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dashboard_panels.ipynb

Code Python 3

[1]:
```
import pandas as pd
import numpy as np
import panel as pn
from panel.interact import interact
import plotly.express as px
import hvplot.pandas

pn.extension("plotly")
```

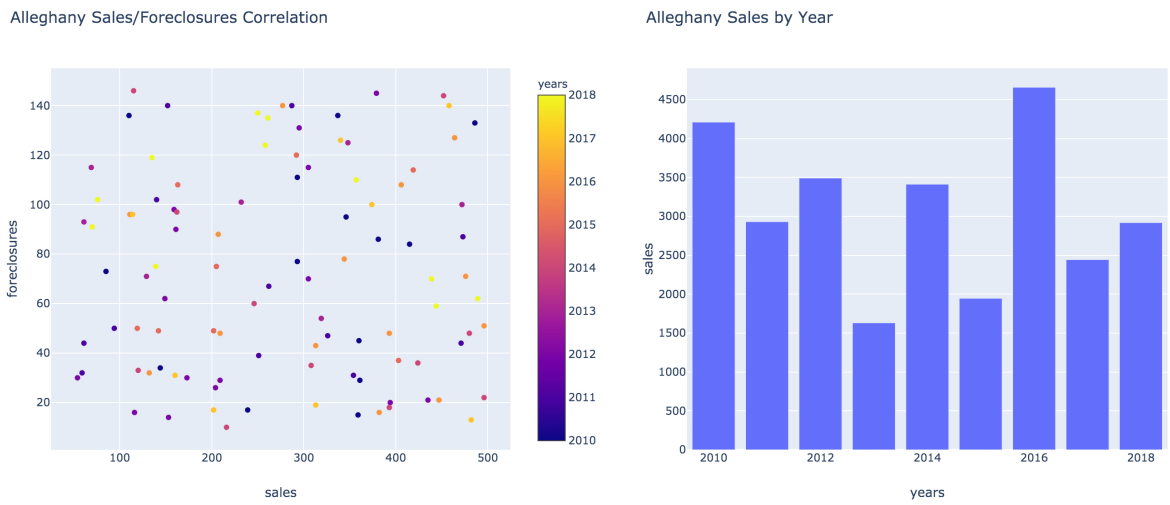
[2]:
```
# Create data
housing_transactions = pd.DataFrame(
    {
        "years": np.random.randint(2010, 2019, 100),
        "sales": np.random.randint(53, 500, 100),
        "foreclosures": np.random.randint(10, 147, 100),
    }
).sort_values(["years", "sales"])

# Create scatter plot
scatter_plot = px.scatter(
    housing_transactions,
    x="sales",
    y="foreclosures",
    color="years",
    title="Alleghany Sales/Foreclosures Correlation",
)

# Create bar plot
transactions_by_year = housing_transactions.groupby("years").sum().reset_index()
bar_plot = px.bar(
    transactions_by_year, x="years", y="sales", title="Alleghany Sales by Year"
)

# Create row
row = pn.Row(scatter_plot, bar_plot)
row
```

[2]:

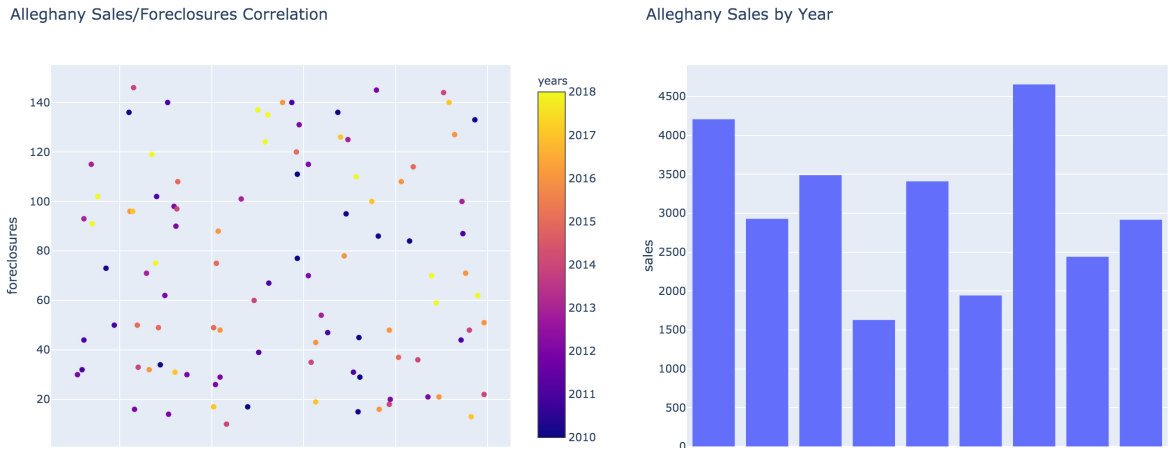


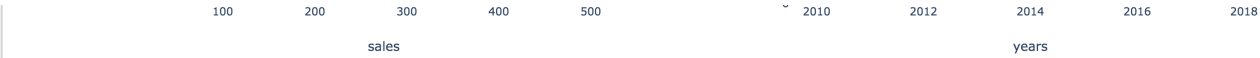
[3]:
```
# Create column using Markdown and row object
column = pn.Column(
    '# Alleghany, PA Real Estate Visualizations',
    '## Sales and Foreclosures',
    row)
column
```

[3]:

Alleghany, PA Real Estate Visualizations

Sales and Foreclosures





[4]:
```
# Create tabs
tabs = pn.Tabs(
    ("Correlations", scatter_plot),
    ("Time Series", bar_plot))
tabs
```

[4]:

Correlations | Time Series