polars

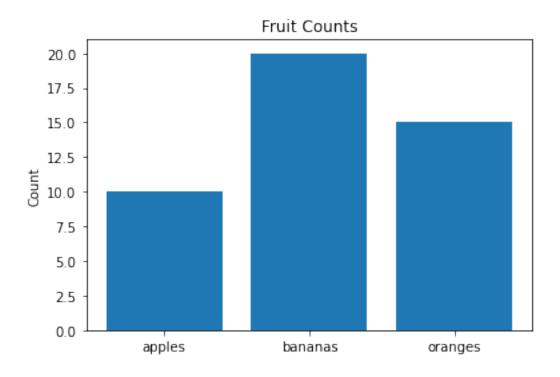
July 19, 2024

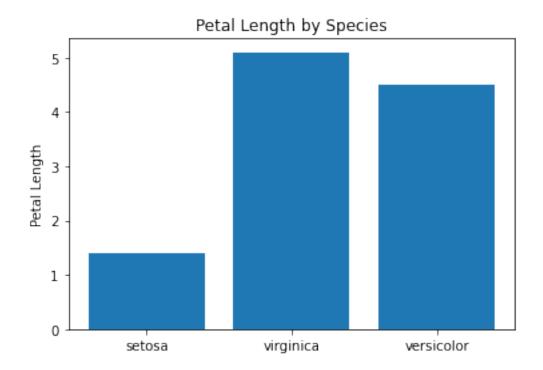
```
[1]: !pip install polars
    Collecting polars
      Downloading
    polars-0.18.4-cp37-abi3-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata
    (14 kB)
    Collecting typing_extensions>=4.0.1 (from polars)
      Downloading typing_extensions-4.7.1-py3-none-any.whl.metadata (3.1 kB)
    Downloading
    polars-0.18.4-cp37-abi3-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (18.9 MB)
                              18.9/18.9 MB
    127.1 MB/s eta 0:00:0000:0100:01
    Downloading typing_extensions-4.7.1-py3-none-any.whl (33 kB)
    Installing collected packages: typing_extensions, polars
      Attempting uninstall: typing_extensions
        Found existing installation: typing-extensions 3.7.4.2
        Uninstalling typing-extensions-3.7.4.2:
          Successfully uninstalled typing-extensions-3.7.4.2
    Successfully installed polars-0.18.4 typing_extensions-4.7.1
    [notice] A new release of pip is
    available: 23.3.1 -> 24.0
    [notice] To update, run:
    pip install --upgrade pip
[7]: import polars as pl
     # Create DataFrame
     data = [{"fruit": "apple", "count": 10, "price": 0.50},
             {"fruit": "banana", "count": 20, "price": 0.25},
             {"fruit": "orange", "count": 10, "price": 0.75},]
     df = pl.from_dicts(data)
     # Expressions to select, filter, aggregate
     sel = df.select(["fruit", "count"]) # Select columns
     filt = sel.filter(pl.col("fruit") == "apple") # Filter rows
     agg = filt.groupby("fruit").agg(pl.col("count").sum()) # Aggregate
```

print(agg) shape: (1, 2) fruit count --str i64 apple 10 [3]: import polars as pl import matplotlib.pyplot as plt # Create sample data data = [{"fruit": "apples", "count": 10}, {"fruit": "bananas", "count": 20}, {"fruit": "oranges", "count": 15}] df = pl.from_dicts(data) # Extract columns fruits = df['fruit'] counts = df['count'] # Plot bar chart fig, ax = plt.subplots() ax.bar(fruits, counts) ax.set_ylabel('Count')

ax.set_title('Fruit Counts')

plt.show()





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