

UFC Prediction -- Scraping Notebook

This notebook includes all the code used to scrape the data from various websites for the UFC Prediction project.

Because I had to connect events over multiple websites, I started in excel. The beginning of this workbook starts with this csv. This csv included event titles, ufcsts.com event urls, and bestfightodds.com event urls for the corresponding events.

Scraping BestFightOdds.com

In [1]:

```
# Load Packages
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline
import matplotlib.ticker as mtick
import seaborn as sns
from matplotlib.pyplot import figure
from bs4 import BeautifulSoup
import time
import requests
import shutil
import datetime
from scipy.stats import norm
import xgboost
from xgboost import XGBClassifier
from random import randint
import random
import os
os.chdir('C:/Users/Travis/OneDrive/Data Science/Personal_Projects/Sports/UFC_Prediction_V
2')
from selenium import webdriver
from selenium.webdriver.common.keys import Keys
from bs4 import BeautifulSoup
from selenium.webdriver.common.by import By
from selenium.webdriver.support.ui import WebDriverWait
from selenium.webdriver.support import expected_conditions as EC
import warnings
warnings.filterwarnings('ignore')
from random import randint
from cmath import nan
import urllib
import urllib.request
import re
import time
```

```
c:\Users\Travis\anaconda3\envs\Trav310\lib\site-packages\xgboost\compat.py:36: FutureWarn
ing: pandas.Int64Index is deprecated and will be removed from pandas in a future version.
Use pandas.Index with the appropriate dtype instead.
  from pandas import MultiIndex, Int64Index
```

Load Excel-fixed CSV

This contains the URLS necessary to scrape from multiple websites.

In [2]:

```
fight_odds_urls = pd.read_csv('data/final/events/Final_Hand_Done_BFO_Urls_with UFC_Stats_
Urls.csv')
```

```
print(fight_odds_urls.shape)
fight_odds_urls.head(3)

(508, 7)

Out[2]:
```

	event_title	event_url	event_odds_url	Short_title	Short_Title_2 (vs. to vs)	Name1
0	UFC Fight Night: Thompson vs. Holland	http://ufcstats.com/event-details/b23388ff8ac6...	https://www.bestfightodds.com/events/ufc-fight...	Thompson vs. Holland	Thompson vs Holland	thompson
1	UFC Fight Night: Nzechukwu vs. Cutelaba	http://ufcstats.com/event-details/012fc7cd0779...	https://www.bestfightodds.com/events/ufc-fight...	Nzechukwu vs. Cutelaba	Nzechukwu vs Cutelaba	nzechukwu c
2	UFC 281: Adesanya vs. Pereira	http://ufcstats.com/event-details/b3b6e80b7d5f...	https://www.bestfightodds.com/events/ufc-281-2529	Adesanya vs. Pereira	Adesanya vs Pereira	adesanya

```
In [3]:

# get all event urls from the fight_odds_urls dataframe
event_urls = fight_odds_urls['event_url'].unique()
print(f' {len(event_urls)} events')

508 events
```

Scraping BFO via Requests & Headers

You can only scrape bestfightodds if you add in a browser heading.

For example:

```
In [4]:

url = 'https://www.bestfightodds.com/events/ufc-282-2621'
header = {
    "User-Agent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/50.0.2661.75 Safari/537.36",
    "X-Requested-With": "XMLHttpRequest"
}
r = requests.get(url, headers = header)
dfs = pd.read_html(r.text)
dfs[0]
```

Out[4]:

Jan Brachowicz	
0	Magomed Ankalaev
1	Over 1½ rounds
2	Under 1½ rounds
3	Over 2½ rounds
4	Under 2½ rounds
...	...
1725	Under 7½ fights go the distance
1726	Over 8½ fights go the distance
1727	Under 8½ fights go the distance

1728 Over 9½ fights go the distance

1729 Under 9½ fights go the distance

1730 rows x 1 columns

Scrapping BFO Data

In [5]:

```
all_event_odds_urls = fight_odds_urls.event_odds_url.unique()
len(all_event_odds_urls)
```

Out[5]:

489

In [6]:

```
len('https://www.bestfightodds.com/events/')
```

Out[6]:

37

In [7]:

```
def get_odds(url):
    # you can scrape by pretending to be a browser
    header = {
        "User-Agent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/50.0.2661.75 Safari/537.36",
        "X-Requested-With": "XMLHttpRequest"
    }
    r = requests.get(url, headers = header)
    dfs = pd.read_html(r.text)
    data = dfs[1]
    data.rename(columns={'Unnamed: 0': 'fighter'}, inplace=True)
    data['event_odds_url'] = url
    event_name = url.split('/')[4]
    data['event_id'] = event_name
    data.to_csv('data/final/events/odds_per_event/' + event_name + '.csv', index=False)

    return data
```

In [8]:

```
get_odds(all_event_odds_urls[0]).head(2)
```

Out[8]:

	fighter	DraftKings	BetMGM	Caesars	BetRivers	FanDuel	PointsBet	Unibet	Bet365	BetWay	5D	Ref	Props	Pi
0	Kevin Holland	-170▲	-185▼	-195▼	-200▼	-166▼	NaN	-200▼	-175▲	-188▲	NaN	-200▼	NaN	
1	Stephen Thompson	+145▼	+150▲	+165▲	+160▲	+140▲	NaN	+160▲	+150▼	+150▼	NaN	+170▲	NaN	

In [9]:

```
# drop nan
all_event_odds_urls = all_event_odds_urls[~pd.isnull(all_event_odds_urls)]
```

Out[9]:

```

array(['https://www.bestfightodds.com/events/ufc-fight-night-214-2607',
      'https://www.bestfightodds.com/events/ufc-fight-night-215-2633',
      'https://www.bestfightodds.com/events/ufc-281-2529',
      'https://www.bestfightodds.com/events/ufc-fight-night-214ting-championship-2612',
      'https://www.bestfightodds.com/events/ufc-fight-night-213-2606',
      'https://www.bestfightodds.com/events/ufc-281-2586',
      'https://www.bestfightodds.com/events/ufc-fight-night-212-2579',
      'https://www.bestfightodds.com/events/ufc-vegas-57-2489',
      'https://www.bestfightodds.com/events/ufc-fight-night-211-2569',
      'https://www.bestfightodds.com/events/ufc-279-2541',
      'https://www.bestfightodds.com/events/ufc-fight-night-gane-vs-tuivasa-2518',
      'https://www.bestfightodds.com/events/ufc-278-usman-vs-edwards-2-2545',
      'https://www.bestfightodds.com/events/ufc-fight-night-vera-vs-cruz-2552',
      'https://www.bestfightodds.com/events/ufc-on-espn-santos-vs-hill-2534',
      'https://www.bestfightodds.com/events/ufc-277-pena-vs-nunes-2-2517',
      'https://www.bestfightodds.com/events/ufc-fight-night-blaydes-vs-aspinall-2519',
      'https://www.bestfightodds.com/events/ufc-on-abc-ortega-vs-rodriguez-2524',
      'https://www.bestfightodds.com/events/ufc-on-espn-dos-anjos-vs-fiziev-2501',
      'https://www.bestfightodds.com/events/ufc-276-adesanya-vs-cannonier-2478',
      'https://www.bestfightodds.com/events/ufc-on-espn-tsarukyan-vs-gamrot-2574',
      'https://www.bestfightodds.com/events/ufc-fight-night-kattar-vs-emmett-2523',
      'https://www.bestfightodds.com/events/ufc-275-teixeira-vs-prochazka-2561',
      'https://www.bestfightodds.com/events/ufc-fight-night-211-2441',
      'https://www.bestfightodds.com/events/ufc-fight-night-2010-2428',
      'https://www.bestfightodds.com/events/ufc-fight-night-208-2418',
      'https://www.bestfightodds.com/events/ufc-274-oliveira-vs-gaethje-2422',
      'https://www.bestfightodds.com/events/ufc-fight-night-font-vs-vera-2474',
      'https://www.bestfightodds.com/events/ufc-fight-night-lemos-vs-andrade-2435',
      'https://www.bestfightodds.com/events/ufc-fight-night-ufc-fight-night-206-2412',
      'https://www.bestfightodds.com/events/ufc-273-2411',
      'https://www.bestfightodds.com/events/ufc-fight-night-207-2391',
      'https://www.bestfightodds.com/events/ufc-fight-night-205-2376',
      'https://www.bestfightodds.com/events/ufc-2414',
      'https://www.bestfightodds.com/events/ufc-fight-night-204-2380',
      'https://www.bestfightodds.com/events/ufc-fight-night-203-2343',
      'https://www.bestfightodds.com/events/ufc-2413',
      'https://www.bestfightodds.com/events/ufc-271-2338',
      'https://www.bestfightodds.com/events/ufc-vegas-47-2430',
      'https://www.bestfightodds.com/events/ufc-270-2322',
      'https://www.bestfightodds.com/events/ufc-fight-night-lewis-vs-daukaus-2286',
      'https://www.bestfightodds.com/events/ufc-269-2279',
      'https://www.bestfightodds.com/events/ufc-fight-night-font-vs-aldo-2259',
      'https://www.bestfightodds.com/events/ufc-fight-night-vieira-vs-tate-2237',
      'https://www.bestfightodds.com/events/ufc-fight-night-holloway-vs-rodriguez-2224',
      'https://www.bestfightodds.com/events/ufc-268-usman-vs-covington-2-2246',
      'https://www.bestfightodds.com/events/ufc-267-brachowicz-vs-teixeira-2217',
      'https://www.bestfightodds.com/events/ufc-fight-night-costa-vs-vettori-2203',
      'https://www.bestfightodds.com/events/ufc-fight-night-ladd-vs-dumont-2178',
      'https://www.bestfightodds.com/events/ufc-fight-night-dern-vs-rodriguez-2173',
      'https://www.bestfightodds.com/events/ufc-fight-night-santos-vs-walker-2167',
      'https://www.bestfightodds.com/events/ufc-266-volkanovski-vs-ortega-2177',
      'https://www.bestfightodds.com/events/ufc-fight-night-smith-vs-spann-2171',
      'https://www.bestfightodds.com/events/ufc-fight-night-191-2213',
      'https://www.bestfightodds.com/events/ufc-on-espn-barboza-vs-chikadze-2251',
      'https://www.bestfightodds.com/events/ufc-on-espn-cannonier-vs-gastelum-2166',
      'https://www.bestfightodds.com/events/ufc-265-lewis-vs-gane-2142',
      'https://www.bestfightodds.com/events/ufc-on-espn-hall-vs-strickland-2165',
      'https://www.bestfightodds.com/events/ufc-on-espn-sandhagen-vs-dillashaw-2137',
      'https://www.bestfightodds.com/events/ufc-on-espn-makhachev-vs-moisese-2139',
      'https://www.bestfightodds.com/events/ufc-264-poirier-vs-mcgregor-3-2127',
      'https://www.bestfightodds.com/events/ufc-fight-night-190-gane-vs-volkov-2109',
      'https://www.bestfightodds.com/events/ufc-on-espn-the-korean-zombie-vs-ige-2130',
      'https://www.bestfightodds.com/events/ufc-263-adesanya-vs-vettori-2-2115',
      'https://www.bestfightodds.com/events/ufc-fight-night-189-rozenstruik-vs-sakai-210
      'https://www.bestfightodds.com/events/ufc-fight-night-188-font-vs-garbrandt-2085',
      'https://www.bestfightodds.com/events/ufc-262-oliveira-vs-chandler-2086',
      'https://www.bestfightodds.com/events/ufc-on-espn-24-rodriguez-vs-watson-2075',
      'https://www.bestfightodds.com/events/ufc-on-espn-23-reyes-vs-prochazka-2074']

```

<https://www.bestfightodds.com/events/ufc-on-espn-23-reyes-vs-prochazka-2074>,
'<https://www.bestfightodds.com/events/ufc-261-usman-vs-masvidal-2-2087>',
'<https://www.bestfightodds.com/events/ufc-on-espn-22-whittaker-vs-gastelum-2062>',
'<https://www.bestfightodds.com/events/ufc-on-abc-2-vettori-vs-holland-2061>',
'<https://www.bestfightodds.com/events/ufc-260-miocic-vs-ngannou-2-2055>',
'<https://www.bestfightodds.com/events/ufc-on-espn-21-brunson-vs-holland-2053>',
'<https://www.bestfightodds.com/events/ufc-fight-night-187-edwards-vs-muhammad-2048>',
'<https://www.bestfightodds.com/events/ufc-259-blachowicz-vs-adesanya-2038>',
'<https://www.bestfightodds.com/events/ufc-fight-night-186-rozenstruik-vs-gane-2039>',
'<https://www.bestfightodds.com/events/ufc-fight-night-185-blaydes-vs-lewis-2035>',
'<https://www.bestfightodds.com/events/ufc-258-usman-vs-burns-2033>',
'<https://www.bestfightodds.com/events/ufc-fight-night-184-overeem-vs-volkov-2029>',
'<https://www.bestfightodds.com/events/ufc-257-poirier-vs-mcgregor-2-2016>',
'<https://www.bestfightodds.com/events/ufc-on-espn-20-chiesa-vs-magny-2044>',
'<https://www.bestfightodds.com/events/ufc-on-abc-1-holloway-vs-kattar-2009>',
'<https://www.bestfightodds.com/events/ufc-fight-night-183-thompson-vs-neal-2000>',
'<https://www.bestfightodds.com/events/ufc-256-figueiredo-vs-moreno-1983>',
'<https://www.bestfightodds.com/events/ufc-on-espn-19-hermansson-vs-vettori-1982>',
'<https://www.bestfightodds.com/events/ufc-on-espn-18-smith-vs-clark-1979>',
'<https://www.bestfightodds.com/events/ufc-255-figueiredo-vs-perez-1967>',
'<https://www.bestfightodds.com/events/ufc-fight-night-182-felder-vs-dos-anjos-1981>',
'<https://www.bestfightodds.com/events/ufc-on-espn-40-santos-vs-teixeira-1974>',
'<https://www.bestfightodds.com/events/ufc-on-espn-39-hall-vs-silva-1973>',
'<https://www.bestfightodds.com/events/ufc-254-khabib-vs-gaethje-1958>',
'<https://www.bestfightodds.com/events/ufc-on-espn-38-ortega-vs-the-korean-zombie-1971>',
'<https://www.bestfightodds.com/events/ufc-on-espn-37-moraes-vs-sandhagen-1965>',
'<https://www.bestfightodds.com/events/ufc-on-espn-16-holm-vs-aldana-1970>',
'<https://www.bestfightodds.com/events/ufc-253-adesanya-vs-costa-1952>',
'<https://www.bestfightodds.com/events/ufc-on-espn-36-covington-vs-woodley-1944>',
'<https://www.bestfightodds.com/events/ufc-on-espn-35-watson-vs-hill-1945>',
'<https://www.bestfightodds.com/events/ufc-on-espn-34-overeem-vs-sakai-1953>',
'<https://www.bestfightodds.com/events/ufc-on-espn-33-smith-vs-rakic-1932>',
'<https://www.bestfightodds.com/events/ufc-on-espn-15-munhoz-vs-edgar-1931>',
'<https://www.bestfightodds.com/events/ufc-252-miocic-vs-cormier-3-1919>',
'<https://www.bestfightodds.com/events/ufc-on-espn-32-lewis-vs-oleinik-1885>',
'<https://www.bestfightodds.com/events/ufc-on-espn-31-brunson-vs-shahbazyan-1918>',
'<https://www.bestfightodds.com/events/ufc-on-espn-14-whittaker-vs-till-1903>',
'<https://www.bestfightodds.com/events/ufc-on-espn-30-figueiredo-vs-benavidez-2-1913>',
'<https://www.bestfightodds.com/events/ufc-on-espn-13-kattar-vs-ige-1917>',
'<https://www.bestfightodds.com/events/ufc-251-usman-vs-masvidal-1890>',
'<https://www.bestfightodds.com/events/ufc-on-espn-12-poirier-vs-hooker-1895>',
'<https://www.bestfightodds.com/events/ufc-on-espn-11-blaydes-vs-volkov-1897>',
'<https://www.bestfightodds.com/events/ufc-on-espn-10-eye-vs-calvillo-1898>',
'<https://www.bestfightodds.com/events/ufc-250-nunes-vs-spencer-1909>',
'<https://www.bestfightodds.com/events/ufc-on-espn-9-woodley-vs-burns-1910>',
'<https://www.bestfightodds.com/events/ufc-on-espn-8-overeem-vs-harris-1908>',
'<https://www.bestfightodds.com/events/ufc-on-espn-29-smith-vs-teixeira-1876>',
'<https://www.bestfightodds.com/events/ufc-249-ferguson-vs-gaethje-1875>',
'<https://www.bestfightodds.com/events/ufc-on-espn-28-lee-vs-oliveira-1847>',
'<https://www.bestfightodds.com/events/ufc-248-adesanya-vs-romero-1849>',
'<https://www.bestfightodds.com/events/ufc-on-espn-27-benavidez-vs-figueiredo-1862>',
'<https://www.bestfightodds.com/events/ufc-on-espn-26-felder-vs-hooker-1846>',
'<https://www.bestfightodds.com/events/ufc-on-espn-25-anderson-vs-blachowicz-2-1848>',
'<https://www.bestfightodds.com/events/ufc-247-jones-vs-reyes-1837>',
'<https://www.bestfightodds.com/events/ufc-on-espn-24-blaydes-vs-dos-santos-1841>',
'<https://www.bestfightodds.com/events/ufc-246-mcgregor-vs-cowboy-1839>',
'<https://www.bestfightodds.com/events/ufc-on-espn-23-edgar-vs-the-korean-zombie-1803>',
'<https://www.bestfightodds.com/events/ufc-245-usman-vs-covington-1787>',
'<https://www.bestfightodds.com/events/ufc-on-espn-7-overeem-vs-rozenstruik-1785>',
'<https://www.bestfightodds.com/events/ufc-on-espn-22-blachowicz-vs-jacare-1755>',
'<https://www.bestfightodds.com/events/ufc-on-espn-21-zabit-vs-kattar-1795>',
'<https://www.bestfightodds.com/events/ufc-244-masvidal-vs-diaz-1771>',
'<https://www.bestfightodds.com/events/ufc-on-espn-20-maia-vs-askren-1793>',
'<https://www.bestfightodds.com/events/ufc-on-espn-6-reyes-vs-weidman-1764>',
'<https://www.bestfightodds.com/events/ufc-on-espn-19-ianna-vs-watson-1751>'

'https://www.bestfightodds.com/events/ufc-on-espn-15-joanna-vs-watson-1751',
'https://www.bestfightodds.com/events/ufc-243-whittaker-vs-adesanya-1752',
'https://www.bestfightodds.com/events/ufc-on-espn-18-hermansson-vs-cannonier-1747',
'https://www.bestfightodds.com/events/ufc-on-espn-17-rodriiguez-vs-stephens-1753',
'https://www.bestfightodds.com/events/ufc-on-espn-16-cowboy-vs-gaethje-1735',
'https://www.bestfightodds.com/events/ufc-242-khabib-vs-poirier-1715',
'https://www.bestfightodds.com/events/ufc-on-espn-15-andrade-vs-zhang-1733',
'https://www.bestfightodds.com/events/ufc-241-cormier-vs-miocic-2-1709',
'https://www.bestfightodds.com/events/ufc-on-espn-14-shevchenko-vs-carmouche-2-1724',
'https://www.bestfightodds.com/events/ufc-on-espn-5-covington-vs-lawler-1734',
'https://www.bestfightodds.com/events/ufc-240-holloway-vs-edgar-1713',
'https://www.bestfightodds.com/events/ufc-on-espn-4-dos-anjos-vs-edwards-1717',
'https://www.bestfightodds.com/events/ufc-on-espn-13-de-randamie-vs-ladd-1714',
'https://www.bestfightodds.com/events/ufc-239-jones-vs-santos-1686',
'https://www.bestfightodds.com/events/ufc-on-espn-3-ngannou-vs-dos-santos-1687',
'https://www.bestfightodds.com/events/ufc-on-espn-12-moicano-vs-the-korean-zombie-1680',
'https://www.bestfightodds.com/events/ufc-238-cejudo-vs-moraes-1677',
'https://www.bestfightodds.com/events/ufc-on-espn-11-gustafsson-vs-smith-1676',
'https://www.bestfightodds.com/events/ufc-on-espn-10-dos-anjos-vs-lee-1674',
'https://www.bestfightodds.com/events/ufc-237-namajunas-vs-andrade-1647',
'https://www.bestfightodds.com/events/ufc-on-espn-9-iaquinta-vs-cowboy-1672',
'https://www.bestfightodds.com/events/ufc-on-espn-8-jacare-vs-hermansson-1657',
'https://www.bestfightodds.com/events/ufc-on-espn-7-overeem-vs-oleinik-1673',
'https://www.bestfightodds.com/events/ufc-236-holloway-vs-poirier-2-1666',
'https://www.bestfightodds.com/events/ufc-on-espn-2-barboza-vs-gaethje-1648',
'https://www.bestfightodds.com/events/ufc-on-espn-6-thompson-vs-pettis-1654',
'https://www.bestfightodds.com/events/ufc-on-espn-5-till-vs-masvidal-1626',
'https://www.bestfightodds.com/events/ufc-on-espn-4-lewis-vs-dos-santos-1639',
'https://www.bestfightodds.com/events/ufc-235-jones-vs-smith-1625',
'https://www.bestfightodds.com/events/ufc-on-espn-3-blachowicz-vs-santos-1638',
'https://www.bestfightodds.com/events/ufc-on-espn-1-ngannou-vs-velasquez-1637',
'https://www.bestfightodds.com/events/ufc-234-adesanya-vs-silva-1620',
'https://www.bestfightodds.com/events/ufc-on-espn-2-assuncao-vs-moraes-2-1628',
'https://www.bestfightodds.com/events/ufc-on-espn-1-cejudo-vs-dillashaw-1623',
'https://www.bestfightodds.com/events/ufc-232-jones-vs-gustafsson-2-1583',
'https://www.bestfightodds.com/events/ufc-on-fox-31-lee-vs-iaquinta-2-1587',
'https://www.bestfightodds.com/events/ufc-231-holloway-vs-ortega-1584',
'https://www.bestfightodds.com/events/ufc-fight-night-142-dos-santos-vs-tuivasa-1574',
'https://www.bestfightodds.com/events/ufc-fight-night-141-blaydes-vs-ngannou-2-1579',
'https://www.bestfightodds.com/events/ufc-fight-night-140-magny-vs-ponzinibbio-1578',
'https://www.bestfightodds.com/events/ufc-fight-night-139-korean-zombie-vs-rodriguez-1559',
'https://www.bestfightodds.com/events/ufc-230-cormier-vs-lewis-1562',
'https://www.bestfightodds.com/events/ufc-fight-night-138-volkan-vs-smith-1564',
'https://www.bestfightodds.com/events/ufc-229-nurmagomedov-vs-mcgregor-1566',
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'<https://www.bestfightodds.com/events/ufc-146-dos-santos-vs-mir-502>',
'[9',](https://www.bestfightodds.com/events/ufc-on-fuel-tv-3-korean-zombie-vs-poirier-49</p></div><div data-bbox=)

