

# Plotly Express cheat sheet

Open in Colab



## General

### Install

```
pip install plotly
```

### Import

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

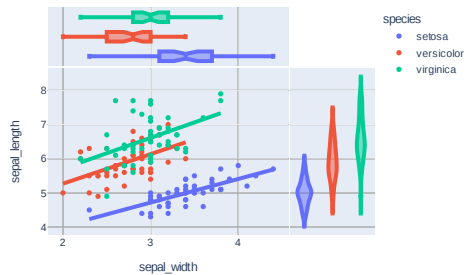
### General usage

```
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

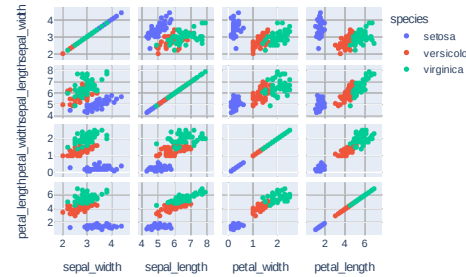
### Scatter

```
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"],  
)
```



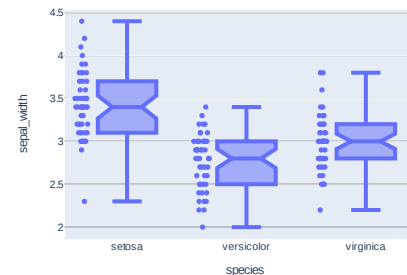
### Scatter matrix

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



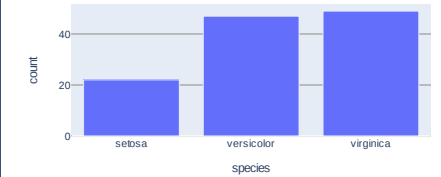
### Box

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



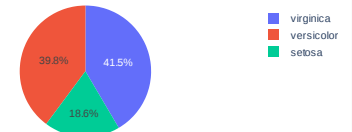
### Bar

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



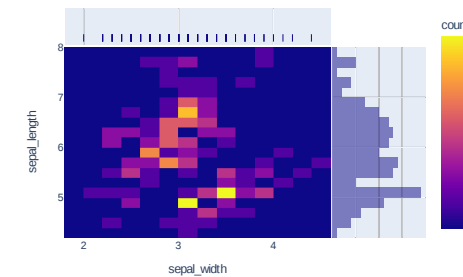
### Pie

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



### 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",  
)
```



## More options

### Facet plots

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

