```
from sklearn.datasets import load_iris
import pandas as pd

# Load dataset
iris = load_iris()

# Create a DataFrame
df = pd.DataFrame(data=iris.data, columns=iris.feature_names)
df['species'] = iris.target

# Map target values to species names
df['species'] = df['species'].map({i: species for i, species in enumerate(iris.target_names)})
df.head()
```

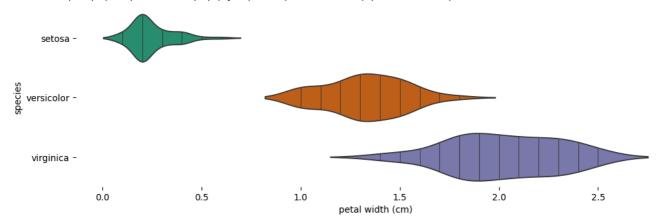
→ *		sepal length (cm)	sepal width (cm)	petal length (cm)	petal width (cm)	species
	0	5.1	3.5	1.4	0.2	setosa
	1	4.9	3.0	1.4	0.2	setosa
	2	4.7	3.2	1.3	0.2	setosa
	3	4.6	3.1	1.5	0.2	setosa
	4	5.0	3.6	1.4	0.2	setosa

> species vs petal width (cm)

Show code

→ /tmp/ipython-input-3311808838.py:7: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `y` variable to `hue` and set `le sns.violinplot(df, x='petal width (cm)', y='species', inner='stick', palette='Dark2')



Start coding or generate with AI.

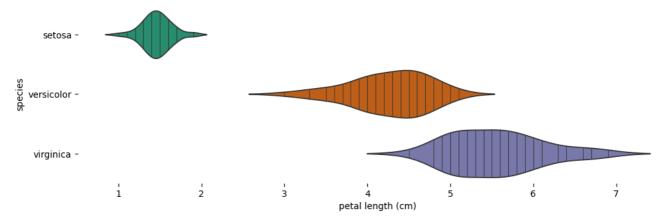
Start coding or generate with AI.

> species vs petal length (cm)

Show code

/tmp/ipython-input-4076210793.py:7: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `y` variable to `hue` and set `le sns.violinplot(df, x='petal length (cm)', y='species', inner='stick', palette='Dark2')

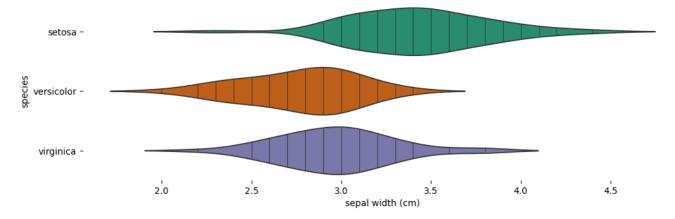


> species vs sepal width (cm)

Show code

/tmp/ipython-input-2833929885.py:7: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `y` variable to `hue` and set `le sns.violinplot(df, x='sepal width (cm)', y='species', inner='stick', palette='Dark2')

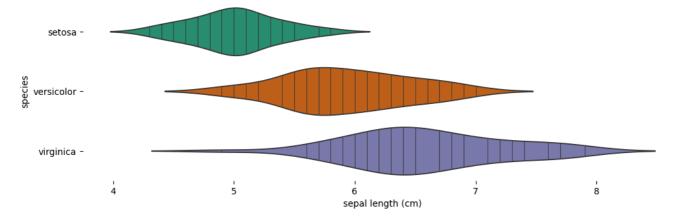


> species vs sepal length (cm)

Show code

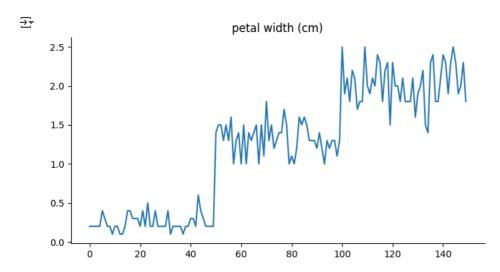
/tmp/ipython-input-3903507029.py:7: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `y` variable to `hue` and set `le sns.violinplot(df, x='sepal length (cm)', y='species', inner='stick', palette='Dark2')



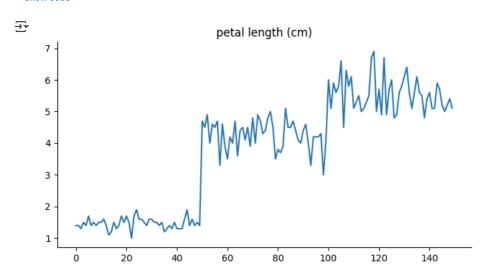
> petal width (cm)

Show code



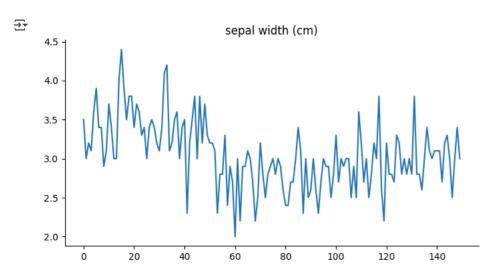
> petal length (cm)

Show code



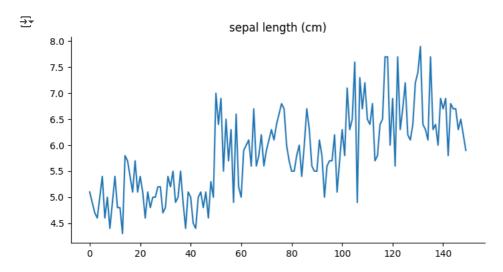
> sepal width (cm)

Show code



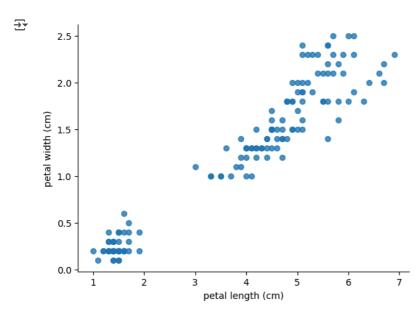
> sepal length (cm)

Show code



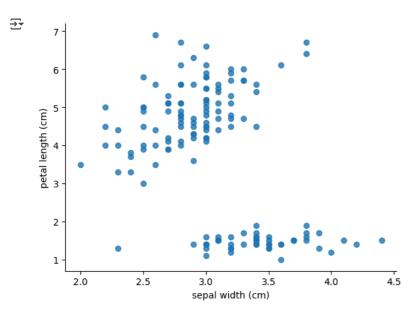
> petal length (cm) vs petal width (cm)

Show code



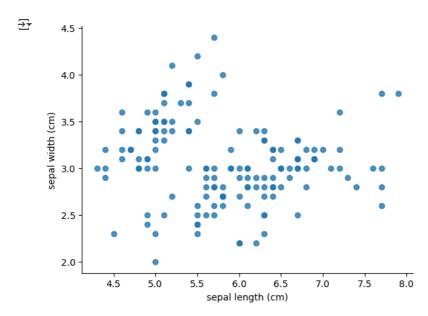
> sepal width (cm) vs petal length (cm)

Show code



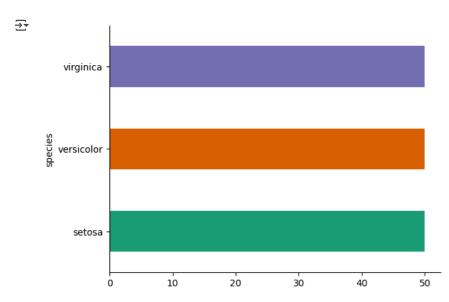
> sepal length (cm) vs sepal width (cm)

Show code



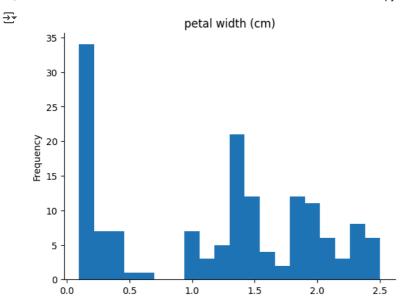
> species

Show code



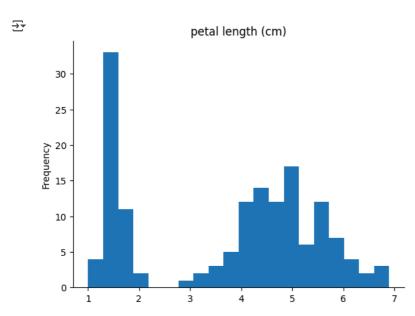
> petal width (cm)

Show code



> petal length (cm)

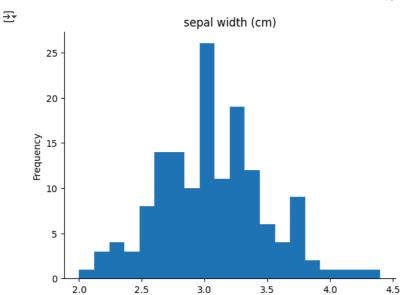
Show code



sepal width (cm)

@title sepal width (cm)

from matplotlib import pyplot as plt
df['sepal width (cm)'].plot(kind='hist', bins=20, title='sepal width (cm)')
plt.gca().spines[['top', 'right',]].set_visible(False)



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

# Pairplot for visualizing relationships
sns.pairplot(df, hue='species')
plt.show()

# Histograms
df.hist(figsize=(10, 6))
plt.tight_layout()
plt.show()
```

