parallel_categories

August 23, 2019

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

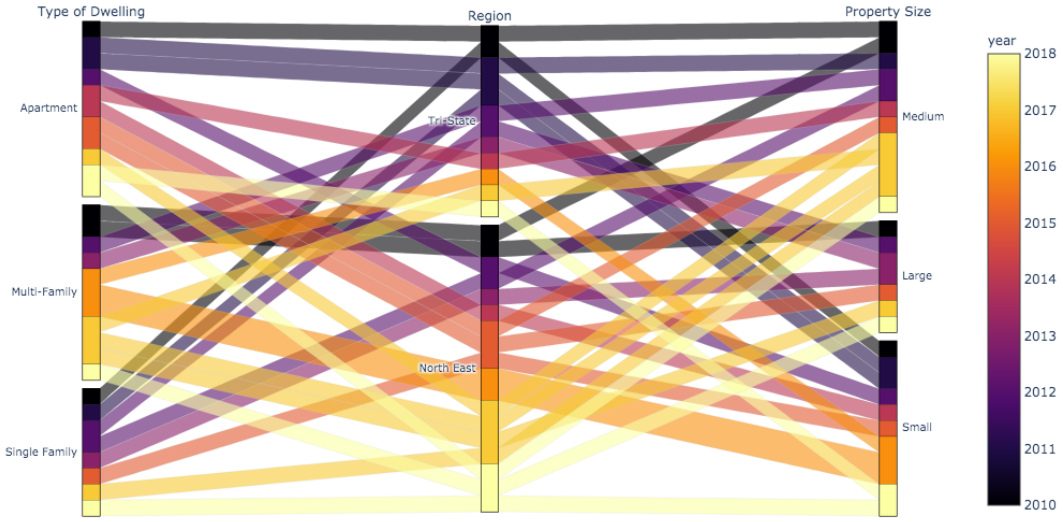
[2]:
```
# Prep Data
housing_type = ["Single Family", "Multi-Family", "Apartment"]
region = ["North East", "Tri-State"]
prop_size = ["Large", "Medium", "Small"]

df = pd.DataFrame(
    {
        "sold": np.random.randint(999, 1002, 30),
        "year": np.random.randint(2010, 2019, 30),
        "type": np.random.choice(housing_type, 30),
        "region": np.random.choice(region, 30),
        "prop_size": np.random.choice(prop_size, 30),
    }
).sort_values(["year", "type", "region", "prop_size"])
df.head()
```

[2]:

	sold	year	type	region	prop_size
0	999	2010	Apartment	Tri-State	Medium
16	999	2010	Multi-Family	North East	Large
11	1001	2010	Multi-Family	North East	Medium
14	1001	2010	Single Family	Tri-State	Small
20	999	2011	Apartment	Tri-State	Medium

[3]:
```
# Plot data using parallel_categories
px.parallel_categories(
    df,
    dimensions=["type", "region", "prop_size"],
    color="year",
    color_continuous_scale=px.colors.sequential.Inferno,
    labels={
        "type": "Type of Dwelling",
        "region": "Region",
        "prop_size": "Property Size",
```

```
    },
)
```


Type of Dwelling
Region
Property Size
Apartment
Multi-Family
Single Family
Tri-State
North East
Medium
Large
Small
year
2018
2017
2016
2015
2014
2013
2012
2011
2010