3.0.plotly_express_img_png

December 9, 2024

1 Plotly Express

https://plotly.com/python/plotly-express/

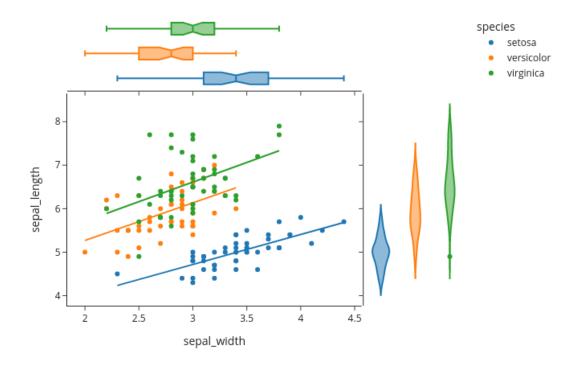
```
[1]: from IPython.display import Image, HTML
```

```
[2]: import plotly.express as px
    df = px.data.iris()
    fig = px.scatter(df, x="sepal_width", y="sepal_length", color="species")
    Image(fig.to_image(format="png"))
```

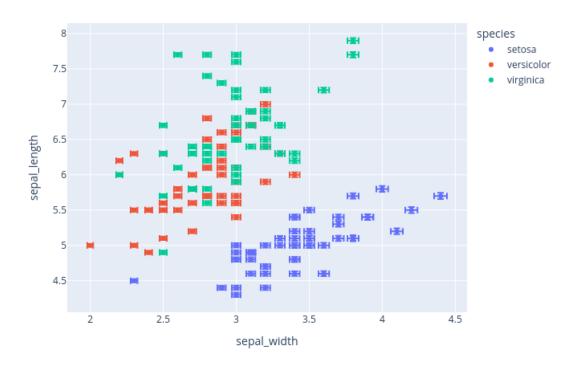
[2]:



[3]:

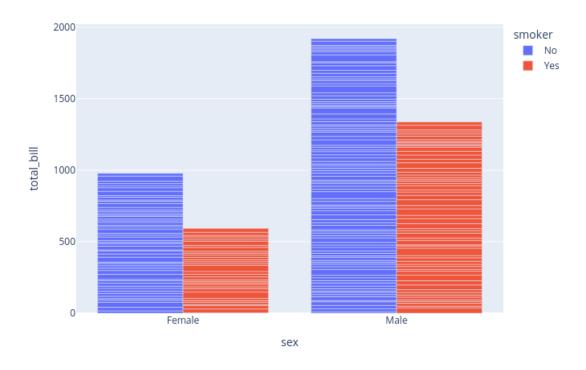


[4]:

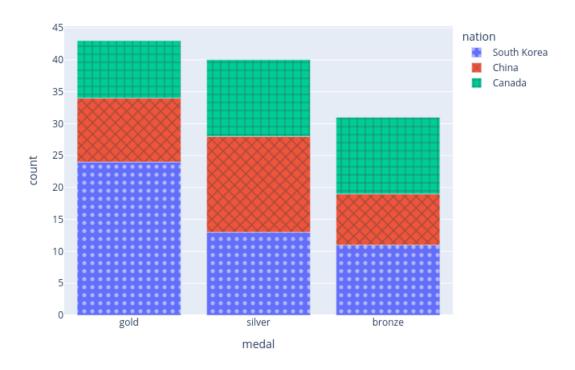


```
[5]: import plotly.express as px
df = px.data.tips()
fig = px.bar(df, x="sex", y="total_bill", color="smoker", barmode="group")
Image(fig.to_image(format="png"))
```

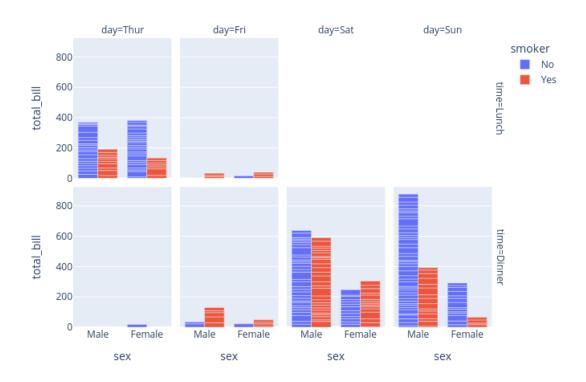
[5]:



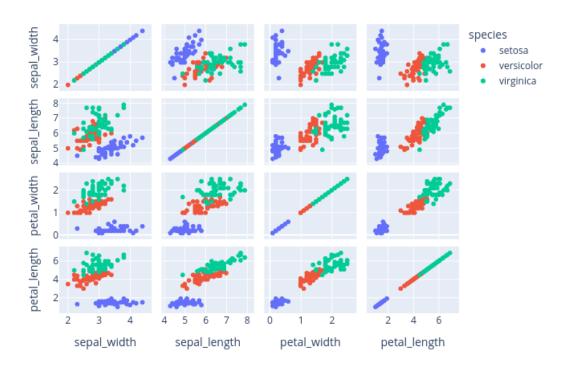
[6]:



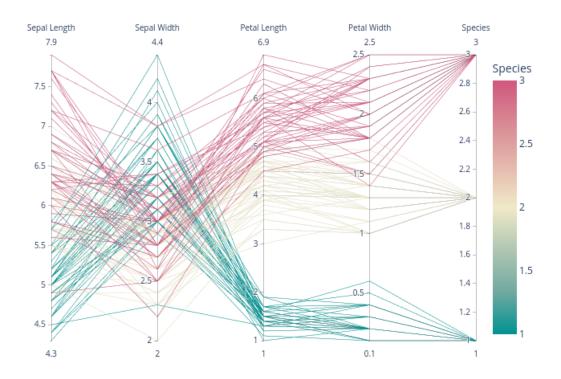
[7]:



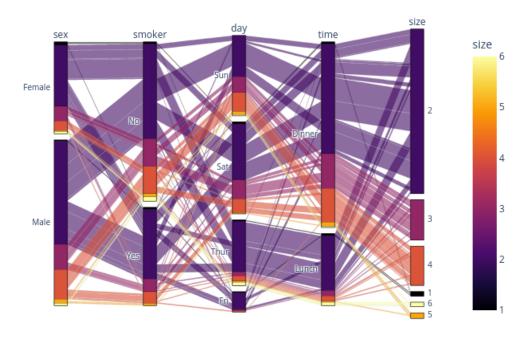
[8]:



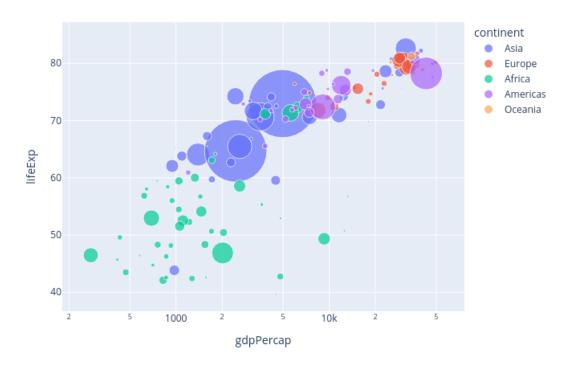
[9]:



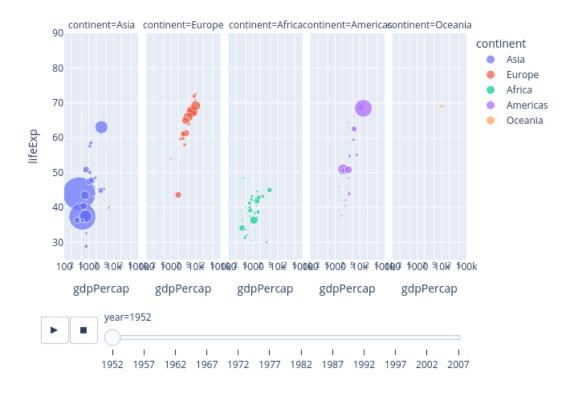
[10]:



[11]:



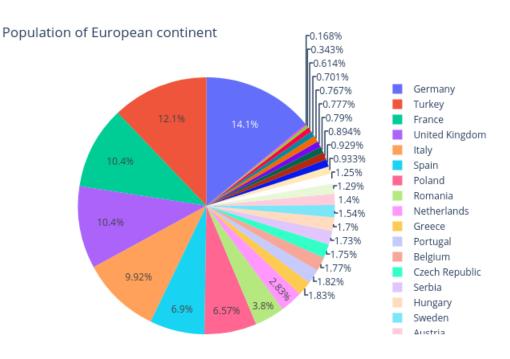
[12]:



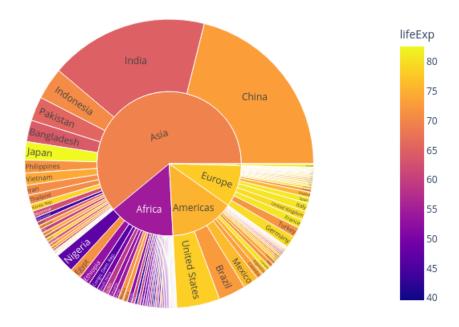
[13]:



