

File Edit View Run Kernel Tabs Settings Help

A Launcher no_pane_no_gain.ipynb Python 3

No Pane, No Gain

Panes are a fundamental component of Panel dashboards. Panel dashboards cannot be created without Panes. Use your knowledge of Panel panes to convert a Plotly plot to a pane object.

```
[1]: import plotly.express as px
import pandas as pd
import numpy as np
import panel as pn
from panel.interact import interact
from panel import widgets
pn.extension("plotly")
```

Create Pane using Interact Function

Prep & Plot the Data

```
[2]: def create_parallel_categories_plot(number_of_records):
    # Create dimensions
    metropolitan = ["New York City", "San Francisco", "Dallas"]
    housing_type = ["Apartment", "Home", "Commercial"]
    seasons = ["All", "Breezy", "Dry Heat"]
    prop_size = ["Large", "Medium", "Small"]

    # Create DF using dimensions and numpy random generators
    df = pd.DataFrame(
        {
            "sold": np.random.randint(999, 10000, number_of_records),
            "year": np.random.randint(2010, 2019, number_of_records),
            "metropolitan": np.random.choice(metropolitan, number_of_records),
            "housing_type": np.random.choice(housing_type, number_of_records),
            "seasons": np.random.choice(seasons, number_of_records),
            "prop_size": np.random.choice(prop_size, number_of_records),
        }
    ).sort_values(["year", "housing_type", "metropolitan", "prop_size"])

    # Create parallel categories plot
    metro_prop_sale = px.parallel_categories(
        df,
        dimensions=["housing_type", "metropolitan", "prop_size", "seasons"],
        color="year",
        color_continuous_scale=px.colors.sequential.Inferno,
        labels={
            "housing_type": "Type of Property",
            "metropolitan": "Metropolitan",
            "prop_size": "Property Size",
            "seasons": "Seasons",
        },
        width=1200,
    )
    return metro_prop_sale
```

Create interact widget to dynamically change size of plotted dataset

```
[3]: # Use interact function to create interaction widget
interact(create_parallel_categories_plot, number_of_records=30)
```

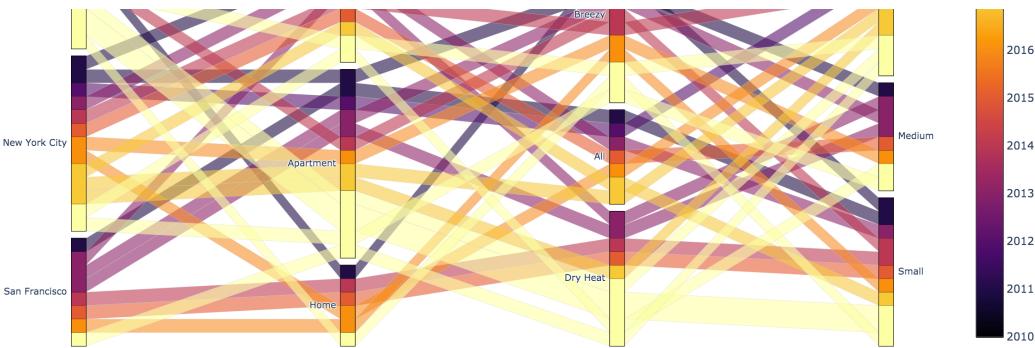
number_of_records: 30

Create Pane using panel.pane.Plotly function

Manually convert plot to a pane

```
[4]: # Use panel.Pane.Plotly function to convert plot to pane
plot_pane = pn.pane.Plotly(create_parallel_categories_plot(30))
plot_pane
```

Metropolitan



Check pane type

```
[5]: # Check the pane type using the pprint() function
plot_panel pprint()
Plotly(Figure)
```