'<https://www.bestfightodds.com/events/ufc-on-fox-3-diaz-vs-miller-496>',
'<https://www.bestfightodds.com/events/ufc-145-jones-vs-evans-490>',
'<https://www.bestfightodds.com/events/ufc-on-fuel-tv-2-gustafsson-vs-silva-493>',
'<https://www.bestfightodds.com/events/ufc-on-fx-2-alves-vs-kampmann-487>',
'<https://www.bestfightodds.com/events/ufc-on-fuel-tv-1-ellenberger-vs-sanchez-485>'

'<https://www.bestfightodds.com/events/ufc-143-condit-vs-diaz-478>',
'<https://www.bestfightodds.com/events/ufc-on-fox-2-482>',
'<https://www.bestfightodds.com/events/ufc-on-fx-1-guillard-vs-miller-479>',
'<https://www.bestfightodds.com/events/ufc-141-lesnar-vs-overeem-452>',
'<https://www.bestfightodds.com/events/ufc-140-jones-vs-machida-451>',
'<https://www.bestfightodds.com/events/ufc-139-shogun-vs-henderson-424>',
'<https://www.bestfightodds.com/events/ufc-on-fox-1-velasquez-vs-dos-santos-442>',
'<https://www.bestfightodds.com/events/ufc-138-leben-vs-munoz-430>',
'<https://www.bestfightodds.com/events/ufc-137-penn-vs-diaz-410>',
'<https://www.bestfightodds.com/events/ufc-136-edgar-vs-maynard-3-423>',
'<https://www.bestfightodds.com/events/ufc-on-versus-6-cruz-vs-johnson-429>',
'<https://www.bestfightodds.com/events/ufc-135-jones-vs-rampage-417>',
'<https://www.bestfightodds.com/events/ufc-134-silva-vs-okami-389>',
'<https://www.bestfightodds.com/events/ufc-on-versus-5-hardy-vs-lytle-399>',
'<https://www.bestfightodds.com/events/ufc-133-evans-vs-ortiz-2-390>',
'<https://www.bestfightodds.com/events/ufc-132-cruz-vs-faber-381>',
'<https://www.bestfightodds.com/events/ufc-on-versus-4-379>',
'<https://www.bestfightodds.com/events/ufc-131-carwin-vs-dos-santos-358>',
'<https://www.bestfightodds.com/events/ufc-130-rampage-vs-hamill-357>',
'<https://www.bestfightodds.com/events/ufc-129-st-pierre-vs-shields-352>',
'<https://www.bestfightodds.com/events/ufc-fight-night-24-nogueira-vs-davis-354>',
'<https://www.bestfightodds.com/events/ufc-128-shogun-vs-jones-346>',
'<https://www.bestfightodds.com/events/ufc-on-versus-3-sanchez-vs-kampmann-351>',
'<https://www.bestfightodds.com/events/ufc-127-penn-vs-fitch-344>',
'<https://www.bestfightodds.com/events/ufc-126-silva-vs-belfort-338>',
'[42',](https://www.bestfightodds.com/events/ufc-fight-night-23-fight-for-the-troops-ii-3</p></div><div data-bbox=)

'<https://www.bestfightodds.com/events/ufc-125-resolution-332>',
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'<https://www.bestfightodds.com/events/ufc-123-rampage-vs-machida-317>',
'<https://www.bestfightodds.com/events/ufc-122-marquardt-vs-okami-323>',
'<https://www.bestfightodds.com/events/ufc-121-lesnar-vs-velasquez-308>',
'<https://www.bestfightodds.com/events/ufc-120-bisping-vs-akiyama-294>',
'<https://www.bestfightodds.com/events/ufc-119-mir-vs-cro-cop-296>',
'['<https://www.bestfightodds.com/events/ufc-118-edgar-vs-penn-2-278>',
'<https://www.bestfightodds.com/events/ufc-on-versus-2-281>',
'<https://www.bestfightodds.com/events/ufc-116-lesnar-vs-carwin-265>',
'<https://www.bestfightodds.com/events/ufc-115-liddell-vs-franklin-255>',
'<https://www.bestfightodds.com/events/ufc-113-machida-vs-shogun-ii-247>',
'<https://www.bestfightodds.com/events/ufc-112-Invincible-245>'](https://www.bestfightodds.com/events/ufc-fight-night-22-marquardt-vs-palhares-295'</p></div><div data-bbox=)

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https://www.bestfightodds.com/events/ufc-112-invincible-245',
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'https://www.bestfightodds.com/events/ufc-on-versus-1-vera-vs-jones-242',
'https://www.bestfightodds.com/events/ufc-110-nogueira-vs-velasquez-225',
'https://www.bestfightodds.com/events/ufc-109-relentless-226',
'https://www.bestfightodds.com/events/ufc-fight-night-20-maynard-vs-diaz-224',
'https://www.bestfightodds.com/events/ufc-108-evans-vs-silva-219',
'https://www.bestfightodds.com/events/ufc-107-penn-vs-sanchez-189',
'https://www.bestfightodds.com/events/ufc-106-ortiz-vs-griffin-2-209',
'https://www.bestfightodds.com/events/ufc-105-couture-vs-vera-201',
'https://www.bestfightodds.com/events/ufc-103-franklin-vs-belfort-168',
'https://www.bestfightodds.com/events/ufc-fight-night-15-diaz-vs-neer-84',
'https://www.bestfightodds.com/events/ufc-102-couture-vs-nogueira-156',
'https://www.bestfightodds.com/events/ufc-101-declaration-145',
'https://www.bestfightodds.com/events/ufc-100-137',
'https://www.bestfightodds.com/events/ufc-99-the-comeback-136',
'https://www.bestfightodds.com/events/ufc-98-evans-vs-machida-132',
'https://www.bestfightodds.com/events/ufc-97-redemption-126',
'https://www.bestfightodds.com/events/ufc-96-jackson-vs-jardine-125',
'https://www.bestfightodds.com/events/ufc-95-sanchez-vs-stevenson-121',
'https://www.bestfightodds.com/events/ufc-fight-night-17-lauzon-vs-stephens-123',
'https://www.bestfightodds.com/events/ufc-94-st-pierre-vs-penn-2-107',
'https://www.bestfightodds.com/events/ufc-93-franklin-vs-henderson-105',
'https://www.bestfightodds.com/events/ufc-92-the-ultimate-2008-95',
'https://www.bestfightodds.com/events/ufc-fight-night-16-fight-for-the-troops-111',

'https://www.bestfightodds.com/events/ufc-91-couture-vs-lesnar-98',
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'https://www.bestfightodds.com/events/ufc-89-bisping-vs-leben-86',
'https://www.bestfightodds.com/events/ufc-88-breakthrough-80',
'https://www.bestfightodds.com/events/ufc-87-seek-and-destroy-57',
'https://www.bestfightodds.com/events/ufc-fight-night-14-silva-vs-irvin-83',
'https://www.bestfightodds.com/events/ufc-86-jackson-vs-griffin-53',
'https://www.bestfightodds.com/events/ufc-85-bedlam-46',
'https://www.bestfightodds.com/events/ufc-84-ill-will-47',
'https://www.bestfightodds.com/events/ufc-83-serra-vs-st-pierre-2-40',
'https://www.bestfightodds.com/events/ufc-fight-night-13-florian-vs-lauzon-44',
'https://www.bestfightodds.com/events/ufc-82-pride-of-a-champion-30',
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'https://www.bestfightodds.com/events/ufc-80-rapid-fire-27',
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'https://www.bestfightodds.com/events/ufc-78-validation-14',
'https://www.bestfightodds.com/events/ufc-77-hostile-territory-10',
'https://www.bestfightodds.com/events/ufc-76-knockout-12',
'https://www.bestfightodds.com/events/ufc-fight-night-11-thomas-vs-florian-13',
'https://www.bestfightodds.com/events/ufc-75-champion-vs-champion-6',
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```

Now, I check to see if the event has already been scraped. If it has, I skip it. If not, I scrape it.

In [10]:

```

n=0
errors = []
complete = []
files = os.listdir('data/final/events/odds_per_event/')
file_list = [n[:-4] for n in files]

for url in all_event_odds_urls:
    url_file_name = url.split('/')[-1]
    url_file_name2 = url_file_name[:-4]
    if url_file_name not in file_list:
        try:
            get_odds(url)
            print(f'{n} / {len(all_event_odds_urls)}')
            n+=1
        except:

```

```
print(f'ERROR! {n} / {len(all_event_odds_urls)}')
errors.append(url)
n+=1

else:
    print(f'{url_file_name} already exists')
    complete.append(url_file_name)

print(f' total errors: {len(errors)}')
```

ufc-fight-night-214-2607 already exists
ufc-fight-night-215-2633 already exists
ufc-281-2529 already exists
ufc-fight-night-214ting-championship-2612 already exists
ufc-fight-night-213-2606 already exists
ufc-281-2586 already exists
ufc-fight-night-212-2579 already exists
ufc-vegas-57-2489 already exists
ufc-fight-night-211-2569 already exists
ufc-279-2541 already exists
ufc-fight-night-gane-vs-tuivasa-2518 already exists
ufc-278-usman-vs-edwards-2-2545 already exists
ufc-fight-night-vera-vs-cruz-2552 already exists
ufc-on-ESPN-santos-vs-hill-2534 already exists
ufc-277-pena-vs-nunes-2-2517 already exists
ufc-fight-night-blaydes-vs-aspinall-2519 already exists
ufc-on-ABC-ortega-vs-rodriguez-2524 already exists
ufc-on-ESPN-dos-anjos-vs-fiziev-2501 already exists
ufc-276-adesanya-vs-cannonier-2478 already exists
ufc-on-ESPN-tsarukyan-vs-gamrot-2574 already exists
ufc-fight-night-kattar-vs-emmett-2523 already exists
ufc-275-teixeira-vs-prochazka-2561 already exists
ufc-fight-night-211-2441 already exists
ufc-fight-night-2010-2428 already exists
ufc-fight-night-208-2418 already exists
ufc-274-oliveira-vs-gaethje-2422 already exists
ufc-fight-night-font-vs-vera-2474 already exists
ufc-fight-night-lemos-vs-andrade-2435 already exists
ufc-fight-night-ufc-fight-night-206-2412 already exists
ufc-273-2411 already exists
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ufc-fight-night-205-2376 already exists
ufc-2414 already exists
ufc-fight-night-204-2380 already exists
ufc-fight-night-203-2343 already exists
ufc-2413 already exists
ufc-271-2338 already exists
ufc-vegas-47-2430 already exists
ufc-270-2322 already exists
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ufc-269-2279 already exists
ufc-fight-night-font-vs-aldo-2259 already exists
ufc-fight-night-vieira-vs-tate-2237 already exists
ufc-fight-night-holloway-vs-rodriguez-2224 already exists
ufc-268-usman-vs-covington-2-2246 already exists
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ufc-fight-night-costa-vs-vettori-2203 already exists
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ufc-on-ESPN-cannonier-vs-gastelum-2166 already exists
ufc-265-lewis-vs-gane-2142 already exists
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ufc-263-adesanya-vs-vettori-2-2115 already exists

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ufc-261-usman-vs-masvidal-2-2087 already exists
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ufc-259-blachowicz-vs-adesanya-2038 already exists
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ufc-on-ESPN-18-smith-vs-clark-1979 already exists
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ufc-217-bisping-vs-st-pierre-1348 already exists
ufc-fight-night-119-machida-vs-brunson-1352 already exists
ufc-fight-night-118-cerrone-vs-till-1356 already exists
ufc-216-ferguson-vs-lee-1341 already exists
ufc-fight-night-117-saint-preux-vs-okami-1332 already exists
ufc-fight-night-116-rockhold-vs-branch-1343 already exists
ufc-215-nunes-vs-shevchenko-2-1308 already exists
ufc-fight-night-115-volkov-vs-struve-1310 already exists
ufc-fight-night-114-pettis-vs-moreno-1307 already exists
ufc-214-cormier-vs-jones-2-1303 already exists
ufc-on-fox-25-weidman-vs-gastelum-1292 already exists
ufc-fight-night-113-nelson-vs-ponzinibbio-1293 already exists
ufc-213-romero-vs-whittaker-1282 already exists
ufc-fight-night-112-chiesa-vs-lee-1276 already exists
ufc-fight-night-111-holm-vs-correia-1277 already exists
ufc-fight-night-110-lewis-vs-hunt-1275 already exists
ufc-212-aldo-vs-holloway-1257 already exists
ufc-fight-night-109-gustafsson-vs-teixeira-1265 already exists
ufc-211-miocic-vs-dos-santos-2-1252 already exists
ufc-fight-night-108-swanson-vs-lobov-1258 already exists
ufc-on-fox-24-johnson-vs-reis-1259 already exists
ufc-210-cormier-vs-johnson-2-1248 already exists
ufc-fight-night-107-manuwa-vs-anderson-1246 already exists
ufc-fight-night-106-belfort-vs-gastelum-1231 already exists
ufc-209-woodley-vs-thompson-2-1234 already exists
ufc-fight-night-105-lewis-vs-browne-1228 already exists
ufc-208-holm-vs-de-randamie-1229 already exists
ufc-fight-night-104-bermudez-vs-korean-zombie-1226 already exists
ufc-on-fox-23-shevchenko-vs-pena-1225 already exists
ufc-fight-night-103-rodriguez-vs-penn-1219 already exists
ufc-207-nunes-vs-rousey-1210 already exists
ufc-on-fox-22-vanzant-vs-watson-1207 already exists
ufc-206-holloway-vs-pettis-1204 already exists
ufc-fight-night-102-lewis-vs-abdurakhimov-1203 already exists
ufc-fight-night-101-whittaker-vs-brunson-1191 already exists
ufc-fight-night-100-bader-vs-nogueira-1185 already exists
ufc-fight-night-99-mousasi-vs-hall-2-1184 already exists
ufc-205-alvarez-vs-mcgregor-1188 already exists
ufc-fight-night-98-dos-anjos-vs-ferguson-1164 already exists
ufc-204-bisping-vs-henderson-2-1168 already exists
ufc-fight-night-96-lineker-vs-dodson-1165 already exists
ufc-fight-night-95-cyborg-vs-lansberg-1167 already exists
ufc-fight-night-94-johnson-vs-poirier-1160 already exists
ufc-203-miocic-vs-overeem-1138 already exists
ufc-fight-night-93-arlovski-vs-barnett-1139 already exists
ufc-on-fox-21-maia-vs-condit-1150 already exists
ufc-202-diaz-vs-mcgregor-2-1143 already exists
ufc-fight-night-92-rodriguez-vs-caceres-1146 already exists
ufc-201-lawler-vs-woodley-1129 already exists
ufc-on-fox-20-holm-vs-shevchenko-1114 already exists
ufc-fight-night-91-mcdonald-vs-lineker-1120 already exists
ufc-200-tate-vs-nunes-1102 already exists
ufc-fight-night-90-dos-anjos-vs-alvarez-1118 already exists
ufc-fight-night-89-macdonald-vs-thompson-1098 already exists
ufc-199-rockhold-vs-bisping-ii-1081 already exists
ufc-fight-night-88-almeida-vs-garbrandt-1104 already exists
ufc-198-werdum-vs-miocic-1070 already exists
ufc-fight-night-87-overeem-vs-arlovski-1088 already exists
ufc-197-jones-vs-saint-preux-1080 already exists
ufc-on-fox-19-evans-vs-teixeira-1073 already exists
ufc-fight-night-86-rothwell-vs-dos-santos-1077 already exists
ufc-fight-night-85-hunt-vs-mir-1062 already exists
ufc-196-mcgregor-vs-diaz-1060 already exists
ufc-fight-night-84-silva-vs-bisping-1052 already exists
ufc-fight-night-83-cowboy-vs-cowboy-1057 already exists
ufc-fight-night-82-hendricks-vs-thompson-1056 already exists
ufc-on-fox-18-johnson-vs-bader-1038 already exists
ufc-fight-night-81-dillashaw-vs-cruz-1022 already exists
ufc-195-lawler-vs-condit-1012 already exists
ufc-on-fox-17-dos-anjos-vs-cerrone-1008 already exists
ufc-194-aldo-vs-mcgregor-1005 already exists

ufc-fight-night-80-vanjanant-vs-namajunas-1023 already exists
ufc-fight-night-79-henderson-vs-masvidal-1013 already exists
ufc-fight-night-78-magny-vs-gastelum-999 already exists
ufc-193-rousey-vs-holm-1002 already exists
ufc-fight-night-77-belfort-vs-henderson-3-997 already exists
ufc-fight-night-76-holohan-vs-smolka-976 already exists
ufc-192-cormier-vs-gustafsson-990 already exists
ufc-fight-night-75-nelson-vs-barnett-1003 already exists
ufc-on-fox-6-johnson-vs-dodson-613 already exists
ufc-fight-night-74-holloway-vs-oliveira-984 already exists
ufc-fight-night-73-saint-preux-vs-teixeira-979 already exists
ufc-190-rousey-vs-correia-960 already exists
ufc-173-barao-vs-dillashaw-786 already exists
ufc-fight-night-72-bisping-vs-leites-975 already exists
ufc-fight-night-71-mir-vs-duffee-965 already exists
ufc-189-mendes-vs-mcgregor-942 already exists
ufc-fight-night-70-machida-vs-romero-973 already exists
ufc-fight-night-69-jedrzejczyk-vs-penne-964 already exists
ufc-188-velasquez-vs-werdum-930 already exists
ufc-fight-night-68-henderson-vs-boetsch-947 already exists
ufc-fight-night-67-alves-vs-condit-957 already exists
ufc-187-johnson-vs-cormier-945 already exists
ufc-fight-night-66-edgar-vs-faber-946 already exists
ufc-fight-night-65-hunt-vs-miocic-950 already exists
ufc-186-johnson-vs-horiguchi-929 already exists
ufc-on-fox-15-machida-vs-rockhold-927 already exists
ufc-fight-night-64-gonzaga-vs-cro-cop-ii-936 already exists
ufc-fight-night-63-mendes-vs-lamas-932 already exists
ufc-fight-night-62-maia-vs-laflare-934 already exists
ufc-185-pettis-vs-dos-anjos-925 already exists
ufc-184-rousey-vs-zingano-896 already exists
ufc-fight-night-61-bigfoot-vs-mir-923 already exists
ufc-fight-night-60-henderson-vs-thatch-915 already exists
ufc-183-silva-vs-diaz-856 already exists
ufc-on-fox-14-gustafsson-vs-johnson-906 already exists
ufc-fight-night-59-mcgregor-vs-siver-895 already exists
ufc-fight-night-58-machida-vs-dollaway-880 already exists
ufc-on-fox-13-dos-santos-vs-miocic-879 already exists
ufc-181-hendricks-vs-lawler-2-853 already exists
ufc-fight-night-57-edgar-vs-swanson-892 already exists
ufc-180-werdum-vs-hunt-824 already exists
ufc-fight-night-55-rockhold-vs-bisping-894 already exists
ufc-179-aldo-vs-mendes-ii-855 already exists
ufc-fight-night-54-macdonald-vs-saffiedine-861 already exists
ufc-fight-night-53-nelson-vs-story-860 already exists
ufc-178-johnson-vs-cariaso-836 already exists
ufc-fight-night-52-hunt-vs-nelson-847 already exists
ufc-fight-night-50-souza-vs-mousasi-851 already exists
ufc-177-dillashaw-vs-soto-849 already exists
ufc-fight-night-49-henderson-vs-dos-anjos-846 already exists
ufc-fight-night-48-bisping-vs-le-835 already exists
ufc-fight-night-47-bader-vs-saint-preux-845 already exists
ufc-on-fox-12-lawler-vs-brown-829 already exists
ufc-fight-night-46-mcgregor-vs-brandao-827 already exists
ufc-175-weidman-vs-machida-805 already exists
ufc-fight-night-44-swanson-vs-stephens-800 already exists
ufc-fight-night-43-te-huna-vs-marquardt-823 already exists
ufc-174-johnson-vs-bagautinov-807 already exists
ufc-fight-night-42-henderson-vs-khabilov-822 already exists
ufc-fight-night-41-munoz-vs-mousasi-799 already exists
ufc-fight-night-40-brown-vs-silva-794 already exists
ufc-172-jones-vs-teixeira-772 already exists
ufc-on-fox-11-werdum-vs-browne-779 already exists
ufc-fight-night-39-minotaur-vs-nelson-790 already exists
ufc-fight-night-38-shogun-vs-henderson-784 already exists
ufc-fight-night-37-gustafsson-vs-manuwa-751 already exists
ufc-170-rousey-vs-mcmann-756 already exists
ufc-fight-night-36-machida-vs-mousasi-758 already exists
ufc-149-faber-vs-barao-527 already exists
ufc-on-fox-10-henderson-vs-thomson-777 already exists
ufc-fight-night-35-rockhold-vs-philippou-762 already exists
ufc-fight-night-34-saffiedine-vs-lim-761 already exists

ufc-168-weidman-vs-silva-ii-706 already exists
ufc-on-fox-9-johnson-vs-benavidez-729 already exists
ufc-fight-night-33-hunt-vs-bigfoot-728 already exists
ufc-167-st-pierre-vs-hendricks-699 already exists
ufc-fight-night-31-fight-for-the-troops-iii-726 already exists
ufc-fight-night-30-machida-vs-munoz-712 already exists
ufc-fight-night-29-maia-vs-shields-713 already exists
ufc-165-jones-vs-gustafsson-697 already exists
ufc-fight-night-28-teixeira-vs-bader-705 already exists
ufc-164-henderson-vs-pettis-ii-691 already exists
ufc-fight-night-27-condit-vs-kampmann-ii-692 already exists
ufc-fight-night-26-shogun-vs-sonnen-685 already exists
ufc-163-aldo-vs-jung-683 already exists
ufc-on-fox-8-johnson-vs-moraga-674 already exists
ufc-161-evans-vs-henderson-660 already exists
ufc-on-fuel-tv-10-nogueira-vs-werdum-2-668 already exists
ufc-160-velasquez-vs-silva-ii-647 already exists
ufc-on-fx-8-belfort-vs-rockhold-648 already exists
ufc-159-jones-vs-sonnen-633 already exists
ufc-on-fox-7-henderson-vs-melendez-634 already exists
ufc-on-fuel-tv-9-mousasi-vs-latifi-636 already exists
ufc-158-st-pierre-vs-diaz-627 already exists
ufc-on-fuel-tv-8-silva-vs-stann-625 already exists
ufc-157-rousey-vs-carmouche-618 already exists
ufc-on-fuel-tv-7-barao-vs-mcdonald-632 already exists
ufc-156-aldo-vs-edgar-611 already exists
ufc-on-fx-7-belfort-vs-bisping-612 already exists
ufc-155-dos-santos-vs-velasquez-ii-585 already exists
ufc-on-fx-6-sotiropoulos-vs-pearson-594 already exists
ufc-on-fox-5-henderson-vs-diaz-584 already exists
ufc-154-st-pierre-vs-condit-565 already exists
ufc-on-fuel-tv-6-franklin-vs-le-582 already exists
ufc-153-silva-vs-bonnar-571 already exists
ufc-on-fx-5-browne-vs-bigfoot-579 already exists
ufc-on-fuel-tv-5-struve-vs-miocic-569 already exists
ufc-152-jones-vs-belfort-561 already exists
ufc-150-henderson-vs-edgar-ii-547 already exists
ufc-on-fox-4-shogun-vs-vera-546 already exists
ufc-on-fuel-tv-4-munoz-vs-weidman-545 already exists
ufc-148-silva-vs-sonnen-2-506 already exists
ufc-147-silva-vs-franklin-ii-517 already exists
ufc-on-fx-4-guida-vs-maynard-521 already exists
ufc-on-fx-3-johnson-vs-mccall-522 already exists
ufc-146-dos-santos-vs-mir-502 already exists
ufc-on-fuel-tv-3-korean-zombie-vs-poirier-499 already exists
ufc-on-fox-3-diaz-vs-miller-496 already exists
ufc-145-jones-vs-evans-490 already exists
ufc-on-fuel-tv-2-gustafsson-vs-silva-493 already exists
ufc-on-fx-2-alves-vs-kampmann-487 already exists
ufc-on-fuel-tv-1-ellenberger-vs-sanchez-485 already exists
ufc-143-condit-vs-diaz-478 already exists
ufc-on-fox-2-482 already exists
ufc-on-fx-1-guillard-vs-miller-479 already exists
ufc-141-lesnar-vs-overeem-452 already exists
ufc-140-jones-vs-machida-451 already exists
ufc-139-shogun-vs-henderson-424 already exists
ufc-on-fox-1-velasquez-vs-dos-santos-442 already exists
ufc-138-leben-vs-munoz-430 already exists
ufc-137-penn-vs-diaz-410 already exists
ufc-136-edgar-vs-maynard-3-423 already exists
ufc-on-versus-6-cruz-vs-johnson-429 already exists
ufc-135-jones-vs-rampage-417 already exists
ufc-134-silva-vs-okami-389 already exists
ufc-on-versus-5-hardy-vs-lytle-399 already exists
ufc-133-evans-vs-ortiz-2-390 already exists
ufc-132-cruz-vs-faber-381 already exists
ufc-on-versus-4-379 already exists
ufc-131-carwin-vs-dos-santos-358 already exists
ufc-130-rampage-vs-hamill-357 already exists
ufc-129-st-pierre-vs-shields-352 already exists
ufc-fight-night-24-nogueira-vs-davis-354 already exists
ufc-128-shogun-vs-jones-346 already exists

ufc-on-versus-3-sanchez-vs-kampmann-351 already exists
ufc-127-penn-vs-fitch-344 already exists
ufc-126-silva-vs-belfort-338 already exists
ufc-fight-night-23-fight-for-the-troops-ii-342 already exists
ufc-125-resolution-332 already exists
ufc-124-st-pierre-vs-koscheck-ii-313 already exists
ufc-123-rampage-vs-machida-317 already exists
ufc-122-marquardt-vs-okami-323 already exists
ufc-121-lesnar-vs-velasquez-308 already exists
ufc-120-bisping-vs-akiyama-294 already exists
ufc-119-mir-vs-cro-cop-296 already exists
ufc-fight-night-22-marquardt-vs-palhares-295 already exists
ufc-118-edgar-vs-penn-2-278 already exists
ufc-on-versus-2-281 already exists
ufc-116-lesnar-vs-carwin-265 already exists
ufc-115-liddell-vs-franklin-255 already exists
ufc-113-machida-vs-shogun-ii-247 already exists
ufc-112-invincible-245 already exists
ufc-fight-night-21-florian-vs-gomi-246 already exists
ufc-111-st-pierre-vs-hardy-236 already exists
ufc-on-versus-1-vera-vs-jones-242 already exists
ufc-110-nogueira-vs-velasquez-225 already exists
ufc-109-relentless-226 already exists
ufc-fight-night-20-maynard-vs-diaz-224 already exists
ufc-108-evans-vs-silva-219 already exists
ufc-107-penn-vs-sanchez-189 already exists
ufc-106-ortiz-vs-griffin-2-209 already exists
ufc-105-couture-vs-vera-201 already exists
ufc-103-franklin-vs-belfort-168 already exists
ufc-fight-night-15-diaz-vs-neer-84 already exists
ufc-102-couture-vs-nogueira-156 already exists
ufc-101-declaration-145 already exists
ufc-100-137 already exists
ufc-99-the-comeback-136 already exists
ufc-98-evans-vs-machida-132 already exists
ufc-97-redemption-126 already exists
ufc-96-jackson-vs-jardine-125 already exists
ufc-95-sanchez-vs-stevenson-121 already exists
ufc-fight-night-17-lauzon-vs-stephens-123 already exists
ufc-94-st-pierre-vs-penn-2-107 already exists
ufc-93-franklin-vs-henderson-105 already exists
ufc-92-the-ultimate-2008-95 already exists
ufc-fight-night-16-fight-for-the-troops-111 already exists
ufc-91-couture-vs-lesnar-98 already exists
ufc-90-silva-vs-cote-92 already exists
ufc-89-bisping-vs-leben-86 already exists
ufc-88-breakthrough-80 already exists
ufc-87-seek-and-destroy-57 already exists
ufc-fight-night-14-silva-vs-irvin-83 already exists
ufc-86-jackson-vs-griffin-53 already exists
ufc-85-bedlam-46 already exists
ufc-84-ill-will-47 already exists
ufc-83-serra-vs-st-pierre-2-40 already exists
ufc-fight-night-13-florian-vs-lauzon-44 already exists
ufc-82-pride-of-a-champion-30 already exists
ufc-81-breaking-point-28 already exists
ufc-fight-night-12-swick-vs-burkman-36 already exists
ufc-80-rapid-fire-27 already exists
ufc-79-nemesis-22 already exists
ufc-78-validation-14 already exists
ufc-77-hostile-territory-10 already exists
ufc-76-knockout-12 already exists
ufc-fight-night-11-thomas-vs-florian-13 already exists
ufc-75-champion-vs-champion-6 already exists
ufc-74-respect-7 already exists
ufc-73-stacked-1 already exists
total errors: 0

Append Together

```
In [11]:  
  
#append  
files = os.listdir('data/final/events/odds_per_event/')
```

```
In [12]:  
  
all_event_odds = []  
  
for file in files:  
    df = pd.read_csv('data/final/events/odds_per_event/' + file)  
    # append  
    all_event_odds.append(df)  
  
all_event_odds = pd.concat(all_event_odds)  
  
print(all_event_odds.shape)  
all_event_odds.head()
```

(331831, 17)

Out[12]:

	fighter	DraftKings	BetMGM	Caesars	BetRivers	FanDuel	PointsBet	Unibet	BetWay	5D	Ref	Props	Props.1	F
0	Brock Lesnar	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	-225▼	NaN	NaN	NaN	
1	Frank Mir	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	+205▲	NaN	NaN	NaN	
2	Georges St-Pierre	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	-275▼	NaN	NaN	NaN	
3	Thiago Alves	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	+250▲	NaN	NaN	NaN	
4	Dan Henderson	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	-200▲	NaN	NaN	NaN	

Adding Event Names & URLs to Event_Odds df

```
In [13]:  
  
fight_odds_urls.head(3)
```

Out[13]:

	event_title	event_url	event_odds_url	Short_title	Short_Title_2 (vs. to vs)	Name1
0	UFC Fight Night: Thompson vs. Holland	http://ufcstats.com/event-details/b23388ff8ac6...	https://www.bestfightodds.com/events/ufc-fight...	Thompson vs. Holland	Thompson vs Holland	thompson
1	UFC Fight Night: Nzechukwu vs. Cutelaba	http://ufcstats.com/event-details/012fc7cd0779...	https://www.bestfightodds.com/events/ufc-fight...	Nzechukwu vs. Cutelaba	Nzechukwu vs Cutelaba	nzechukwu c
2	UFC 281: Adesanya vs. Pereira	http://ufcstats.com/event-details/b3b6e80b7d5f...	https://www.bestfightodds.com/events/ufc-281-2529	Adesanya vs. Pereira	Adesanya vs Pereira	adesanya

```
In [14]:  
  
def get_event_title(event_odds_url):  
    # even[event_name] is the event name  
    # even[event_odds_url] is the url
```

```

try:
    data = fight_odds_urls[fight_odds_urls['event_odds_url'] == event_odds_url]
    event_name = data.event_title.values[0]
    return event_name
except:
    return nan

```

In [15]:

```

def get_ufcstats_url(event_odds_url):
    try:
        data = fight_odds_urls[fight_odds_urls['event_odds_url'] == event_odds_url]
        event_url = data.event_url.values[0]
        return event_url
    except:
        return nan

```

Dropping Unnecessary Data

I do not need the specific odds for everything in a fight, just the odds to win.

In [16]:

```

# drop rows if 'decision' in the fighter column
all_event_odds = all_event_odds[~all_event_odds['fighter'].str.contains('decision', na=False)]
# drop rows if 'result' in the fighter column
all_event_odds = all_event_odds[~all_event_odds['fighter'].str.contains('result', na=False)]
# drop if 'distance' in the fighter column
all_event_odds = all_event_odds[~all_event_odds['fighter'].str.contains('distance', na=False)]

print(all_event_odds.shape)
all_event_odds.head()

```

(177999, 17)

Out[16]:

	fighter	DraftKings	BetMGM	Caesars	BetRivers	FanDuel	PointsBet	Unibet	BetWay	5D	Ref	Props	Props.1	F
0	Brock Lesnar	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	-225▼	NaN	NaN	NaN	
1	Frank Mir	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	+205▲	NaN	NaN	NaN	
2	Georges St-Pierre	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	-275▼	NaN	NaN	NaN	
3	Thiago Alves	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	+250▲	NaN	NaN	NaN	
4	Dan Henderson	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	-200▲	NaN	NaN	NaN	

In [17]:

```

all_event_odds['event_name'] = all_event_odds.apply(lambda row: get_event_title(row['event_odds_url']), axis=1)

```

In [18]:

```

# check nan
all_event_odds[all_event_odds['event_name'].isnull()]

```

Out[18]:

	fighter	DraftKings	BetMGM	Caesars	BetRivers	FanDuel	PointsBet	Unibet	BetWay	5D	Ref	Props	Props
--	---------	------------	--------	---------	-----------	---------	-----------	--------	--------	----	-----	-------	-------

0	fighter	DraftKings	BetMGM	Caesars	BetRivers	FanDuel	PointsBet	Unibet	BetWay	5D	Ref	Props	Props.1
	Brachewicz	+269▲	+260▼	+260▲	+283▲	+270▼	NaN	+285▲	+275▲	+285▼	+275▼	NaN	NaN
1	Magomed Ankalaev	-315▼	-350▲	-360▼	-375▼	-335▲	NaN	-375▼	-350▼	-345▼	-335▲	NaN	110
2	Over 1½ rounds	NaN	NaN	-270	-286	NaN	NaN	-286	-275	-195	NaN	NaN	NaN
3	Under 1½ rounds	NaN	NaN	+200	+205	NaN	NaN	+205	+200	+168	NaN	NaN	NaN
4	Over 2½ rounds	NaN	NaN	-150▼	-148	-138▼	NaN	-148	-138▼	-130	NaN	NaN	NaN
...

163	Fight is not a draw	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	-13500	NaN	NaN	NaN
-----	---------------------	-----	-----	-----	-----	-----	-----	-----	-----	--------	-----	-----	-----

172	Jesus Santos Aguilar	NaN	+625▼	+700	+650	+700▲	NaN	+650▲	+450	+700▼	+800▼	NaN	NaN
-----	----------------------	-----	-------	------	------	-------	-----	-------	------	-------	-------	-----	-----

173	Tatsuro Taira	NaN	-1000▲	-1100	-1000	-1100▼	NaN	-1000▼	-800	-1100▲	-1100▲	NaN	NaN
-----	---------------	-----	--------	-------	-------	--------	-----	--------	------	--------	--------	-----	-----

176	Fight is a draw	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	+6500	NaN	NaN	NaN
-----	-----------------	-----	-----	-----	-----	-----	-----	-----	-----	-------	-----	-----	-----

177	Fight is not a draw	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	-16500	NaN	NaN	NaN
-----	---------------------	-----	-----	-----	-----	-----	-----	-----	-----	--------	-----	-----	-----

1903 rows × 18 columns



In [19]:

```
all_event_odds['event_ufcstats_url'] = all_event_odds.apply(lambda row: get_ufcstats_url(
row['event_odds_url']), axis=1)
```

In [20]:

```
all_event_odds.head(3)
```

Out[20]:

	fighter	DraftKings	BetMGM	Caesars	BetRivers	FanDuel	PointsBet	Unibet	BetWay	5D	Ref	Props	Props.1	Pro
0	Brock Lesnar	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	-225▼	NaN	NaN	NaN	
1	Frank Mir	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	+205▲	NaN	NaN	NaN	

fighter	DraftKings	BetMGM	Caesars	BetRivers	FanDuel	PointsBet	Unibet	BetWay	5D	Ref	Props	Props.1	Pro
2 Georges St-Pierre	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	-275▼	NaN	NaN	NaN	

--	--	--	--	--	--	--	--	--	--	--	--	--	--

In [21]:

```
all_event_odds.to_csv('data/final/odds/All_Odds_by_Fighter_V1.csv', index=False)
```

In [22]:

```
all_event_odds['5D'] = all_event_odds['5D'].str[:-1]
all_event_odds['5D'] = all_event_odds['5D'].astype(float)
all_event_odds.head(3)
```

Out[22]:

	fighter	DraftKings	BetMGM	Caesars	BetRivers	FanDuel	PointsBet	Unibet	BetWay	5D	Ref	Props	Props.1	Prop
0	Brock Lesnar	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	-225.0	NaN	NaN	NaN	N
1	Frank Mir	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	205.0	NaN	NaN	NaN	N
2	Georges St-Pierre	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	-275.0	NaN	NaN	NaN	N

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

In [23]:

```
all_event_odds['Ref'] = all_event_odds['Ref'].str[:-1]
all_event_odds['Ref'] = all_event_odds['Ref'].astype(float)
all_event_odds.head(3)
```

Out[23]:

	fighter	DraftKings	BetMGM	Caesars	BetRivers	FanDuel	PointsBet	Unibet	BetWay	5D	Ref	Props	Props.1	Prop
0	Brock Lesnar	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	-225.0	NaN	NaN	NaN	N
1	Frank Mir	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	205.0	NaN	NaN	NaN	N
2	Georges St-Pierre	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	-275.0	NaN	NaN	NaN	N

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

In [24]:

```
cols = ['fighter', '5D', 'Ref', 'event_odds_url', 'event_ufcstats_url', 'event_id', 'event_name']
all_event_odds = all_event_odds[cols]
all_event_odds.head()
```

Out[24]:

	fighter	5D	Ref	event_odds_url	event_ufcstats_url	event_id	event_name
0	Brock Lesnar	-225.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100
1	Frank Mir	205.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100
2	Georges St-Pierre	-275.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100
3	Thiago Alves	250.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100

4	figStar	5D	Ref	https://www.bestfightodds.com/odds/ufc-100-137	http://ufcstats.com/events/ufc-100-137	event_id	event_name
Henderson	200.0	NaN	NaN	100-137	details/0ee783aa00e4...	137	UFC 100

In [25]:

```
# get shape
all_event_odds.shape
```

Out[25]:

(177999, 7)

In [26]:

```
all_event_odds.to_csv('data/final/odds/All_Odds_by_Fighter_V2.csv', index=False)
```

Summary

- ALL ODDS by fighter are available at:
 - data/ufc_BestFightOdds/All_Event_Odds_by_Fighter.csv
- You can combine this with UfcStatsData easily using 'event_ufcstats_url'

Add All Events Df

Saved in final/events

In [27]:

```
all_event_odds = pd.read_csv('data/final/odds/All_Odds_by_Fighter_V2.csv')
```

In [28]:

```
# events are located in data/ufc_stats/events2

folder = 'data/ufc_stats/events2/'

# aggregate all events into one dataframe
all_events = []

for file in os.listdir(folder):
    df = pd.read_csv(folder + file)
    # append
    all_events.append(df)

all_events = pd.concat(all_events)

print(all_events.shape)
all_events.head()
```

(5678, 19)

Out[28]:

Unnamed: 0	W/L	Weight class	Method	Round	Time	Fighter1	Fighter2	F1_Kd	F2_Kd	F1_Str	F2_Str	F1_Td	F2_T
0	0	win	Heavyweight	KO/TKO Punches	3	4:23	Ciryl Gane	Tai Tuivasa	1	1	110	29	0
1	1	win	Middleweight	U-DEC	3	5:00	Robert Whittaker	Marvin Vettori	0	0	74	33	1
2	2	win	Middleweight	U-DEC	3	5:00	Nassourdine Imavov	Joaquin Buckley	0	0	51	46	2
3	3	win	Middleweight	KO/TKO Punches	3	1:09	Roman Kopylov	Alessio Di Chirico	1	0	59	39	0

4	Unnamed: 0	W/L	Weight class	U-DEC	Round	3	5:00	William	Jarno	Fighters	Fighters	F1_Kd	F2_Kd	F1_Str	F2_Str	F1_Td	F2_T

In [29]:

```
all_events.to_csv('data/final/events/All_Events_V1.csv', index=False)
```

In [30]:

```
all_events = pd.read_csv('data/final/events/All_Events_V1.csv')
```

Add Odd Changes to Odds

In [31]:

```
def get_odds(url):
    # you can scrape by pretending to be a browser
    header = {
        "User-Agent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/50.0.2661.75 Safari/537.36",
        "X-Requested-With": "XMLHttpRequest"
    }
    r = requests.get(url, headers = header)
    dfs = pd.read_html(r.text)
    data = dfs[1]
    data.rename(columns={'Unnamed: 0': 'fighter'}, inplace=True)
    data['event_odds_url'] = url
    event_name = url.split('/')[4]
    data['event_id'] = event_name
    #data.to_csv('data/ufc_BestFightOdds/odds_by_event/' + event_name + '.csv', index=False)

    return data
```

In [32]:

```
def get_bfodds(event_url):
    # scrape the changes in odds by event url

    driver = webdriver.Chrome()
    # minimize
    driver.minimize_window()
    driver.get(event_url)

    # click show all
    driver.find_element_by_class_name('event-swing-expand').click()
    #wait 2 seconds
    time.sleep(2)

    event_swing_container = driver.find_element_by_id('event-swing-container')

    # the first half of the text is the odds changes, the seconds half are the names. Let
    s match them up.
    # first split the text by new line
    event_swing_container.text.split('\n')

    # get the names. You can identify them because they will be more than 5 characters lo
    ng
    names = [x for x in event_swing_container.text.split('\n') if len(x) > 5]

    # get the odds changes
    odds_changes = [x for x in event_swing_container.text.split('\n') if '%' in x]

    # get the event name
    event_name = driver.find_element_by_class_name('table-header')
    # name is h1 in event_name
    name = event_name.find_element_by_tag_name('h1')
```



```

event = name.text

# get the url
url = driver.current_url

# create a dataframe
df = pd.DataFrame({'names': names, 'odds_changes': odds_changes, 'event': event, 'event_url': url})

#close the driver
driver.close()

return df

```

In [33]:

```
all_odds_eventlist = all_event_odds['event_odds_url'].unique().tolist()
```

In [34]:

```

already_complete = []
failed = []
newly_complete = []

for url in all_odds_eventlist:
    event_name = url.split('/')[ -1]
    if str(event_name) + '.csv' in os.listdir('data/final/odds/odds_changes/'):
        print('already done with ' + url.split('/')[ -1])
        already_complete.append(event_name)
        continue

    else:
        try:
            df = get_bfodds(url)
            name = url.split('/')[ -1]
            df.to_csv('data/final/odds/odds_changes/' + name + '.csv', index=False)
            newly_complete.append(name)
            print('done with ' + name)
        except:
            name = url.split('/')[ -1]
            failed.append(name)
            print('failed on ' + name)
            continue

print("")
print('already done with ' + str(len(already_complete)) + ' events')
print('newly done with ' + str(len(newly_complete)) + ' events')
print('failed on ' + str(len(failed)) + ' events')

```

```

already done with ufc-100-137
already done with ufc-101-declaration-145
already done with ufc-102-couture-vs-nogueira-156
already done with ufc-103-franklin-vs-belfort-168
already done with ufc-105-couture-vs-vera-201
already done with ufc-106-ortiz-vs-griffin-2-209
already done with ufc-107-penn-vs-sanchez-189
already done with ufc-108-evans-vs-silva-219
already done with ufc-109-relentless-226
already done with ufc-110-nogueira-vs-velasquez-225
already done with ufc-111-st-pierre-vs-hardy-236
already done with ufc-112-invincible-245
already done with ufc-113-machida-vs-shogun-ii-247
already done with ufc-115-liddell-vs-franklin-255
already done with ufc-116-lesnar-vs-carwin-265
already done with ufc-118-edgar-vs-penn-2-278
already done with ufc-119-mir-vs-cro-cop-296
already done with ufc-120-bisping-vs-akiyama-294
already done with ufc-121-lesnar-vs-velasquez-308
already done with ufc-122-marquardt-vs-okami-323
already done with ufc-123-rampage-vs-machida-317
already done with ufc-124-st-pierre-vs-koscheck-ii-313
already done with ufc-125-resolution-332
already done with ufc-126-silva-vs-belfort-338

```

already done with ufc-127-penn-vs-fitch-344
already done with ufc-128-shogun-vs-jones-346
already done with ufc-129-st-pierre-vs-shields-352
already done with ufc-130-rampage-vs-hamill-357
already done with ufc-131-carwin-vs-dos-santos-358
already done with ufc-132-cruz-vs-faber-381
already done with ufc-133-evans-vs-ortiz-2-390
already done with ufc-134-silva-vs-okami-389
already done with ufc-135-jones-vs-rampage-417
already done with ufc-136-edgar-vs-maynard-3-423
already done with ufc-137-penn-vs-diaz-410
already done with ufc-138-leben-vs-munoz-430
already done with ufc-139-shogun-vs-henderson-424
already done with ufc-140-jones-vs-machida-451
already done with ufc-141-lesnar-vs-overeem-452
already done with ufc-143-condit-vs-diaz-478
already done with ufc-145-jones-vs-evans-490
already done with ufc-146-dos-santos-vs-mir-502
already done with ufc-147-silva-vs-franklin-ii-517
already done with ufc-148-silva-vs-sonnen-2-506
already done with ufc-149-faber-vs-barao-527
already done with ufc-150-henderson-vs-edgar-ii-547
already done with ufc-152-jones-vs-belfort-561
already done with ufc-153-silva-vs-bonnar-571
already done with ufc-154-st-pierre-vs-condit-565
already done with ufc-155-dos-santos-vs-velasquez-ii-585
already done with ufc-156-aldo-vs-edgar-611
already done with ufc-157-rousey-vs-carmouche-618
already done with ufc-158-st-pierre-vs-diaz-627
already done with ufc-159-jones-vs-sonnen-633
already done with ufc-160-velasquez-vs-silva-ii-647
already done with ufc-161-evans-vs-henderson-660
already done with ufc-163-aldo-vs-jung-683
already done with ufc-164-henderson-vs-pettis-ii-691
already done with ufc-165-jones-vs-gustafsson-697
already done with ufc-167-st-pierre-vs-hendricks-699
already done with ufc-168-weidman-vs-silva-ii-706
already done with ufc-170-rousey-vs-mcmann-756
already done with ufc-172-jones-vs-teixeira-772
already done with ufc-173-barao-vs-dillashaw-786
already done with ufc-174-johnson-vs-bagautinov-807
already done with ufc-175-weidman-vs-machida-805
already done with ufc-177-dillashaw-vs-soto-849
already done with ufc-178-johnson-vs-cariaso-836
already done with ufc-179-aldo-vs-mendes-ii-855
already done with ufc-180-werdum-vs-hunt-824
already done with ufc-181-hendricks-vs-lawler-2-853
already done with ufc-183-silva-vs-diaz-856
already done with ufc-184-rousey-vs-zingano-896
already done with ufc-185-pettis-vs-dos-anjos-925
already done with ufc-186-johnson-vs-horiguchi-929
already done with ufc-187-johnson-vs-cormier-945
already done with ufc-188-velasquez-vs-werdum-930
already done with ufc-189-mendes-vs-mcgregor-942
already done with ufc-190-rousey-vs-correia-960
already done with ufc-192-cormier-vs-gustafsson-990
already done with ufc-193-rousey-vs-holm-1002
already done with ufc-194-aldo-vs-mcgregor-1005
already done with ufc-195-lawler-vs-condit-1012
already done with ufc-196-mcgregor-vs-diaz-1060
already done with ufc-197-jones-vs-saint-preux-1080
already done with ufc-198-werdum-vs-miocic-1070
already done with ufc-199-rockhold-vs-bisping-ii-1081
already done with ufc-200-tate-vs-nunes-1102
already done with ufc-201-lawler-vs-woodley-1129
already done with ufc-202-diaz-vs-mcgregor-2-1143
already done with ufc-203-miocic-vs-overeem-1138
already done with ufc-204-bisping-vs-henderson-2-1168
already done with ufc-205-alvarez-vs-mcgregor-1188
already done with ufc-206-holloway-vs-pettis-1204
already done with ufc-207-nunes-vs-rousey-1210
already done with ufc-208-holm-vs-de-randamie-1229

already done with ufc-209-woodley-vs-thompson-2-1234
already done with ufc-210-cormier-vs-johnson-2-1248
already done with ufc-211-miocic-vs-dos-santos-2-1252
already done with ufc-212-aldo-vs-holloway-1257
already done with ufc-213-romero-vs-whittaker-1282
already done with ufc-214-cormier-vs-jones-2-1303
already done with ufc-215-nunes-vs-shevchenko-2-1308
already done with ufc-216-ferguson-vs-lee-1341
already done with ufc-217-bisping-vs-st-pierre-1348
already done with ufc-218-holloway-vs-aldo-2-1368
already done with ufc-219-cyborg-vs-holm-1387
already done with ufc-220-miocic-vs-ngannou-1406
already done with ufc-221-romero-vs-rockhold-1411
already done with ufc-222-cyborg-vs-kunitskaya-1422
already done with ufc-223-nurmagomedov-vs-iaquinta-1444
already done with ufc-224-nunes-vs-pennington-1453
already done with ufc-225-whittaker-vs-romero-2-1459
already done with ufc-226-miocic-vs-cormier-1447
already done with ufc-227-dillashaw-vs-garbrandt-2-1492
already done with ufc-228-woodley-vs-till-1530
already done with ufc-229-nurmagomedov-vs-mcgregor-1566
already done with ufc-230-cormier-vs-lewis-1562
already done with ufc-231-holloway-vs-ortega-1584
already done with ufc-232-jones-vs-gustafsson-2-1583
already done with ufc-234-adesanya-vs-silva-1620
already done with ufc-235-jones-vs-smith-1625
done with ufc-236-holloway-vs-poirier-2-1666
already done with ufc-237-namajunas-vs-andrade-1647
already done with ufc-238-cejudo-vs-moraes-1677
already done with ufc-239-jones-vs-santos-1686
already done with ufc-240-holloway-vs-edgar-1713
already done with ufc-241-cormier-vs-miocic-2-1709
already done with ufc-2413
already done with ufc-2414
already done with ufc-242-khabib-vs-poirier-1715
already done with ufc-243-whittaker-vs-adesanya-1752
already done with ufc-244-masvidal-vs-diaz-1771
already done with ufc-245-usman-vs-covington-1787
already done with ufc-246-mcgregor-vs-cowboy-1839
already done with ufc-247-jones-vs-reyes-1837
already done with ufc-248-adesanya-vs-romero-1849
already done with ufc-249-ferguson-vs-gaethje-1875
already done with ufc-250-nunes-vs-spencer-1909
already done with ufc-251-usman-vs-masvidal-1890
already done with ufc-252-miocic-vs-cormier-3-1919
already done with ufc-253-adesanya-vs-costa-1952
already done with ufc-254-khabib-vs-gaethje-1958
already done with ufc-255-figueiredo-vs-perez-1967
already done with ufc-256-figueiredo-vs-moreno-1983
already done with ufc-257-poirier-vs-mcgregor-2-2016
already done with ufc-258-usman-vs-burns-2033
already done with ufc-259-blachowicz-vs-adesanya-2038
already done with ufc-260-miocic-vs-ngannou-2-2055
already done with ufc-261-usman-vs-masvidal-2-2087
already done with ufc-262-oliveira-vs-chandler-2086
already done with ufc-263-adesanya-vs-vettori-2-2115
already done with ufc-264-poirier-vs-mcgregor-3-2127
already done with ufc-265-lewis-vs-gane-2142
already done with ufc-266-volkanovski-vs-ortega-2177
already done with ufc-267-brachowicz-vs-teixeira-2217
already done with ufc-268-usman-vs-covington-2-2246
already done with ufc-269-2279
already done with ufc-270-2322
already done with ufc-271-2338
already done with ufc-273-2411
already done with ufc-274-oliveira-vs-gaethje-2422
already done with ufc-275-teixeira-vs-prochazka-2561
already done with ufc-276-adesanya-vs-cannonier-2478
already done with ufc-277-pena-vs-nunes-2-2517
already done with ufc-278-usman-vs-edwards-2-2545
done with ufc-279-2541
already done with ufc-281-2529

already done with ufc-281-2586
already done with ufc-282-2621
already done with ufc-73-stacked-1
already done with ufc-74-respect-7
already done with ufc-75-champion-vs-champion-6
already done with ufc-76-knockout-12
already done with ufc-77-hostile-territory-10
already done with ufc-78-validation-14
already done with ufc-79-nemesis-22
already done with ufc-80-rapid-fire-27
already done with ufc-81-breaking-point-28
already done with ufc-82-pride-of-a-champion-30
already done with ufc-83-serra-vs-st-pierre-2-40
already done with ufc-84-ill-will-47
already done with ufc-85-bedlam-46
already done with ufc-86-jackson-vs-griffin-53
already done with ufc-87-see-and-destroy-57
already done with ufc-88-breakthrough-80
already done with ufc-89-bisping-vs-leben-86
already done with ufc-90-silva-vs-cote-92
already done with ufc-91-couture-vs-lesnar-98
already done with ufc-92-the-ultimate-2008-95
already done with ufc-93-franklin-vs-henderson-105
already done with ufc-94-st-pierre-vs-penn-2-107
already done with ufc-95-sanchez-vs-stevenson-121
already done with ufc-96-jackson-vs-jardine-125
already done with ufc-97-redemption-126
already done with ufc-98-evans-vs-machida-132
already done with ufc-99-the-comeback-136
already done with ufc-fight-night-100-bader-vs-nogueira-1185
already done with ufc-fight-night-101-whittaker-vs-brunson-1191
already done with ufc-fight-night-102-lewis-vs-abdurakhimov-1203
already done with ufc-fight-night-103-rodriguez-vs-penn-1219
already done with ufc-fight-night-104-bermudez-vs-korean-zombie-1226
already done with ufc-fight-night-105-lewis-vs-browne-1228
already done with ufc-fight-night-106-belfort-vs-gastelum-1231
already done with ufc-fight-night-107-manuwa-vs-anderson-1246
already done with ufc-fight-night-108-swanson-vs-lobov-1258
already done with ufc-fight-night-109-gustafsson-vs-teixeira-1265
already done with ufc-fight-night-11-thomas-vs-florian-13
already done with ufc-fight-night-110-lewis-vs-hunt-1275
already done with ufc-fight-night-111-holm-vs-correia-1277
already done with ufc-fight-night-112-chiesa-vs-lee-1276
already done with ufc-fight-night-113-nelson-vs-ponzinibbio-1293
already done with ufc-fight-night-114-pettis-vs-moreno-1307
already done with ufc-fight-night-115-volkov-vs-struve-1310
already done with ufc-fight-night-116-rockhold-vs-branch-1343
already done with ufc-fight-night-117-saint-preux-vs-okami-1332
already done with ufc-fight-night-118-cerrone-vs-till-1356
already done with ufc-fight-night-119-machida-vs-brunson-1352
already done with ufc-fight-night-12-swick-vs-burkman-36
already done with ufc-fight-night-120-poirier-vs-pettis-1353
already done with ufc-fight-night-121-werdum-vs-tybura-1354
already done with ufc-fight-night-122-bisping-vs-gastelum-1363
already done with ufc-fight-night-123-swanson-vs-ortega-1386
already done with ufc-fight-night-124-stepkens-vs-choi-1408
already done with ufc-fight-night-125-machida-vs-anders-1418
already done with ufc-fight-night-126-cerrone-vs-medeiros-1412
already done with ufc-fight-night-127-werdum-vs-volkov-1423
already done with ufc-fight-night-128-barboza-vs-lee-1455
already done with ufc-fight-night-129-maia-vs-usman-1468
already done with ufc-fight-night-13-florian-vs-lauzon-44
already done with ufc-fight-night-130-thompson-vs-till-1478
already done with ufc-fight-night-131-rivera-vs-moraes-1467
already done with ufc-fight-night-132-cowboy-vs-edwards-1475
already done with ufc-fight-night-133-dos-santos-vs-ivanov-1504
already done with ufc-fight-night-134-shogun-vs-smith-1507
already done with ufc-fight-night-135-gaethje-vs-vick-1528
already done with ufc-fight-night-136-hunt-vs-oleinik-1539
done with ufc-fight-night-138-volkan-vs-smith-1564
already done with ufc-fight-night-139-korean-zombie-vs-rodriguez-1559
already done with ufc-fight-night-14-silva-vs-irvin-83

already done with ufc-fight-night-140-magny-vs-ponzinibbio-1578
already done with ufc-fight-night-141-blaydes-vs-ngannou-2-1579
already done with ufc-fight-night-142-dos-santos-vs-tuivasa-1574
already done with ufc-fight-night-15-diaz-vs-neer-84
already done with ufc-fight-night-16-fight-for-the-troops-111
already done with ufc-fight-night-17-lauzon-vs-stepkens-123
already done with ufc-fight-night-182-felder-vs-dos-anjos-1981
already done with ufc-fight-night-183-thompson-vs-neal-2000
already done with ufc-fight-night-184-overeem-vs-volkov-2029
already done with ufc-fight-night-185-blaydes-vs-lewis-2035
already done with ufc-fight-night-186-rozenstruik-vs-gane-2039
already done with ufc-fight-night-187-edwards-vs-muhammad-2048
already done with ufc-fight-night-188-font-vs-garbrandt-2085
already done with ufc-fight-night-189-rozenstruik-vs-sakai-2108
already done with ufc-fight-night-190-gane-vs-volkov-2109
already done with ufc-fight-night-191-2213
already done with ufc-fight-night-20-maynard-vs-diaz-224
already done with ufc-fight-night-2010-2428
already done with ufc-fight-night-203-2343
already done with ufc-fight-night-204-2380
already done with ufc-fight-night-205-2376
already done with ufc-fight-night-207-2391
already done with ufc-fight-night-208-2418
already done with ufc-fight-night-21-florian-vs-gomi-246
already done with ufc-fight-night-211-2441
already done with ufc-fight-night-211-2569
already done with ufc-fight-night-212-2579
already done with ufc-fight-night-213-2606
already done with ufc-fight-night-214-2607
already done with ufc-fight-night-214ting-championship-2612
already done with ufc-fight-night-215-2633
already done with ufc-fight-night-217-2632
already done with ufc-fight-night-22-marquardt-vs-palhares-295
already done with ufc-fight-night-23-fight-for-the-troops-ii-342
already done with ufc-fight-night-24-nogueira-vs-davis-354
already done with ufc-fight-night-26-shogun-vs-sonnen-685
already done with ufc-fight-night-27-condit-vs-kampmann-ii-692
already done with ufc-fight-night-28-teixeira-vs-bader-705
already done with ufc-fight-night-29-maia-vs-shields-713
already done with ufc-fight-night-30-machida-vs-munoz-712
already done with ufc-fight-night-31-fight-for-the-troops-iii-726
already done with ufc-fight-night-33-hunt-vs-bigfoot-728
already done with ufc-fight-night-34-saffiedine-vs-lim-761
already done with ufc-fight-night-35-rockhold-vs-philippou-762
already done with ufc-fight-night-36-machida-vs-mousasi-758
already done with ufc-fight-night-37-gustafsson-vs-manuwa-751
already done with ufc-fight-night-38-shogun-vs-henderson-784
already done with ufc-fight-night-39-minotau-ro-vs-nelson-790
already done with ufc-fight-night-40-brown-vs-silva-794
already done with ufc-fight-night-41-munoz-vs-mousasi-799
already done with ufc-fight-night-42-henderson-vs-khabilov-822
already done with ufc-fight-night-43-te-huna-vs-marquardt-823
already done with ufc-fight-night-44-swanson-vs-stepkens-800
already done with ufc-fight-night-46-mcgregor-vs-brandao-827
already done with ufc-fight-night-47-bader-vs-saint-preux-845
already done with ufc-fight-night-48-bisping-vs-le-835
already done with ufc-fight-night-49-henderson-vs-dos-anjos-846
already done with ufc-fight-night-50-souza-vs-mousasi-851
already done with ufc-fight-night-52-hunt-vs-nelson-847
already done with ufc-fight-night-53-nelson-vs-story-860
already done with ufc-fight-night-54-macdonald-vs-saffiedine-861
already done with ufc-fight-night-55-rockhold-vs-bisping-894
already done with ufc-fight-night-57-edgar-vs-swanson-892
already done with ufc-fight-night-58-machida-vs-dollaway-880
already done with ufc-fight-night-59-mcgregor-vs-siver-895
already done with ufc-fight-night-60-henderson-vs-thatch-915
already done with ufc-fight-night-61-bigfoot-vs-mir-923
already done with ufc-fight-night-62-maia-vs-laflare-934
already done with ufc-fight-night-63-mendes-vs-lamas-932
already done with ufc-fight-night-64-gonzaga-vs-cro-cop-ii-936
already done with ufc-fight-night-65-hunt-vs-miocic-950
already done with ufc-fight-night-66-edgar-vs-faber-946

already done with ufc-fight-night-67-alves-vs-condit-957
already done with ufc-fight-night-68-henderson-vs-boetsch-947
already done with ufc-fight-night-69-jedrzejczyk-vs-penne-964
already done with ufc-fight-night-70-machida-vs-romero-973
already done with ufc-fight-night-71-mir-vs-duffee-965
already done with ufc-fight-night-72-bisping-vs-leites-975
already done with ufc-fight-night-73-saint-preux-vs-teixeira-979
already done with ufc-fight-night-74-holloway-vs-oliveira-984
already done with ufc-fight-night-75-nelson-vs-barnett-1003
already done with ufc-fight-night-76-holohan-vs-smolka-976
already done with ufc-fight-night-77-belfort-vs-henderson-3-997
already done with ufc-fight-night-78-magny-vs-gastelum-999
already done with ufc-fight-night-79-henderson-vs-masvidal-1013
already done with ufc-fight-night-80-vanzant-vs-namajunas-1023
already done with ufc-fight-night-81-dillashaw-vs-cruz-1022
already done with ufc-fight-night-82-hendricks-vs-thompson-1056
already done with ufc-fight-night-83-cowboy-vs-cowboy-1057
already done with ufc-fight-night-84-silva-vs-bisping-1052
already done with ufc-fight-night-85-hunt-vs-mir-1062
already done with ufc-fight-night-86-rothwell-vs-dos-santos-1077
already done with ufc-fight-night-87-overeem-vs-arlovski-1088
already done with ufc-fight-night-88-almeida-vs-garbrandt-1104
already done with ufc-fight-night-89-macdonald-vs-thompson-1098
already done with ufc-fight-night-90-dos-anjos-vs-alvarez-1118
already done with ufc-fight-night-91-mcdonald-vs-lineker-1120
already done with ufc-fight-night-92-rodriguez-vs-caceres-1146
already done with ufc-fight-night-93-arlovski-vs-barnett-1139
already done with ufc-fight-night-94-johnson-vs-poirier-1160
already done with ufc-fight-night-95-cyborg-vs-lansberg-1167
already done with ufc-fight-night-96-lineker-vs-dodson-1165
already done with ufc-fight-night-98-dos-anjos-vs-ferguson-1164
already done with ufc-fight-night-99-mousasi-vs-hall-2-1184
already done with ufc-fight-night-blaydes-vs-aspinall-2519
already done with ufc-fight-night-costa-vs-vettori-2203
already done with ufc-fight-night-dern-vs-rodriguez-2173
already done with ufc-fight-night-font-vs-aldo-2259
already done with ufc-fight-night-font-vs-vera-2474
already done with ufc-fight-night-gane-vs-tuivasa-2518
already done with ufc-fight-night-holloway-vs-rodriguez-2224
already done with ufc-fight-night-kattar-vs-emmett-2523
already done with ufc-fight-night-ladd-vs-dumont-2178
already done with ufc-fight-night-lemos-vs-andrade-2435
already done with ufc-fight-night-lewis-vs-daukaus-2286
done with ufc-fight-night-lewis-vs-spivak-2747
already done with ufc-fight-night-santos-vs-walker-2167
already done with ufc-fight-night-smith-vs-spann-2171
already done with ufc-fight-night-ufc-fight-night-206-2412
already done with ufc-fight-night-vera-vs-cruz-2552
already done with ufc-fight-night-vieira-vs-tate-2237
already done with ufc-on-abc-1-holloway-vs-kattar-2009
already done with ufc-on-abc-2-vettori-vs-holland-2061
already done with ufc-on-abc-ortega-vs-rodriguez-2524
already done with ufc-on-espn-1-cejudo-vs-dillashaw-1623
already done with ufc-on-espn-1-ngannou-vs-velasquez-1637
already done with ufc-on-espn-10-dos-anjos-vs-lee-1674
already done with ufc-on-espn-10-eye-vs-calvillo-1898
already done with ufc-on-espn-11-blaydes-vs-volkov-1897
already done with ufc-on-espn-11-gustafsson-vs-smith-1676
already done with ufc-on-espn-12-moicano-vs-the-korean-zombie-1680
already done with ufc-on-espn-12-poirier-vs-hooker-1895
already done with ufc-on-espn-13-de-randamie-vs-ladd-1714
already done with ufc-on-espn-13-kattar-vs-ige-1917
already done with ufc-on-espn-14-shevchenko-vs-carmouche-2-1724
already done with ufc-on-espn-14-whittaker-vs-till-1903
already done with ufc-on-espn-15-andrade-vs-zhang-1733
already done with ufc-on-espn-15-munhoz-vs-edgar-1931
already done with ufc-on-espn-16-cowboy-vs-gaethje-1735
already done with ufc-on-espn-16-holm-vs-aldana-1970
already done with ufc-on-espn-17-rodriguez-vs-stephens-1753
already done with ufc-on-espn-18-hermansson-vs-cannonier-1747
already done with ufc-on-espn-18-smith-vs-clark-1979
already done with ufc-on-espn-19-hermansson-vs-vettori-1982

already done with ufc-on-espn-19-joanna-vs-waterson-1751
already done with ufc-on-espn-2-assuncao-vs-moraes-2-1628
already done with ufc-on-espn-2-barboza-vs-gaethje-1648
already done with ufc-on-espn-20-chiesa-vs-magny-2044
already done with ufc-on-espn-20-maia-vs-askren-1793
already done with ufc-on-espn-21-brunson-vs-holland-2053
already done with ufc-on-espn-21-zabit-vs-kattar-1795
already done with ufc-on-espn-22-blachowicz-vs-jacare-1755
already done with ufc-on-espn-22-whittaker-vs-gastelum-2062
already done with ufc-on-espn-23-edgar-vs-the-korean-zombie-1803
already done with ufc-on-espn-23-reyes-vs-prochazka-2074
already done with ufc-on-espn-24-blaydes-vs-dos-santos-1841
already done with ufc-on-espn-24-rodriguez-vs-waterson-2075
already done with ufc-on-espn-25-anderson-vs-blachowicz-2-1848
already done with ufc-on-espn-26-felder-vs-hooker-1846
already done with ufc-on-espn-27-benavidez-vs-figueiredo-1862
already done with ufc-on-espn-28-lee-vs-oliveira-1847
already done with ufc-on-espn-29-smith-vs-teixeira-1876
already done with ufc-on-espn-3-blachowicz-vs-santos-1638
already done with ufc-on-espn-3-ngannou-vs-dos-santos-1687
already done with ufc-on-espn-30-figueiredo-vs-benavidez-2-1913
already done with ufc-on-espn-31-brunson-vs-shahbazyan-1918
already done with ufc-on-espn-32-lewis-vs-oleinik-1885
already done with ufc-on-espn-33-smith-vs-rakic-1932
already done with ufc-on-espn-34-overeem-vs-sakai-1953
already done with ufc-on-espn-35-waterson-vs-hill-1945
already done with ufc-on-espn-36-covington-vs-woodley-1944
already done with ufc-on-espn-37-moraes-vs-sandhagen-1965
already done with ufc-on-espn-38-ortega-vs-the-korean-zombie-1971
already done with ufc-on-espn-39-hall-vs-silva-1973
already done with ufc-on-espn-4-dos-anjos-vs-edwards-1717
already done with ufc-on-espn-4-lewis-vs-dos-santos-1639
already done with ufc-on-espn-40-santos-vs-teixeira-1974
already done with ufc-on-espn-5-covington-vs-lawler-1734
already done with ufc-on-espn-5-till-vs-masvidal-1626
already done with ufc-on-espn-6-reyes-vs-weidman-1764
already done with ufc-on-espn-6-thompson-vs-pettis-1654
already done with ufc-on-espn-7-overeem-vs-oleinik-1673
already done with ufc-on-espn-7-overeem-vs-rozenstruik-1785
already done with ufc-on-espn-8-jacare-vs-hermansson-1657
already done with ufc-on-espn-8-overeem-vs-harris-1908
already done with ufc-on-espn-9-iaquinta-vs-cowboy-1672
already done with ufc-on-espn-9-woodley-vs-burns-1910
already done with ufc-on-espn-barboza-vs-chikadze-2251
already done with ufc-on-espn-cannonier-vs-gastelum-2166
already done with ufc-on-espn-dos-anjos-vs-fiziev-2501
already done with ufc-on-espn-hall-vs-strickland-2165
already done with ufc-on-espn-makhachev-vs-moises-2139
already done with ufc-on-espn-sandhagen-vs-dillashaw-2137
already done with ufc-on-espn-santos-vs-hill-2534
already done with ufc-on-espn-the-korean-zombie-vs-ige-2130
already done with ufc-on-espn-tsarukyan-vs-gamrot-2574
already done with ufc-on-fox-1-velasquez-vs-dos-santos-442
already done with ufc-on-fox-10-henderson-vs-thomson-777
already done with ufc-on-fox-11-werdum-vs-browne-779
already done with ufc-on-fox-12-lawler-vs-brown-829
already done with ufc-on-fox-13-dos-santos-vs-miocic-879
already done with ufc-on-fox-14-gustafsson-vs-johnson-906
already done with ufc-on-fox-15-machida-vs-rockhold-927
already done with ufc-on-fox-17-dos-anjos-vs-cerrone-1008
already done with ufc-on-fox-18-johnson-vs-bader-1038
already done with ufc-on-fox-19-evans-vs-teixeira-1073
already done with ufc-on-fox-2-482
already done with ufc-on-fox-20-holm-vs-shevchenko-1114
already done with ufc-on-fox-21-maia-vs-condit-1150
already done with ufc-on-fox-22-vanzant-vs-waterson-1207
already done with ufc-on-fox-23-shevchenko-vs-pena-1225
already done with ufc-on-fox-24-johnson-vs-reis-1259
already done with ufc-on-fox-25-weidman-vs-gastelum-1292
already done with ufc-on-fox-26-lawler-vs-dos-anjos-1365
already done with ufc-on-fox-27-jacare-vs-brunson-2-1413
already done with ufc-on-fox-28-stephens-vs-emmett-1425

already done with ufc-on-fox-29-poirier-vs-gaethje-1446
already done with ufc-on-fox-3-diaz-vs-miller-496
already done with ufc-on-fox-30-alvarez-vs-poirier-2-1502
already done with ufc-on-fox-31-lee-vs-iaquinta-2-1587
already done with ufc-on-fox-4-shogun-vs-vera-546
already done with ufc-on-fox-5-henderson-vs-diaz-584
already done with ufc-on-fox-6-johnson-vs-dodson-613
already done with ufc-on-fox-7-henderson-vs-melendez-634
already done with ufc-on-fox-8-johnson-vs-moraga-674
already done with ufc-on-fox-9-johnson-vs-benavidez-729
already done with ufc-on-fuel-tv-1-ellenberger-vs-sanchez-485
already done with ufc-on-fuel-tv-10-nogueira-vs-werdum-2-668
already done with ufc-on-fuel-tv-2-gustafsson-vs-silva-493
already done with ufc-on-fuel-tv-3-korean-zombie-vs-poirier-499
already done with ufc-on-fuel-tv-4-munoz-vs-weidman-545
already done with ufc-on-fuel-tv-5-struve-vs-miocic-569
already done with ufc-on-fuel-tv-6-franklin-vs-le-582
already done with ufc-on-fuel-tv-7-barao-vs-mcdonald-632
already done with ufc-on-fuel-tv-8-silva-vs-stann-625
already done with ufc-on-fuel-tv-9-mousasi-vs-latifi-636
already done with ufc-on-fx-1-guillard-vs-miller-479
already done with ufc-on-fx-2-alves-vs-kampmann-487
already done with ufc-on-fx-3-johnson-vs-mccall-522
already done with ufc-on-fx-4-guida-vs-maynard-521
already done with ufc-on-fx-5-browne-vs-bigfoot-579
already done with ufc-on-fx-6-sotiropoulos-vs-pearson-594
already done with ufc-on-fx-7-belfort-vs-bisping-612
already done with ufc-on-fx-8-belfort-vs-rockhold-648
already done with ufc-on-versus-1-vera-vs-jones-242
already done with ufc-on-versus-2-281
already done with ufc-on-versus-3-sanchez-vs-kampmann-351
already done with ufc-on-versus-4-379
already done with ufc-on-versus-5-hardy-vs-lytle-399
already done with ufc-on-versus-6-cruz-vs-johnson-429
already done with ufc-vegas-47-2430
already done with ufc-vegas-57-2489

already done with 488 events
newly done with 4 events
failed on 0 events

In [35]:

```
# aggregate all odds changes into one dataframe
all_odds_changes = []

for file in os.listdir('data/final/odds/odds_changes/'):
    df = pd.read_csv('data/final/odds/odds_changes/' + file)
    # append
    all_odds_changes.append(df)

all_odds_changes = pd.concat(all_odds_changes)

print(all_odds_changes.shape)
all_odds_changes
```

(11423, 4)

Out[35]:

	names	odds_changes	event	event_url
0	Deron Winn	-61%	GOLDEN BOY MMA: LIDDELL VS. ORTIZ 3	https://www.bestfightodds.com/events/golden-bo...
1	Chuck Liddell	-30%	GOLDEN BOY MMA: LIDDELL VS. ORTIZ 3	https://www.bestfightodds.com/events/golden-bo...
2	Gleison Tibau	-28%	GOLDEN BOY MMA: LIDDELL VS. ORTIZ 3	https://www.bestfightodds.com/events/golden-bo...
3	Ricardo Palacios	-14%	GOLDEN BOY MMA: LIDDELL VS. ORTIZ 3	https://www.bestfightodds.com/events/golden-bo...

4	<div>names Kenneth Bergh</div>	<div>odds_changes +3%</div>	<div>GOLDEN BOY MMA: LIDDELL vs ORTIZ 3</div>	<div>event_id 57-2489</div>	<div>event_name https://www.bestfightodds.com/events/ufc-vegas-57-2489</div>
...
19	Daniel Santos	+34%	UFC VEGAS 57	https://www.bestfightodds.com/events/ufc-vegas-57-2489	https://www.bestfightodds.com/events/ufc-vegas-57-2489
20	Brendan Allen	+35%	UFC VEGAS 57	https://www.bestfightodds.com/events/ufc-vegas-57-2489	https://www.bestfightodds.com/events/ufc-vegas-57-2489
21	Mike Davis	+55%	UFC VEGAS 57	https://www.bestfightodds.com/events/ufc-vegas-57-2489	https://www.bestfightodds.com/events/ufc-vegas-57-2489
22	Philipe Lins	+60%	UFC VEGAS 57	https://www.bestfightodds.com/events/ufc-vegas-57-2489	https://www.bestfightodds.com/events/ufc-vegas-57-2489
23	Don Shainis	+61%	UFC VEGAS 57	https://www.bestfightodds.com/events/ufc-vegas-57-2489	https://www.bestfightodds.com/events/ufc-vegas-57-2489

11423 rows x 4 columns

In [36]:

```
all_odds_changes.to_csv('data/final/aggregates/All_Odds_Changes_V1.csv', index=False)
```

Edit Event_odds

Get rid of alternate lines

In [37]:

```
all_event_odds = pd.read_csv('data/final/odds/All_Odds_by_Fighter_V2.csv')
all_event_odds
```

Out[37]:

	fighter	5D	Ref	event_odds_url	event_ufcstats_url	event_id	event_name
0	Brock Lesnar	- 225.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100
1	Frank Mir	205.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100
2	Georges St-Pierre	- 275.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100
3	Thiago Alves	250.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100
4	Dan Henderson	- 200.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100
...
177994	Fight ends in TKO/KO/DQ in round 3	NaN	NaN	https://www.bestfightodds.com/events/ufc-vegas-57-2489	http://ufcstats.com/event-details/4f670b7972fa...	ufc-vegas-57-2489	UFC Fight Night: Dern vs. Yan
177995	Fight ends in submission in round 1	NaN	NaN	https://www.bestfightodds.com/events/ufc-vegas-57-2489	http://ufcstats.com/event-details/4f670b7972fa...	ufc-vegas-57-2489	UFC Fight Night: Dern vs. Yan
177996	Fight ends in submission in round 2	NaN	NaN	https://www.bestfightodds.com/events/ufc-vegas-57-2489	http://ufcstats.com/event-details/4f670b7972fa...	ufc-vegas-57-2489	UFC Fight Night: Dern vs. Yan
177997	Fight ends in submission in round 3	NaN	NaN	https://www.bestfightodds.com/events/ufc-vegas-57-2489	http://ufcstats.com/event-details/4f670b7972fa...	ufc-vegas-57-2489	UFC Fight Night: Dern vs. Yan
	Either fighter gets...			https://www.bestfightodds.com/events/ufc-vegas-57-2489	http://ufcstats.com/event-	ufc-	UFC Fight

177999 rows × 7 columns



In [38]:

```
all_options = all_event_odds['fighter'].value_counts()
all_options = pd.DataFrame(all_options)
all_options.reset_index(inplace=True)
delete_options = all_options.head(120)
delete_options
```

Out[38]:

	index	fighter
0	Fight is not a draw	4643
1	Fight is a draw	4643
2	Fight starts round 3	4313
3	Fight won't start round 3	4313
4	Fight won't start round 2	4301
...
115	Johnson wins in round 3	58
116	Johnson wins in round 2	58
117	Johnson wins in round 1	57
118	Oliveira (scorecards = no action)	51
119	Rodriguez wins by submission	50

120 rows × 2 columns

In [39]:

```
delete_options_list = delete_options['index'].tolist()
```

In [40]:

```
# delete rows when fighter is in delete_options_list
all_event_odds = all_event_odds[~all_event_odds['fighter'].isin(delete_options_list)]
all_event_odds.head(2)
```

Out[40]:

	fighter	5D	Ref	event_odds_url	event_ufcstats_url	event_id	event_name
0	Brock Lesnar	- 225.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100
1	Frank Mir	205.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100

In [41]:

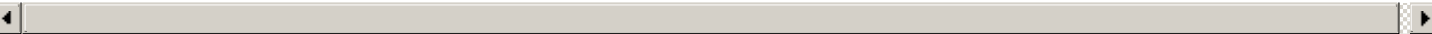
```
# delete any rows where fighter has more than 3 words
all_event_odds = all_event_odds[~all_event_odds['fighter'].str.contains('round')]
all_event_odds = all_event_odds[~all_event_odds['fighter'].str.contains('decision')]
all_event_odds = all_event_odds[~all_event_odds['fighter'].str.contains('submission')]
all_event_odds = all_event_odds[~all_event_odds['fighter'].str.contains('knockout')]
all_event_odds = all_event_odds[~all_event_odds['fighter'].str.contains('draw')]
all_event_odds = all_event_odds[~all_event_odds['fighter'].str.contains('scorecards')]
all_event_odds = all_event_odds[~all_event_odds['fighter'].str.contains('majority')]
all_event_odds = all_event_odds[~all_event_odds['fighter'].str.contains('Not')]
all_event_odds = all_event_odds[~all_event_odds['fighter'].str.contains('wins')]
```

```
all_event_odds = all_event_odds[~all_event_odds['fighter'].str.contains('losses')]
all_event_odds
```

Out[41]:

	fighter	5D	Ref	event_odds_url	event_ufcstats_url	event_id	event_name
0	Brock Lesnar	- 225.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100
1	Frank Mir	205.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100
2	Georges St-Pierre	- 275.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100
3	Thiago Alves	250.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100
4	Dan Henderson	- 200.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100
...
177793	Krzysztof Jotko	NaN 124.0	-	https://www.bestfightodds.com/events/ufc-vegas...	http://ufcstats.com/event-details/4f670b7972fa...	ufc-vegas-57-2489	UFC Fight Night: Dern vs. Yan
177861	Chelsea Chandler	NaN 113.0	-	https://www.bestfightodds.com/events/ufc-vegas...	http://ufcstats.com/event-details/4f670b7972fa...	ufc-vegas-57-2489	UFC Fight Night: Dern vs. Yan
177862	Julija Stoliarenko	NaN 133.0	-	https://www.bestfightodds.com/events/ufc-vegas...	http://ufcstats.com/event-details/4f670b7972fa...	ufc-vegas-57-2489	UFC Fight Night: Dern vs. Yan
177930	Guido Cannetti	NaN 250.0	-	https://www.bestfightodds.com/events/ufc-vegas...	http://ufcstats.com/event-details/4f670b7972fa...	ufc-vegas-57-2489	UFC Fight Night: Dern vs. Yan
177931	Randy Costa	NaN 300.0	-	https://www.bestfightodds.com/events/ufc-vegas...	http://ufcstats.com/event-details/4f670b7972fa...	ufc-vegas-57-2489	UFC Fight Night: Dern vs. Yan

22954 rows x 7 columns



Add Odds Change to Odds

In [42]:

```
def get_odds_change_from_db(event_odds_url, fighter):

    # get the odds change from the all_odds_changes dataframe

    try:
        odds_change = all_odds_changes[(all_odds_changes['event_url'] == event_odds_url)
& (all_odds_changes['names'] == fighter)][['odds_changes']].values[0]
        return odds_change
    except:
        return np.nan
```

In [43]:

```
# test
get_odds_change_from_db('https://www.bestfightodds.com/events/ufc-100-137', 'Brock Lesnar
')
```

Out[43]:

'-31%'

In [44]:

```
all_event_odds['odds change'] = all_event_odds.apply(lambda row: get_odds_change_from_db(
```

```
row['event_odds_url'], row['fighter']], axis=1)
all_event_odds
```

Out[44]:

	fighter	5D	Ref	event_odds_url	event_ufcstats_url	event_id	event_name
0	Brock Lesnar	- 225.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100
1	Frank Mir	205.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100
2	Georges St-Pierre	- 275.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100
3	Thiago Alves	250.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100
4	Dan Henderson	- 200.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100
...
177793	Krzysztof Jotko	NaN	- 124.0	https://www.bestfightodds.com/events/ufc-vegas...	http://ufcstats.com/event-details/4f670b7972fa...	ufc-vegas-57-2489	UFC Fight Night: Dern vs. Yan
177861	Chelsea Chandler	NaN	113.0	https://www.bestfightodds.com/events/ufc-vegas...	http://ufcstats.com/event-details/4f670b7972fa...	ufc-vegas-57-2489	UFC Fight Night: Dern vs. Yan
177862	Julija Stoliarenko	NaN	- 133.0	https://www.bestfightodds.com/events/ufc-vegas...	http://ufcstats.com/event-details/4f670b7972fa...	ufc-vegas-57-2489	UFC Fight Night: Dern vs. Yan
177930	Guido Cannetti	NaN	250.0	https://www.bestfightodds.com/events/ufc-vegas...	http://ufcstats.com/event-details/4f670b7972fa...	ufc-vegas-57-2489	UFC Fight Night: Dern vs. Yan
177931	Randy Costa	NaN	- 300.0	https://www.bestfightodds.com/events/ufc-vegas...	http://ufcstats.com/event-details/4f670b7972fa...	ufc-vegas-57-2489	UFC Fight Night: Dern vs. Yan

22954 rows x 8 columns

In [45]:

```
# get rid of %
all_event_odds['odds_change'] = all_event_odds['odds_change'].str.replace('%', '')
# turn into float
all_event_odds['odds_change'] = all_event_odds['odds_change'].astype(float)
all_event_odds.head(3)
```

Out[45]:

	fighter	5D	Ref	event_odds_url	event_ufcstats_url	event_id	event_name	odds_ch
0	Brock Lesnar	- 225.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100	
1	Frank Mir	205.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100	
2	Georges St-Pierre	- 275.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100	

In [46]:

```
# save to csv
all_event_odds.to_csv('data/final/odds/All_Odds_by_Fighter_WithChange.csv', index=False)
```

Scraping UFC Stats

Initial Scraping Functions

In [47]:

```
def get_event_date_from_ufcstats(url):
    page = requests.get(url)
    soup = BeautifulSoup(page.content, 'html.parser')
    date = soup.find('li', class_='b-list__box-list-item').text
    date = date.replace('\n', '')
    ed = date.find(':')
    date = date[ed+2:].strip()
    return date
```

In [48]:

```
get_event_date_from_ufcstats('http://www.ufcstats.com/event-details/93bf96be327fcd98')
```

Out[48]:

'September 10, 2022'

In [49]:

```
def get_details_from_ufcstats(url):
    page = requests.get(url)
    soup = BeautifulSoup(page.content, 'html.parser')
    details = soup.find('div', class_='b-fight-details__content').text
    details = details.replace('\n', '')
    deet = details.find('Details:')
    details = details[deet+8:].strip()
    return details
```

In [50]:

```
get_details_from_ufcstats('http://www.ufcstats.com/fight-details/7e8fd03e070d0c25')
```

Out[50]:

'Guillotine Choke From Bottom Guard'

In [51]:

```
def get_event_title_from_ufcstats(url):
    page = requests.get(url)
    soup = BeautifulSoup(page.content, 'html.parser')
    title = soup.find('h2', class_='b-content__title').text
    title = title.replace('\n', '').strip()
    return title
```

In [52]:

```
get_event_title_from_ufcstats('http://www.ufcstats.com/fight-details/7e8fd03e070d0c25')
```

Out[52]:

'UFC 279: Diaz vs. Ferguson'

In [53]:

```
def get_event_url_from_ufcstats(url):
    page = requests.get(url)
    soup = BeautifulSoup(page.content, 'html.parser')
    title = soup.find('h2', class_='b-content__title')
    title = title.find('a')
    title = title['href']
    return title
```

In [54]:

```
get_event_url_from_ufcstats('http://www.ufcstats.com/fight-details/7e8fd03e070d0c25')
```

```
Out[54]:
```

```
'http://www.ufcstats.com/event-details/93bf96be327fcd98'
```

```
In [55]:
```

```
def get_fight_urls(urls):  
  
    # get links to all fights on each event page  
  
    links = pd.DataFrame()  
    for u in urls:  
        try:  
            reqs = requests.get(u)  
            soup = BeautifulSoup(reqs.text, 'html.parser')  
            title = soup.find('h2', class_='b-content__title').text  
            title = title.replace('\n', '')  
            date = soup.find('li', class_='b-list__box-list-item').text  
            d = date.find('Date:')  
            date = date[d+6:].replace('\n', '')  
            for link in soup.find_all('a'):  
                # append url and event title to df  
                if 'fight-details' in link.get('href'):  
                    links = links.append({'Fight_url': link.get('href'), 'Event_title':  
title, 'Date' : date}, ignore_index=True)  
  
        except:  
            return 'No Fighties'  
  
    return links
```

```
In [56]:
```

```
# test get_fight_urls  
get_fight_urls(['http://www.ufcstats.com/event-details/93bf96be327fcd98'])
```

```
Out[56]:
```

	Fight_url	Event_title	Date
0	http://www.ufcstats.com/fight-details/7e8fd03e...	UFC 279: Diaz vs. Ferguson ...	September 10, 2022
1	http://www.ufcstats.com/fight-details/0111e6a6...	UFC 279: Diaz vs. Ferguson ...	September 10, 2022
2	http://www.ufcstats.com/fight-details/d3e23d7d...	UFC 279: Diaz vs. Ferguson ...	September 10, 2022
3	http://www.ufcstats.com/fight-details/989b8d36...	UFC 279: Diaz vs. Ferguson ...	September 10, 2022
4	http://www.ufcstats.com/fight-details/d869eaea...	UFC 279: Diaz vs. Ferguson ...	September 10, 2022
5	http://www.ufcstats.com/fight-details/0e6d6240...	UFC 279: Diaz vs. Ferguson ...	September 10, 2022
6	http://www.ufcstats.com/fight-details/301f230c...	UFC 279: Diaz vs. Ferguson ...	September 10, 2022
7	http://www.ufcstats.com/fight-details/77acb967...	UFC 279: Diaz vs. Ferguson ...	September 10, 2022
8	http://www.ufcstats.com/fight-details/bf334cb4...	UFC 279: Diaz vs. Ferguson ...	September 10, 2022
9	http://www.ufcstats.com/fight-details/db3e26d0...	UFC 279: Diaz vs. Ferguson ...	September 10, 2022
10	http://www.ufcstats.com/fight-details/6010f681...	UFC 279: Diaz vs. Ferguson ...	September 10, 2022
11	http://www.ufcstats.com/fight-details/a5cf273f...	UFC 279: Diaz vs. Ferguson ...	September 10, 2022

In [57]:

```
def get_winner_from_ufcstats(url):

    ### This function scrapes the UFCStats website for the winner of a given fight###

    try:
        page = requests.get(url)
        soup = BeautifulSoup(page.content, 'html.parser')
        both = soup.find_all('div', class_='b-fight-details__person')
        first = both[0].text.replace(' ', '').replace('\n', '').strip()
        second = both[1].text.replace(' ', '').replace('\n', '').strip()
        if first.startswith('W'):
            winner = first[3:]
        else:
            winner = second[3:]
        return winner

    except:
        return nan
```

In [58]:

```
# test
get_winner_from_ufcstats('http://www.ufcstats.com/fight-details/7e8fd03e070d0c25')
```

Out[58]:

'Nate Diaz'

In [59]:

```
def get_event_date_from_ufcstats(url):

    ### This function scrapes the UFCStats website for the event date of a given fight ##
    #

    try:
        page = requests.get(url)
        soup = BeautifulSoup(page.content, 'html.parser')
        date = soup.find('li', class_='b-list__box-list-item').text
        date = date.replace('\n', '')
        ed = date.find(':')
        date = date[ed+2:].strip()
        return date

    except:
        return nan
```

In [60]:

```
def get_event_details(event_id):

    # This function scrapes event details from ufc stats

    #try:
        df = pd.read_html('http://www.ufcstats.com/event-details/' + event_id)
        df = df[0]
        # split by space and get third element
        df['Fighter1'] = df['Fighter'].str.split(' ').str[0]
        df['Fighter2'] = df['Fighter'].str.split(' ').str[1]
        # fix Kd
        df['F1_Kd'] = df['Kd'].str.split(' ').str[0]
        df['F2_Kd'] = df['Kd'].str.split(' ').str[1]
        # fix Str
        df['F1_Str'] = df['Str'].str.split(' ').str[0]
        df['F2_Str'] = df['Str'].str.split(' ').str[1]
        # fix Td
        df['F1_Td'] = df['Td'].str.split(' ').str[0]
        df['F2_Td'] = df['Td'].str.split(' ').str[1]
        # fix Sub
        df['F1_Sub'] = df['Sub'].str.split(' ').str[0]
```

```

df['F2_Sub'] = df['Sub'].str.split(' ').str[1]

badcols = ['Fighter', 'Kd', 'Str', 'Td', 'Sub']

# save index+1 to new column called "fight_num"
df['fight_num'] = df.index + 1
df['event_id'] = event_id

# get fight links
page = requests.get('http://www.ufcstats.com/event-details/' + event_id)
soup = BeautifulSoup(page.content, 'html.parser')
fight_linkies = soup.find_all('a')
fight_links = [n['href'] for n in fight_linkies]
fight_links = [n for n in fight_links if 'fight-details' in n]
# delete duplicate links
fight_links2 = pd.DataFrame(fight_links)
fight_links2 = fight_links2.drop_duplicates()
fight_links = fight_links2[0].tolist()

# append fight links to df
df['fight_link'] = fight_links

df = df.drop(badcols, axis=1)
df.to_csv('data/ufc_stats/events2/' + event_id + '.csv')
return df

```

In [61]:

```

def get_fight_totals(fight_details_url):
    # function returns the fight totals for a given fightid
    da_url = fight_details_url
    fightid = da_url[da_url.find('fight-details/')+14:]
    df = pd.read_html(da_url)
    # Part 1: Total Fight Stats
    totals = df[0]
    # replace '---' with 0
    for col in totals.columns:
        totals[col] = totals[col].astype(str).replace({'---': 0})
        totals[col] = totals[col].astype(str).replace({'--': 0})

    totals['Fighter_A'] = totals['Fighter'].str.split(' ').str[0] + ' ' + totals['Fighter']
    totals['Fighter_B'] = totals['Fighter'].str.split(' ').str[2] + ' ' + totals['Fighter']
    totals['A_Kd'] = totals['KD'].str.split(' ').str[0]
    totals['B_Kd'] = totals['KD'].str.split(' ').str[1]
    totals['A_Sig_strike'] = totals['Sig. str.'].str.split(' ').str[0]
    totals['B_Sig_strike'] = totals['Sig. str.'].str.split(' ').str[1]
    # split sig strikes into landed and attempted
    totals['A_Sig_strike_land'] = totals['A_Sig_strike'].str.split(' of ').str[0]
    totals['A_Sig_strike_att'] = totals['A_Sig_strike'].str.split(' of ').str[1]
    totals['B_Sig_strike_land'] = totals['B_Sig_strike'].str.split(' of ').str[0]
    totals['B_Sig_strike_att'] = totals['B_Sig_strike'].str.split(' of ').str[1]
    # change to numeric
    totals['A_Sig_strike_land'].replace({'---', 0}, inplace=True)
    totals['A_Sig_strike_att'].replace({'---', 0}, inplace=True)
    totals['B_Sig_strike_land'].replace({'---', 0}, inplace=True)
    totals['B_Sig_strike_att'].replace({'---', 0}, inplace=True)

    totals['A_Sig_strike_land'] = pd.to_numeric(totals['A_Sig_strike_land'])
    totals['A_Sig_strike_att'] = pd.to_numeric(totals['A_Sig_strike_att'])
    totals['B_Sig_strike_land'] = pd.to_numeric(totals['B_Sig_strike_land'])
    totals['B_Sig_strike_att'] = pd.to_numeric(totals['B_Sig_strike_att'])

    totals['A_Sig_strike_percent'] = totals['Sig. str. %'].str.split(' ').str[0]
    totals['B_Sig_strike_percent'] = totals['Sig. str. %'].str.split(' ').str[1]
    # get rid of % sign
    totals['A_Sig_strike_percent'] = totals['A_Sig_strike_percent'].str.replace('%', '')
    totals['B_Sig_strike_percent'] = totals['B_Sig_strike_percent'].str.replace('%', '')

```



```

totals['A_Sig_strike_percent'] = totals['A_Sig_strike_percent'].astype(str).replace(
{'---': 0})
totals['B_Sig_strike_percent'] = totals['B_Sig_strike_percent'].astype(str).replace(
{'---': 0})
# change to numeric
totals['A_Sig_strike_percent'] = pd.to_numeric(totals['A_Sig_strike_percent'])/100
totals['B_Sig_strike_percent'] = pd.to_numeric(totals['B_Sig_strike_percent'])/100
# total strikes
totals['A_Total_Strikes'] = totals['Total str.'].str.split(' ').str[0]
totals['B_Total_Strikes'] = totals['Total str.'].str.split(' ').str[1]
# split total strikes into landed and attempted
totals['A_Total_Strikes_land'] = totals['A_Total_Strikes'].str.split(' of ').str[0]
totals['A_Total_Strikes_att'] = totals['A_Total_Strikes'].str.split(' of ').str[1]
totals['B_Total_Strikes_land'] = totals['B_Total_Strikes'].str.split(' of ').str[0]
totals['B_Total_Strikes_att'] = totals['B_Total_Strikes'].str.split(' of ').str[1]

totals['A_Total_Strikes_land'].replace({'---',0}, inplace=True)
totals['A_Total_Strikes_att'].replace({'---',0}, inplace=True)
totals['B_Total_Strikes_land'].replace({'---',0}, inplace=True)
totals['B_Total_Strikes_att'].replace({'---',0}, inplace=True)
# change to numeric
totals['A_Total_Strikes_land'] = pd.to_numeric(totals['A_Total_Strikes_land'])
totals['A_Total_Strikes_att'] = pd.to_numeric(totals['A_Total_Strikes_att'])
totals['B_Total_Strikes_land'] = pd.to_numeric(totals['B_Total_Strikes_land'])
totals['B_Total_Strikes_att'] = pd.to_numeric(totals['B_Total_Strikes_att'])

totals['A_Total_Strikes_land'].astype(str).replace({'---',0}, inplace=True)
totals['A_Total_Strikes_att'].astype(str).replace({'---',0}, inplace=True)
totals['B_Total_Strikes_land'].astype(str).replace({'---',0}, inplace=True)
totals['B_Total_Strikes_att'].astype(str).replace({'---',0}, inplace=True)

# calculate total strike percentage
totals['A_Total_Strikes_percent'] = totals['A_Total_Strikes_land'] / totals['A_Total
_Strikes_att']
totals['B_Total_Strikes_percent'] = totals['B_Total_Strikes_land'] / totals['B_Total
_Strikes_att']
# takedown stats
totals['A_Takedowns'] = totals['Td'].str.split(' ').str[0]
totals['B_Takedowns'] = totals['Td'].str.split(' ').str[1]
# split takedowns into landed and attempted
totals['A_Takedowns_land'] = totals['A_Takedowns'].str.split(' of ').str[0]
totals['A_Takedowns_att'] = totals['A_Takedowns'].str.split(' of ').str[1]
totals['B_Takedowns_land'] = totals['B_Takedowns'].str.split(' of ').str[0]
totals['B_Takedowns_att'] = totals['B_Takedowns'].str.split(' of ').str[1]
# change to numeric
totals['A_Takedowns_land'] = pd.to_numeric(totals['A_Takedowns_land'])
totals['A_Takedowns_att'] = pd.to_numeric(totals['A_Takedowns_att'])
totals['B_Takedowns_land'] = pd.to_numeric(totals['B_Takedowns_land'])
totals['B_Takedowns_att'] = pd.to_numeric(totals['B_Takedowns_att'])
# fix %
totals['Td %'].replace({'---': 0}, inplace=True)
# get rid of ---
totals['A_Takedowns_land'].replace({'---': 0}, inplace=True)
totals['A_Takedowns_att'].replace({'---': 0}, inplace=True)
totals['B_Takedowns_land'].replace({'---': 0}, inplace=True)
totals['B_Takedowns_att'].replace({'---': 0}, inplace=True)
totals['A_Takedown_percent'] = totals['A_Takedowns_land'] / totals['A_Takedowns_att']
]
totals['B_Takedown_percent'] = totals['B_Takedowns_land'] / totals['B_Takedowns_att']
]

# submission attempts
totals['A_Sub_Attempts'] = totals['Sub. att'].str.split(' ').str[0]
totals['B_Sub_Attempts'] = totals['Sub. att'].str.split(' ').str[1]
# split submission attempts into landed and attempted
totals['A_Sub_Attempts_land'] = totals['A_Sub_Attempts'].str.split(' of ').str[0]
totals['A_Sub_Attempts_att'] = totals['A_Sub_Attempts'].str.split(' of ').str[1]
totals['B_Sub_Attempts_land'] = totals['B_Sub_Attempts'].str.split(' of ').str[0]
totals['B_Sub_Attempts_att'] = totals['B_Sub_Attempts'].str.split(' of ').str[1]
# change to numeric
totals['A_Sub_Attempts_land'] = pd.to_numeric(totals['A_Sub_Attempts_land'])
totals['A_Sub_Attempts_att'] = pd.to_numeric(totals['A_Sub_Attempts_att'])
totals['B_Sub_Attempts_land'] = pd.to_numeric(totals['B_Sub_Attempts_land'])

```

```

totals['B_Sub_Attempts_att'] = pd.to_numeric(totals['B_Sub_Attempts_att'])
# Rev
totals['A_Rev'] = totals['Rev.'].str.split(' ').str[0]
totals['B_Rev'] = totals['Rev.'].str.split(' ').str[1]
# change to numeric
totals['A_Rev'] = pd.to_numeric(totals['A_Rev'])
totals['B_Rev'] = pd.to_numeric(totals['B_Rev'])
# control time
totals['A_Ctrl_time'] = totals['Ctrl'].str.split(' ').str[0]
totals['B_Ctrl_time'] = totals['Ctrl'].str.split(' ').str[1]

# split control time into minutes and seconds, and then convert to seconds
totals['A_Ctrl_time_min'] = totals['A_Ctrl_time'].str.split(':').str[0]
totals['A_Ctrl_time_sec'] = totals['A_Ctrl_time'].str.split(':').str[1]
totals['B_Ctrl_time_min'] = totals['B_Ctrl_time'].str.split(':').str[0]
totals['B_Ctrl_time_sec'] = totals['B_Ctrl_time'].str.split(':').str[1]

totals['A_Ctrl_time_min'] = totals['A_Ctrl_time_min'].replace({'--': 0})
totals['A_Ctrl_time_sec'] = totals['A_Ctrl_time_sec'].replace({'--': 0})
totals['B_Ctrl_time_min'] = totals['B_Ctrl_time_min'].replace({'--': 0})
totals['B_Ctrl_time_sec'] = totals['B_Ctrl_time_sec'].replace({'--': 0})

# convert to seconds
totals['A_Ctrl_time_tot'] = pd.to_numeric(totals['A_Ctrl_time_min']) * 60 + pd.to_nu
meric(totals['A_Ctrl_time_sec'])
totals['B_Ctrl_time_tot'] = pd.to_numeric(totals['B_Ctrl_time_min']) * 60 + pd.to_nu
meric(totals['B_Ctrl_time_sec'])

# add date with beatufil soup
totals['details'] = get_details_from UFCstats(da_url)
totals['event_title'] = get_event_title_from UFCstats(da_url)
event_url = get_event_url_from UFCstats(da_url)
totals['event_url'] = event_url
totals['date'] = get_event_date_from UFCstats(event_url)

try:
    totals['Winner'] = get_winner_from UFCstats(da_url)
except:
    totals['Winner'] = nan

bad_cols = ['Fighter', 'KD', 'Sig. str. %', 'Sig. str.', 'Total str.', 'Td', 'Td %',
'Sub. att',
            'Rev.', 'Ctrl', 'A_Sig_strike', 'B_Sig_strike', 'A_Takedowns', 'B_Takedo
wns',
            'A_Sub_Attempts', 'B_Sub_Attempts', 'A_Ctrl_time', 'B_Ctrl_time']
totals.drop(columns=bad_cols, inplace=True)
totals.to_csv('data/ufc_stats/fight_totals2/' + fightid + '_totals.csv')
return totals

```

In [62]:

```

# test
get_fight_totals('http://www.ufcstats.com/fight-details/a419e6df765aa755')

```

Out[62]:

	Fighter_A	Fighter_B	A_Kd	B_Kd	A_Sig_strike_land	A_Sig_strike_att	B_Sig_strike_land	B_Sig_strike_att	A_Sig_strike_per
0	Stephen Thompson	Kevin Holland	0	0	163	260	119	210	

1 rows x 41 columns

In [63]:

```

def get_significant_strikes(url):

```

```

def get_significant_strikes(url):
    df = pd.read_html(url)
    # Part 2: Significant Strikes
    ss = df[2]

    ss['Fighter_A'] = ss['Fighter'].str.split(' ').str[0] + ' ' + ss['Fighter'].str.spli
t(' ').str[1]
    ss['Fighter_B'] = ss['Fighter'].str.split(' ').str[2] + ' ' + ss['Fighter'].str.spli
t(' ').str[3]
    ss['A_Head_Strikes'] = ss['Head'].str.split(' ').str[0]
    ss['B_Head_Strikes'] = ss['Head'].str.split(' ').str[1]
    # split head strikes into landed and attempted
    ss['A_Head_Strikes_land'] = ss['A_Head_Strikes'].str.split(' of ').str[0]
    ss['A_Head_Strikes_att'] = ss['A_Head_Strikes'].str.split(' of ').str[1]
    ss['B_Head_Strikes_land'] = ss['B_Head_Strikes'].str.split(' of ').str[0]
    ss['B_Head_Strikes_att'] = ss['B_Head_Strikes'].str.split(' of ').str[1]
    # change to numeric
    ss['A_Head_Strikes_land'] = pd.to_numeric(ss['A_Head_Strikes_land'])
    ss['A_Head_Strikes_att'] = pd.to_numeric(ss['A_Head_Strikes_att'])
    ss['B_Head_Strikes_land'] = pd.to_numeric(ss['B_Head_Strikes_land'])
    ss['B_Head_Strikes_att'] = pd.to_numeric(ss['B_Head_Strikes_att'])
    # Head Strikes Percentage
    ss['A_Head_Strikes_percent'] = ss['A_Head_Strikes_land'] / ss['A_Head_Strikes_att']
    ss['B_Head_Strikes_percent'] = ss['B_Head_Strikes_land'] / ss['B_Head_Strikes_att']
    # Body Strikes
    ss['A_Body_Strikes'] = ss['Body'].str.split(' ').str[0]
    ss['B_Body_Strikes'] = ss['Body'].str.split(' ').str[1]
    # split body strikes into landed and attempted
    ss['A_Body_Strikes_land'] = ss['A_Body_Strikes'].str.split(' of ').str[0]
    ss['A_Body_Strikes_att'] = ss['A_Body_Strikes'].str.split(' of ').str[1]
    ss['B_Body_Strikes_land'] = ss['B_Body_Strikes'].str.split(' of ').str[0]
    ss['B_Body_Strikes_att'] = ss['B_Body_Strikes'].str.split(' of ').str[1]
    # change to numeric
    ss['A_Body_Strikes_land'] = pd.to_numeric(ss['A_Body_Strikes_land'])
    ss['A_Body_Strikes_att'] = pd.to_numeric(ss['A_Body_Strikes_att'])
    ss['B_Body_Strikes_land'] = pd.to_numeric(ss['B_Body_Strikes_land'])
    ss['B_Body_Strikes_att'] = pd.to_numeric(ss['B_Body_Strikes_att'])
    # Body Strikes Percentage
    ss['A_Body_Strikes_percent'] = ss['A_Body_Strikes_land'] / ss['A_Body_Strikes_att']
    ss['B_Body_Strikes_percent'] = ss['B_Body_Strikes_land'] / ss['B_Body_Strikes_att']
    # Leg Strikes
    ss['A_Leg_Strikes'] = ss['Leg'].str.split(' ').str[0]
    ss['B_Leg_Strikes'] = ss['Leg'].str.split(' ').str[1]
    # split leg strikes into landed and attempted
    ss['A_Leg_Strikes_land'] = ss['A_Leg_Strikes'].str.split(' of ').str[0]
    ss['A_Leg_Strikes_att'] = ss['A_Leg_Strikes'].str.split(' of ').str[1]
    ss['B_Leg_Strikes_land'] = ss['B_Leg_Strikes'].str.split(' of ').str[0]
    ss['B_Leg_Strikes_att'] = ss['B_Leg_Strikes'].str.split(' of ').str[1]
    # change to numeric
    ss['A_Leg_Strikes_land'] = pd.to_numeric(ss['A_Leg_Strikes_land'])
    ss['A_Leg_Strikes_att'] = pd.to_numeric(ss['A_Leg_Strikes_att'])
    ss['B_Leg_Strikes_land'] = pd.to_numeric(ss['B_Leg_Strikes_land'])
    ss['B_Leg_Strikes_att'] = pd.to_numeric(ss['B_Leg_Strikes_att'])
    # Leg Strikes Percentage
    ss['A_Leg_Strikes_percent'] = ss['A_Leg_Strikes_land'] / ss['A_Leg_Strikes_att']
    ss['B_Leg_Strikes_percent'] = ss['B_Leg_Strikes_land'] / ss['B_Leg_Strikes_att']
    # Distance Strikes
    ss['A_Distance_Strikes'] = ss['Distance'].str.split(' ').str[0]
    ss['B_Distance_Strikes'] = ss['Distance'].str.split(' ').str[1]
    # split distance strikes into landed and attempted
    ss['A_Distance_Strikes_land'] = ss['A_Distance_Strikes'].str.split(' of ').str[0]
    ss['A_Distance_Strikes_att'] = ss['A_Distance_Strikes'].str.split(' of ').str[1]
    ss['B_Distance_Strikes_land'] = ss['B_Distance_Strikes'].str.split(' of ').str[0]
    ss['B_Distance_Strikes_att'] = ss['B_Distance_Strikes'].str.split(' of ').str[1]
    # change to numeric
    ss['A_Distance_Strikes_land'] = pd.to_numeric(ss['A_Distance_Strikes_land'])
    ss['A_Distance_Strikes_att'] = pd.to_numeric(ss['A_Distance_Strikes_att'])
    ss['B_Distance_Strikes_land'] = pd.to_numeric(ss['B_Distance_Strikes_land'])
    ss['B_Distance_Strikes_att'] = pd.to_numeric(ss['B_Distance_Strikes_att'])
    # distance strikes percentage
    ss['A_Distance_Strikes_percent'] = ss['A_Distance_Strikes_land'] / ss['A_Distance_St
rikes_att']

```

```

ss['B_Distance_Strikes_percent'] = ss['B_Distance_Strikes_land'] / ss['B_Distance_Strikes_att']

# Clinch Strikes
ss['A_Clinch_Strikes'] = ss['Clinch'].str.split(' ').str[0]
ss['B_Clinch_Strikes'] = ss['Clinch'].str.split(' ').str[1]
# split clinch strikes into landed and attempted
ss['A_Clinch_Strikes_land'] = ss['A_Clinch_Strikes'].str.split(' of ').str[0]
ss['A_Clinch_Strikes_att'] = ss['A_Clinch_Strikes'].str.split(' of ').str[1]
ss['B_Clinch_Strikes_land'] = ss['B_Clinch_Strikes'].str.split(' of ').str[0]
ss['B_Clinch_Strikes_att'] = ss['B_Clinch_Strikes'].str.split(' of ').str[1]
# change to numeric
ss['A_Clinch_Strikes_land'] = pd.to_numeric(ss['A_Clinch_Strikes_land'])
ss['A_Clinch_Strikes_att'] = pd.to_numeric(ss['A_Clinch_Strikes_att'])
ss['B_Clinch_Strikes_land'] = pd.to_numeric(ss['B_Clinch_Strikes_land'])
ss['B_Clinch_Strikes_att'] = pd.to_numeric(ss['B_Clinch_Strikes_att'])
# clinch strikes percentage
ss['A_Clinch_Strikes_percent'] = ss['A_Clinch_Strikes_land'] / ss['A_Clinch_Strikes_att']
ss['B_Clinch_Strikes_percent'] = ss['B_Clinch_Strikes_land'] / ss['B_Clinch_Strikes_att']

# Ground Strikes
ss['A_Ground_Strikes'] = ss['Ground'].str.split(' ').str[0]
ss['B_Ground_Strikes'] = ss['Ground'].str.split(' ').str[1]
# split ground strikes into landed and attempted
ss['A_Ground_Strikes_land'] = ss['A_Ground_Strikes'].str.split(' of ').str[0]
ss['A_Ground_Strikes_att'] = ss['A_Ground_Strikes'].str.split(' of ').str[1]
ss['B_Ground_Strikes_land'] = ss['B_Ground_Strikes'].str.split(' of ').str[0]
ss['B_Ground_Strikes_att'] = ss['B_Ground_Strikes'].str.split(' of ').str[1]
# change to numeric
ss['A_Ground_Strikes_land'] = pd.to_numeric(ss['A_Ground_Strikes_land'])
ss['A_Ground_Strikes_att'] = pd.to_numeric(ss['A_Ground_Strikes_att'])
ss['B_Ground_Strikes_land'] = pd.to_numeric(ss['B_Ground_Strikes_land'])
ss['B_Ground_Strikes_att'] = pd.to_numeric(ss['B_Ground_Strikes_att'])
# ground strikes percentage
ss['A_Ground_Strikes_percent'] = ss['A_Ground_Strikes_land'] / ss['A_Ground_Strikes_att']
ss['B_Ground_Strikes_percent'] = ss['B_Ground_Strikes_land'] / ss['B_Ground_Strikes_att']

# add stuff with beautiful soup
ss['details'] = get_details_from_ufcstats(url)
ss['event_title'] = get_event_title_from_ufcstats(url)
event_url = get_event_url_from_ufcstats(url)
ss['event_url'] = event_url

fightid = url[url.find('fight-details/')+14:]

bad_cols = ['Fighter', 'Sig. str', 'Sig. str. %', 'Head', 'Body', 'Leg', 'Distance', 'Clinch', 'Ground',
            'A_Head_Strikes', 'B_Head_Strikes', 'A_Body_Strikes', 'B_Body_Strikes', 'A_Leg_Strikes', 'B_Leg_Strikes',
            'A_Distance_Strikes', 'B_Distance_Strikes', 'A_Clinch_Strikes', 'B_Clinch_Strikes', 'A_Ground_Strikes',
            'B_Ground_Strikes']
ss.drop(columns=bad_cols, inplace=True)
ss.to_csv('data/ufc_stats/sig_strikes2/' + fightid + '_sigstrikes.csv')

return ss

```

In [64]:

```

# get all events from oddsbyfighter
all_event_odds = pd.read_csv('data/final/odds/All_Odds_by_Fighter_WithChange.csv')
all_event_odds

```

Out[64]:

	fighter	5D	Ref	event_odds_url	event_ufcstats_url	event_id	event_name
0	Brock Lesnar	- 225.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100

	fighter	5D	Ref	event odds url	event ufcstats url	event id	event name
1	Frank Mir	205.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	137	UFC 100
2	Georges St-Pierre	- 275.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100
3	Thiago Alves	250.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100
4	Dan Henderson	- 200.0	NaN	https://www.bestfightodds.com/events/ufc-100-137	http://ufcstats.com/event-details/0ee783aa00e4...	ufc-100-137	UFC 100
...
22949	Krzysztof Jotko	NaN	- 124.0	https://www.bestfightodds.com/events/ufc-vegas...	http://ufcstats.com/event-details/4f670b7972fa...	ufc-vegas-57-2489	UFC Fight Night: Dern vs. Yan
22950	Chelsea Chandler	NaN	113.0	https://www.bestfightodds.com/events/ufc-vegas...	http://ufcstats.com/event-details/4f670b7972fa...	ufc-vegas-57-2489	UFC Fight Night: Dern vs. Yan
22951	Julija Stoliarenko	NaN	- 133.0	https://www.bestfightodds.com/events/ufc-vegas...	http://ufcstats.com/event-details/4f670b7972fa...	ufc-vegas-57-2489	UFC Fight Night: Dern vs. Yan
22952	Guido Cannetti	NaN	250.0	https://www.bestfightodds.com/events/ufc-vegas...	http://ufcstats.com/event-details/4f670b7972fa...	ufc-vegas-57-2489	UFC Fight Night: Dern vs. Yan
22953	Randy Costa	NaN	- 300.0	https://www.bestfightodds.com/events/ufc-vegas...	http://ufcstats.com/event-details/4f670b7972fa...	ufc-vegas-57-2489	UFC Fight Night: Dern vs. Yan

22954 rows x 8 columns

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---	--	---

In [65]:

```
# get all events from all_event_odds

all_event_odds_urls = all_event_odds['event_ufcstats_url'].unique()
print(len(all_event_odds_urls))
all_event_odds_urls
```

490

Out[65]:

```
array(['http://ufcstats.com/event-details/0ee783aa00e468f0',
      'http://ufcstats.com/event-details/48d1f690b763934c',
      'http://ufcstats.com/event-details/c6a33ff198aaaeab',
      'http://ufcstats.com/event-details/896c322f56b8be5a',
      'http://ufcstats.com/event-details/fa8b9e6b0c2269f8',
      'http://ufcstats.com/event-details/84a067c46306a737',
      'http://ufcstats.com/event-details/821cd80aab70d5f9',
      'http://ufcstats.com/event-details/a6d8bfe9e0c8153b',
      'http://ufcstats.com/event-details/15edcf67ccf5be84',
      'http://ufcstats.com/event-details/49efbdc6c9f650c4',
      'http://ufcstats.com/event-details/c80095f6092271a7',
      'http://ufcstats.com/event-details/24b033b3daf1c9df',
      'http://ufcstats.com/event-details/d0c29452d3272603',
      'http://ufcstats.com/event-details/cfb65863d5099327',
      'http://ufcstats.com/event-details/140745cbbcb023ac',
      'http://ufcstats.com/event-details/054defd5420a551f',
      'http://ufcstats.com/event-details/ad32471f01e7b1a5',
      'http://ufcstats.com/event-details/d512d9f204059f57',
      'http://ufcstats.com/event-details/afdb76fbd86f6d11',
      'http://ufcstats.com/event-details/0ff11cc094e887bc',
      'http://ufcstats.com/event-details/dd992d569aaebee6',
      'http://ufcstats.com/event-details/132f860d02953f4c',
      'http://ufcstats.com/event-details/d1152823307d7e7c',
      'http://ufcstats.com/event-details/65ddc8a9ac4e8531',
      'http://ufcstats.com/event-details/88a9bc81271ccd89',
      'http://ufcstats.com/event-details/1411c630ba711b64',
      'http://ufcstats.com/event-details/2db7fa8db6bc9632',
```

'http://ufcstats.com/event-details/b732b326c362fb62',
'http://ufcstats.com/event-details/aac5ac38148f0528',
'http://ufcstats.com/event-details/83fd97284f4bb4a4',
'http://ufcstats.com/event-details/flf9e48a0d150757',
'http://ufcstats.com/event-details/18968f97ad34f15c',
'http://ufcstats.com/event-details/73ef22f25d0f70e2',
'http://ufcstats.com/event-details/7d5b12de1625984e',
'http://ufcstats.com/event-details/8788beb528894f33',
'http://ufcstats.com/event-details/e780ccc79a209985',
'http://ufcstats.com/event-details/0ec821423baa26bd',
'http://ufcstats.com/event-details/6d7886b094b471ac',
'http://ufcstats.com/event-details/91720876db0ee468',
'http://ufcstats.com/event-details/df2cf66d8c0123db',
'http://ufcstats.com/event-details/155bfc7ed36622df',
'http://ufcstats.com/event-details/4985113c0928aa62',
'http://ufcstats.com/event-details/3da19339ee7051d5',
'http://ufcstats.com/event-details/e8efeb9cf33b1941',
'http://ufcstats.com/event-details/fc31f896cde2bc2e',
'http://ufcstats.com/event-details/3c48019bc387b80c',
'http://ufcstats.com/event-details/53e533db1b8e9712',
'http://ufcstats.com/event-details/96d173b7f92aa520',
'http://ufcstats.com/event-details/d41937647eae9a34',
'http://ufcstats.com/event-details/c6e6926a81adcd00',
'http://ufcstats.com/event-details/601cf40c09090853',
'http://ufcstats.com/event-details/09c44b317c98bf96',
'http://ufcstats.com/event-details/flb2a4365799c48b',
'http://ufcstats.com/event-details/ea0ad155451ed1f5',
'http://ufcstats.com/event-details/3c241737a6069b9f',
'http://ufcstats.com/event-details/8fd1f27e86661ede',
'http://ufcstats.com/event-details/ebc5af72ad5a28cb',
'http://ufcstats.com/event-details/980b4e712489098e',
'http://ufcstats.com/event-details/df5a77121ba84a5d',
'http://ufcstats.com/event-details/28f3c2258a1d8874',
'http://ufcstats.com/event-details/83d0de122f2f9664',
'http://ufcstats.com/event-details/3138fab619faf4d1',
'http://ufcstats.com/event-details/4f2fcbefb668689d',
'http://ufcstats.com/event-details/0c3838c8f7c620c2',
'http://ufcstats.com/event-details/5b5307450405abf0',
'http://ufcstats.com/event-details/53adf5b845d91e4a',
'http://ufcstats.com/event-details/269d103c96a4c3a5',
'http://ufcstats.com/event-details/3bb030257966b022',
'http://ufcstats.com/event-details/53f02bbc41d99432',
'http://ufcstats.com/event-details/59851163aaflaed8',
'http://ufcstats.com/event-details/dfdd0c5dd0d4bc23',
'http://ufcstats.com/event-details/43563a32c3f10e95',
'http://ufcstats.com/event-details/ad4e9055bf8cd04d',
'http://ufcstats.com/event-details/f54200f1dfb9b5d4',
'http://ufcstats.com/event-details/997b4f52f76a0b53',
'http://ufcstats.com/event-details/4f7e290e71d60f87',
'http://ufcstats.com/event-details/a58114c6dd0add64',
'http://ufcstats.com/event-details/3be081c29bf734d9',
'http://ufcstats.com/event-details/a9c45a8b21eabadc',
'http://ufcstats.com/event-details/119ebea97e914dcf',
'http://ufcstats.com/event-details/8d04923f2db59b7f',
'http://ufcstats.com/event-details/354808cf38d9d73c',
'http://ufcstats.com/event-details/380e8b023290d091',
'http://ufcstats.com/event-details/db1f2ed63b54b9a7',
'http://ufcstats.com/event-details/3d481aa374c954a1',
'http://ufcstats.com/event-details/a4bf17bd3ba3423b',
'http://ufcstats.com/event-details/ff4c3ab594c7fac3',
'http://ufcstats.com/event-details/aa5b4eff51bdc7d1',
'http://ufcstats.com/event-details/72cbe507644a587c',
'http://ufcstats.com/event-details/5da4e8dc02e50ac0',
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'http://ufcstats.com/event-details/fd4578cac86d75ca',
'http://ufcstats.com/event-details/d4f364dd076bb0e2',
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'http://ufcstats.com/event-details/0db9d2486d564a3c',
'http://ufcstats.com/event-details/2f13e4020cea5b38',
'http://ufcstats.com/event-details/31da66df48c0c1a0',
'http://ufcstats.com/event-details/320edfb0332b7073',
'http://ufcstats.com/event-details/40389d39a92f5bfa',
'http://ufcstats.com/event-details/e57f0b06ea39e360',
'http://ufcstats.com/event-details/8f6a18831a120817',
'http://ufcstats.com/event-details/9ddfb3369a3b0394',
'http://ufcstats.com/event-details/eb42d4febfafe1d1',
'http://ufcstats.com/event-details/1c061eb6e29eaa0a',
'http://ufcstats.com/event-details/a8d521d913df4e31',
'http://ufcstats.com/event-details/a421465acbe59c77',
'http://ufcstats.com/event-details/05fbfe628658c538',
'http://ufcstats.com/event-details/d4a12dfa4067742f',
'http://ufcstats.com/event-details/706404da0775dcbc',
'http://ufcstats.com/event-details/bc7cf284c1c2f16e',
'http://ufcstats.com/event-details/80d918336163b80c',
'http://ufcstats.com/event-details/b3fb8d2293e17a59',
'http://ufcstats.com/event-details/e7e970d508529bf3',
'http://ufcstats.com/event-details/c3c23c99477c041b',
'http://ufcstats.com/event-details/8a028648f3f0761d',
'http://ufcstats.com/event-details/cfbccfed4e4796fe',
'http://ufcstats.com/event-details/32541eb5d12668b4',
'http://ufcstats.com/event-details/4512e46543b960ad',
'http://ufcstats.com/event-details/ed069a95aaaf4f56',
'http://ufcstats.com/event-details/9f3d6ddef3d3cccc',
'http://ufcstats.com/event-details/eaa0a728cc91ef60',
'http://ufcstats.com/event-details/602bb270f2bdbf02',
'http://ufcstats.com/event-details/daa89f01e1c0f42a',
'http://ufcstats.com/event-details/620be7e0712d431b',
'http://ufcstats.com/event-details/5898357a45a73674',
'http://ufcstats.com/event-details/322a56923b396b4d',
'http://ufcstats.com/event-details/7a703c565ccaa18f',
'http://ufcstats.com/event-details/f62850b3c7480db9',
'http://ufcstats.com/event-details/d1e6a6536ee62517',

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'http://ufcstats.com/event-details/82f5c81f4e3c3eb5',
'http://ufcstats.com/event-details/aa79d5399571068e',
'http://ufcstats.com/event-details/5330fe7e4c3af81c',
'http://ufcstats.com/event-details/480b702debc5433',
'http://ufcstats.com/event-details/0a97691039c4bbfb',
'http://ufcstats.com/event-details/7865707fd684d77b',
'http://ufcstats.com/event-details/21f2974fd08085e3',
'http://ufcstats.com/event-details/8caca5857ce0e30b',
'http://ufcstats.com/event-details/d3b5ad3b15a64a18',
'http://ufcstats.com/event-details/6cbb7661c3258617',
'http://ufcstats.com/event-details/319fa1bd3176bde',
'http://ufcstats.com/event-details/4679a38cced7c64a',
'http://ufcstats.com/event-details/83c6c3e0f8bde8ee',
'http://ufcstats.com/event-details/6291ac0a3726732f',
'http://ufcstats.com/event-details/4d74641fac830182',
'http://ufcstats.com/event-details/b5ea750025697880',
'http://ufcstats.com/event-details/49590e0508b2c19f',
'http://ufcstats.com/event-details/505934897b8b4824',
'http://ufcstats.com/event-details/6a0b80a24f22e152',
'http://ufcstats.com/event-details/e8c170a64dc920ac',
'http://ufcstats.com/event-details/56f4b81ec4db61af',
'http://ufcstats.com/event-details/030f08370fd1c2bb',
'http://ufcstats.com/event-details/3795fca327cbcf23',
'http://ufcstats.com/event-details/f12f979b657ab876',
'http://ufcstats.com/event-details/a54fc2d6fc224dc3',
'http://ufcstats.com/event-details/d023ae89a2a4a41e',
'http://ufcstats.com/event-details/4c8d6fde2dde07c4',
'http://ufcstats.com/event-details/44f9c777fed7ca03',
'http://ufcstats.com/event-details/883922e5cd6d8473',
'http://ufcstats.com/event-details/4f670b7972fa0a2e'], dtype=object)
```

In [66]:

```
all_event_urls = all_event_odds_urls.tolist()
```

In [67]:

```
# get all the fight links from an event page, dl to events folder
events_with_fight_links = pd.DataFrame()
m = 1
errors = []

for event_url in all_event_urls:
    try:
        event_id = event_url.split('/')[-1]
        get_event_details(event_id)
        print(f'{m} of {len(all_event_urls)}')
        m += 1

    except:
        errors.append(event_url)
        print(f'ERROR: {m} of {len(all_event_urls)}')
        m += 1

print(len(errors))
errors
```

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Out[67]:

[nan]

In [68]:

```
# Aggregate all the fight data from all the events
all_event_data = pd.DataFrame()
m = 1
errors = []

event_files = os.listdir('data/ufc_stats/events2/')

for event_file in event_files:
    data = pd.read_csv('data/ufc_stats/events2/' + event_file)
    all_event_data = all_event_data.append(data, ignore_index=True)

all_event_data
```

Out[68]:

Unnamed: 0	W/L	Weight class	Method	Round	Time	Fighter1	Fighter2	F1_Kd	F2_Kd	F1_Str	F2_Str	F1_Td
0	0 win	Heavyweight	KO/TKO Punches	3	4:23	Ciryl Gane	Tai Tuivasa	1	1	110	29	0
						Robert	Marvin					

1	Unnamed: 0	1 win W/L	Middleweight Weight class	U-DEC Method	3 Round	5:00 Time	Robert Whittaker Fighter1	Marvin Vettori Fighter2	0 F1_Kd	0 F2_Kd	74 F1_Str	33 F2_Str	1 F1_Td
2	2	win	Middleweight	U-DEC	3	5:00	Nassourdine Imavov	Joaquin Buckley	0	0	51	46	2
3	3	win	Middleweight	KO/TKO Punches	3	1:09	Roman Kopylov	Alessio Di Chirico	1	0	59	39	0
4	4	win	Featherweight	U-DEC	3	5:00	William Gomis	Jarno Errens	0	0	32	20	3
...
5673	7	win	Featherweight	SUB Guillotine Choke	3	2:59	Brian Ortega	Renato Moicano	0	0	65	109	0
5674	8	win	Featherweight	U-DEC	3	5:00	Calvin Kattar	Andre Fili	0	0	75	73	2
5675	9	win	Women's Strawweight	U-DEC	3	5:00	Aleksandra Albu	Kailin Curran	0	0	82	86	5
5676	10	win	Flyweight	S-DEC	3	5:00	Jarred Brooks	Eric Shelton	0	0	27	31	5
5677	11	win	Lightweight	KO/TKO Punch	1	3:04	Drew Dober	Joshua Burkman	1	0	15	11	0

5678 rows x 19 columns



In [69]:

```
all_event_data.to_csv('data/final/events/All_Events_Fights_and_FightUrls.csv')
```

3. Merge UFC Stats Data with Event_Odds

In [70]:

```
# Make master fight_totals dataframe

fight_totals_files = os.listdir('data/ufc_stats/fight_totals2')
sig_strike_files = os.listdir('data/ufc_stats/sig_strikes2')
```

In [71]:

```
# Make master fight_totals dataframe
fight_totals = pd.DataFrame()

for file in fight_totals_files:
    file2 = file.replace('.csv', '')
    df = pd.read_csv('data/ufc_stats/fight_totals2/'+file)
    # add fight id column
    df['fight_id'] = file2[:-7]
    fight_totals = fight_totals.append(df)
fight_totals = fight_totals.reset_index(drop=True)

fight_totals
```

Out[71]:

Unnamed: 0	Fighter_A	Fighter_B	A_Kd	B_Kd	A_Sig_strike_land	A_Sig_strike_att	B_Sig_strike_land	B_Sig_strike_att
0	Holly Holm	Irene Aldana	0	0	154	301	69	18

1	Joshua Burkman	Josh Neer	1	0	35	88	19	3
---	----------------	-----------	---	---	----	----	----	---

	Unnamed: 0	Fighter_A	Fighter_B	A_Kd	B_Kd	A_Sig_strike_land	A_Sig_strike_att	B_Sig_strike_land	B_Sig_strike_att
2	0	Paddy Pimblett	Kazula Vargas	0	0	3	6	7	
3	0	Greg Hardy	Ben Sosoli	0	0	54	105	26	9
4	0	Jared Rosholt	Josh Copeland	0	0	22	45	9	3
...
8434	0	Tim Sylvia	Wesley Correia	0	0	138	214	26	6
8435	0	Kimo Leopoldo	David Abbott	0	0	1	1	0	
8436	0	Tony Ferguson	Gleison Tibau	0	0	11	38	2	2
8437	0	Tim Boetsch	CB Dollaway	0	0	41	76	57	11
8438	0	Shamil Abdurakhimov	Jailton Almeida	0	0	1	1	45	5

8439 rows x 43 columns



In [72]:

```

sig_strike_agg = pd.DataFrame()
for file in sig_strike_files:
    file2 = file.replace('.csv', '')
    df = pd.read_csv('data/ufc_stats/sig_strikes2/'+file)
    df['fight_id'] = file2[:-11]
    sig_strike_agg = sig_strike_agg.append(df)
sig_strike_agg = sig_strike_agg.reset_index(drop=True)

sig_strike_agg

```

Out[72]:

	Unnamed: 0	Fighter_A	Fighter_B	A_Head_Strikes_land	A_Head_Strikes_att	B_Head_Strikes_land	B_Head_Strikes_att
0	0	Holly Holm	Irene Aldana	81	214	38	128
1	0	Joshua Burkman	Josh Neer	22	72	17	36

2	Unnamed: 0	Paddy Finn	Kazula Youngs	1	4	5	7
		Fighter_A	Fighter_B	A_Head_Strikes_land	A_Head_Strikes_att	B_Head_Strikes_land	B_Head_Strikes_att
3	0	Greg Hardy	Ben Sosoli	22	72	15	78
4	0	Jared Rosholt	Josh Copeland	19	41	7	34
...
8434	0	Tim Sylvia	Wesley Correia	115	186	21	60
8435	0	Kimo Leopoldo	David Abbott	0	0	0	0
8436	0	Tony Ferguson	Gleison Tibau	5	27	2	18
8437	0	Tim Boetsch	CB Dollaway	27	59	33	92
8438	0	Shamil Abdurakhimov	Jailton Almeida	1	1	44	55

8439 rows x 43 columns



In [73]:

```
fight_totals.to_csv('data/final/aggregates/All_Fight_Totals.csv', index=False)
sig_strike_agg.to_csv('data/final/aggregates/All_Sig_Strikes.csv', index=False)
```

In [74]:

```
# get the columns that are in both dataframes
common_cols = list(set(fight_totals.columns).intersection(sig_strike_agg.columns))
common_cols
```

Out[74]:

```
['event_title',
 'Fighter_B',
 'event_url',
 'Unnamed: 0',
 'Fighter_A',
 'fight_id',
 'details']
```

In [75]:

```
# drop unnamed
fight_totals = fight_totals.drop(columns=['Unnamed: 0'])
sig_strike_agg = sig_strike_agg.drop(columns=['Unnamed: 0'])
```

In [76]:

```
# drop details from sig strike agg
```

```
sig_strike_agg = sig_strike_agg.drop(columns=['details'])
```

In [77]:

```
common_cols = list(set(fight_totals.columns).intersection(sig_strike_agg.columns))
common_cols
```

Out[77]:

```
['event_title', 'Fighter_B', 'event_url', 'Fighter_A', 'fight_id']
```

In [78]:

```
# merge the two dataframes, using the common columns as the key
fight_DF = pd.merge(fight_totals, sig_strike_agg, on=common_cols, how= 'inner')
fight_DF
```

Out[78]:

	Fighter_A	Fighter_B	A_Kd	B_Kd	A_Sig_strike_land	A_Sig_strike_att	B_Sig_strike_land	B_Sig_strike_att	A_Sig_str
0	Holly Holm	Irene Aldana	0	0	154	301	69	185	
1	Joshua Burkman	Josh Neer	1	0	35	88	19	39	
2	Paddy Pimblett	Kazula Vargas	0	0	3	6	7	9	
3	Greg Hardy	Ben Sosoli	0	0	54	105	26	97	
4	Jared Rosholt	Josh Copeland	0	0	22	45	9	36	
...
8432	Tim Sylvia	Wesley Correia	0	0	138	214	26	65	
8433	Kimo Leopoldo	David Abbott	0	0	1	1	0	0	
8434	Tony Ferguson	Gleison Tibau	0	0	11	38	2	20	
8435	Tim Boetsch	CB Dollaway	0	0	41	76	57	118	
8436	Shamil Abdurakhimov	Jailton Almeida	0	0	1	1	45	57	

8437 rows x 78 columns



In [79]:

```
# check for nulls
fight_DF.isnull().sum()
```

Out[79]:

```
Fighter_A      0
Fighter_B     21
A_Kd           0
B_Kd           0
A_Sig_strike_land  0
...
A_Ground_Strikes_att  0
B_Ground_Strikes_land  0
B_Ground_Strikes_att  0
A_Ground_Strikes_percent  2668
B_Ground_Strikes_percent  3818
Length: 78, dtype: int64
```

In [80]:

```
# drop when Fighter_B is null
fight_DF = fight_DF.dropna(subset=['Fighter_B'])
```

In [81]:

```
missing = fight_DF.isnull().sum()
missing = missing[missing > 0]
missing.sort_values(inplace=True)
missing
```

Out[81]:

