

```
In [1]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import datetime as dt
```

```
In [2]: results=pd.read_csv(r"C:\Users\berid\OneDrive\Desktop\mydata\international football\results.csv")
shootouts=pd.read_csv(r"C:\Users\berid\OneDrive\Desktop\mydata\international football\shootouts.csv")
```

```
In [3]: df=results.merge(shootouts,how="left",on=["date","home_team","away_team"])
```

```
In [4]: df.rename(columns={"winner":"penalty_winner"},inplace=True)
```

```
In [5]: df["date"]=pd.to_datetime(df["date"])
```

```
In [6]: df
```

```
Out[6]:
```

	date	home_team	away_team	home_score	away_score	tournament	city	country	neutral	penalty_winner
0	1872-11-30	Scotland	England	0	0	Friendly	Glasgow	Scotland	False	NaN
1	1873-03-08	England	Scotland	4	2	Friendly	London	England	False	NaN
2	1874-03-07	Scotland	England	2	1	Friendly	Glasgow	Scotland	False	NaN
3	1875-03-06	England	Scotland	2	2	Friendly	London	England	False	NaN
4	1876-03-04	Scotland	England	3	0	Friendly	Glasgow	Scotland	False	NaN
...
43446	2022-05-28	India	Jordan	0	2	Friendly	Doha	Qatar	True	NaN
43447	2022-05-28	Mexico	Nigeria	2	1	Friendly	Arlington	United States	True	NaN
43448	2022-05-29	United Arab Emirates	Gambia	1	1	Friendly	Dubai	United Arab Emirates	False	NaN
43449	2022-05-30	Ethiopia	Lesotho	1	1	Friendly	Adama	Ethiopia	False	NaN
43450	2022-05-31	Thailand	Bahrain	1	2	Friendly	Pathum Thani	Thailand	False	NaN

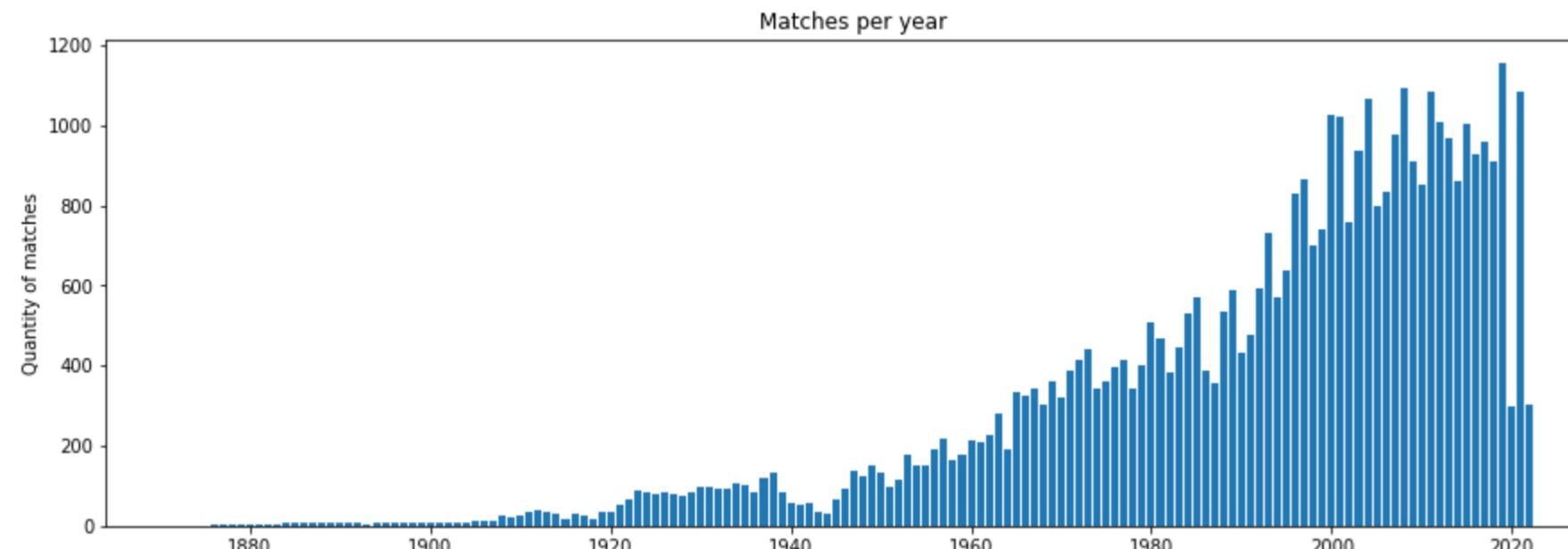
43451 rows × 10 columns

Plot quantity of matches per year since 1872

```
In [7]: df["year"]=df.date.dt.year
```

```
In [8]: grouped=df.groupby("year")["date"].count().reset_index().sort_values("year")

plt.figure(figsize=(15,5))
plt.bar(grouped.year,grouped.date)
plt.title("Matches per year")
plt.ylabel("Quantity of matches")
plt.show()
```



Find 50 team that have played the most internation matches since 1872

```
In [9]: home=df.groupby("home_team")["home_team"].count().reset_index(name="home_matches")
away=df.groupby("away_team")["away_team"].count().reset_index(name="away_matches")
merged=home.merge(away, left_on="home_team",right_on="away_team")[["home_team","home_matches","away_matches"]]
merged["matches"]=merged["home_matches"]+merged["away_matches"]
result=merged.rename(columns={"home_team":"team"})[["team","matches"]].sort_values("matches",ascending=False)
result
```

```
Out[9]:
```

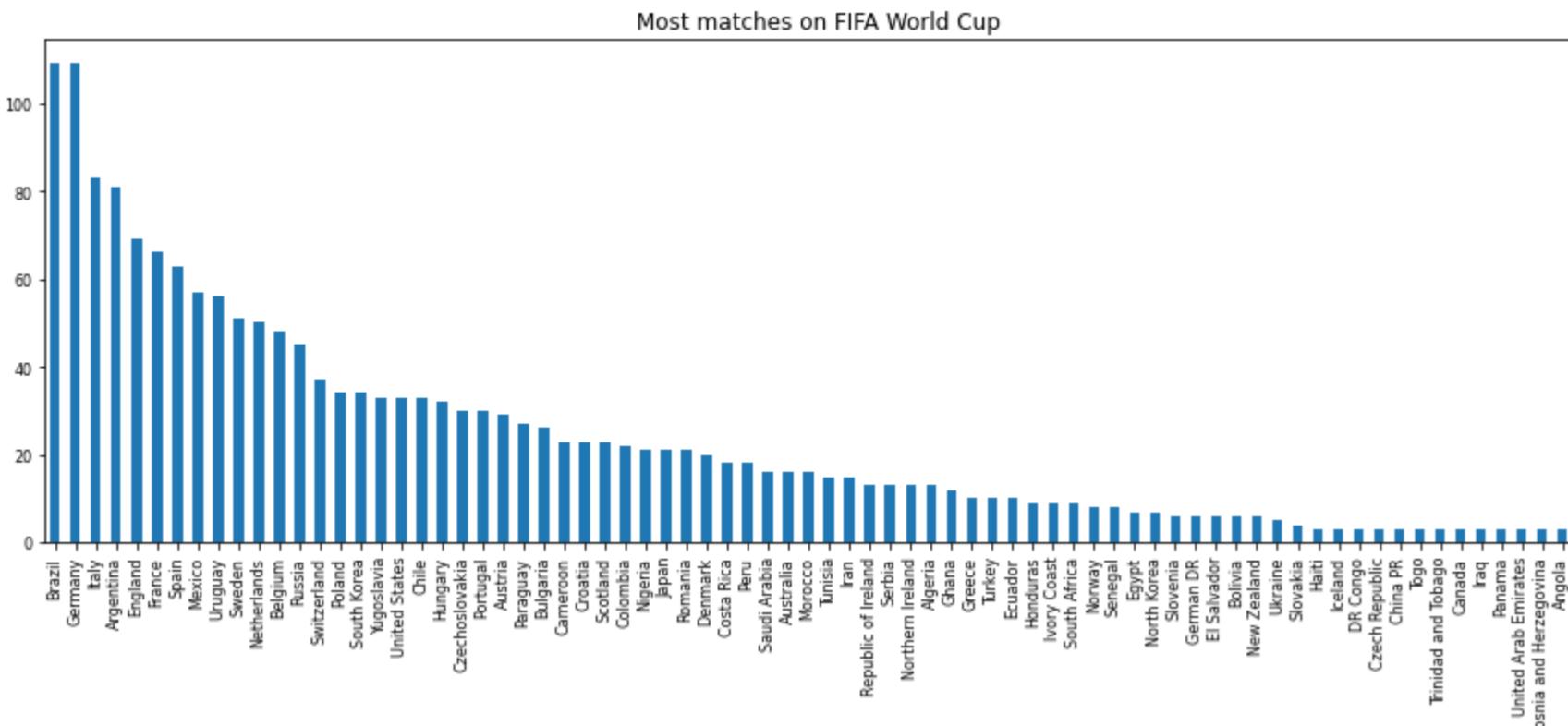
	team	matches
249	Sweden	1045
79	England	1038
35	Brazil	1011
12	Argentina	1007
98	Germany	976
...
218	Saint Helena	4
211	Romani people	3
200	Parishes of Jersey	3
158	Manchukuo	3
50	Central Spain	2

299 rows × 2 columns

find teams that have played the most matches on World Cup

```
In [10]: home=df[df.tournament=="FIFA World Cup"].groupby("home_team")["home_team"].count().reset_index(name="home_matches")
away=df[df.tournament=="FIFA World Cup"].groupby("away_team")["away_team"].count().reset_index(name="away_matches")
merged=home.merge(away, left_on="home_team", right_on="away_team")[["home_team", "home_matches", "away_matches"]]
merged[["matches"]]=merged[["home_matches"]]+merged[["away_matches"]]
result=merged.rename(columns={"home_team":"team"})[["team", "matches"]].sort_values("matches", ascending=False)

result.plot(kind="bar", figsize=(15,5), xlabel="", x="team", y="matches", fontsize=8, legend=False)
plt.title("Most matches on FIFA World Cup")
plt.show()
```



Which countries and how many times have hosted international matches during WW2

```
In [36]: filtered=df[(df.date>="1939-09-01")&(df.date<"1945-09-02")]
grouped=filtered.groupby("country")["country"].count().reset_index(name="count").sort_values("count", ascending=False)

cmap=plt.get_cmap("hot")
colors=list(cmap(np.linspace(0,0.7,grouped.country.nunique())))

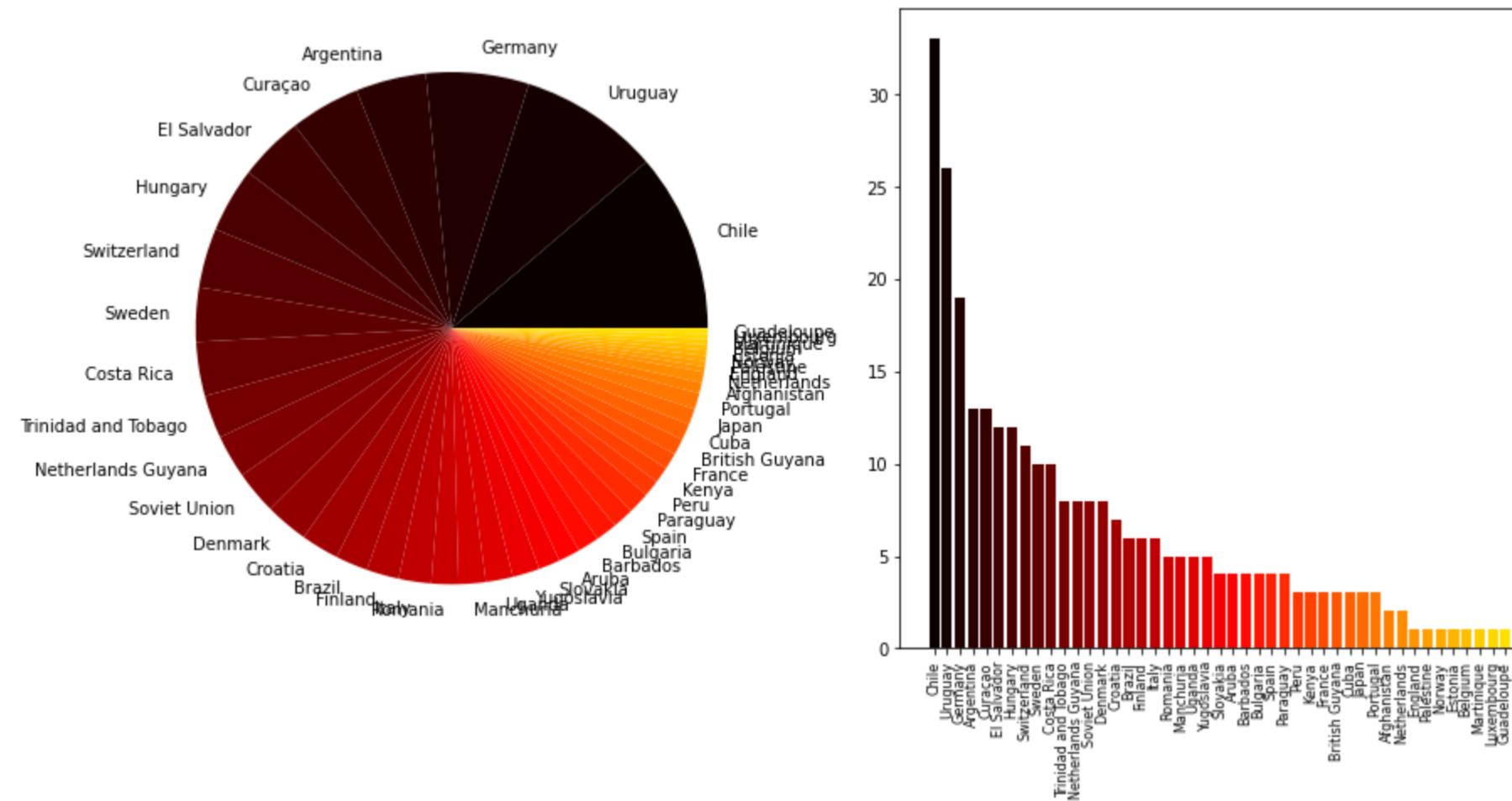
fig,axes=plt.subplots(1,2,figsize=(15,7))

plt.subplot(1,2,1)
plt.pie(grouped["count"], colors=colors, labels=grouped.country)

plt.subplot(1,2,2)
plt.bar(grouped["country"],grouped["count"], color=colors)
plt.xticks(rotation=90, size=8)

plt.suptitle("Countries that hosted international matches during WW2")
plt.show()
```

Countries that hosted international matches during WW2



Which team has the highest win percentage in international matches having they have played more than 100 matches

```
In [70]: home_matches=df.groupby("home_team")["home_team"].count().reset_index(name="home_matches")
home_wins=df[df.home_score>df.away_score].groupby("home_team")["home_team"].count().reset_index(name="home_wins")

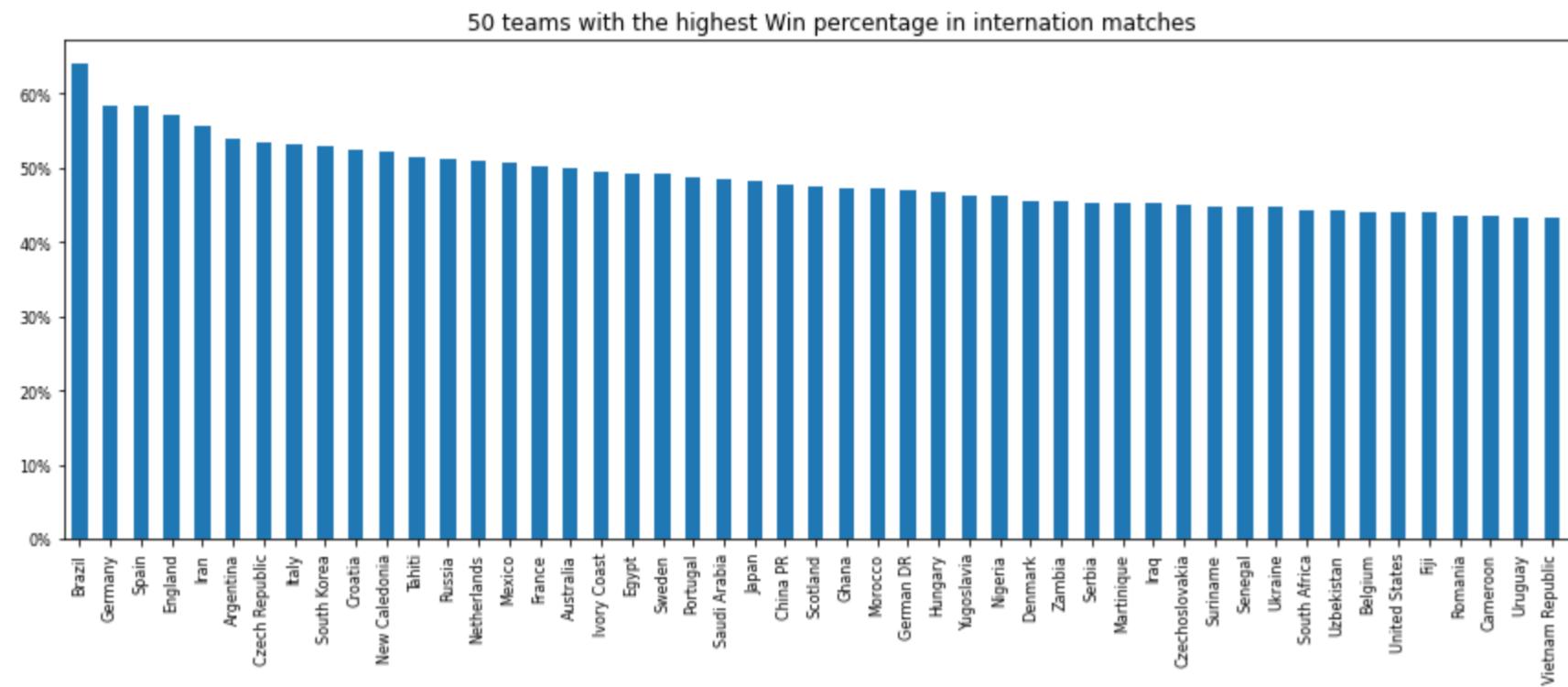
away_matches=df.groupby("away_team")["away_team"].count().reset_index(name="away_matches")
away_wins=df[df.home_score<df.away_score].groupby("away_team")["away_team"].count().reset_index(name="away_wins")

merged1=home_matches.merge(home_wins, on="home_team", how="left")
merged2=away_matches.merge(away_wins, on="away_team", how="left")
merged=merged1.merge(merged2, left_on="home_team", right_on="away_team")

merged[["home_matches", "away_matches", "home_wins", "away_wins"]]=merged[["home_matches", "away_matches", "home_wins", "away_wins"]].fillna(0)

merged["matches"]=merged.home_matches+merged.away_matches
merged["wins"]=merged.home_wins+merged.away_wins
merged["win_percentage"]=(merged.wins/merged.matches*100).round(2)
merged.rename(columns={"home_team":"team"}, inplace=True)
result=merged[["team", "matches", "wins", "win_percentage"]]
result=result.sort_values("win_percentage", ascending=False)
result=result[result.matches>100]

import matplotlib.ticker as mtick
result.head(50).plot(kind="bar", x="team", y="win_percentage", figsize=(15,5), fontsize=8, legend=False, xlabel="")
plt.title("50 teams with the highest Win percentage in internation matches")
plt.gca().yaxis.set_major_formatter(mtick.PercentFormatter(100))
plt.show()
```



Which team has the highest win percentage in penalties, on condition that they have played more than 5

```
In [77]: filtered=df[df.penalty_winner.isna()==False]

penalties_played1=filtered.groupby("home_team")["home_team"].count().reset_index(name="penalties_played1")
penalties_played2=filtered.groupby("away_team")["away_team"].count().reset_index(name="penalties_played2")

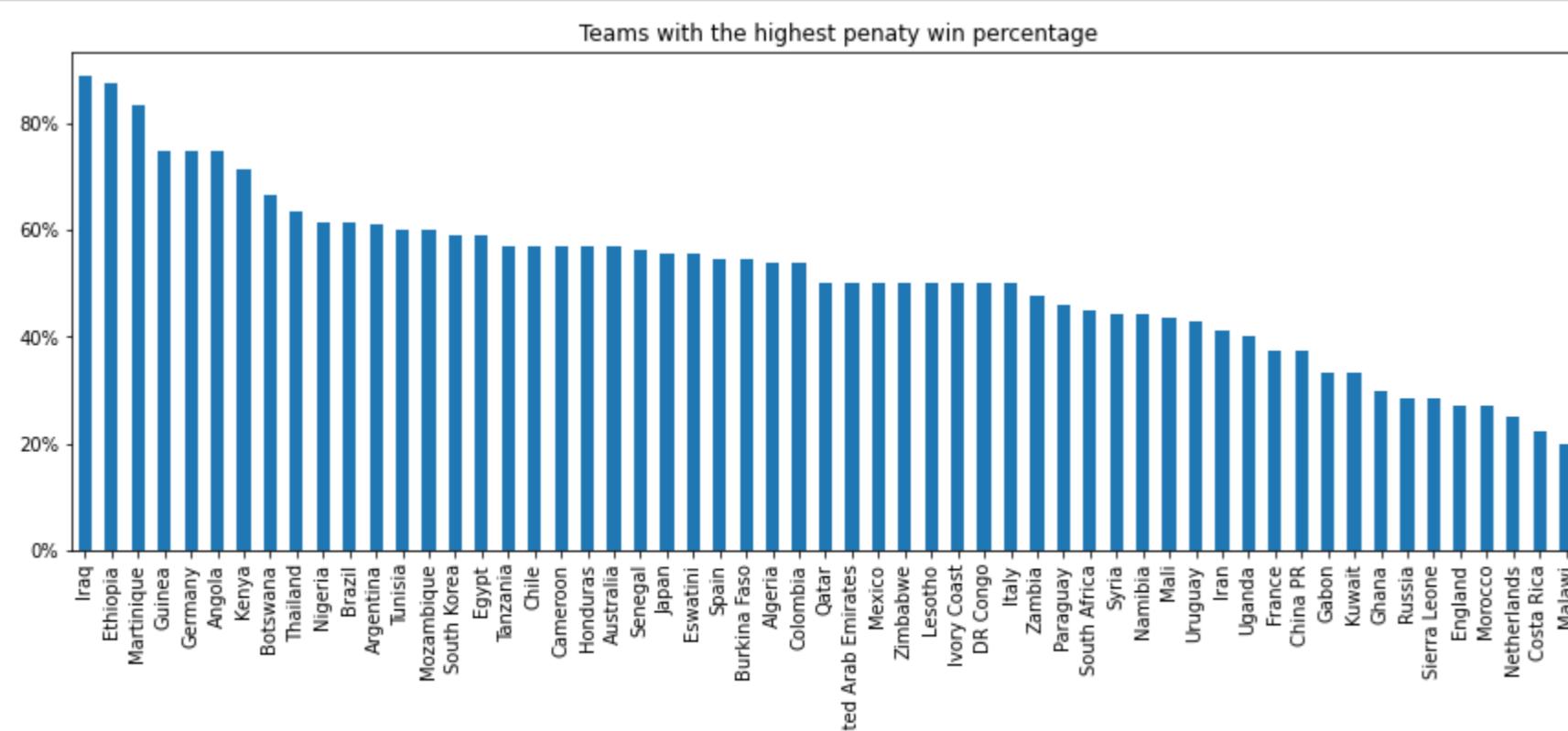
merged=penalties_played1.merge(penalties_played2, left_on="home_team", right_on="away_team", how="outer")

merged[["penalties_played1", "penalties_played2"]]=merged[["penalties_played1", "penalties_played2"]].fillna(0)
merged["penalties_played"]+=merged.penalties_played1+merged.penalties_played2
merged["team"]=[h if h is None else a for h,a in zip(merged.home_team, merged.away_team)]
merged=merged[["team", "penalties_played"]]

wins=filtered.groupby("penalty_winner")["penalty_winner"].count().reset_index(name="penalties_won")
result=merged.merge(wins, left_on="team", right_on="penalty_winner", how="left")

result["win_percentage"]=(result.penalties_won/merged.penalties_played*100).round(2)
result=result[result.penalties_played>5]
result=result.sort_values("win_percentage", ascending=False)
result.dropna(subset=["team"], inplace=True)

import matplotlib.ticker as mtcik
result.plot(kind="bar", figsize=(15,5), x="team", y="win_percentage", xlabel="", legend=False)
plt.title("Teams with the highest penatly win percentage")
plt.gca().yaxis.set_major_formatter(mtcik.PercentFormatter(100))
plt.show()
```



Longest consecutive home win chain for every team

```
In [131]: # is the row a win?  
win = ndf['home_score'].gt(ndf['away_score'])  
  
# subselect wins, groupby consecutive wins, get size, get max size  
(win[win]  
    .groupby([ndf['home_team'], (~win).cumsum()])  
    .size()  
    .groupby(level='home_team').max()  
)  
  
Out[131]: home_team  
Abkhazia          4  
Afghanistan       6  
Albania           5  
Algeria            9  
American Samoa     1  
..  
Yugoslavia        11  
Zambia             10  
Zanzibar            2  
Zimbabwe            6  
Åland Islands        4  
Length: 289, dtype: int64
```

or

```
In [127]: data={}
ndf=df.sort_values(['home_team','date'])

for team in sorted(df.home_team.unique()):
    ndf[ndf.home_team==team]
    i=ndf[ndf.home_team==team][ "home_score"]>ndf[ndf.home_team==team][ "away_score"]
    j = i.ne(i.shift()).cumsum()
    freeze = j[i].value_counts().max()
    data[str(team)]=freeze
data
```

```
Out[127]: {'Abkhazia': 4,
'Afghanistan': 6,
'Albania': 5,
'Alderney': nan,
'Algeria': 9,
'American Samoa': 1,
'Andalusia': 3,
'Andorra': 2,
'Angola': 6,
'Anguilla': 1,
'Antigua and Barbuda': 4,
'Arameans Suryoye': 1,
'Argentina': 16,
'Armenia': 3,
'Artsakh': 2,
'Aruba': 3,
'Australia': 11,
'Austria': 7,
'Azerbaijan': 4,
'Bahamas': 3,
'Bahrain': 7,
'Bangladesh': 5,
'Barawa': 1,
'Barbados': 5,
'Basque Country': 6,
'Belarus': 4,
'Belgium': 8,
'Belize': 5,
'Benin': 6,
'Bermuda': 7,
'Bhutan': 2,
'Bolivia': 7,
'Bonaire': 1,
'Bosnia and Herzegovina': 4,
'Botswana': 6,
'Brazil': 21,
'British Virgin Islands': 2,
'Brittany': 2,
'Brunei': 2,
'Bulgaria': 14,
'Burkina Faso': 10,
'Burundi': 3,
'Cambodia': 4,
'Cameroon': 13,
'Canada': 8,
'Canary Islands': 2,
'Cape Verde': 7,
'Cascadia': 2,
'Catalonia': 4,
'Cayman Islands': 3,
'Central African Republic': 3,
'Central Spain': 1,
'Chad': 2,
'Chagos Islands': nan,
'Chameria': 1,
'Chile': 9,
'China PR': 14,
'Colombia': 10,
'Comoros': 2,
'Congo': 6,
'Cook Islands': 2,
'Corsica': 2,
'Costa Rica': 19,
'County of Nice': 1,
'Croatia': 9,
'Cuba': 6,
'Curaçao': 10,
'Cyprus': 4,
'Czech Republic': 13,
'Czechoslovakia': 7,
'DR Congo': 7,
'Darfur': nan,
'Denmark': 9,
'Djibouti': 1,
'Dominica': 3,
'Dominican Republic': 4,
'Ecuador': 11,
'Egypt': 10,
'El Salvador': 8,
'Ellan Vannin': 2,
'England': 11,
'Equatorial Guinea': 6,
'Eritrea': 2,
'Estonia': 4,
'Eswatini': 4,
'Ethiopia': 7,
'Falkland Islands': 2,
'Faroe Islands': 5,
'Felvidék': 1,
'Fiji': 7,
'Finland': 8,
'France': 14,
'French Guiana': 4,
'Frøya': 2,
'Gabon': 5,
'Galicia': 1,
'Gambia': 3,
'Georgia': 5,
'German DR': 9,
'Germany': 15,
'Ghana': 11,
'Gibraltar': 4,
'Gotland': 2,
'Gozo': 1,
'Greece': 6,
'Greenland': 3,
'Grenada': 6,
'Guadeloupe': 6,
'Guam': 3,
'Guatemala': 12,
'Guernsey': 5,
'Guinea': 10,
'Guinea-Bissau': 4,
'Guyana': 9,
'Gägäuzia': nan,
'Haiti': 7,
```

'Hitra': 1,
'Honduras': 14,
'Hong Kong': 6,
'Hungary': 12,
'Iceland': 4,
'India': 5,
'Indonesia': 11,
'Iran': 12,
'Iraq': 7,
'Iraqi Kurdistan': 4,
'Isle of Man': 5,
'Isle of Wight': 9,
'Israel': 6,
'Italy': 9,
'Ivory Coast': 10,
'Jamaica': 9,
'Japan': 8,
'Jersey': 11,
'Jordan': 8,
'Kabylia': nan,
'Kazakhstan': 5,
'Kenya': 8,
'Kernow': 2,
'Kiribati': nan,
'Kosovo': 6,
'Kuwait': 8,
'Kyrgyzstan': 5,
'Kárpátalja': 3,
'Laos': 4,
'Latvia': 5,
'Lebanon': 4,
'Lesotho': 3,
'Liberia': 5,
'Libya': 8,
'Liechtenstein': 1,
'Lithuania': 4,
'Luxembourg': 3,
'Macau': 2,
'Madagascar': 6,
'Madrid': nan,
'Malawi': 6,
'Malaysia': 9,
'Maldives': 4,
'Mali': 9,
'Malta': 3,
'Manchukuo': nan,
'Martinique': 13,
'Matabeleland': 1,
'Mauritania': 4,
'Mauritius': 13,
'Mayotte': 1,
'Menorca': 5,
'Mexico': 9,
'Micronesia': 1,
'Moldova': 4,
'Monaco': 2,
'Mongolia': 3,
'Montenegro': 5,
'Montserrat': 2,
'Morocco': 11,
'Mozambique': 7,
'Myanmar': 8,
'Namibia': 5,
'Nepal': 3,
'Netherlands': 10,
'New Caledonia': 8,
'New Zealand': 7,
'Nicaragua': 4,
'Niger': 3,
'Nigeria': 11,
'Niue': nan,
'North Korea': 11,
'North Macedonia': 6,
'North Vietnam': 2,
'Northern Cyprus': 9,
'Northern Ireland': 5,
'Northern Mariana Islands': 1,
'Norway': 7,
'Occitania': 3,
'Oman': 7,
'Orkney': 2,
'Padania': 8,
'Pakistan': 3,
'Palau': nan,
'Palestine': 4,
'Panama': 5,
'Panjab': 1,
'Papua New Guinea': 3,
'Paraguay': 8,
'Parishes of Jersey': 2,
'Peru': 10,
'Philippines': 6,
'Poland': 9,
'Portugal': 13,
'Provence': 1,
'Puerto Rico': 3,
'Qatar': 7,
'Raetia': 1,
'Republic of Ireland': 7,
'Republic of St. Pauli': 1,
'Rhodes': 4,
'Romani people': nan,
'Romania': 12,
'Russia': 12,
'Rwanda': 5,
'Réunion': 3,
'Saare County': 1,
'Saarland': nan,
'Saint Helena': nan,
'Saint Kitts and Nevis': 5,
'Saint Lucia': 4,
'Saint Martin': 6,
'Saint Pierre and Miquelon': nan,
'Saint Vincent and the Grenadines': 4,
'Samoa': 3,
'San Marino': 1,
'Sark': nan,
'Saudi Arabia': 12,
'Scotland': 12,
'Senegal': 8,
'Serbia': 6,
'Seychelles': 2,
'Shetland': 4,
'Sierra Leone': 11,
'Silesia': 2,
'Singapore': 5,
'Sint Maarten': 4,

```
'Slovakia': 7,
'Slovenia': 5,
'Solomon Islands': 8,
'Somalia': 2,
'Somaliland': 1,
'South Africa': 7,
'South Korea': 9,
'South Ossetia': 1,
'South Sudan': 2,
'Spain': 12,
'Sri Lanka': 4,
'Sudan': 7,
'Suriname': 7,
'Sweden': 11,
'Switzerland': 6,
'Syria': 9,
'Székely Land': 3,
'Sápmi': 2,
'São Tomé and Príncipe': 2,
'Tahiti': 9,
'Taiwan': 7,
'Tajikistan': 4,
'Tamil Eelam': 1,
'Tanzania': 6,
'Thailand': 10,
'Tibet': nan,
'Timor-Leste': 2,
'Togo': 6,
'Tonga': 3,
'Trinidad and Tobago': 9,
'Tunisia': 8,
'Turkey': 7,
'Turkmenistan': 7,
'Turks and Caicos Islands': 1,
'Tuvalu': 3,
'Uganda': 11,
'Ukraine': 9,
'United Arab Emirates': 11,
'United Koreans in Japan': 1,
'United States': 16,
'United States Virgin Islands': 1,
'Uruguay': 8,
'Uzbekistan': 8,
'Vanuatu': 3,
'Vatican City': nan,
'Venezuela': 7,
'Vietnam': 4,
'Vietnam Republic': 4,
'Wales': 6,
'Wallis Islands and Futuna': 1,
'Western Armenia': 1,
'Western Australia': 1,
'Western Isles': 5,
'Western Sahara': 2,
'Yemen': 5,
'Yemen DPR': 1,
'Ynys Môn': 6,
'Yorkshire': 4,
'Yugoslavia': 11,
'Zambia': 10,
'Zanzibar': 2,
'Zimbabwe': 6,
'Åland Islands': 4}
```

which team score most goals per match and which team accepts the least. Which teams have the best ratio of scored vs accepted

```
In [79]: home=df.groupby("home_team").agg({"home_score":"mean","away_score":"mean"}).reset_index()
home.rename(columns={"home_team":"team","home_score":"home_scored","away_score":"home_accepted"},inplace=True)
away=df.groupby("away_team").agg({"away_score":"mean","home_score":"mean"}).reset_index()
away.rename(columns={"away_team":"team","away_score":"away_scored","home_score":"away_accepted"},inplace=True)

merged=home.merge(away,on="team")

merged["avg_scored"]=(merged.home_scored+merged.away_scored)/2
merged["avg_accepted"]=(merged.home_accepted+merged.away_accepted)/2
merged["ratio"]=(merged.avg_scored/merged.avg_accepted).round(2)
merged=merged[["team","avg_scored","avg_accepted","ratio"]]
```

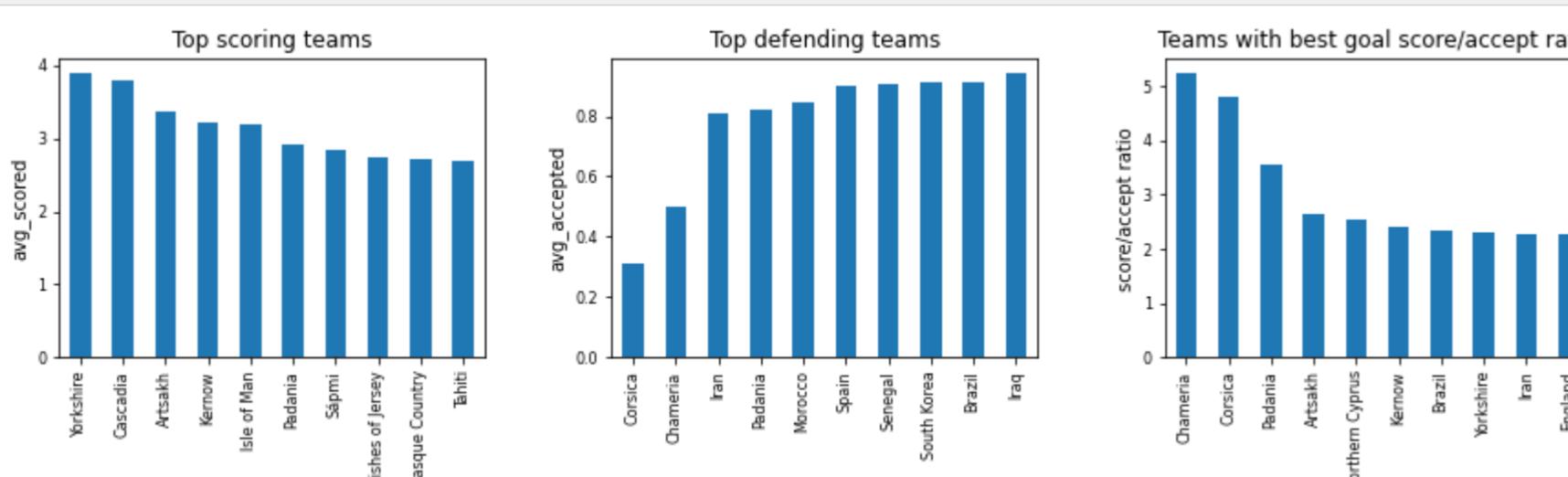
```
In [80]: fig,(ax1,ax2,ax3)=plt.subplots(1,3,figsize=(15,3))

sorted=merged.sort_values("avg_scored",ascending=False).head(10)
sorted.plot(kind="bar",ax=ax1,x="team",y="avg_scored",title="Top scoring teams",legend=False,xlabel="",ylabel="avg_scored",fontsize=8)

sorted=merged.sort_values("avg_accepted",ascending=True).head(10)
sorted.plot(kind="bar",ax=ax2,x="team",y="avg_accepted",title="Top defending teams",legend=False,xlabel="",ylabel="avg_accepted",fontsize=8)

sorted=merged.sort_values("ratio",ascending=False).head(10)
sorted.plot(kind="bar",ax=ax3,x="team",y="ratio",title="Teams with best goal score/accept ratio",legend=False,xlabel="",ylabel="score/accept ratio",fontsize=8)

plt.subplots_adjust(wspace=0.3)
plt.show()
```



5 Matches with the highest goal balance for one team

```
In [101]: df["goal_balance"]=(df.home_score-df.away_score).abs()
df.sort_values("goal_balance", ascending=False)[:5]
```

	date	home_team	away_team	home_score	away_score	tournament	city	country	neutral	penalty_winner	year	goal_balance
23965	2001-04-11	Australia	American Samoa	31	0	FIFA World Cup qualification	Coffs Harbour	Australia	False	NaN	2001	31
8009	1971-09-13	Tahiti	Cook Islands	30	0	South Pacific Games	Papeete	French Polynesia	False	NaN	1971	30
11110	1979-08-30	Fiji	Kiribati	24	0	South Pacific Games	Nausori	Fiji	False	NaN	1979	24
23962	2001-04-09	Australia	Tonga	22	0	FIFA World Cup qualification	Coffs Harbour	Australia	False	NaN	2001	22
27542	2005-03-11	Guam	North Korea	0	21	EAFF Championship	Taipei	Taiwan	True	NaN	2005	21

Which teams have played the most matches against each other

```
In [53]: grouped=df[['home_team', 'away_team']].apply(frozenset, axis=1).value_counts().reset_index()
grouped.columns=["pair_of_teams", "number_of_matches_between"]
grouped
```

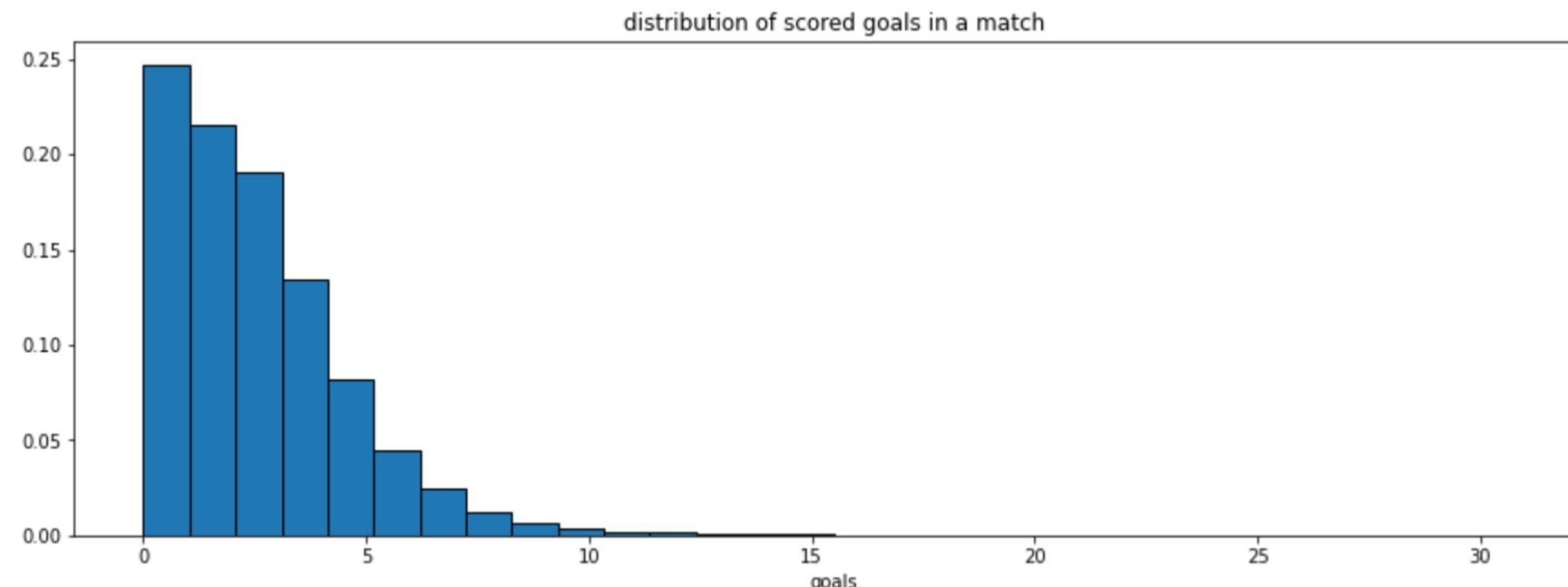
	pair_of_teams	number_of_matches_between
0	(Argentina, Uruguay)	179
1	(Hungary, Austria)	137
2	(Netherlands, Belgium)	125
3	(England, Scotland)	117
4	(Kenya, Uganda)	109
...
6940	(Latvia, Bahrain)	1
6941	(Tajikistan, Kuwait)	1
6942	(Thailand, Germany)	1
6943	(Basque Country, Honduras)	1
6944	(United Arab Emirates, Gambia)	1

6945 rows × 2 columns

Plot distribution of goals per match

```
In [21]: df["goals"]=df.home_score+df.away_score

plt.figure(figsize=(15,5))
plt.hist(df.goals, ec="k", bins=30, density=True)
plt.title("distribution of scored goals in a match")
plt.xlabel("goals")
plt.show()
```



Win percentage of Georgian National Football Team per year vs Ukraine, Armenia, Azerbaijan

```
In [12]: import matplotlib.ticker as mtick
plt.figure(figsize=(15,5))

teams=["Georgia","Armenia","Azerbaijan","Ukraine"]
compiled=pd.DataFrame()

for team in teams:

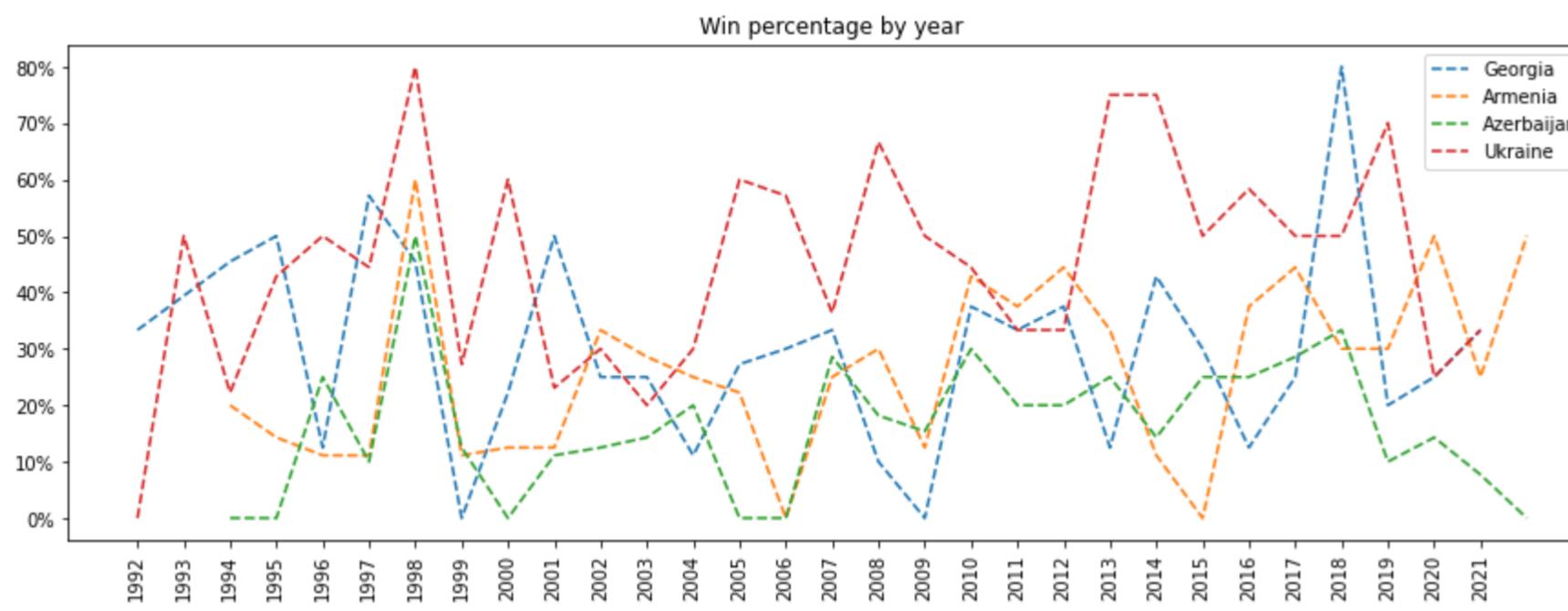
    home_matches=df[df.home_team==team].groupby(["year","home_team"])["home_team"].count().reset_index(name="home_matches")
    home_wins=df[(df.home_score>df.away_score)&(df.home_team==team)].groupby(["year","home_team"])["home_team"].count().reset_index(name="home_wins")

    away_matches=df[df.away_team==team].groupby(["year","away_team"])["away_team"].count().reset_index(name="away_matches")
    away_wins=df[(df.home_score<df.away_score)&(df.away_team==team)].groupby(["year","away_team"])["away_team"].count().reset_index(name="away_wins")

    merged1=home_matches.merge(home_wins,on=["year","home_team"],how="left")
    merged2=away_matches.merge(away_wins,on=["year","away_team"],how="left")
    merged=merged1.merge(merged2, left_on=["year","home_team"],right_on=["year","away_team"])

    merged[["home_matches","away_matches","home_wins","away_wins"]]=merged[["home_matches","away_matches","home_wins","away_wins"]].fillna(0)

    merged["matches"]=merged.home_matches+merged.away_matches
    merged["wins"]=merged.home_wins+merged.away_wins
    merged["win_percentage"]=(merged.wins/merged.matches*100).round(2)
    merged.rename(columns={"home_team":"team"},inplace=True)
    result=merged[["year","team","matches","wins","win_percentage"]]
    plt.plot(result.year,result.win_percentage,ls="--",label=team)
    plt.gca().yaxis.set_major_formatter(mtick.PercentFormatter(100))
    plt.xticks(result.year,rotation=90)
plt.title("Win percentage by year")
plt.legend()
plt.show()
```



which are the most awkward rivals (like Germany and Portugal)

count number of losses of team_one vs team_two

```
In [34]: grouped1=df[df.home_score<df.away_score].groupby(["home_team","away_team"])["home_team"].count().reset_index(name="home_losses")
grouped2=df[df.home_score>df.away_score].groupby(["away_team","home_team"])["away_team"].count().reset_index(name="away_losses")

merged=grouped1.merge(grouped2, left_on=["home_team","away_team"],right_on=["away_team","home_team"])

result=merged[["home_team_x","away_team_x","home_losses","away_losses"]]
result=result.rename(columns={"home_team_x":"loser_team","away_team_x":"winner_team"})

result["losses"]=result.home_losses+result.away_losses
result_loss=result.sort_values(["loser_team","losses"],ascending=[True,False])
#result_loss
```

count number of matches of team_one vs team_two

```
In [38]: grouped1=df.groupby(["home_team","away_team"])["home_team"].count().reset_index(name="home_matches")
grouped2=df.groupby(["away_team","home_team"])["away_team"].count().reset_index(name="away_matches")

merged=grouped1.merge(grouped2, left_on=["home_team","away_team"],right_on=["away_team","home_team"])

result=merged[["home_team_x","away_team_x","home_matches","away_matches"]]
result=result.rename(columns={"home_team_x":"team_one","away_team_x":"team_two"})

result["matches"]=result.home_matches+result.away_matches
result_matches=result.sort_values(["team_one","matches"],ascending=[True,False])
#result_matches
```

Finally merge two tables and find the percentage of losses vs team_two

```
In [41]: final=result_matches.merge(result_loss, left_on=["team_one","team_two"],right_on=["loser_team","winner_team"])
final=final[["loser_team","winner_team","matches","losses"]]
final["loss_percentage"]=(final.losses/final.matches*100).round()
final=final.sort_values(["loser_team","loss_percentage"],ascending=[True,False])
final
#final[final.Losser_team=="Georgia"]
```

Out[41]:

	loser_team	winner_team	matches	losses	loss_percentage
6	Afghanistan	Syria	4	4	100.0
7	Afghanistan	Oman	3	3	100.0
9	Afghanistan	Japan	2	2	100.0
3	Afghanistan	Tajikistan	6	5	83.0
4	Afghanistan	Qatar	5	4	80.0
...
4152	Zimbabwe	Malawi	62	17	27.0
4158	Zimbabwe	Mauritius	13	3	23.0
4155	Zimbabwe	Botswana	18	4	22.0
4168	Aland Islands	Jersey	6	6	100.0
4169	Aland Islands	Isle of Man	4	2	50.0

4170 rows × 5 columns

In []:

