Aligulac Player Data

- Aligulac is a popular Starcraft 2 website containing player and match data
- Primarily using Aligulac's data base to help identify professional SC2 players, their country of origin, and in-game race of choice

In [1]:
```
# Imports
import requests
import pandas as pd
import json
import pickle
from api_keys import aligulac_key
```

Pulling Player Stats

- As of the end of October 2021, the date of Stay At Homestory Cup # 4
- Only pulling highest 1000 rated players

In [2]:
```
data = requests.get(r"""http://aligulac.com/api/v1/activerating/?period=305&order_by=-rating&limit=1000""",
                    params={'apikey':aligulac_key})
```

In [3]:
```
# Looping through response to pull out player data
players = []
for player in data.json()['objects']:
    players.append(player['player'])
players[:5]
```

Out[3]:
```
[{'country': 'FI',
  'id': 485,
  'race': 'Z',
  'resource_uri': '/api/v1/player/485/',
  'tag': 'Serral'},
 {'country': 'KR',
  'id': 49,
  'race': 'T',
  'resource_uri': '/api/v1/player/49/',
  'tag': 'Maru'},
 {'country': 'FR',
  'id': 5878,
  'race': 'T',
  'resource_uri': '/api/v1/player/5878/',
  'tag': 'Clem'},
 {'country': 'IT',
  'id': 5414,
  'race': 'Z',
  'resource_uri': '/api/v1/player/5414/',
  'tag': 'Reynor'},
 {'country': 'KR',
  'id': 76,
  'race': 'Z',
  'resource_uri': '/api/v1/player/76/',
  'tag': 'Dark'}]
```

In [4]:
```
# Converting to DF
players_df = pd.DataFrame(players)
```

In [5]:
```
players_df.head()
```

Out[5]:

	country	id	race	resource_uri	tag
0	FI	485	Z	/api/v1/player/485/	Serral
1	KR	49	T	/api/v1/player/49/	Maru
2	FR	5878	T	/api/v1/player/5878/	Clem
3	IT	5414	Z	/api/v1/player/5414/	Reynor
4	KR	76	Z	/api/v1/player/76/	Dark

Cleaning a bit of player data

In [6]:
```
# Adding Florencio
florencio = {'country':'US','id':99999,'race':'P','resource_uri':'NA','tag':'florencio'}
players_df = players_df.append(florencio,ignore_index=True)
```

In [7]:
```
# Changing DongRaeGu to DRG
players_df.loc[17,'tag'] = "drg"
```

In [8]:
```
players_df.loc[players_df['tag']=="drg"]
```

Out[8]:

	country	id	race	resource_uri	tag
17	KR	4	Z	/api/v1/player/4/	drg

In [9]:
```
# Updating Rattata to Vanya
players_df.loc[30,'tag'] = "vanya"
```

In [10]:
```
# Adding KR players currently in active military service
innovation = {'country':'KR','id':99999,'race':'T','resource_uri':'KR','tag':'innovation'}
stats = {'country':'KR','id':99999,'race':'P','resource_uri':'KR','tag':'stats'}
sos = {'country':'KR','id':99999,'race':'P','resource_uri':'KR','tag':'sos'}
ty = {'country':'KR','id':99999,'race':'T','resource_uri':'KR','tag':'ty'}
soo = {'country':'KR','id':99999,'race':'Z','resource_uri':'KR','tag':'soo'}
polt = {'country':'KR','id':99999,'race':'T','resource_uri':'KR','tag':'polt'}
```

Saving results into pickle

In [12]:
```
with open(r'Data/players_df.pickle', 'wb') as f:
    pickle.dump(players_df, f)
```