plotting_w_plotly

August 23, 2019

[1]:
```
import plotly.express as px
import pandas as pd
from pathlib import Path
```

1 Plot Foreclosures

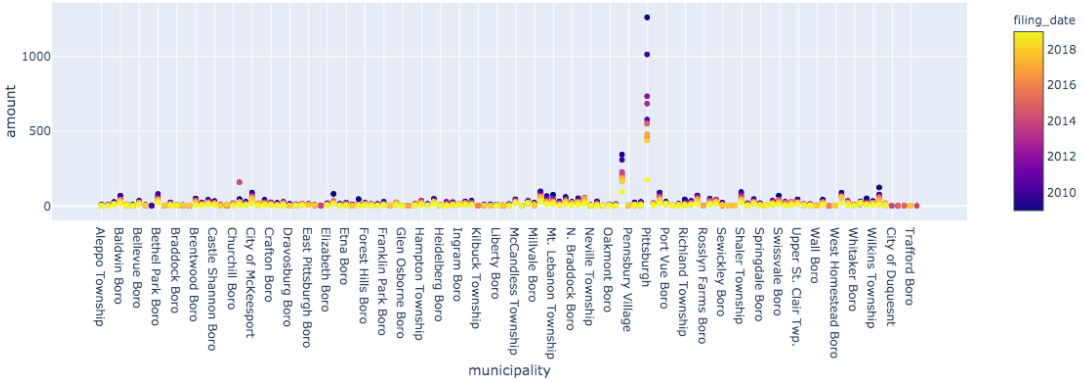
[2]:
```
# Read in data
foreclosures = pd.read_csv(
    Path("../../Resources/alleghany_foreclosures.csv"),
    infer_datetime_format=True,
    parse_dates=True,
    index_col="filing_date",
)

# Slice data and group
foreclosures_grp = (
    foreclosures[["municipality", "amount"]]
    .groupby([foreclosures.index.year, "municipality"])
    .count()
    .reset_index()
)
foreclosures_grp.head()
```

[2]:

	filing_date	municipality	amount
0	2009	Aleppo Township	5
1	2009	Aspinwall Boro	4
2	2009	Avalon Boro	22
3	2009	Baldwin Boro	47
4	2009	Baldwin Township	11

1.1 Plot relationship between municipality and the number of foreclosures

[3]:
```
# Create scatter plot
px.scatter(foreclosures_grp, x="municipality", y="amount", color="filing_date")
```



1.2 Plot the relationship between filing date and municipality

[4]:
```
# Create scatter plot
px.scatter(foreclosures_grp, x="municipality", y="filing_date", size="amount")
```