In [3]:
```
import pandas as pd
import numpy as np
import plotly.express as px
```

In [4]:
```
df = px.data.iris()
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 150 entries, 0 to 149
Data columns (total 6 columns):
 #   Column        Non-Null Count  Dtype  
---  ------        --------------  -----  
 0   sepal_length  150 non-null    float64
 1   sepal_width   150 non-null    float64
 2   petal_length  150 non-null    float64
 3   petal_width   150 non-null    float64
 4   species       150 non-null    object 
 5   species_id    150 non-null    int64  
dtypes: float64(4), int64(1), object(1)
memory usage: 7.2+ KB
```

In [5]:
```
df.head()
```

Out[5]:

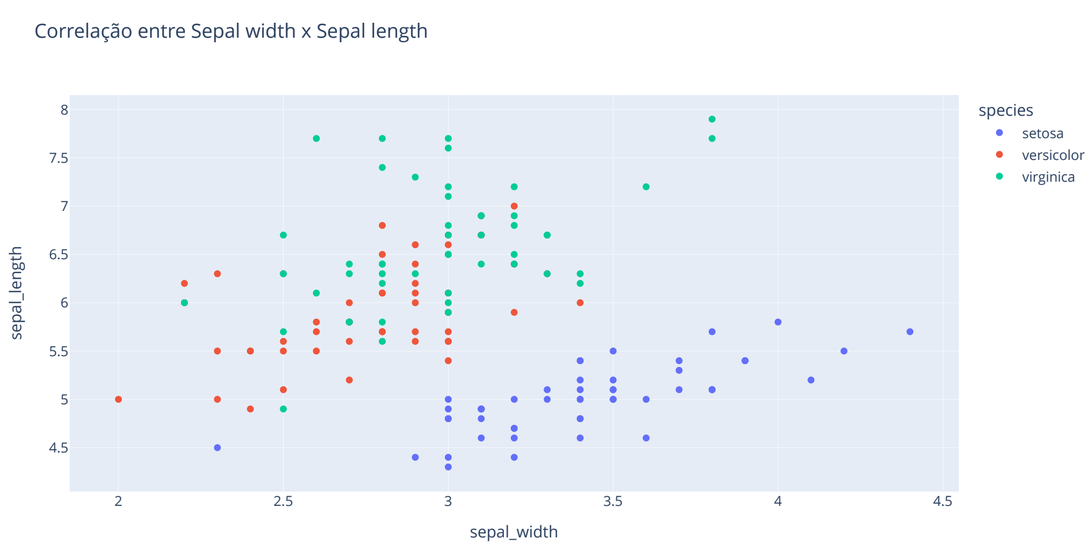
	sepal_length	sepal_width	petal_length	petal_width	species	species_id
0	5.1	3.5	1.4	0.2	setosa	1
1	4.9	3.0	1.4	0.2	setosa	1
2	4.7	3.2	1.3	0.2	setosa	1
3	4.6	3.1	1.5	0.2	setosa	1
4	5.0	3.6	1.4	0.2	setosa	1

In [6]:
```
df.describe()
```

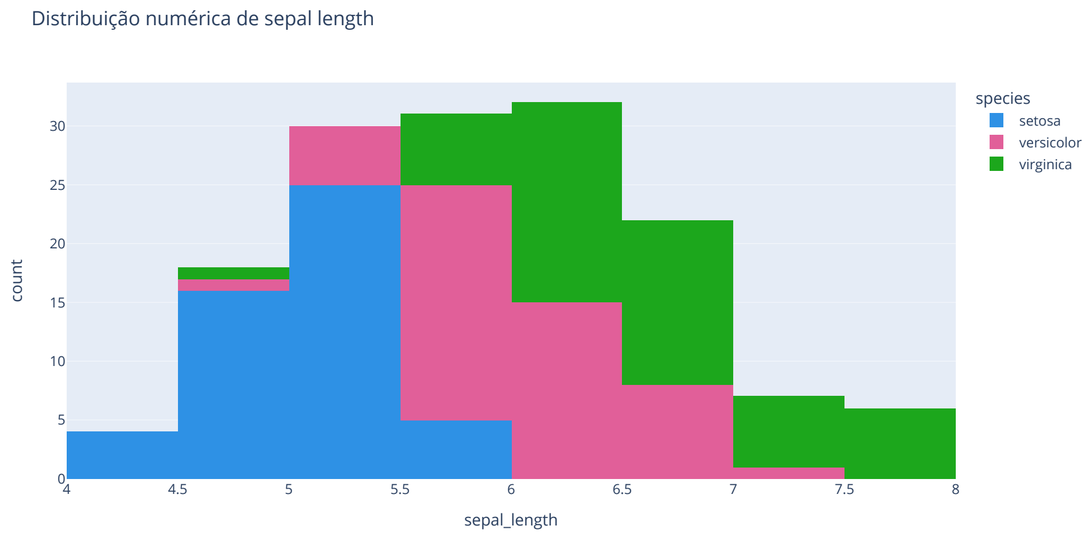
Out[6]:

	sepal_length	sepal_width	petal_length	petal_width	species_id
count	150.000000	150.000000	150.000000	150.000000	150.000000
mean	5.843333	3.054000	3.758667	1.198667	2.000000
std	0.828066	0.433594	1.764420	0.763161	0.819232
min	4.300000	2.000000	1.000000	0.100000	1.000000
25%	5.100000	2.800000	1.600000	0.300000	1.000000
50%	5.800000	3.000000	4.350000	1.300000	2.000000
75%	6.400000	3.300000	5.100000	1.800000	3.000000
max	7.900000	4.400000	6.900000	2.500000	3.000000

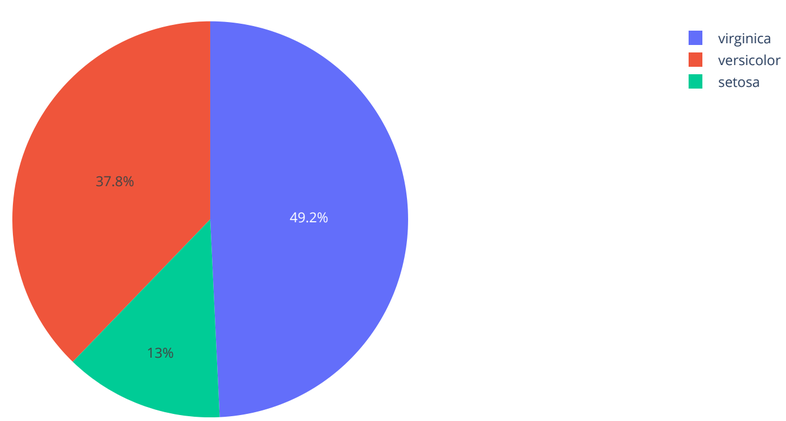
In [7]:
```
fig = px.scatter(df,x='sepal_width',y='sepal_length',color='species',title="Correlação entre Sepal width x Sepal length")
fig.show()
```



In [10]:
```
fig_hist = px.histogram(
    df,x='sepal_length',
    color='species',
    color_discrete_sequence=px.colors.qualitative.Dark24,
    title='Distribuição numérica de sepal length'
)
fig_hist.show()
```



In [19]:
```
fig_pz = px.pie(df,values='petal_length',names='species',title='Distribuição categórica de Sepal length por espécie')
fig_pz.show()
```



In [ ]: