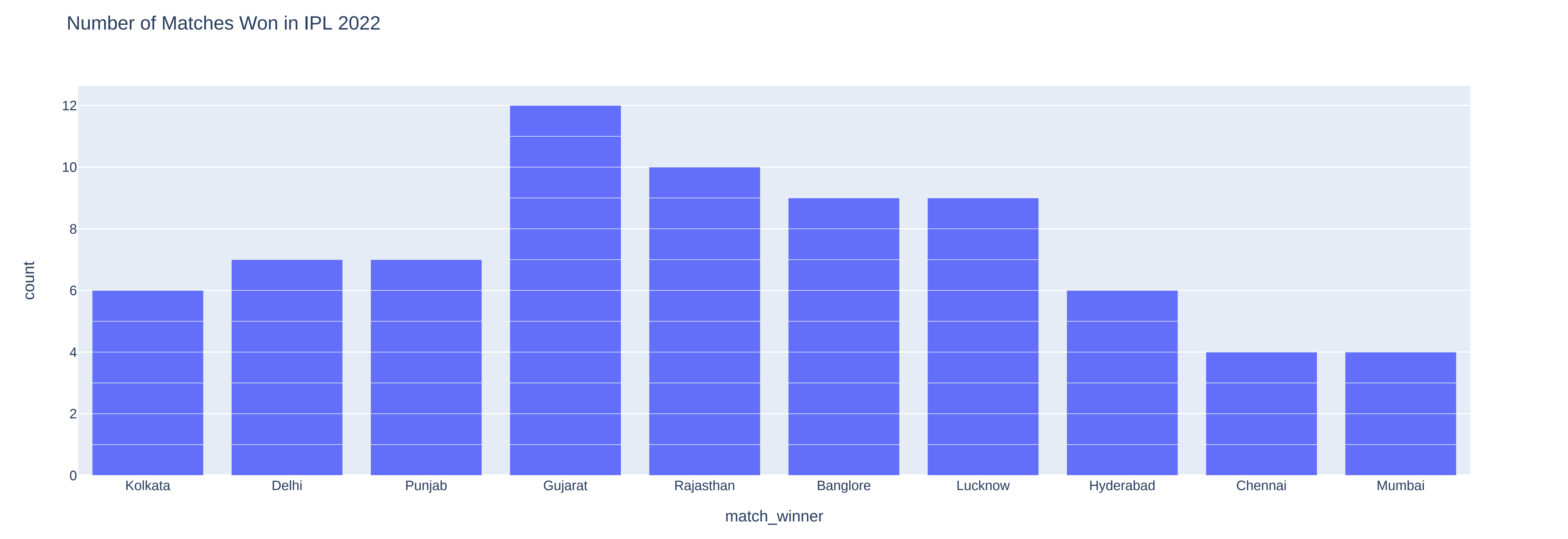
In [3]:
```python
import pandas as pd
import plotly.express as px
import plotly.graph_objects as go
```

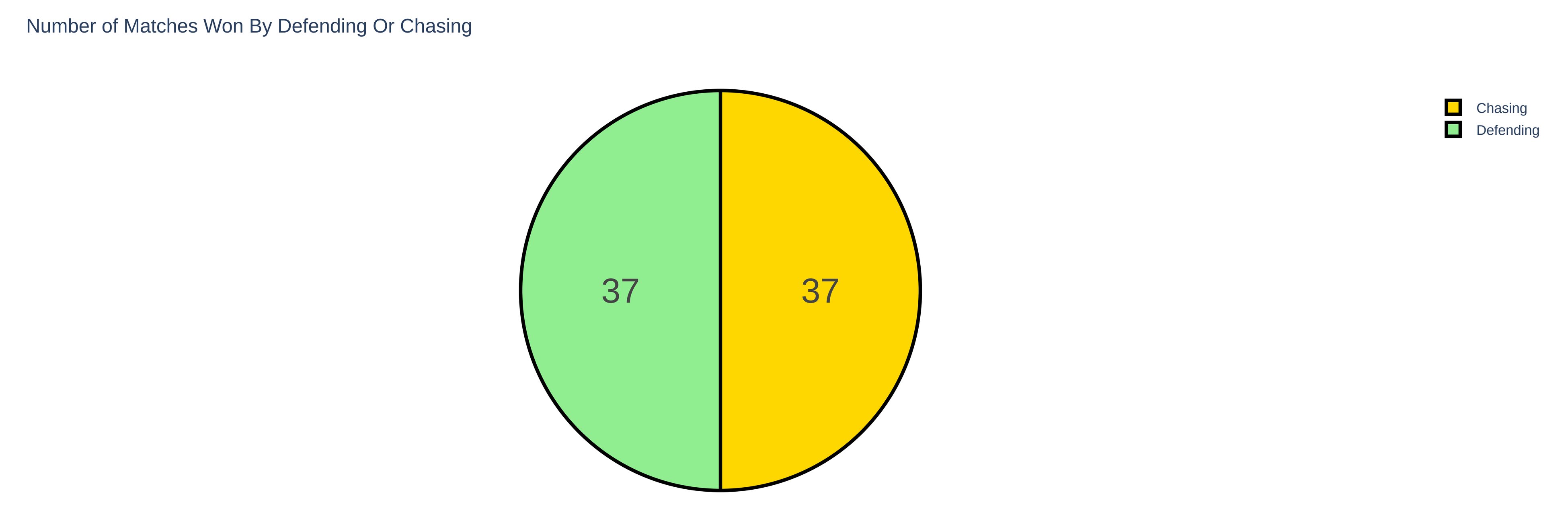
In [6]:
```python
data = pd.read_csv("IPL 2022.csv")
print(data.head())
```

```
   match_id            date                                   venue  \
0         1  March 26,2022                   Wankhede Stadium, Mumbai
1         2  March 27,2022                  Brabourne Stadium, Mumbai
2         3  March 27,2022           Dr DY Patil Sports Academy, Mumbai
3         4  March 28,2022                   Wankhede Stadium, Mumbai
4         5  March 29,2022  Maharashtra Cricket Association Stadium,Pune

       team1      team2  stage toss_winner toss_decision  first_ings_score  \
0    Chennai    Kolkata  Group     Kolkata         Field               131
1      Delhi     Mumbai  Group       Delhi         Field               177
2   Banglore     Punjab  Group      Punjab         Field               205
3    Gujarat    Lucknow  Group     Gujarat         Field               158
4  Hyderabad  Rajasthan  Group   Hyderabad         Field               210

   first_ings_wkts  second_ings_score  second_ings_wkts match_winner   won_by  \
0                5                133                 4      Kolkata  Wickets
1                5                179                 6        Delhi  Wickets
2                2                208                 5       Punjab  Wickets
3                6                161                 5      Gujarat  Wickets
4                6                149                 7    Rajasthan     Runs

   margin player_of_the_match      top_scorer  highscore      best_bowling  \
0       6         Umesh Yadav        MS Dhoni         50      Dwayne Bravo
1       4       Kuldeep Yadav    Ishan Kishan         81     Kuldeep Yadav
2       5         Odean Smith  Faf du Plessis         88    Mohammed Siraj
3       5      Mohammed Shami    Deepak Hooda         55    Mohammed Shami
4      61        Sanju Samson    Aiden Markram         57  Yuzvendra Chahal

  best_bowling_figure
0               3--20
1               3--18
2               2--59
3               3--25
4               3--22
```

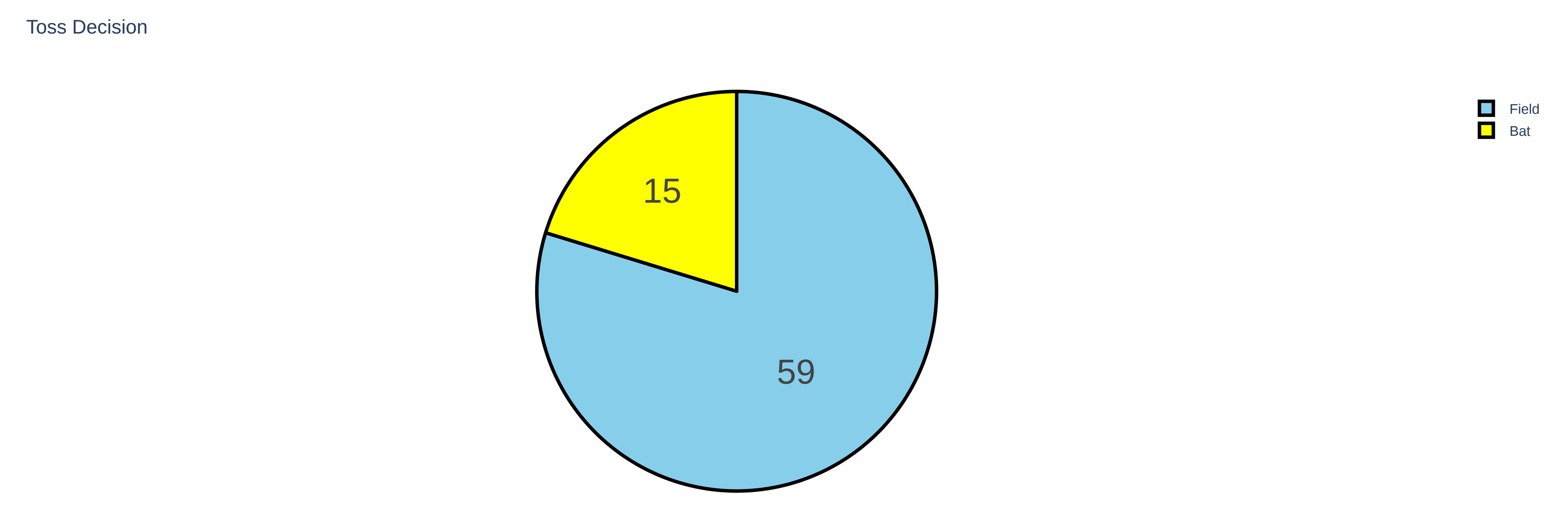
In [7]:
```python
figure = px.bar(data, x=data["match_winner"],
            title="Number of Matches Won in IPL 2022")
figure.show()
```



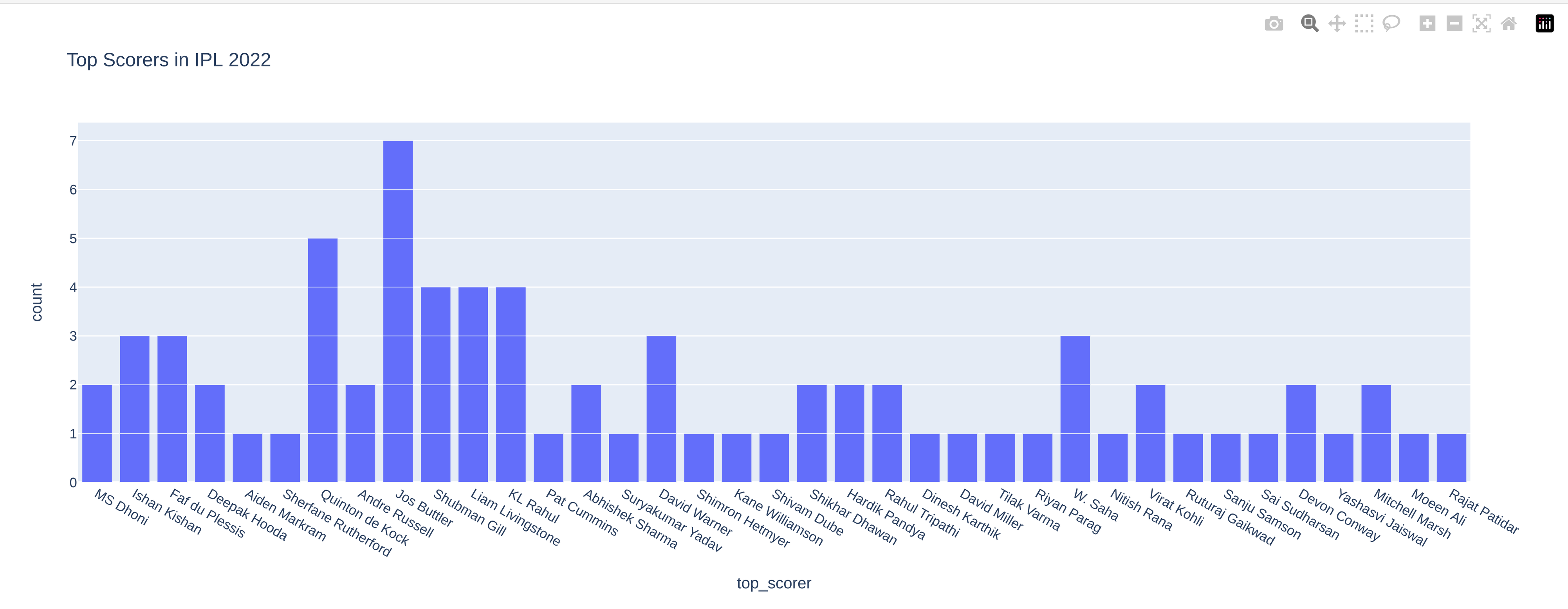
In [8]:
```python
data["won_by"] = data["won_by"].map({"Wickets": "Chasing",
                                      "Runs": "Defending"})
won_by = data["won_by"].value_counts()
label = won_by.index
counts = won_by.values
colors = ['gold','lightgreen']