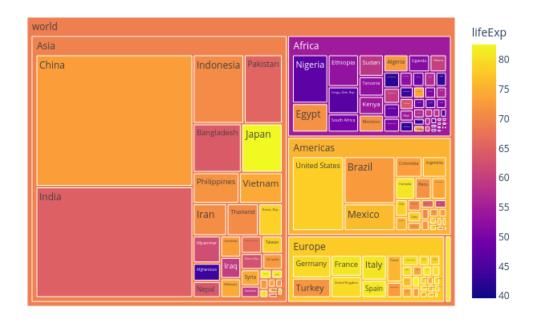
[14]:



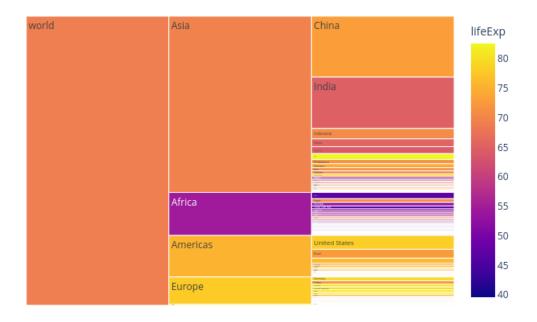
[15]:



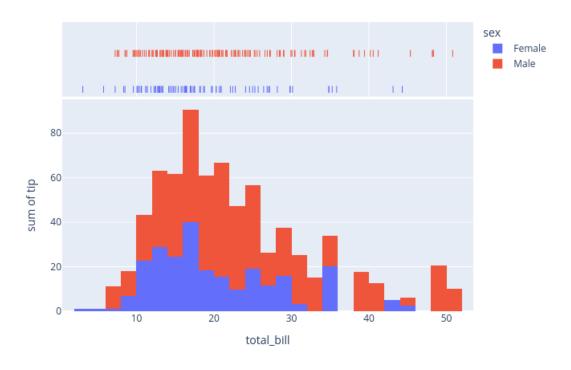
[16]:



[17]:

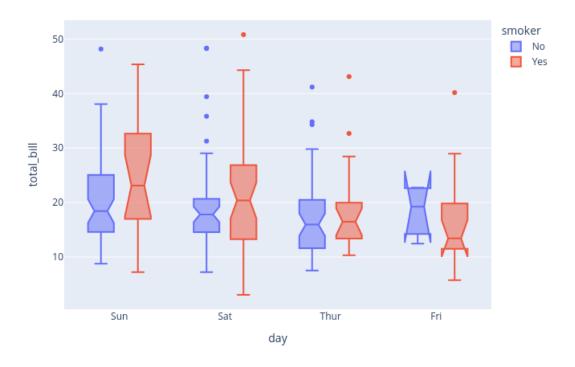


[18]:

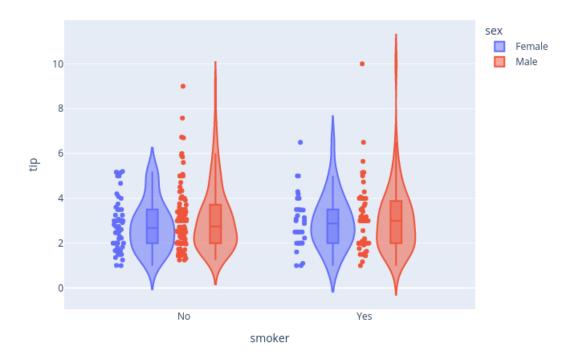


```
[19]: import plotly.express as px
    df = px.data.tips()
    fig = px.box(df, x="day", y="total_bill", color="smoker", notched=True)
    Image(fig.to_image(format="png"))
```

[19]:

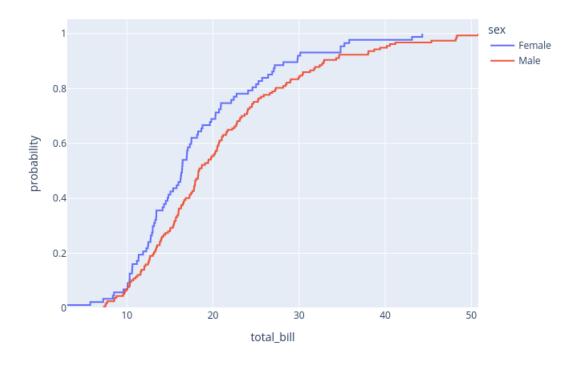


[20]:



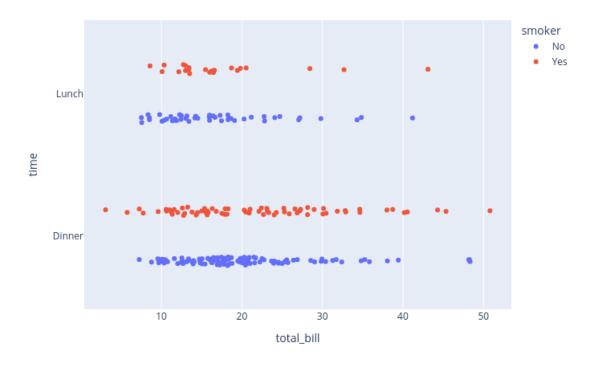
```
[21]: import plotly.express as px
df = px.data.tips()
fig = px.ecdf(df, x="total_bill", color="sex")
Image(fig.to_image(format="png"))
```

[21]:

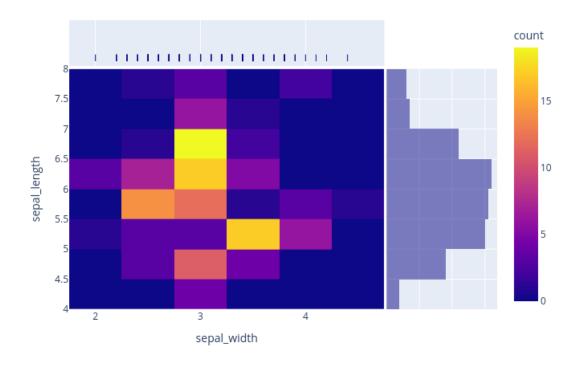


```
[22]: import plotly.express as px
df = px.data.tips()
fig = px.strip(df, x="total_bill", y="time", orientation="h", color="smoker")
Image(fig.to_image(format="png"))
```

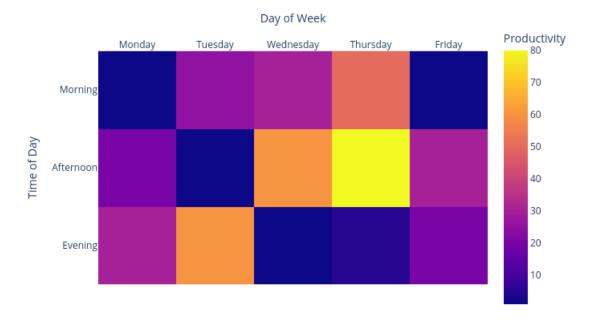
[22]:



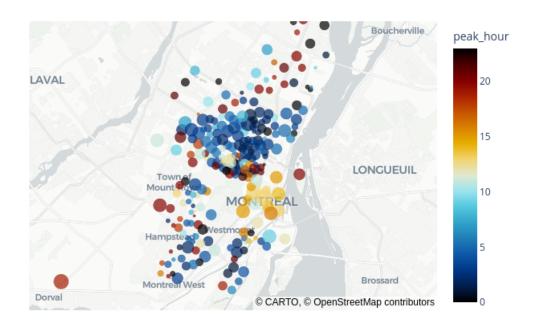
[23]:



[24]:



[29]:

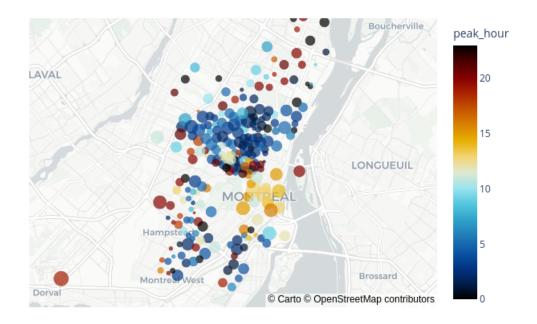


```
[26]: # Ici on utilise Mapbox
      mapbox_access_token = 'votre_token'
      import plotly.express as px
      # Load the carshare data
      df = px.data.carshare()
      # Create a scatter_mapbox plot
      fig = px.scatter_mapbox(df,
                              lat="centroid_lat",
                              lon="centroid_lon",
                              color="peak_hour",
                              size="car_hours",
                              color_continuous_scale=px.colors.cyclical.IceFire,
                              size_max=15,
                              zoom=10,
                              mapbox_style="carto-positron")
      # Set your Mapbox access token here directly
      fig.update_layout(
```

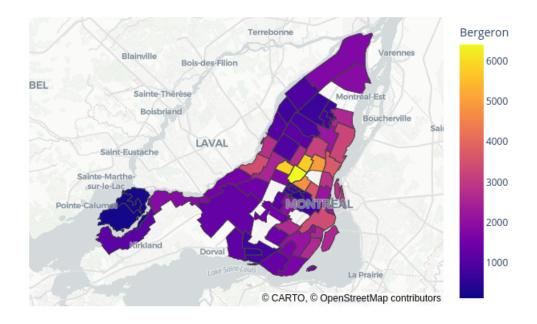
```
mapbox=dict(
         accesstoken=mapbox_access_token
)
)

# Show the map
Image(fig.to_image(format="png"))
```

[26]:

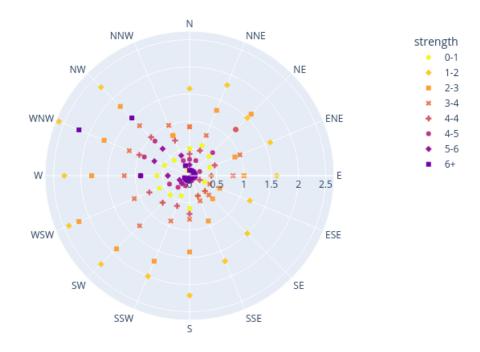


[27]:

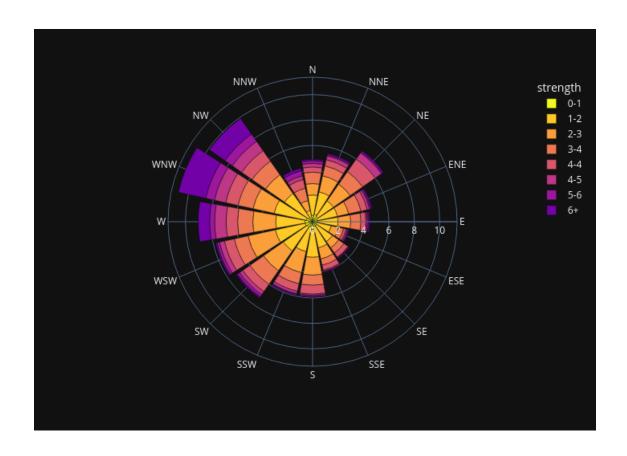


```
[8]: # Ici on utilise Mapbox
     mapbox_access_token = 'votre_token'
     import plotly.express as px
     # Load election data
     df = px.data.election()
     geojson = px.data.election_geojson()
     # Create a choropleth_mapbox plot
     fig = px.choropleth_mapbox(df,
                                geojson=geojson,
                                color="Bergeron",
                                locations="district", # column matching locations_
      ⇔in geojson
                                featureidkey="properties.district", # matching key_
      ⇔in geojson
                                hover_name="district", # info to show on hover
                                color_continuous_scale="Viridis", # color scale
                                zoom=9,
                                center={"lat": 45.5517, "lon": -73.7073},
```

[30]:



[31]:



```
[32]: import plotly.express as px

df = px.data.election()

fig = px.scatter_3d(df, x="Joly", y="Coderre", z="Bergeron", color="winner",

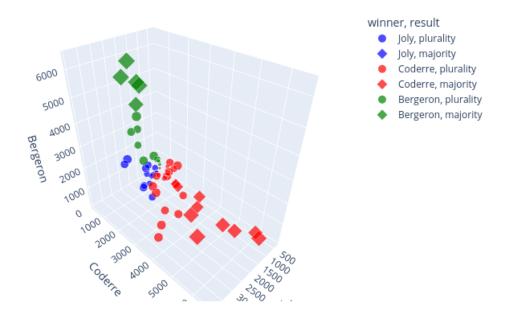
size="total", hover_name="district",

symbol="result", color_discrete_map = {"Joly": "blue",

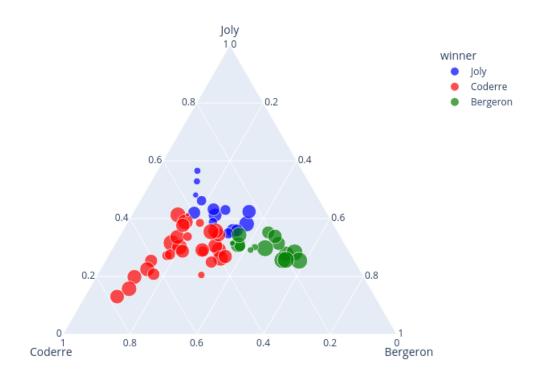
"Bergeron": "green", "Coderre":"red"})

Image(fig.to_image(format="png"))
```

[32]:



[33]:



[]: