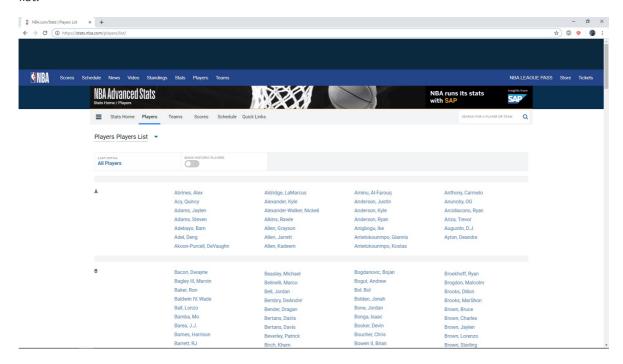
NBA projects introduction

<u>NBA</u> is popular site when you want to to find information about men's professional basketball league in North America. In this chapter we will do 4 difference missions to scraping data on this site.

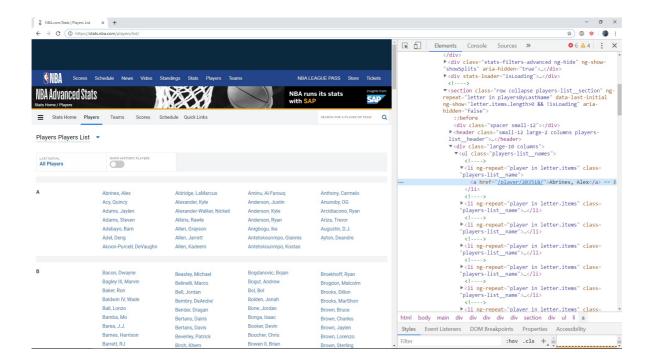
- scrape name of all players
- scrape name and detail link of all players
- scrape detail information of all players
- scrape image of all players

Mission 1: scrape name of all active player

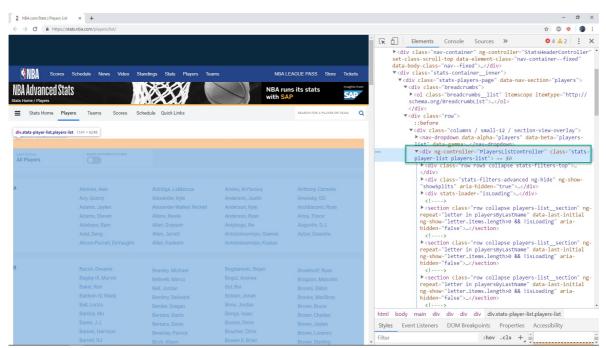
Let access url https://stats.nba.com/players/list/, you will see full list of player order in alphabet list.



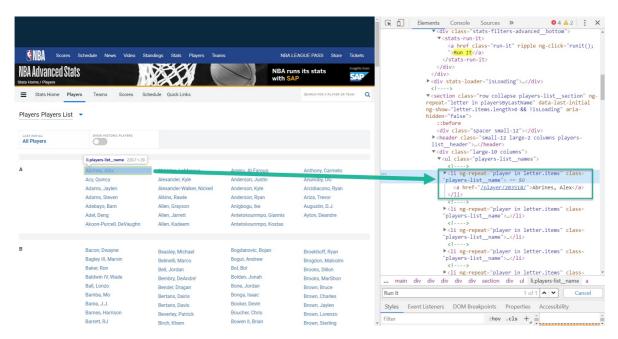
Right click and select 'Inspect' you will open chrome developer tool panel



Now move the mouse around and find the tag which contain all names inside it. You will find out that is div tag with class name is stats-player-list



Now mouse over one name and inspect, you will see that it inside 1i tag with class players-list_name



So after inspection we have following strategy to scrape all name.

- search for div tag with class is stats-player-list
- search all li tags with class players-list_name inside above div tag
- scrape text inside each li tag above

Now let really do it

```
from selenium import webdriver
from bs4 import BeautifulSoup

driver =
webdriver.Chrome(executable_path=r'C:\chromedriver_win32\chromedriver.exe')

url = 'https://stats.nba.com/players/list/'
driver.get(url)

soup = BeautifulSoup(driver.page_source, 'lxml')
div = soup.find('div', class_= 'stats-player-list')

for a in div.find_all('a'):
    print(a.text)

driver.quit()
```

And at out put you will have 638 players

```
Abrines, Alex
Acy, Quincy
Adams, Jaylen
Adams, Steven
Adebayo, Bam
Adel, Deng
Akoon-Purcell, DeVaughn
Aldridge, LaMarcus
Alexander, Kyle
...
```

Mission 2 : scrape name and detail link of all active player (try it your self)

In this mission we scrape name and correspond link to detail information of that player.

Final result should look like

```
Abrines, Alex
/player/203518/

Acy, Quincy
/player/203112/

Adams, Jaylen
/player/1629121/
```

Mission 3: scrape detail information for each player (try it your self)

When click to detail link, you will know player detail information



In this mission, we will need to scrape detail data for each player like: name, PTS, REB, AST, PIE

The result should be

```
name : Abrines, Alex
link : https://stats.gleague.nba.com/player/203518/
pts : 0.0
reb : 0.0
ast : 0.0
pie : 0.0

name : Acy, Quincy
link : https://stats.gleague.nba.com/player/203112/
pts : 21.7
reb : 8.0
ast : 1.3
pie : 12.0
```

Mission 4 : scrape image for all players (try it your self)

Now we want to get image for each player



Result should as following video