Plotly Express cheatsheet

Open in Colab

plotly

General

Install

```
pip install plotly
```

Import

```
import plotly.express as px
```

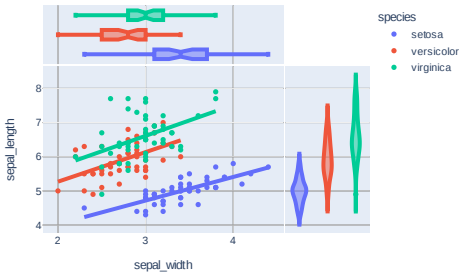
General usage

```
fig = px.chart_type(
    df,
    **chart_specific_parameters,
    title="Chart title",
    labels={"x_column_name": "X column name"},
    width=600,
    height=400,
)
fig.show()
```

Chart types

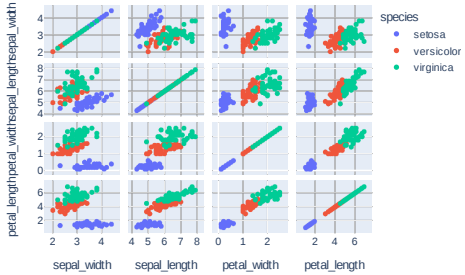
Scatter

```
px.scatter(
    df,
    x="sepal_width",
    y="sepal_length",
    color="species",
    marginal_y="violin",
    marginal_x="box",
    trendline="ols",
    hover_data=["petal_length", "petal_width"],
)
```



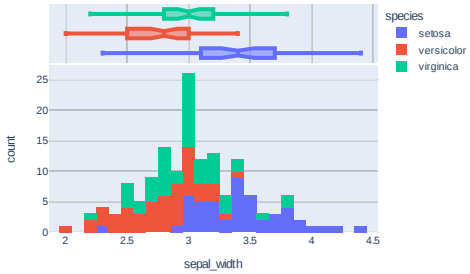
Scatter matrix

```
px.scatter_matrix(
    df,
    dimensions=[
      "sepal_width", "sepal_length",
      "petal_width", "petal_length"
    ],
    color="species",
)
```



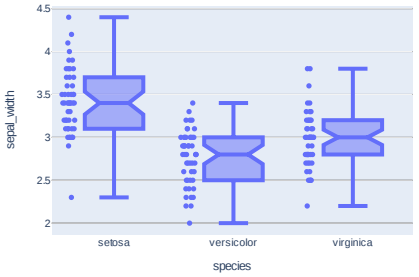
Histogram

```
px.histogram(
    df,
    x="sepal_width",
    color="species",
    marginal="box",  # or "rug", "violin"
    nbins=30,
)
```



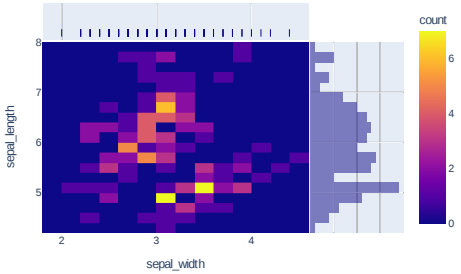
Box

```
px.box(
    df,
    x="species", y="sepal_width",
    notched=True, points="all"
)
```



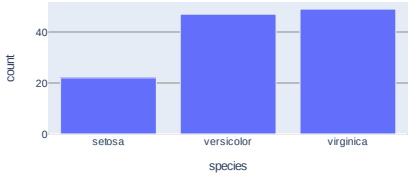
Density heatmap (2D Histogram)

```
px.density_heatmap(
    df,
    x="sepal_width",
    y="sepal_length",
    nbinsx=20,
    nbinsy=20,
    histfunc="count",  # or "sum", "avg"
    marginal_x="rug",
    marginal_y="histogram",
)
```



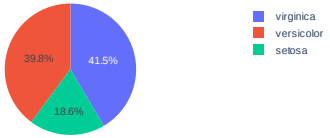
Bar

```
px.bar(count_df, x="species", y="count")
```



Pie

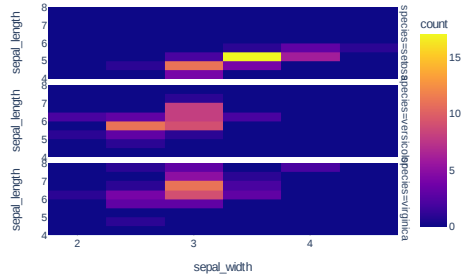
```
px.pie(count_df,
       names="species", values="count")
```



More options

Facet plots

```
px.density_heatmap(
    df,
    x="sepal_width",
    y="sepal_length",
    facet_row="species",
)
```



by Franz Diebold (diebold.io)