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plotting_visual_takeover.ipy

Code

Python 3

Plotting a Visual Takeover

The executive team has recently partnered up with a business INtelligence company to create a BI platform rooted in digital dashboards. In order to help the initaitive, you need to convert all Pandas/Matplotlib visualizations referred to in this document to hvplot visualiations.

[1]:
```
# Import libraries and dependencies
import pandas as pd
from pathlib import Path
```

[2]:
```
# Import hvplot
import hvplot.pandas
```

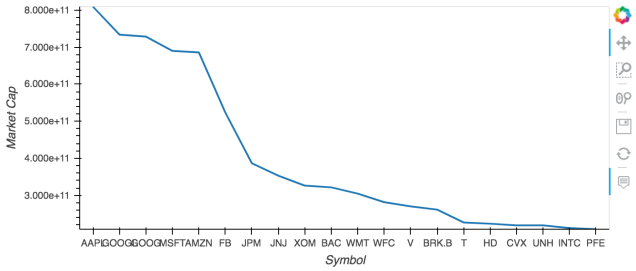
Prepare Data

[3]:
```
# Set the path
file_path = Path('../../Resources/sp500_companies.csv')

# Read in the CSV as a DataFrame
sp500_companies_csv = pd.read_csv(file_path)

# Count the frequency of each sector from the list of companies
sector_count = sp500_companies_csv['Sector'].value_counts()

# Grab the `Symbol` and `Market Cap` columns
market_cap = sp500_companies_csv.loc[:, ['Symbol', 'Market Cap']]

# Set the 'Symbol' as the index
market_cap.set_index(market_cap['Symbol'], inplace=True)

# Drop the extra 'Symbol' column
market_cap.drop(columns=['Symbol'], inplace=True)

# Filter down to 20 companies with the largest market caps
top_20_market_cap = market_cap.nlargest(20, 'Market Cap')
```

Create Plot Using hvplot()

[4]:
```
# Generate standard hvplot
top_20_market_cap.hvplot()
```

[4]:



Create Bar Plot Using hvplot.bar()

[5]:
```
# Plot a hvplot bar chart of the top 20 market cap companies
top_20_market_cap.hvplot.bar(title='Top 20 Market Cap Companies (in billions)')
```

[5]: