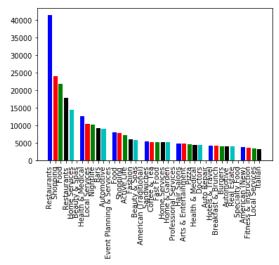
21/04/2019 YelpVisualization

```
In [2]: import pandas as pd
import numpy as np
from subprocess import check_output
from operator import itemgetter
import matplotlib as mpl
%matplotlib inline
from itertools import cycle, islice
import matplotlib.pyplot as plt
```

### Top 40 categories in the business

```
In [3]: from itertools import cycle, islice
           Categories={}
           business=pd.read_csv("business.csv")
           #get count for all the categories in the business
           for _categories in business.categories:
                 all_categories=str(_categories).split(",")
                 for cat in all_categories:
                      if cat not in Categories:
                           Categories[cat]=1
                      else:
                            Categories[cat]+=1
           All_categories=list(Categories.keys())
           Cat_list=[[x,Categories[x]] for x in All_categories]
           #Sort the category list in descedning order
Cat_list=sorted(Cat_list, key=lambda x: x[1], reverse=True)
           Cat_list=Cat_list[:40]
           my_colors = list(islice(cycle(['b', 'r', 'g', 'k','c','w']), None, len(Cat_list)))
plt.bar(range(len(Cat_list)),[x[1] for x in Cat_list], align="center",color=my_colors)
plt.xticks(range(len(Cat_list)), [x[0] for x in Cat_list], rotation="vertical")
           plt.show()
```

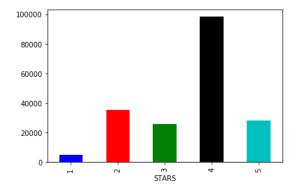


#### Count of stars for all businesses

```
In [4]: from itertools import cycle, islice
    stars=[]
    for i,x in business.iterrows():
        stars.append(int(round(x["stars"])))

stars=pd.DataFrame(stars)
    stars.columns=["STARS"]
    my_colors = list(islice(cycle(['b', 'r', 'g', 'k','c','w']), None, len(stars)))
    stars["STARS"].groupby(stars["STARS"]).count().plot(kind="bar", sort_columns=True,color=my_colors)
```

Out[4]: <matplotlib.axes.\_subplots.AxesSubplot at 0x1dcfe8628d0>

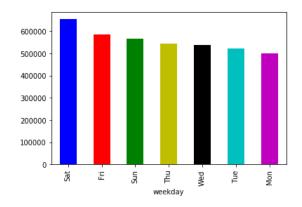


## Most common day for a checkin

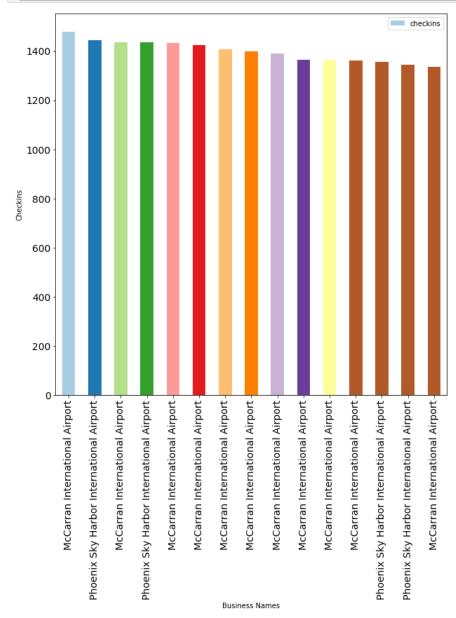
```
In [5]: from itertools import cycle, islice
    checkins=pd.read_csv("checkin.csv")
    my_colors = list(islice(cycle(['b', 'r', 'g', 'y', 'k','c','m']), None, len(checkins)))

    checkins.weekday.groupby(checkins.weekday).count().sort_values()[::-1].plot(kind="bar",color=my_colors)
```

Out[5]: <matplotlib.axes.\_subplots.AxesSubplot at 0x1dc9a6f0128>



# Business with most number of checkins on yelp



## Number of reviews according to stars

```
In [126]: for i,x in review.iterrows():
    stars.append(int(round(x["stars"])))

stars=pd.DataFrame(stars)
stars.columns=["STARS"]
my_colors = list(islice(cycle(['b', 'r', 'g', 'k','c','w']), None, len(stars)))
stars["STARS"].groupby(stars["STARS"]).count().plot(kind="bar", sort_columns=True,color=my_colors)
```

Out[126]: <matplotlib.axes.\_subplots.AxesSubplot at 0x1aeef3e7b8>