fig = go.Figure(data=[go.Pie(labels=label, values=counts)])
fig.update_layout(title_text='Number of Matches Won By Defending Or Chasing')
fig.update_traces(hoverinfo='label+percent', textinfo='value',
                  textfont_size=30,
                  marker=dict(colors=colors,
                              line=dict(color='black', width=3)))
fig.show()
```



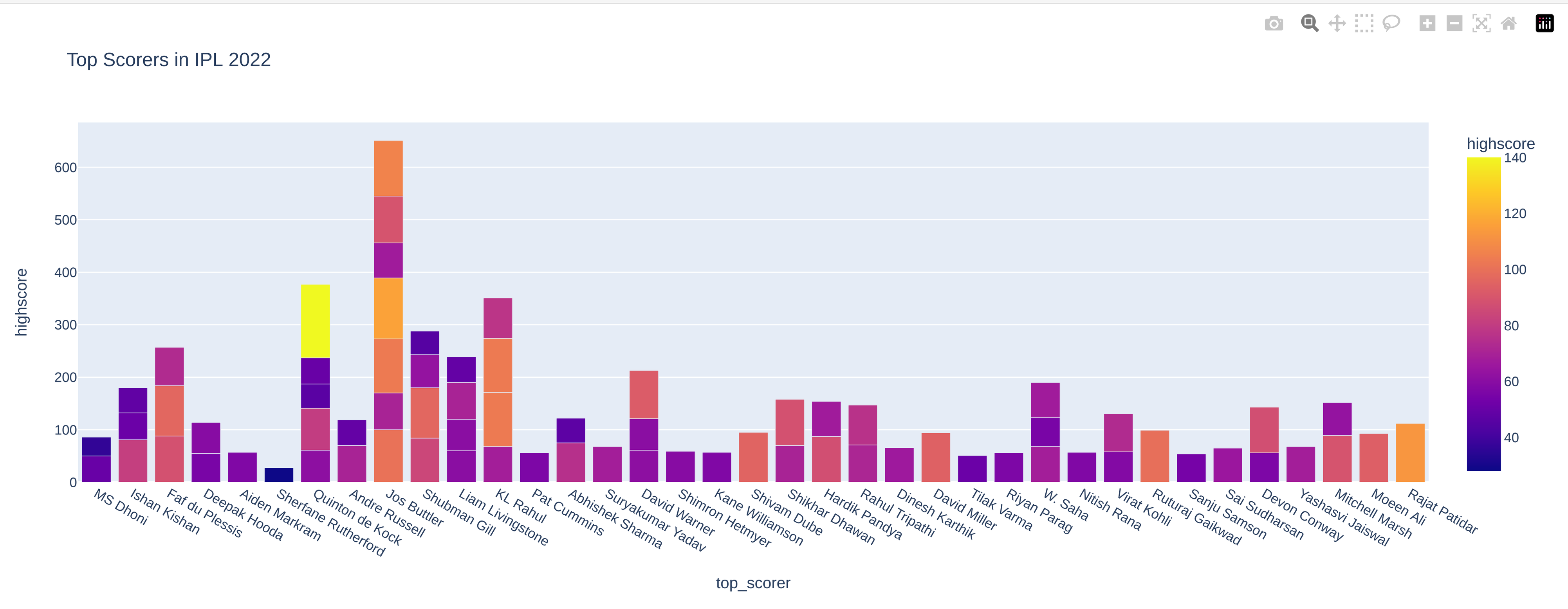
In [9]:
```python
toss = data["toss_decision"].value_counts()
label = toss.index
counts = toss.values
colors = ['skyblue','yellow']

fig = go.Figure(data=[go.Pie(labels=label, values=counts)])
fig.update_layout(title_text='Toss Decision')
fig.update_traces(hoverinfo='label+percent',
                  textinfo='value', textfont_size=30,
                  marker=dict(colors=colors,
                              line=dict(color='black', width=3)))
fig.show()
```



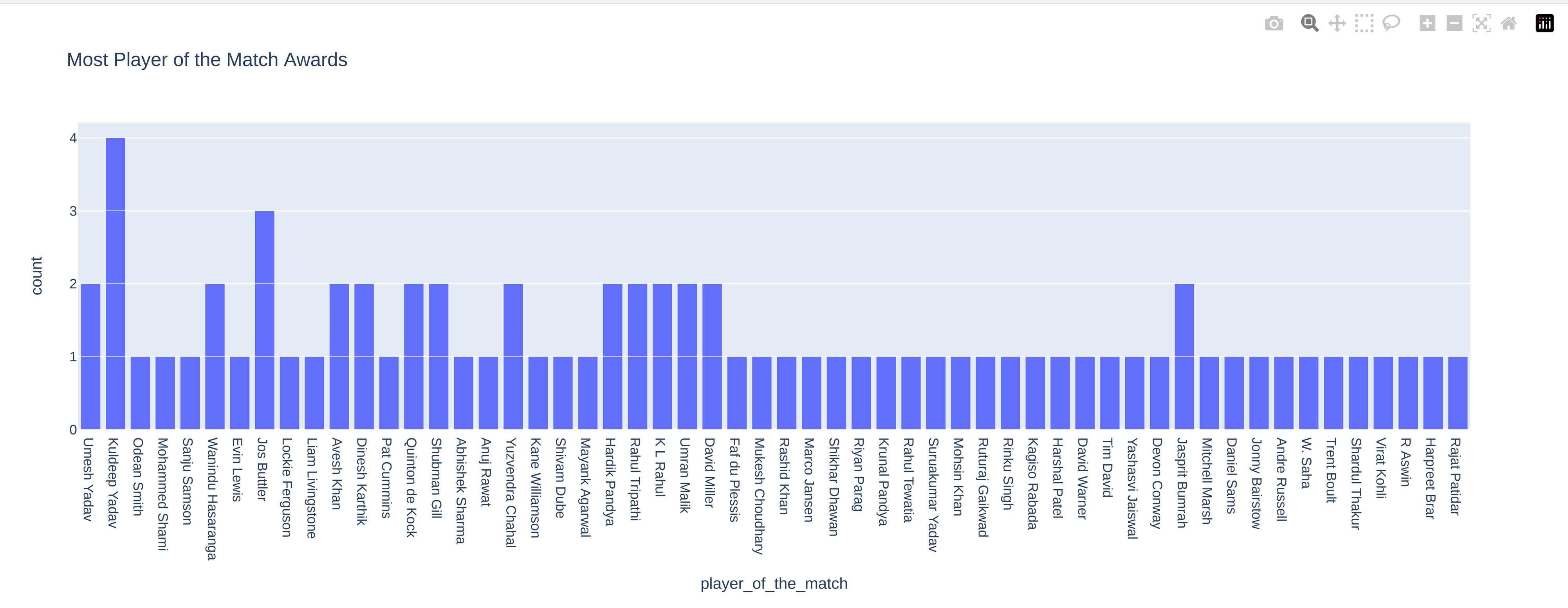
In [10]:
```python
figure = px.bar(data, x=data["top_scorer"],
            title="Top Scorers in IPL 2022")
figure.show()
```



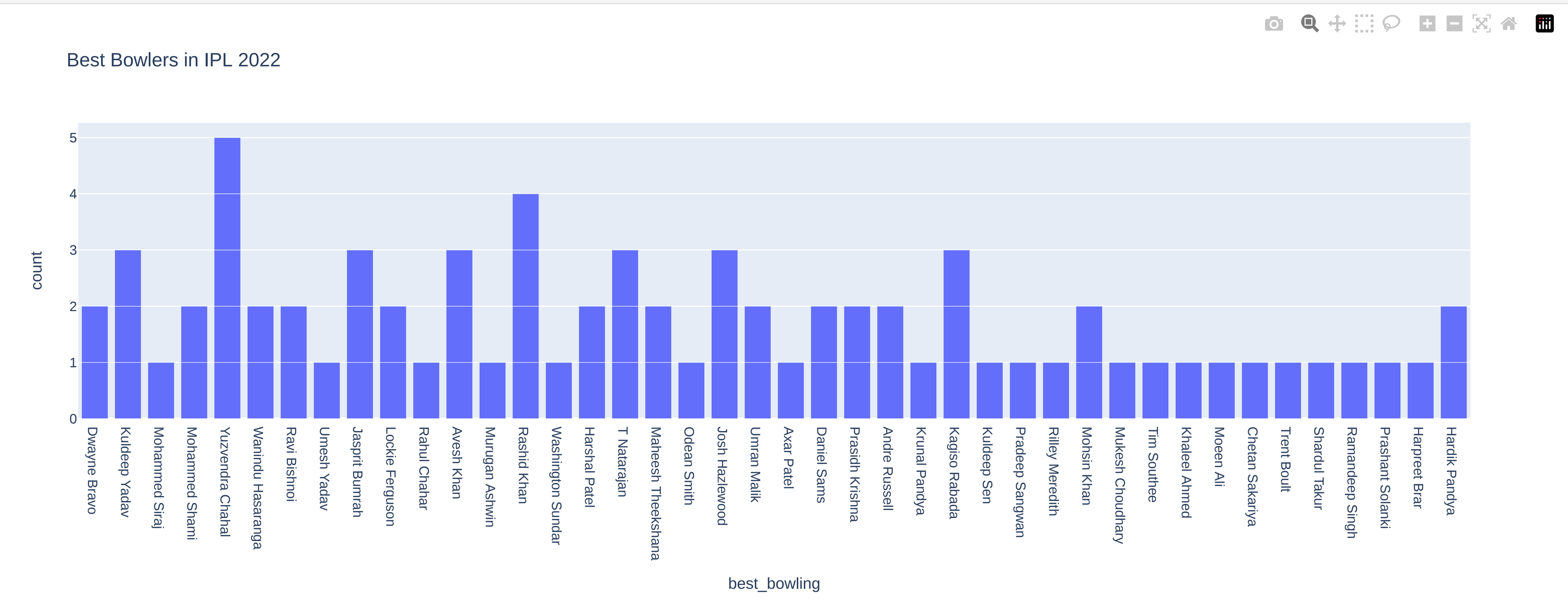
In [11]:
```python
figure = px.bar(data, x=data["top_scorer"],
            y = data["highscore"],
            color = data["highscore"],
            title="Top Scorers in IPL 2022")
figure.show()
```



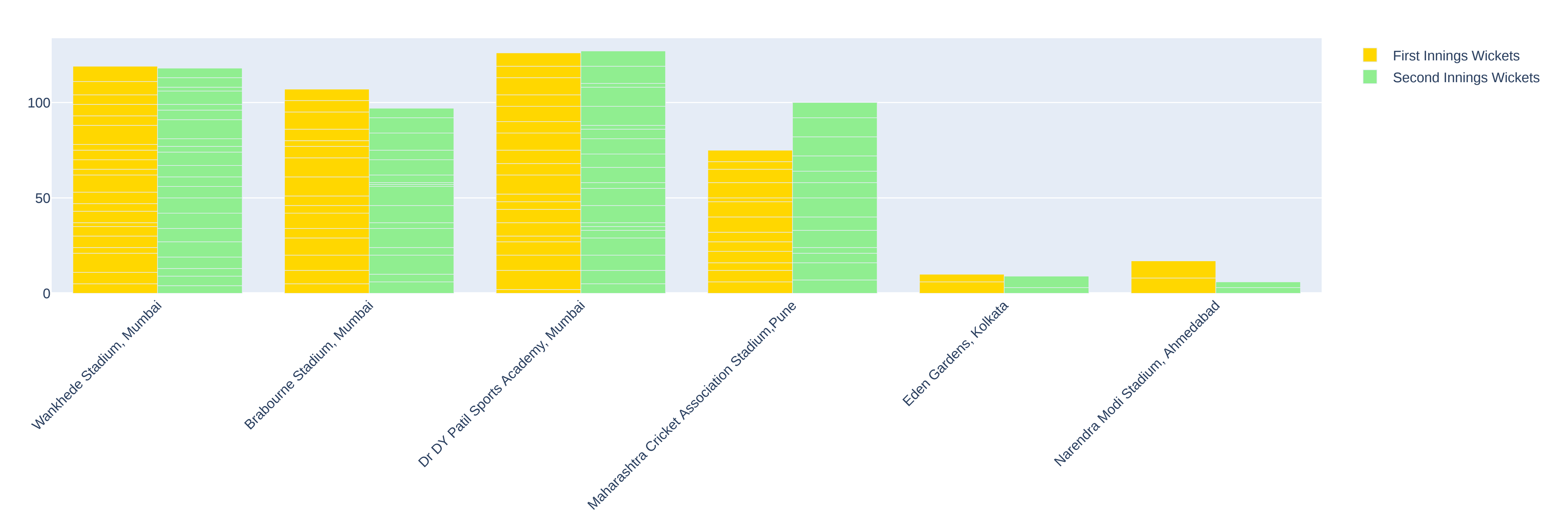
In [12]:
```python
figure = px.bar(data, x = data["player_of_the_match"],
            title="Most Player of the Match Awards")
figure.show()
```



In [13]:
```python
figure = px.bar(data, x=data["best_bowling"],
            title="Best Bowlers in IPL 2022")
figure.show()
```



In [14]:
```python
figure = go.Figure()
figure.add_trace(go.Bar(
    x=data["venue"],
    y=data["first_ings_wkts"],
    name='First Innings Wickets',
    marker_color='gold'
))
figure.add_trace(go.Bar(
    x=data["venue"],
    y=data["second_ings_wkts"],
    name='Second Innings Wickets',
    marker_color='lightgreen'
))
figure.update_layout(barmode='group', xaxis_tickangle=-45)
figure.show()
```



In [ ]: