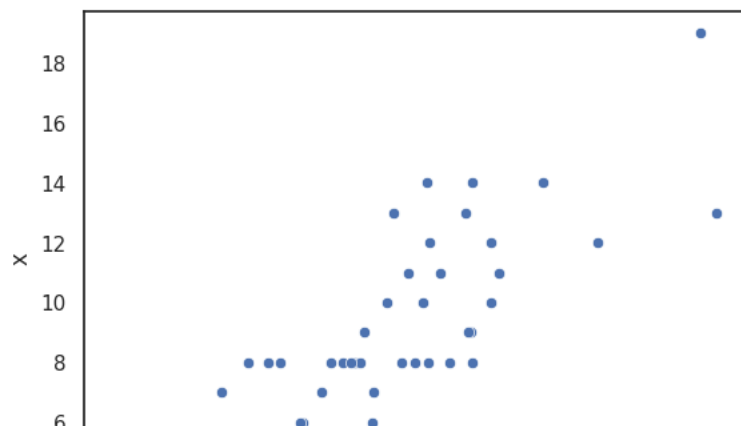
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Scatter Plot

```
sns.scatterplot(x="y",y="x",data=anscombe)
```

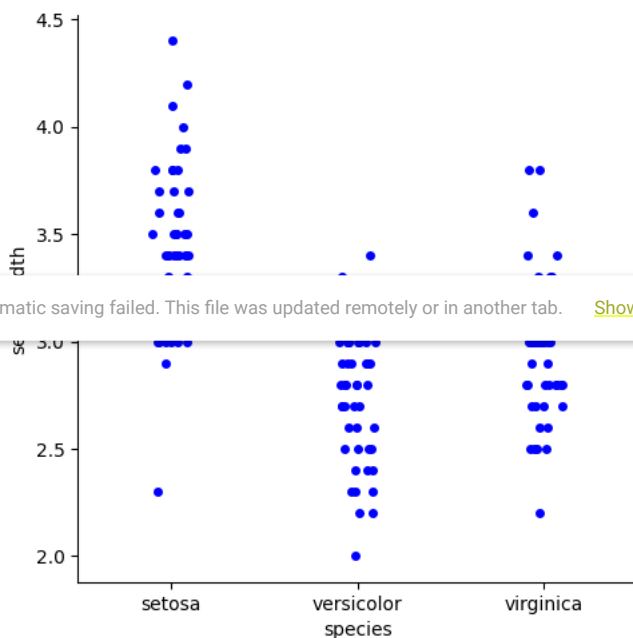
<Axes: xlabel='y', ylabel='x'>



▼ Catplot

```
sns.catplot(x="species",y="sepal_width",data=iris,color="blue")
```

<seaborn.axisgrid.FacetGrid at 0x7f216019af20>



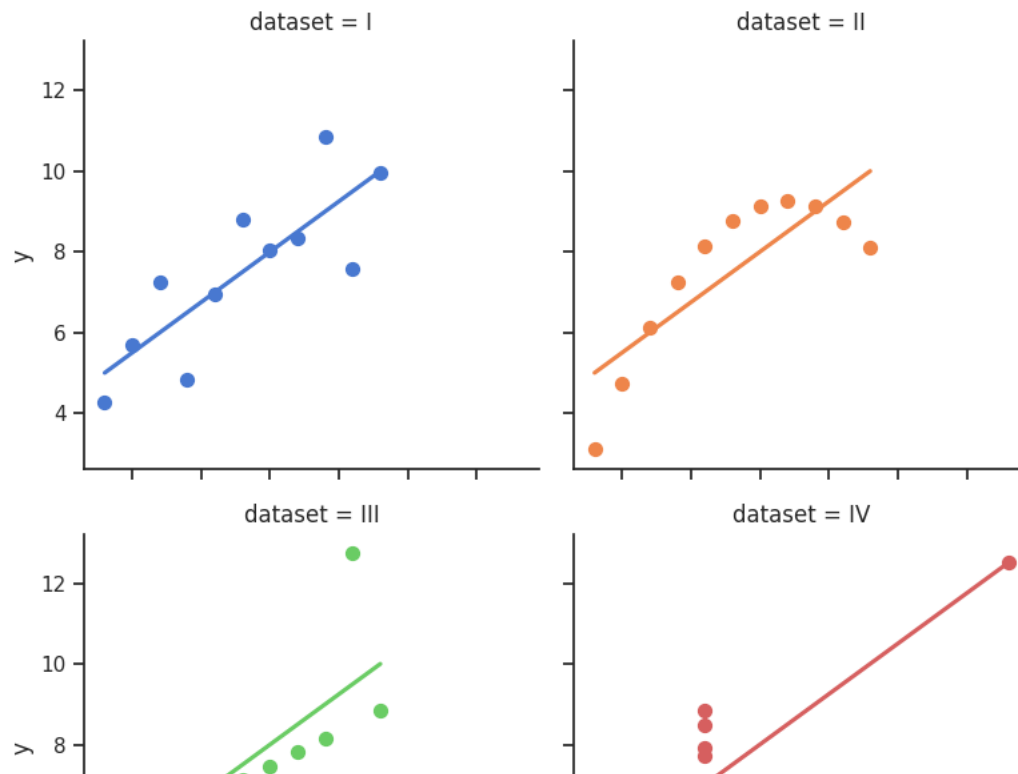
```
import seaborn as sns
sns.set_theme(style="ticks")
```

```
# Load the example dataset for Anscombe's quartet
df = sns.load_dataset("anscombe")
```

```
# Show the results of a linear regression within each dataset
```

```
sns.lmplot(
    data=df, x="x", y="y", col="dataset", hue="dataset",
    col_wrap=2, palette="muted", ci=None,
    height=4, scatter_kws={"s": 50, "alpha": 1}
)
```

<seaborn.axisgrid.FacetGrid at 0x7f216024c130>



```
import seaborn as sns
import matplotlib.pyplot as plt
sns.set_theme(style="whitegrid")
```

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```
# Draw a scatter plot while assigning point colors and sizes to different
# variables in the dataset
f, ax = plt.subplots(figsize=(6.5, 6.5))
sns.despine(f, left=True, bottom=True)
clarity_ranking = ["I1", "SI1", "SI2", "VS1", "VS2", "VVS1", "VVS2", "IF"]
sns.scatterplot(x="carat", y="price",
                hue="clarity", size="depth",
                palette="ch:r=0.2,d=0.3_r",
                hue_order=clarity_ranking,
                sizes=(1, 8), linewidth=0,
                data=diamonds, ax=ax)
```

```
<Axes: xlabel='carat', ylabel='price'>
```



```
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("month", "year", "passengers")
```

```
# Draw a heatmap with the numeric values in each cell
```

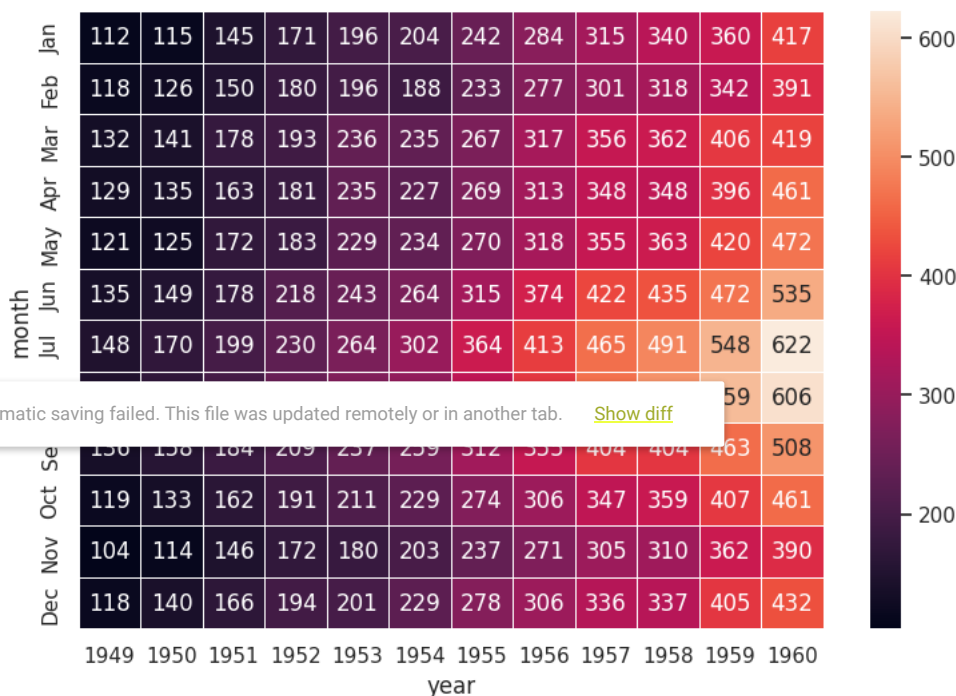
```
f, ax = plt.subplots(figsize=(9, 6))
```

```
sns.heatmap(flights, annot=True, fmt="d", linewidths=.5, ax=ax)
```

```
<ipython-input-21-fd553bdfde69>:7: FutureWarning: In a future version of pandas all arguments of DataFr
```

```
flights = flights_long.pivot("month", "year", "passengers")
```

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



```
import seaborn as sns
sns.set_theme(style="white")
```

```
df = sns.load_dataset("penguins")
```

```
g = sns.JointGrid(data=df, x="body_mass_g", y="bill_depth_mm", space=0)
```

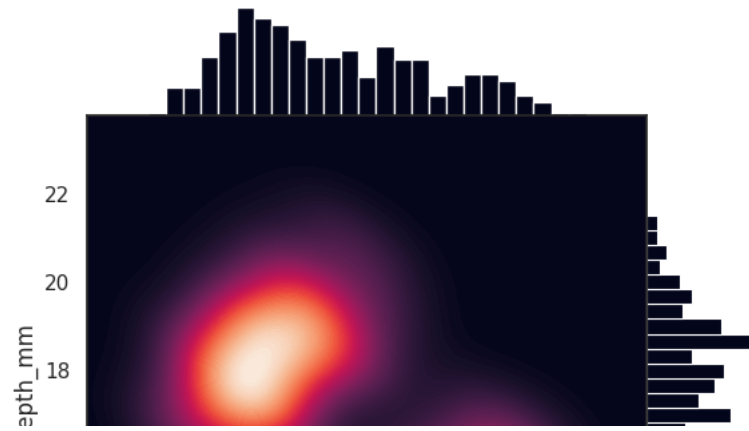
```
g.plot_joint(sns.kdeplot,
```

```
fill=True, clip=((2200, 6800), (10, 25)),
```

```
thresh=0, levels=100, cmap="rocket")
```

```
g.plot_marginals(sns.histplot, color="#03051A", alpha=1, bins=25)
```

<seaborn.axisgrid.JointGrid at 0x7f21604b5210>



Data Visualization



Step-1 Import library



```
import seaborn as sns
import matplotlib.pyplot as plt
```

3000 4000 5000 6000

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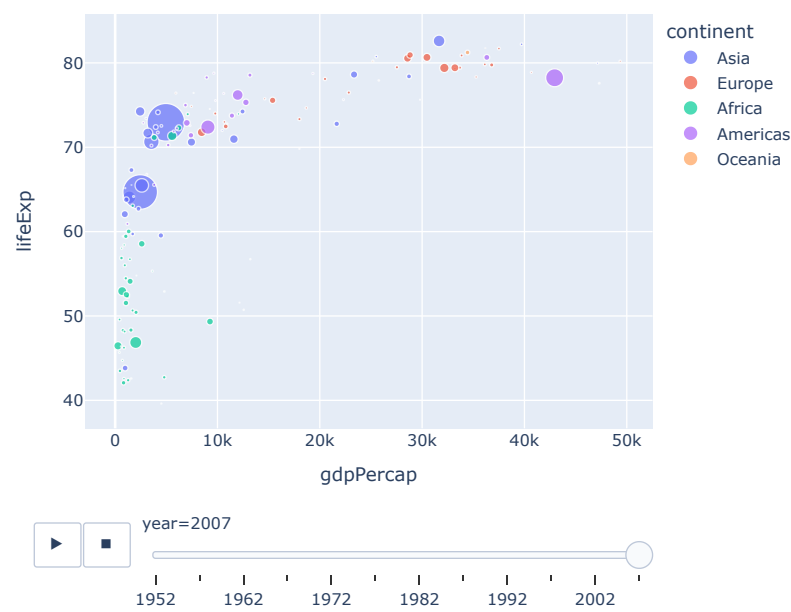
```
import plotly.express as px
fig = px.scatter(iris, x="sepal_width", y="sepal_length", color="species", size='petal_length', hover_data=['petal_width'])
fig.show()
```

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```
import plotly.express as px
gapminder = px.data.gapminder()
fig = px.scatter(gapminder, x="gdpPerCap", y="lifeExp", animation_frame="year", animation_group="country",
                 size="pop", color="continent", hover_name="country")
fig.show()
```





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