```
A_Total_Strikes_percent      37
Winner                        57
B_Total_Strikes_percent      65
A_Head_Strikes_percent       96
B_Distance_Strikes_percent   169
A_Distance_Strikes_percent   172
B_Head_Strikes_percent       182
details                       282
A_Body_Strikes_percent      1017
A_Ctrl_time_sec             1211
B_Ctrl_time_sec             1211
A_Ctrl_time_tot             1211
B_Ctrl_time_tot             1211
B_Body_Strikes_percent      1268
A_Leg_Strikes_percent       1821
B_Leg_Strikes_percent       1864
A_Clinch_Strikes_percent    2044
B_Clinch_Strikes_percent    2122
A_Ground_Strikes_percent    2661
A_Takedown_percent         2705
B_Takedown_percent         3201
B_Ground_Strikes_percent    3811
A_Sub_Attempts_att          8416
B_Sub_Attempts_att          8416
dtype: int64
```

In [82]:

```
# drop when Winner is missing
fight_DF = fight_DF.dropna(subset=['Winner'])
```

In [83]:

```
# change all the nulls to 0
fight_DF = fight_DF.fillna(0)
```

In [84]:

```
fight_DF.to_csv('data/final/aggregates/Fight_DF.csv', index=False)
```

This is the data set that will be the starting point in our feature engineering and modeling. From here on out, we are just

Scraping Fighter Biography Info from UFC.Com

Can do via URL:

Example: <https://www.ufc.com/athlete/kevin-holland>

- All: <https://www.ufc.com/athletes/all/active>

List all Fighters


```
In [85]:
```

```
df = pd.read_csv('data/final/aggregates/All_Fight_Totals.csv')
```

```
In [86]:
```

```
# list of all fighter_A and fighter_B names
fighter_names = list(df['Fighter_A'].unique()) + list(df['Fighter_B'].unique())

# remove duplicates
fighter_names = list(set(fighter_names))

len(fighter_names)
```

```
Out[86]:
```

```
3103
```

```
In [87]:
```

```
fighter_name_df = pd.DataFrame(fighter_names, columns = ['Fighter_Name'])
fighter_name_df
```

```
Out[87]:
```

	Fighter_Name
0	Nasrat Haqparast
1	Mickael Lebout
2	Tom Niinimaki
3	Michael Johnson
4	Tony Gravely
...	...
3098	Jorge Lopez
3099	Rodrigo de
3100	Aaron Jeffery
3101	William Macario
3102	Joe Charles

3103 rows × 1 columns

```
In [88]:
```

```
fighter_name_df['ufc_url'] = 'https://www.ufc.com/athlete/' + fighter_name_df['Fighter_Name'].str.lower().str.replace(' ', '-')
fighter_name_df.head()
```

```
Out[88]:
```

	Fighter_Name	ufc_url
0	Nasrat Haqparast	https://www.ufc.com/athlete/nasrat-haqparast
1	Mickael Lebout	https://www.ufc.com/athlete/mickael-lebout
2	Tom Niinimaki	https://www.ufc.com/athlete/tom-niinimaki
3	Michael Johnson	https://www.ufc.com/athlete/michael-johnson
4	Tony Gravely	https://www.ufc.com/athlete/tony-gravely

Function to scrape fighter bio information from UFC.com

```
In [89]:
```

```
def get_ufc_bios(url):
```

```

try:
    page = requests.get(url)
    soup = BeautifulSoup(page.content, 'html.parser')
    bio = soup.find('div', class_='c-bio__info-details').text

    fighter = soup.find('h1', class_='hero-profile__name').text

    # get every c-bio__label and c-bio__text within bio
    labels = soup.find_all('div', class_='c-bio__label')
    texts = soup.find_all('div', class_='c-bio__text')

    # create empty lists to store labels and texts
    label_list = []
    text_list = []

    # loop through labels and texts and append to lists
    for label in labels:
        label_list.append(label.text)

    for text in texts:
        text_list.append(text.text)

    # create dataframe from lists, with label as column names
    fighter_bio_df = pd.DataFrame([label_list, text_list])
    fighter_bio_df.columns = fighter_bio_df.iloc[0]

    # drop 1st row
    fighter_bio_df = fighter_bio_df.drop(fighter_bio_df.index[0])

    # add fighter name column
    fighter_bio_df['fighter'] = fighter

    # replace any '\n' with ''
    fighter_bio_df = fighter_bio_df.replace('\n', '', regex=True)

    fighter_bio_df.to_csv('data/final/fighters/' + fighter + '.csv')
    return fighter_bio_df

except:
    # If there is an error, save it in the bios with errors folder

    print('Error with ' + str(url))
    data = {'fighter': [url]}
    df = pd.DataFrame(data)
    url2 = url.replace('https://www.ufc.com/athlete/', '')
    url3 = url2.replace('-', ' ')
    df.to_csv('data/final/fighters/bios_with_errors/' + url2 + '.csv')

```

In [90]:

```

# test
get UFC bios('https://www.ufc.com/athlete/Max-Holloway')

```

Out[90]:

	Status	Place of Birth	Trains at	Fighting style	Age	Height	Weight	Octagon Debut	Reach	Leg reach	fighter
1	Active	Waianae, United States	Hawaii Elite MMA - Hawaii	Muay Thai	30	71.00	144.50	Feb. 04, 2012	69.00	42.00	Max Holloway

Check if fighter bio data has already been scraped. If not, scrape it.

In [91]:

```

def download_missing_bios():
    working_bios_folder = os.listdir('data/final/fighters/')
    working_bios = [x[:-4] for x in working_bios_folder]

```

```

bios_with_errors_folder = os.listdir('data/final/fighters/bios_with_errors/')
bios_with_errors = [x[:-4] for x in bios_with_errors_folder]

all_downloaded_bios = working_bios + bios_with_errors
un_downloaded_bios = fighter_name_df[~fighter_name_df['Fighter_Name'].isin(all_downlo
aded_bios)]

# delete any NAN in undownload bios
un_downloaded_bios = un_downloaded_bios.dropna()

# download all undownloaded bios
i = 0
fighters = len(un_downloaded_bios['ufc_url'])

# Downloading data for ALL fighters

for url in un_downloaded_bios['ufc_url']:
    get UFC bios(url)
    print('Done with ' + url + ' ' + str(i) + ' of ' + str(fighters))
    i += 1

```

In [92]:

```
download_missing_bios()
```

```

Error with https://www.ufc.com/athlete/aoriqileng-jay
Done with https://www.ufc.com/athlete/aoriqileng-jay 0 of 721
Error with https://www.ufc.com/athlete/emmanuel-yarborough
Done with https://www.ufc.com/athlete/emmanuel-yarborough 1 of 721
Error with https://www.ufc.com/athlete/de-andrade
Done with https://www.ufc.com/athlete/de-andrade 2 of 721
Error with https://www.ufc.com/athlete/ovince-saint
Done with https://www.ufc.com/athlete/ovince-saint 3 of 721
Error with https://www.ufc.com/athlete/robert-mcdaniel
Done with https://www.ufc.com/athlete/robert-mcdaniel 4 of 721
Error with https://www.ufc.com/athlete/joseph-gigliotti
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Error with https://www.ufc.com/athlete/denis-gabriel
Done with https://www.ufc.com/athlete/denis-gabriel 10 of 721
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Error with https://www.ufc.com/athlete/silva-mayana
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Error with https://www.ufc.com/athlete/bobby-lashley
Done with https://www.ufc.com/athlete/bobby-lashley 648 of 721
Error with https://www.ufc.com/athlete/david-kaplan
Done with https://www.ufc.com/athlete/david-kaplan 649 of 721
Error with https://www.ufc.com/athlete/miguel-torres
Done with https://www.ufc.com/athlete/miguel-torres 650 of 721
Error with https://www.ufc.com/athlete/arjan-bhullar
Done with https://www.ufc.com/athlete/arjan-bhullar 651 of 721

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Done with https://www.ufc.com/athlete/preux-ilir 652 of 721
Error with https://www.ufc.com/athlete/crosley-gracie
Done with https://www.ufc.com/athlete/crosley-gracie 653 of 721
Error with https://www.ufc.com/athlete/abongo-humphrey
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Error with https://www.ufc.com/athlete/nogueira-wagner
Done with https://www.ufc.com/athlete/nogueira-wagner 655 of 721
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Done with https://www.ufc.com/athlete/michael-lerma 656 of 721
Error with https://www.ufc.com/athlete/silvana-gomez
Done with https://www.ufc.com/athlete/silvana-gomez 657 of 721
Error with https://www.ufc.com/athlete/yurij-kiseliov
Done with https://www.ufc.com/athlete/yurij-kiseliov 658 of 721
Error with https://www.ufc.com/athlete/valentijn-overeem
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Done with https://www.ufc.com/athlete/preux-tyson 663 of 721
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Done with https://www.ufc.com/athlete/puig-doocho 664 of 721
Error with https://www.ufc.com/athlete/orlando-wiet
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Error with https://www.ufc.com/athlete/jose-barreto
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Error with https://www.ufc.com/athlete/lim-neil
Done with https://www.ufc.com/athlete/lim-neil 667 of 721
Error with https://www.ufc.com/athlete/dong-hyun
Done with https://www.ufc.com/athlete/dong-hyun 668 of 721
Error with https://www.ufc.com/athlete/andre-galvao
Done with https://www.ufc.com/athlete/andre-galvao 669 of 721
Error with https://www.ufc.com/athlete/seo-hee
Done with https://www.ufc.com/athlete/seo-hee 670 of 721
Error with https://www.ufc.com/athlete/zelg-galesic
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Error with https://www.ufc.com/athlete/mitsuhiro-ishida
Done with https://www.ufc.com/athlete/mitsuhiro-ishida 672 of 721
Error with https://www.ufc.com/athlete/diego-henrique
Done with https://www.ufc.com/athlete/diego-henrique 673 of 721
Error with https://www.ufc.com/athlete/ray-sefo
Done with https://www.ufc.com/athlete/ray-sefo 674 of 721
Error with https://www.ufc.com/athlete/gilles-arsene
Done with https://www.ufc.com/athlete/gilles-arsene 675 of 721
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Done with https://www.ufc.com/athlete/rubin-williams 676 of 721
Error with https://www.ufc.com/athlete/yorgan-de
Done with https://www.ufc.com/athlete/yorgan-de 677 of 721
Error with https://www.ufc.com/athlete/santos-mirko
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Error with https://www.ufc.com/athlete/antonio-carlos
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Done with https://www.ufc.com/athlete/martin-rashid 682 of 721
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Done with https://www.ufc.com/athlete/ike-villanueva 683 of 721
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Done with https://www.ufc.com/athlete/santos-e 690 of 721
Error with https://www.ufc.com/athlete/nogueira-sergei
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Error with https://www.ufc.com/athlete/carls-john
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Done with https://www.ufc.com/athlete/ian-murphy 693 of 721
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Error with https://www.ufc.com/athlete/vitor-vianna
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Error with https://www.ufc.com/athlete/dwayne-cason
Done with https://www.ufc.com/athlete/dwayne-cason 697 of 721
Error with https://www.ufc.com/athlete/aleksandra-albu
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Done with https://www.ufc.com/athlete/bryan-vetell 701 of 721
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Done with https://www.ufc.com/athlete/jin-soo 702 of 721
Done with https://www.ufc.com/athlete/raphael-assuncao 703 of 721
Error with https://www.ufc.com/athlete/kazuyuki-fujita
Done with https://www.ufc.com/athlete/kazuyuki-fujita 704 of 721
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Done with https://www.ufc.com/athlete/nick-gonzalez 705 of 721
Error with https://www.ufc.com/athlete/tony-petarra
Done with https://www.ufc.com/athlete/tony-petarra 706 of 721
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Done with https://www.ufc.com/athlete/antonio-rodrigo 707 of 721
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Done with https://www.ufc.com/athlete/eric-esch 713 of 721
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Done with https://www.ufc.com/athlete/ryan-mcgillivray 714 of 721
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Done with https://www.ufc.com/athlete/kazuyuki-miyata 715 of 721
Done with https://www.ufc.com/athlete/uros-medic 716 of 721
Error with https://www.ufc.com/athlete/naho-sugiyuma
Done with https://www.ufc.com/athlete/naho-sugiyuma 717 of 721
Error with https://www.ufc.com/athlete/lolohea-mahe
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Done with https://www.ufc.com/athlete/rostem-akman 719 of 721
Error with https://www.ufc.com/athlete/rodrigo-de
Done with https://www.ufc.com/athlete/rodrigo-de 720 of 721

In [93]:

```
len(os.listdir('data/final/fighters/'))
```

Out[93]:

2419

In [94]:

```
len(os.listdir('data/final/fighters/bios_with_errors/'))
```

Out[94]:

686

There are many bios with errors, but none for important fighters who have fought in the last 5 years.

MasterDF for fighter bios

Here, I combine all the bio data into one dataframe.

In [95]:

```
fighter_bio_files= os.listdir('data/final/fighters/')
fighter_bio_files = [x for x in fighter_bio_files if 'csv' in x]

# append all fighter bios into one dataframe
fighter_bio_df = pd.DataFrame()
for file in fighter_bio_files:
    df = pd.read_csv('data/final/fighters/' + file)
    fighter_bio_df = fighter_bio_df.append(df)

fighter_bio_df = fighter_bio_df.reset_index(drop=True)
fighter_bio_df.head()
```

Out[95]:

Unnamed: 0	Status	Place of Birth	Fighting style	Age	Height	Weight	Octagon Debut	Reach	Leg reach	fighter	Trains at	
0	1	Not Fighting	Parrish, United States	MMA	32.0	72.0	155.0	Jul. 30, 2019	78.0	42.0	Aalon Cruz	NaN
1	1	Not Fighting	Newport Beach, United States	NaN	47.0	75.0	231.0	Nov. 17, 2000	NaN	NaN	Aaron Brink	NaN
2	1	NaN	Tillsonburg, Canada	MMA	29.0	74.0	185.5	Dec. 11, 2022	73.5	41.0	Aaron Jeffery	NaN
3	1	Active	Houston, United States	Muay Thai	32.0	69.0	135.0	May. 24, 2014	71.0	40.0	Aaron Phillips	Headkicks MMA
4	1	Not Fighting	Tell City, United States	NaN	40.0	68.0	156.0	May. 10, 2002	NaN	NaN	Aaron Riley	NaN

In [96]:

```
fighter_bio_df.head(3)
```

Out[96]:

Unnamed: 0	Status	Place of Birth	Fighting style	Age	Height	Weight	Octagon Debut	Reach	Leg reach	fighter	Trains at	
0	1	Not Fighting	Parrish, United States	MMA	32.0	72.0	155.0	Jul. 30, 2019	78.0	42.0	Aalon Cruz	NaN
1	1	Not Fighting	Newport Beach, United States	NaN	47.0	75.0	231.0	Nov. 17, 2000	NaN	NaN	Aaron Brink	NaN
2	1	NaN	Tillsonburg, Canada	MMA	29.0	74.0	185.5	Dec. 11, 2022	73.5	41.0	Aaron Jeffery	NaN

In [97]:

```
fighter_bio_df.to_csv('data/final/aggregates/All_Fighter_Bios.csv')
```

Get sitemap for fighters

In [98]:

```
url = 'https://www.sherdog.com/sitemap-fighters.xml'
header = {
    "User-Agent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/50.0.2661.75 Safari/537.36",
    "X-Requested-With": "XMLHttpRequest"
}
r = requests.get(url, headers = header)
r.text

# turn into df
df = pd.DataFrame(r.text.split('\n'))
df.columns = ['url']
df = df[df['url'].str.contains('fighter')]
df
```

Out[98]:

	url
2	<url><loc>https://www.sherdog.com/fighter/Tony...
3	<url><loc>https://www.sherdog.com/fighter/Kurt...
4	<url><loc>https://www.sherdog.com/fighter/Bria...
5	<url><loc>https://www.sherdog.com/fighter/Ken-...
6	<url><loc>https://www.sherdog.com/fighter/Alex...
...	...
19997	<url><loc>https://www.sherdog.com/fighter/Tim-...
19998	<url><loc>https://www.sherdog.com/fighter/Nick...
19999	<url><loc>https://www.sherdog.com/fighter/Curt...
20000	<url><loc>https://www.sherdog.com/fighter/Tomm...
20001	<url><loc>https://www.sherdog.com/fighter/Sybi...

20000 rows x 1 columns

In [99]:

```
# fighter names, remove numbers at end of names
df['fighter_first'] = df['url'].str.split('fighter/').str[1].replace('<loc></url>', '').str.split('-').str[0]
df['fighter_last'] = df['url'].str.split('fighter/').str[1].replace('<loc></url>', '').str.split('-').str[-2]

df
```

Out[99]:

	url	fighter_first	fighter_last
2	<url><loc>https://www.sherdog.com/fighter/Tony...	Tony	Galindo
3	<url><loc>https://www.sherdog.com/fighter/Kurt...	Kurt	Rojo
4	<url><loc>https://www.sherdog.com/fighter/Bria...	Brian	Hawkins
5	<url><loc>https://www.sherdog.com/fighter/Ken-...	Ken	Shamrock
6	<url><loc>https://www.sherdog.com/fighter/Alex...	Alexander	Otsuka
...
19997	<url><loc>https://www.sherdog.com/fighter/Tim-...	Tim	Samelstad
19998	<url><loc>https://www.sherdog.com/fighter/Nick...	Nick	Edwards
19999	<url><loc>https://www.sherdog.com/fighter/Curt...	Curtis	Demarce
20000	<url><loc>https://www.sherdog.com/fighter/Tomm...	Tomm...	...


```
20000 <url><loc>https://www.sherdog.com/fignter/Tomm... Tommy Long
url fighter_first fighter_last
20001 <url><loc>https://www.sherdog.com/fighter/Sybi... Sybil Starr
```

20000 rows x 3 columns

In [100]:

```
df['sherdog_urls'] = df['url'].str.replace('<loc>', '').str.replace('<url>', '').str.strip()
df
```

Out[100]:

	url	fighter_first	fighter_last	sherdog_urls
2	<url> <loc>https://www.sherdog.com/fighter/Tony...	Tony	Galindo	https://www.sherdog.com/fighter/Tony-Galindo-1...
3	<url> <loc>https://www.sherdog.com/fighter/Kurt...	Kurt	Rojo	https://www.sherdog.com/fighter/Kurt-Rojo-2</l...
4	<url> <loc>https://www.sherdog.com/fighter/Bria...	Brian	Hawkins	https://www.sherdog.com/fighter/Brian-Hawkins-...
5	<url> <loc>https://www.sherdog.com/fighter/Ken...	Ken	Shamrock	https://www.sherdog.com/fighter/Ken-Shamrock-4...
6	<url> <loc>https://www.sherdog.com/fighter/Alex...	Alexander	Otsuka	https://www.sherdog.com/fighter/Alexander-Otsu...
...
19997	<url> <loc>https://www.sherdog.com/fighter/Tim...	Tim	Samelstad	https://www.sherdog.com/fighter/Tim-Samelstad-...
19998	<url> <loc>https://www.sherdog.com/fighter/Nick...	Nick	Edwards	https://www.sherdog.com/fighter/Nick-Edwards-2...
19999	<url> <loc>https://www.sherdog.com/fighter/Curt...	Curtis	Demarce	https://www.sherdog.com/fighter/Curtis-Demarce...
20000	<url> <loc>https://www.sherdog.com/fighter/Tomm...	Tommy	Long	https://www.sherdog.com/fighter/Tommy-Long-207...
20001	<url> <loc>https://www.sherdog.com/fighter/Sybi...	Sybil	Starr	https://www.sherdog.com/fighter/Sybil-Starr-20...

20000 rows x 4 columns

In [101]:

```
df= df.drop(['url'], axis = 1)
df
```

Out[101]:

	fighter_first	fighter_last	sherdog_urls
2	Tony	Galindo	https://www.sherdog.com/fighter/Tony-Galindo-1...
3	Kurt	Rojo	https://www.sherdog.com/fighter/Kurt-Rojo-2</l...
4	Brian	Hawkins	https://www.sherdog.com/fighter/Brian-Hawkins-...
5	Ken	Shamrock	https://www.sherdog.com/fighter/Ken-Shamrock-4...
6	Alexander	Otsuka	https://www.sherdog.com/fighter/Alexander-Otsu...
...
19997	Tim	Samelstad	https://www.sherdog.com/fighter/Tim-Samelstad-...
19998	Nick	Edwards	https://www.sherdog.com/fighter/Nick-Edwards-2...
19999	Curtis	Demarce	https://www.sherdog.com/fighter/Curtis-Demarce...
20000	Tommy	Long	https://www.sherdog.com/fighter/Tommy-Long-207...
20001	Sybil	Starr	https://www.sherdog.com/fighter/Sybil-Starr-20...

20000 rows x 3 columns

In [102]:

```
df.to_csv('data/final/aggregates/Sherdog_Fighter_URLs.csv', index = False)
```

Scraping UFC.com

The UFC.COM site has 52 sub-sitemaps. Scraping can also be done this way.

In [103]:

```
def scrape_ufc_com_from_sitemap(map_num):  
  
    #As of now, there are 52 sub-sitemaps  
  
    numz = np.arange(1, map_num, 1)  
    numz = numz.astype(str)  
    numz = numz.tolist()  
    urls = []  
    for num in numz:  
        url = 'https://www.ufc.com/sitemap.xml?page=' + num  
        response = requests.get(url)  
        soup = BeautifulSoup(response.text, 'lxml')  
        for link in soup.find_all('loc'):  
            urls.append(link.get_text())  
  
    # keep only links with 'athlete' in them  
    urls = [s for s in urls if "/athlete/" in s]  
    return urls
```

In [104]:

```
all_ufc_com_athletes = scrape_ufc_com_from_sitemap(53)
```

In [105]:

```
all_ufc_com_athletes = pd.DataFrame(all_ufc_com_athletes)  
all_ufc_com_athletes.columns = ['url']
```

In [106]:

```
all_ufc_com_athletes.head()
```

Out[106]:

	url
0	https://www.ufc.com/athlete/shanna-young
1	https://www.ufc.com/athlete/spike-carlyle
2	https://www.ufc.com/athlete/joshua-culibao
3	https://www.ufc.com/athlete/david-dvorak
4	https://www.ufc.com/athlete/darrick-minner

In [107]:

```
all_ufc_com_athletes['fighter_name'] = all_ufc_com_athletes['url'].str.split('/').str[-1]  
.str.replace('-', ' ').str.title()  
all_ufc_com_athletes.head()
```

Out[107]:

	url	fighter_name
0	https://www.ufc.com/athlete/shanna-young	Shanna Young

	url	fighter_name
1	https://www.ufc.com/athlete/spike-carlyle	Spike Carlyle
2	https://www.ufc.com/athlete/joshua-culibao	Joshua Culibao
3	https://www.ufc.com/athlete/david-dvorak	David Dvorak
4	https://www.ufc.com/athlete/darrick-minner	Darrick Minner

In [108]:

```
all_ufc_com_athletes.to_csv('data/final/aggregates/all_ufcCom_athletes_list.csv', index =
False)
```