

# nba\_\_draft\_\_plot

July 22, 2021

The goal of this notebook is to recreate a plot i did in R. This is about the NBA teams with the most picks from 2010-2020

## 0.1 Data Wrangling

```
[7]: # environment info
import os
os.getcwd() # get the wd
os.chdir("./Data_Scientist_Path/Datasets/nba_dataset/") # change wd
```

```
[7]: '/Users/mamba/Downloads/Data_Scientist_Path/Datasets/nba_dataset'
```

```
[8]: # libraries loading
import pandas as pd
import numpy as np
import plotly.express as px
```

```
[15]: # we import the data
nba = pd.read_csv('draft_history.csv')
nba.head()
nba.dtypes
```

```
[15]: yearDraft          int64
numberPickOverall      int64
numberRound            int64
numberRoundPick        int64
namePlayer             object
slugTeam               object
nameOrganizationFrom    object
typeOrganizationFrom    object
idPlayer               int64
idTeam                 int64
nameTeam               object
cityTeam               object
teamName               object
PLAYER_PROFILE_FLAG     int64
slugOrganizationTypeFrom object
locationOrganizationFrom object
```

dtype: object

```
[48]: # convert slugTeam variable to factor
nba["slugTeam"] = pd.Categorical(nba["slugTeam"])

# filter out years before 2010
#nba["yearDraft"]

test = nba[(nba['yearDraft'] >= 2010) & (nba['numberRound'] == 1) &
↳ (nba['numberRoundPick'] <= 14)]

test = test.groupby(['slugTeam'])['slugTeam'].agg(['count'])

# remove teams with 0 pick, sort by descending order and pick the 10 1st teams
#test = test[(test['count'] > 0)] # this step is optional since i only pick the
↳ first ten
test = test.sort_values('count', ascending = False)
test = test.head(n = 10)

# use the index as a column
test.reset_index(level=0, inplace=True)
```

```
[48]: slugTeam
SAC      11
PHX      11
MIN       9
CHA       9
CLE       8
PHI       8
UTA       7
DET       7
ORL       6
WAS       6
Name: count, dtype: int64
```

## 0.2 Visualization

```
[56]: fig = px.bar(test, x='slugTeam', y='count', text = 'count')
fig.update_traces(texttemplate='%{text:.2s}', textposition='outside')
fig.update_layout(uniformtext_minsize=8, uniformtext_mode='hide')
fig.show()
```

```
[53]: import plotly.graph_objects as go
#x = ['Product A', 'Product B', 'Product C']
#y = [20, 14, 23]

# Use textposition='auto' for direct text
```

```
fig = go.Figure(data=[go.Bar(
    x=test['slugTeam'], y=test['count'],
    text=test['count'],
    textposition='auto',
)])

fig.show()
```

[ ]: