

```
In [0]: !pip install twython
        from bs4 import BeautifulSoup
        import requests
        import pandas as pd
```

Requirement already satisfied: twython in /usr/local/lib/python3.6/dist-packages (3.8.2)  
Requirement already satisfied: requests>=2.1.0 in /usr/local/lib/python3.6/dist-packages (from twython) (2.21.0)  
Requirement already satisfied: requests-oauthlib>=0.4.0 in /usr/local/lib/python3.6/dist-packages (from twython) (1.3.0)  
Requirement already satisfied: urllib3<1.25,>=1.21.1 in /usr/local/lib/python3.6/dist-packages (from requests>=2.1.0->twython) (1.24.3)  
Requirement already satisfied: idna<2.9,>=2.5 in /usr/local/lib/python3.6/dist-packages (from requests>=2.1.0->twython) (2.8)  
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.6/dist-packages (from requests>=2.1.0->twython) (2020.4.5.1)  
Requirement already satisfied: chardet<3.1.0,>=3.0.2 in /usr/local/lib/python3.6/dist-packages (from requests>=2.1.0->twython) (3.0.4)  
Requirement already satisfied: oauthlib>=3.0.0 in /usr/local/lib/python3.6/dist-packages (from requests-oauthlib>=0.4.0->twython) (3.1.0)

```
In [0]: def getSoup(URL):
        r=requests.get(URL)
        soup=BeautifulSoup(r.content, "html.parser")
        return(soup)
```

```
In [0]: from twython import Twython
        import json
```

```
In [0]: def getTaggedTweets(hashtag):
        """tutorial for accessing twitter api using twython
        link - https://stackabuse.com/accessing-the-twitter-api-with-python/"""

        #api details
        # Enter your keys/secrets as strings in the following fields
        credentials = {}
        credentials['CONSUMER_KEY'] = 'GJrKx4QiGP4VBCvWzWzL9Jc3s'
        credentials['CONSUMER_SECRET'] = 'SRrnCvSvJ75wilwE62wrj22hQGA8rJrNtQJEFNemOR
        gSLQNTqY'
        credentials['ACCESS_TOKEN'] = '1246732645284728832-I6Req08tMqdASeGMK62op2Ygq
        7RXXj'
        credentials['ACCESS_SECRET'] = 'mGeWISnxFe04t0rqtgql7Ql0BPLUgnjeazlodmD1VHNe
        j'

        # Instantiate an object
        python_tweets = Twython(credentials['CONSUMER_KEY'], credentials['CONSUMER_S
        ECRET'])
        # Create our query
        query = {'q': hashtag,
                'result_type': 'mixed',
                'count': 100,
                'lang': 'en'
                }

        # Search tweets
        dict_ = {'user': [], 'date': [], 'text': [], 'favorite_count': [], 'hashtag
        s' : [], 'user_loc' :[]}
        for status in python_tweets.search(**query)['statuses']:

            dict_['user'].append(status['user']['screen_name'])
            dict_['date'].append(status['created_at'])
            dict_['text'].append(status['text'])
            dict_['favorite_count'].append(status['favorite_count'])
            dict_['hashtags'].append([hashtag['text'] for hashtag in status['entitie
            s']['hashtags']])
            dict_['user_loc'].append(status['user']['location'])
            # Structure data in a pandas DataFrame for easier manipulation
            df = pd.DataFrame(dict_)
            return(df)
```

## Top 5 Banks Web Scraping

```
In [0]: wiki_url= "https://en.wikipedia.org/wiki/List_of_largest_banks_in_the_United_S
        tates" #url for getting list
```

```

In [0]: #for getting wiki stuff
wiki_soup = getSoup(wiki_url)
table= wiki_soup.find('table') #print(table)
rows = table.find_all('tr')
columns = [v.text.replace('\n','') for v in rows[0].find_all('th')]
    #for row in table.findAll('tr'):
    #for column in row.findAll('td'):
    #print(columns)
banks_df = pd.DataFrame(columns=columns)
for i in range(1,6):
    tds = rows[i].findAll('td')

    if len(tds) == 4:
        values = [tds[0].text.replace('\n',''), tds[1].text.replace('\n',''), tds[2].text.replace('\n',''), tds[3].text.replace('\n','')]
    else:
        values = [td.text.replace('\n','') for td in tds]

    #print(values)
    banks_df = banks_df.append(pd.Series(values, index=columns), ignore_index=True)

banks_df.head()
banks_df.to_csv(r'wiki_list.csv', index=False, header=True)

#C:\Users\Rohan\Desktop\NEU\Term 2\DMDD\Final project\wiki List\

```

## Bank of America Web Scraping

```

In [0]: bofa_url = "https://careers.bankofamerica.com/en-us/job-search?ref=search&search=jobsByCityCountry&city=Azusa&state=California&country=United+States&searchstring=USA&rows=183"

```

```

In [0]: bofa_soup = getSoup(bofa_url)
        #print(soup)
        job = bofa_soup.find('div', attrs={'aem-wrap--job-search-results-listing-section'})
        #print(job)
        job_name = []
        for row in job.findAll('a'):
            job_name.append(row.text)

```

```

In [0]: locations = []
        dates = []
        for location in bofa_soup.findAll('div', attrs={'class':'job-search-tile__detail'}):
            dates.append((location.text.split("\n")[1]).split()[1])
            locations.append(location.text.split("\n")[2])

```

```
In [0]: print(dates)
```

```
['04/13/2020', '04/16/2020', '04/20/2020', '04/13/2020', '04/21/2020', '04/08/2020', '04/10/2020', '04/10/2020', '04/20/2020', '04/13/2020', '04/08/2020', '04/24/2020', '04/23/2020', '04/23/2020', '04/07/2020', '03/18/2020', '03/02/2020', '04/06/2020', '04/06/2020', '04/12/2020', '04/10/2020', '02/06/2020', '04/01/2020', '03/24/2020', '01/06/2020', '04/10/2020', '04/21/2020', '04/16/2020', '04/15/2020', '04/10/2020', '04/10/2020', '03/25/2020', '04/21/2020', '04/14/2020', '04/21/2020', '04/15/2020', '04/14/2020', '04/21/2020', '04/10/2020', '04/10/2020', '03/26/2020', '03/26/2020', '04/10/2020', '03/18/2020', '04/17/2020', '04/23/2020', '04/22/2020', '04/21/2020', '04/21/2020', '04/21/2020', '04/16/2020', '04/16/2020', '04/15/2020', '04/14/2020', '04/13/2020', '04/13/2020', '04/09/2020', '04/09/2020', '04/09/2020', '04/09/2020', '04/09/2020', '04/08/2020', '04/08/2020', '04/08/2020', '04/08/2020', '04/08/2020', '04/08/2020', '04/08/2020', '04/08/2020', '04/07/2020', '03/26/2020', '03/23/2020', '03/16/2020', '03/13/2020', '02/28/2020', '02/25/2020', '02/06/2020', '02/06/2020', '01/16/2020', '01/14/2020', '01/06/2020', '12/05/2019', '03/17/2020', '04/20/2020', '04/10/2020', '04/10/2020', '03/10/2020', '03/04/2020', '02/10/2020', '04/10/2020', '04/08/2020', '04/20/2020', '04/20/2020', '04/20/2020', '03/24/2020', '02/19/2020', '03/11/2020', '03/16/2020', '04/22/2020', '04/14/2020', '04/10/2020', '04/10/2020', '03/13/2020', '03/02/2020', '02/12/2020', '04/13/2020', '04/10/2020', '04/10/2020', '03/17/2020', '02/14/2020', '04/14/2020', '02/21/2020', '04/14/2020', '03/18/2020', '01/30/2020', '04/10/2020', '03/11/2020', '03/26/2020', '04/21/2020', '04/17/2020', '04/08/2020', '04/08/2020', '04/22/2020', '02/24/2020', '02/24/2020', '04/21/2020', '03/09/2020', '03/06/2020', '04/10/2020', '04/06/2020', '04/03/2020', '04/22/2020', '04/20/2020', '04/15/2020', '04/03/2020', '02/25/2020', '11/19/2019', '04/21/2020', '04/21/2020', '02/19/2020', '04/06/2020', '04/21/2020', '04/08/2020', '02/12/2020', '04/13/2020', '04/08/2020', '04/13/2020', '04/20/2020', '04/10/2020', '04/21/2020', '04/10/2020', '04/02/2020', '03/31/2020', '02/21/2020', '02/06/2020', '03/06/2020', '04/13/2020', '02/27/2020', '04/06/2020', '03/16/2020', '04/20/2020', '03/02/2020', '04/09/2020', '03/17/2020', '04/14/2020', '04/21/2020', '04/16/2020', '04/13/2020', '04/07/2020', '03/16/2020', '03/13/2020', '03/04/2020', '04/22/2020', '03/04/2020', '02/28/2020', '04/23/2020', '01/06/2020']
```

```
In [0]: print(locations)
```

[ 'Azusa, California', 'Multiple Locations', 'Multiple Locations', 'Multiple Locations', 'Rosemead, California', 'Whittier, California', 'Whittier, California', 'Chino Hills, California', 'Multiple Locations', 'Monterey Park, California', 'Brea, California', 'Multiple Locations', 'Multiple Locations', 'Brea, California', 'Brea, California', 'Multiple Locations', 'Upland, California', 'Upland, California', 'Multiple Locations', 'Santa Fe Springs, California', 'La Canada Flintridge, California', 'Ontario, California', 'Ontario, California', 'All U.S. locations considered', 'Fullerton, California', 'Norwalk, California', 'Anaheim, California', 'Anaheim, California', 'Anaheim, California', 'Anaheim, California', 'Huntington Park, California', 'Huntington Park, California', 'Cerritos, California', 'Cerritos, California', 'Cerritos, California', 'Buena Park, California', 'Bellflower, California', 'Bellflower, California', 'Bellflower, California', 'Bellflower, California', 'La Palma, California', 'Glendale, California', 'Lynwood, California', 'Multiple Locations', 'Los Angeles, California', 'Los Angeles, California', 'Los Angeles, California', 'Multiple Locations', 'Los Angeles, California', 'Los Angeles, California', 'Los Angeles, California', 'Los Angeles, California', 'Multiple Locations', 'Multiple Locations', 'Los Angeles, California', 'Los Angeles, California', 'Los Angeles, California', 'Los Angeles, California', 'Multiple Locations', 'Los Angeles, California', 'Los Angeles, California', 'Los Angeles, California', 'Los Angeles, California', 'Los Angeles, California', 'Los Angeles, California', 'Los Angeles, California', 'Multiple Locations', 'Los Angeles, California', 'Los Angeles, California', 'Los Angeles, California', 'Los Angeles, California', 'Multiple Locations', 'All U.S. locations considered', 'Los Angeles, California', 'Palmdale, California', 'Garden Grove, California', 'Garden Grove, California', 'Garden Grove, California', 'Garden Grove, California', 'North Hollywood, California', 'West Hollywood, California', 'West Hollywood, California', 'Santa Ana, California', 'Santa Ana, California', 'Santa Ana, California', 'Santa Ana, California', 'Santa Ana, California', 'Studio City, California', 'Gardena, California', 'Irvine, California', 'Irvine, California', 'Irvine, California', 'Irvine, California', 'Irvine, California', 'Long Beach, California', 'Long Beach, California', 'Long Beach, California', 'Long Beach, California', 'Long Beach, California', 'Inglewood, California', 'Inglewood, California', 'Tustin, California', 'Culver City, California', 'Culver City, California', 'Hawthorne, California', 'Seal Beach, California', 'Sylmar, California', 'Torrance, California', 'Torrance, California', 'Torrance, California', 'West Los Angeles, California', 'Costa Mesa, California', 'El Segundo, California', 'El Segundo, California', 'Harbor City, California', 'Harbor City, California', 'Harbor City, California', 'Riverside, California', 'Riverside, California', 'Beverly Hills, California', 'Pasadena, California', 'Downey, California', 'San Fernando, California', 'Downey, California', 'Multiple Locations', 'Manhattan Beach, California', 'San Pedro, California', 'Marina Del Rey, California', 'Venice, California', 'Santa Monica, California', 'Santa Monica, California', 'Santa Monica, California', 'Redondo Beach, California', 'Redondo Beach, California', 'Encino, California', 'Rolling Hills Estates, California', 'Rolling Hills Estates, California', 'Newport Beach, California', 'Newport Beach, California', 'Newport Beach, California', 'Huntington Beach, California', 'Newport Beach, California', 'Multiple Locations', 'Lake Forest, California', 'Northridge, California', 'Corona Del Mar, California', 'Woodland Hills, California', 'Woodland Hills, California', 'Santa Clarita, California', 'Santa Clarita, California', 'Aliso Viejo, California', 'Chatsworth, California', 'Perris, California', 'Moreno Valley, California', 'Lake Elsinore, California', 'San Juan Capistrano, California', 'All U.S. locations considered', 'All U.S. locations considered', 'All U.

```
S. locations considered', 'All U.S. locations considered', 'All U.S. location  
s considered', 'All U.S. locations considered', 'All U.S. locations considere  
d', 'All U.S. locations considered', 'All U.S. locations considered']
```

In [0]: `print(job_name)`



9/36

tive', 'Client Service Representative', 'Client Service Representative', 'Wealth Management Banking Specialist - Irvine, CA', 'Client Service Representative', 'Small Business Banker, Irvine, CA', 'Consumer Investments Financial Solutions Advisor - Los Altos Financial Center - Long Beach, CA', 'Client Service Representative', 'Client Service Representative', 'Small Business Banker, Long Beach, CA', 'Client Service Representative', 'Client Service Representative', 'Client Service Representative', 'Client Service Representative', 'Client Service Representative', 'Client Service Representative', 'Wealth Management Banking Specialist -Costa Mesa, CA', 'Analyst-Investments', 'Analyst-Investments', 'Client Service Representative', 'Relationship Banker - Harbor City Financial Center -Harbor City, CA - (Bilingual Spanish Preferred)', 'Client Service Representative', 'Client Service Representative', 'Client Service Representative', 'Client Service Representative', 'Client Service Representative', 'Wealth Management Banking Specialist - Pasadena, CA', 'Client Service Representative', 'Client Service Representative', 'Client Service Representative', 'Team Lead- Mainframe Application Development Programming', 'Client Service Representative', 'Client Service Representative', 'Client Service Representative', 'Client Service Representative', 'Client Service Representative', 'Consumer Investment Financial Solutions Advisor - Lincoln Manchester Financial Center- Los Angeles, CA', 'Client Service Representative', 'Relationship Banker - Riviera Village Financial Center - Redondo Beach, CA', 'Relationship Banker - Encino Financial Center - Encino, CA', 'Wealth Management Banking Specialist - Rolling Hills Estate, CA', 'Client Service Representative', 'Wealth Management Banking Specialist -Newport Beach, CA', 'Client Service Representative', 'Client Associate', 'Client Service Representative', 'Merrill Financial Solutions Advisor - Newport Office - Newport Beach, CA', 'Credit Products Manager', 'Client Service Representative', 'Relationship Banker - Devonshire-Reseda Financial Center - Northridge, CA', 'Small Business Consultant - Corona Del Mar Financial Center- Corona Del Mar, CA', 'Wealth Management Banking Specialist - Woodland Hills, CA', 'Client Service Representative', 'Relationship Banker - Bouquet Canyon Financial Center - Santa Clarita, CA - Preferred Language: Spanish', 'Client Service Representative', 'Relationship Banker- Aliso Viejo Financial Center- Aliso Viejo, CA', 'Relationship Banker - Chatworth Industrial Financial Center - Chatsworth, CA- Spanish Required', 'Client Service Representative', 'Client Service Representative', 'Client Service Representative', 'Relationship Banker- San Juan Capistrano Financial Center- San Juan Capistrano, CA- Spanish Language Preferred', 'Merrill Lynch Wealth Management Market Executive Leadership Academy - Opportunities Nationwide', 'Product Insights Product Manager', 'Card Network Fee Execution', 'Payments Compliance Analyst', 'Interchange Analyst', 'Payments Compliance Team Lead', 'Approval Officer II', 'Employee Benefits Specialist - NE Regions', 'Retirement & Personal Wealth Benefits Specialist - NE/SE/Mid-Atlantic Regions']

```
In [0]: def getJobsDf(jobs, loc, dates):
        df = pd.DataFrame({'Job Name':jobs, 'Location':loc, 'Date Posted': dates})
        df.head()
        return(df)
```

```
In [0]: bofa_df = getJobsDf(job_name, locations, dates)
```

```
In [0]: bofa_df.head()
```

```
Out[0]:
```

	Job Name	Location	Date Posted
0	Merchant Services Consultant – Azusa/Baldwin P...	Azusa, California	04/13/2020
1	Merchant Services Consultant - East LA	Multiple Locations	04/16/2020
2	Merchant Services Consultant	Multiple Locations	04/20/2020
3	Merchant Services Consultant – Arcadia/Pasaden...	Multiple Locations	04/13/2020
4	Merchant Services Consultant – San Gabriel Val...	Multiple Locations	04/21/2020

```
In [0]: bofa_df.to_csv(r'bofa_job_list.csv',index=False, header=True)
```

## Bank of America Twitter Data

```
In [0]: bofa_tweet = getTaggedTweets('#bankofamerica')
```

```
In [0]: bofa_tweet.head()
```

```
Out[0]:
```

	user	date	text	favorite_count	hashtags	user_loc
0	EyeCapital	Fri Apr 24 16:42:52 +0000 2020	RT @sussenglish: The big banks reported #earni...	0	[earnings, BankofAmerica, WellsFargo]	
1	sussenglish	Fri Apr 24 16:41:54 +0000 2020	The big banks reported #earnings last week.Thi...	1	[earnings, BankofAmerica, WellsFargo]	Argentina
2	datoeconomia	Fri Apr 24 16:18:01 +0000 2020	#OOTT #OIL \n#BankofAmerica has advised client...	1	[OOTT, OIL, BankofAmerica]	
3	dapinski	Fri Apr 24 16:14:23 +0000 2020	Anyone that continues to say that the big #ban...	0	[banks, JPMorgan]	Philadelphia, PA
4	artaronoff	Fri Apr 24 16:06:30 +0000 2020	#bankofamerica anyone home? No one calls back...	3	[bankofamerica]	

```
In [0]: bofa_tweet.to_csv(r'bofa tweets.csv',index=False, header=True)
```

## JPMorgan Chase Co. Web Scrapping

```
In [0]: import re
```

```
In [0]: jpmc_url = "https://jobs.jpmorganchase.com/ListJobs/ByCountry/US/"
```

```
In [0]: jpmc_soup = getSoup(jpmc_url)
        #print(jpmc_soup)# , 'style':'display: block;'
        table = jpmc_soup.find('table')
        #print(table)

        job_name = []
        locations = []
        dates = []
        for row in table.findAll('tr'):
            #print(row)
            job = row.find('td', {'class': 'coloriginaljobtitle'})
            if job != None:
                job_name.append(job.a.text)
            location = row.find('td', {'class': 'colstate'})
            city = row.find('td', {'class': 'colcity'})
            if location != None:
                locations.append(city.text.strip() + ", " + location.text.strip())
            date_post = row.find('td', {'class': 'colpostedon'}) #colpostedon
            if date_post != None:
                dates.append(date_post.text.strip())
```

In [0]: job\_name

```
Out[0]: ['Principal Collateral Operations - Regulatory IM Onboarding Team',
'VP, Site Reliability Engineer',
'Commercial Bank - Product Delivery Integrated Receivables - Receivables Onl
ine - Chicago, Dallas, Columbus, Phoenix, or Tampa - Executive Director',
'Commercial Bank - Product Delivery Integrated Receivables - Receivables Onl
ine - Chicago, Dallas, Columbus, Phoenix, or Tampa - Executive Director',
'Commercial Bank - Product Delivery Integrated Receivables - Receivables Onl
ine - Chicago, Dallas, Columbus, Phoenix, or Tampa - Executive Director',
'Commercial Bank - Product Delivery Integrated Receivables - Receivables Onl
ine - Chicago, Dallas, Columbus, Phoenix, or Tampa - Executive Director',
'Commercial Bank - Product Delivery Integrated Receivables - Receivables Onl
ine - Chicago, Dallas, Columbus, Phoenix, or Tampa - Executive Director',
'Commercial Bank - Product Delivery Integrated Receivables - Receivables Onl
ine - Chicago, Dallas, Columbus, Phoenix, or Tampa - Executive Director',
'Commercial Banking - Wholesale Lending Services - Operations Team Leader (C
hicago, IL)',
'Infrastructure Support - Managed File Transfer',
'Commercial Bank - Collateral Release Document Processing Specialist - Whol
esale Lending Services ( Chicago, IL )',
'Senior Operations Manager - Data Storage',
'Software Engineer',
'Software Engineering - Full Stack Java / REST / Microservices Lead',
'Senior Software Engineer',
'Network Management Infrastructure Engineer',
'Employee Experience - User Experience Lead',
'VP, Site Reliability Engineer',
'CIB QR - Quantitative Research - Prime Finance & Delta 1 - Associate/Vice P
resident',
'Chase Consumer Banking - Pittsburgh Market - Branch Manager Trainee - Wilki
nsburg Branch - Pittsburgh, PA',
'Chase Consumer Banking - Pittsburgh Market - Branch Manager Trainee - Wilki
nsburg Branch - Pittsburgh, PA',
'Chase Consumer Banking - Pittsburgh Market - Branch Manager Trainee - Bridg
eville Branch - Pittsburgh, PA',
'Chase Consumer Banking - Pittsburgh Market - Branch Manager Trainee - Bridg
eville Branch - Pittsburgh, PA',
'Chase Consumer Banking - Pittsburgh Market - Branch Manager Trainee - Sewic
kley Branch - Pittsburgh, PA',
'Chase Consumer Banking - Pittsburgh Market - Branch Manager Trainee - Sewic
kley Branch - Pittsburgh, PA',
'Chae Consumer Banking - Pittsburgh Market - Branch Manager Trainee - Oaklan
d Branch - Pittsburgh, PA',
'Chase Consumer Banking - Mid-Atlantic Region - Private Client Banker - Pike
sville East Branch - Baltimore, MD',
'Chase Consumer Banking - Mid-Atlantic Region - Private Client Banker - Pike
sville East Branch - Baltimore, MD',
'Chase Consumer Banking - Mid-Atlantic Region - Relationship Banker - Pikesv
ille East Branch - Baltimore, MD',
'Chase Consumer Banking - Mid-Atlantic Region - Relationship Banker - Pikesv
ille East Branch - Baltimore, MD',
'Chase Consumer Banking - Mid-Atlantic Region - Relationship Banker - Connec
ticut Avenue and Porter Street Branch - Washington, DC']
```

In [0]: locations

Out[0]: ['Newark, DE',  
 'Wilmington, DE',  
 'Tempe, AZ',  
 'Tampa, FL',  
 'Dallas, TX',  
 'Columbus, OH',  
 'Chicago, IL',  
 'Chicago, IL',  
 'Lewisville, TX',  
 'Chicago, IL',  
 'Houston, TX',  
 'Houston, TX',  
 'Tampa, FL',  
 'Houston, TX',  
 'Columbus, OH',  
 'Jersey City, NJ',  
 'Wilmington, DE',  
 'New York, NY',  
 'Pittsburgh, PA',  
 'Pittsburgh, PA',  
 'Bridgeville, PA',  
 'Pittsburgh, PA',  
 'Sewickley, PA',  
 'Pittsburgh, PA',  
 'Pittsburgh, PA',  
 'Baltimore, MD',  
 'Baltimore, MD',  
 'Baltimore, MD',  
 'Baltimore, MD',  
 'Washington, DC']

In [0]: *#df name*  
 jpmc\_df = getJobsDf(job\_name, locations, dates)

In [0]: jpmc\_df.head()

Out[0]:

	Job Name	Location	Date Posted
0	Principal Collateral Operations - Regulatory I...	Newark, DE	4-24-2020
1	VP, Site Reliability Engineer	Wilmington, DE	4-24-2020
2	Commercial Bank – Product Delivery Integrated ...	Tempe, AZ	4-24-2020
3	Commercial Bank – Product Delivery Integrated ...	Tampa, FL	4-24-2020
4	Commercial Bank – Product Delivery Integrated ...	Dallas, TX	4-24-2020

In [0]: *#for internship*  
 jpmc\_df.to\_csv(r'jpmorganchase\_job\_list.csv', index=False, header=True)

## JPMorgan Chase Co. Twitter Data

```
In [0]: # Structure data in a pandas DataFrame for easier manipulation
jpmc_tweets = getTaggedTweets("#jpmorganchase")
```

```
In [0]: jpmc_tweets.head(5)
```

Out[0]:

	user	date	text	favorite_count	hashtags	user_loc
0	EyeCapital	Fri Apr 24 16:42:52 +0000 2020	RT @sussenglish: The big banks reported #earni...	0	[earnings, BankofAmerica, WellsFargo]	
1	sussenglish	Fri Apr 24 16:41:54 +0000 2020	The big banks reported #earnings last week.Thi...	1	[earnings, BankofAmerica, WellsFargo]	Argentina
2	jktv	Fri Apr 24 14:40:29 +0000 2020	Update on #PPPlans from the #SBA. Reports tha...	0	[PPPlans, SBA]	Chicago, IL
3	learn__together	Fri Apr 24 11:28:32 +0000 2020	RT @ishukhanchi: Today, I have successfully co...	0	[]	Japan
4	femtech_	Fri Apr 24 11:28:32 +0000 2020	RT @ishukhanchi: Today, I have successfully co...	0	[]	Berlin, Deutschland

```
In [0]: jpmc_tweets.to_csv("JPMC_twitter.csv")
```

## Wells Fargo Web Scraping

```
In [0]: wells_url='https://employment.wellsfargo.com/psc/PSEA/APPLICANT_NW/HRMS/c/HRS_
HRAM_FL.HRS_CG_SEARCH_FL.GBL?Page=HRS_APP_SCHJOB_FL&Action=U'
```

```
In [0]: wells_soup = getSoup(wells_url)

#job_search = soup.find('div', {'title':'Search Results List', 'class':'ps_grid-list'})

#job_search = soup.find('div', {'id':"win0divHRS_AGNT_RSLT_I$grid$0" })
job_list = wells_soup.find('ul', {'class':'ps_grid-body'})
#
print(job_list)
```



```

<ul class="ps_grid-body"><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_0">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$0">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-normal" id="win0divPTS_SELECT$0"><input class="psc_off" id="PTS_SELECT$chk$0" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$0" onclick="doRadioOuterClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT$0" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(this, 'PTS_SELECT$chk$0');addchg_win0(this);submitAction_win0(this.form,this.id);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg="0" ptchecked_val="Y" ptunchecked_val="N" title="Alabama (12)" type="checkbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$0" ptchecked_text="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span class="psc_off_container">No</span></label></div><div class="ps_box-label ps_right" id="win0divPTS_SELECTlbl$0"><label class="ps-label" for="PTS_SELECT$0" id="PTS_SELECT_LBL$0">Alabama (12)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_1">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$1">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-normal" id="win0divPTS_SELECT$1"><input class="psc_off" id="PTS_SELECT$chk$1" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$1" onclick="doRadioOuterClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT$1" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(this, 'PTS_SELECT$chk$1');addchg_win0(this);submitAction_win0(this.form,this.id);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg="0" ptchecked_val="Y" ptunchecked_val="N" title="Alaska (4)" type="checkbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$1" ptchecked_text="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span class="psc_off_container">No</span></label></div><div class="ps_box-label ps_right" id="win0divPTS_SELECTlbl$1"><label class="ps-label" for="PTS_SELECT$1" id="PTS_SELECT_LBL$1">Alaska (4)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_2">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$2">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-normal" id="win0divPTS_SELECT$2"><input class="psc_off" id="PTS_SELECT$chk$2" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$2" onclick="doRadioOuterClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT$2" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(this, 'PTS_SELECT$chk$2');addchg_win0(this);submitAction_win0(this.form,this.id);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg="0" ptchecked_val="Y" ptunchecked_val="N" title="Arizona (317)" type="checkbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$2" ptchecked_text="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span class="psc_off_container">No</span></label></div><div class="ps_box-label ps_right" id="win0divPTS_SELECTlbl$2"><label class="ps-label" for="PTS_SELECT$2" id="PTS_SELECT_LBL$2">Arizona (317)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_3">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$3">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-normal" id="win0divPTS_SELECT$3"><input class="psc_off" id="PTS_SELECT$chk$3" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$3" onclick="doRadioOuterClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT$3" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(thi

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s, 'PTS_SELECT$chk$3');addchg_win0(this);submitAction_win0(this.form,this.i
d);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg
="0" ptchecked_val="Y" ptunchecked_val="N" title="Arkansas (1)" type="checkbo
x" value="Y"/><label class="ps_indicator" for="PTS_SELECT$3" ptchecked_text
="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span c
lass="psc_off_container">No</span></label></div><div class="ps_box-label ps_r
ight" id="win0divPTS_SELECTlbl$3"><label class="ps-label" for="PTS_SELECT$3"
id="PTS_SELECT_LBL$3">Arkansas (1)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_4">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$4">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-n
ormal" id="win0divPTS_SELECT$4"><input class="psc_off" id="PTS_SELECT$chk$4"
type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$4" onclick="doRadioOute
rClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT
$4" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(thi
s, 'PTS_SELECT$chk$4');addchg_win0(this);submitAction_win0(this.form,this.i
d);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg
="0" ptchecked_val="Y" ptunchecked_val="N" title="California (159)" type="che
ckbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$4" ptchecked_te
xt="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span
class="psc_off_container">No</span></label></div><div class="ps_box-label ps_r
ight" id="win0divPTS_SELECTlbl$4"><label class="ps-label" for="PTS_SELECT$4"
id="PTS_SELECT_LBL$4">California (159)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_5">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$5">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-n
ormal" id="win0divPTS_SELECT$5"><input class="psc_off" id="PTS_SELECT$chk$5"
type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$5" onclick="doRadioOute
rClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT
$5" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(thi
s, 'PTS_SELECT$chk$5');addchg_win0(this);submitAction_win0(this.form,this.i
d);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg
="0" ptchecked_val="Y" ptunchecked_val="N" title="Colorado (32)" type="checkb
ox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$5" ptchecked_text
="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span c
lass="psc_off_container">No</span></label></div><div class="ps_box-label ps_r
ight" id="win0divPTS_SELECTlbl$5"><label class="ps-label" for="PTS_SELECT$5"
id="PTS_SELECT_LBL$5">Colorado (32)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_6">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$6">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-n
ormal" id="win0divPTS_SELECT$6"><input class="psc_off" id="PTS_SELECT$chk$6"
type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$6" onclick="doRadioOute
rClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT
$6" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(thi
s, 'PTS_SELECT$chk$6');addchg_win0(this);submitAction_win0(this.form,this.i
d);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg
="0" ptchecked_val="Y" ptunchecked_val="N" title="Connecticut (9)" type="chec
kbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$6" ptchecked_tex
t="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span
class="psc_off_container">No</span></label></div><div class="ps_box-label ps_r
ight" id="win0divPTS_SELECTlbl$6"><label class="ps-label" for="PTS_SELECT$6"
id="PTS_SELECT_LBL$6">Connecticut (9)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_7">

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<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$7">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-normal" id="win0divPTS_SELECT$7"><input class="psc_off" id="PTS_SELECT$chk$7" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$7" onclick="doRadioOuterClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT$7" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(this, 'PTS_SELECT$chk$7');addchg_win0(this);submitAction_win0(this.form,this.id);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg="0" ptchecked_val="Y" ptunchecked_val="N" title="Delaware (12)" type="checkbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$7" ptchecked_text="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span class="psc_off_container">No</span></label></div><div class="ps_box-label ps_right" id="win0divPTS_SELECTlbl$7"><label class="ps-label" for="PTS_SELECT$7" id="PTS_SELECT_LBL$7">Delaware (12)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_8">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$8">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-normal" id="win0divPTS_SELECT$8"><input class="psc_off" id="PTS_SELECT$chk$8" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$8" onclick="doRadioOuterClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT$8" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(this, 'PTS_SELECT$chk$8');addchg_win0(this);submitAction_win0(this.form,this.id);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg="0" ptchecked_val="Y" ptunchecked_val="N" title="District of Columbia (6)" type="checkbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$8" ptchecked_text="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span class="psc_off_container">No</span></label></div><div class="ps_box-label ps_right" id="win0divPTS_SELECTlbl$8"><label class="ps-label" for="PTS_SELECT$8" id="PTS_SELECT_LBL$8">District of Columbia (6)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_9">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$9">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-normal" id="win0divPTS_SELECT$9"><input class="psc_off" id="PTS_SELECT$chk$9" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$9" onclick="doRadioOuterClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT$9" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(this, 'PTS_SELECT$chk$9');addchg_win0(this);submitAction_win0(this.form,this.id);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg="0" ptchecked_val="Y" ptunchecked_val="N" title="Florida (30)" type="checkbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$9" ptchecked_text="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span class="psc_off_container">No</span></label></div><div class="ps_box-label ps_right" id="win0divPTS_SELECTlbl$9"><label class="ps-label" for="PTS_SELECT$9" id="PTS_SELECT_LBL$9">Florida (30)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_10">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$10">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-normal" id="win0divPTS_SELECT$10"><input class="psc_off" id="PTS_SELECT$chk$10" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$10" onclick="doRadioOuterClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT$10" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(this, 'PTS_SELECT$chk$10');addchg_win0(this);submitAction_win0(this.form,this.id);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg

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="0" ptchecked_val="Y" ptunchecked_val="N" title="Georgia (28)" type="checkbox"
value="Y"/><label class="ps_indicator" for="PTS_SELECT$10" ptchecked_text
="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span c
lass="psc_off_container">No</span></label></div><div class="ps_box-label ps_r
ight" id="win0divPTS_SELECTlbl$10"><label class="ps-label" for="PTS_SELECT$1
0" id="PTS_SELECT_LBL$10">Georgia (28)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_11">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$11">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-n
ormal" id="win0divPTS_SELECT$11"><input class="psc_off" id="PTS_SELECT$chk$1
1" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$11" onclick="doRadioOut
erClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT
$11" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(th
is, 'PTS_SELECT$chk$11');addchg_win0(this);submitAction_win0(this.form,this.i
d);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg
="0" ptchecked_val="Y" ptunchecked_val="N" title="Idaho (5)" type="checkbox"
value="Y"/><label class="ps_indicator" for="PTS_SELECT$11" ptchecked_text="Ye
s" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span class
="psc_off_container">No</span></label></div><div class="ps_box-label ps_righ
t" id="win0divPTS_SELECTlbl$11"><label class="ps-label" for="PTS_SELECT$11" i
d="PTS_SELECT_LBL$11">Idaho (5)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_12">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$12">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-n
ormal" id="win0divPTS_SELECT$12"><input class="psc_off" id="PTS_SELECT$chk$1
2" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$12" onclick="doRadioOut
erClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT
$12" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(th
is, 'PTS_SELECT$chk$12');addchg_win0(this);submitAction_win0(this.form,this.i
d);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg
="0" ptchecked_val="Y" ptunchecked_val="N" title="Illinois (139)" type="check
box" value="Y"/><label class="ps_indicator" for="PTS_SELECT$12" ptchecked_tex
t="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span
class="psc_off_container">No</span></label></div><div class="ps_box-label ps_
right" id="win0divPTS_SELECTlbl$12"><label class="ps-label" for="PTS_SELECT$1
2" id="PTS_SELECT_LBL$12">Illinois (139)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_13">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$13">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-n
ormal" id="win0divPTS_SELECT$13"><input class="psc_off" id="PTS_SELECT$chk$1
3" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$13" onclick="doRadioOut
erClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT
$13" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(th
is, 'PTS_SELECT$chk$13');addchg_win0(this);submitAction_win0(this.form,this.i
d);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg
="0" ptchecked_val="Y" ptunchecked_val="N" title="Indiana (3)" type="checkbo
x" value="Y"/><label class="ps_indicator" for="PTS_SELECT$13" ptchecked_text
="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span c
lass="psc_off_container">No</span></label></div><div class="ps_box-label ps_r
ight" id="win0divPTS_SELECTlbl$13"><label class="ps-label" for="PTS_SELECT$1
3" id="PTS_SELECT_LBL$13">Indiana (3)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_14">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$14">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-n

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ormal" id="win0divPTS_SELECT$14"><input class="psc_off" id="PTS_SELECT$chk$1
4" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$14" onclick="doRadioOut
erClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT
$14" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(th
is, 'PTS_SELECT$chk$14');" addchg_win0(this);submitAction_win0(this.form,this.i
d);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg
="0" ptchecked_val="Y" ptunchecked_val="N" title="Iowa (215)" type="checkbox"
value="Y"/><label class="ps_indicator" for="PTS_SELECT$14" ptchecked_text="Ye
s" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span class
="psc_off_container">No</span></label></div><div class="ps_box-label ps_righ
t" id="win0divPTS_SELECTlbl$14"><label class="ps-label" for="PTS_SELECT$14" i
d="PTS_SELECT_LBL$14">Iowa (215)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_15">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$15">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-n
ormal" id="win0divPTS_SELECT$15"><input class="psc_off" id="PTS_SELECT$chk$1
5" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$15" onclick="doRadioOut
erClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT
$15" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(th
is, 'PTS_SELECT$chk$15');" addchg_win0(this);submitAction_win0(this.form,this.i
d);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg
="0" ptchecked_val="Y" ptunchecked_val="N" title="Kansas (3)" type="checkbox"
value="Y"/><label class="ps_indicator" for="PTS_SELECT$15" ptchecked_text="Ye
s" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span class
="psc_off_container">No</span></label></div><div class="ps_box-label ps_righ
t" id="win0divPTS_SELECTlbl$15"><label class="ps-label" for="PTS_SELECT$15" i
d="PTS_SELECT_LBL$15">Kansas (3)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_16">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$16">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-n
ormal" id="win0divPTS_SELECT$16"><input class="psc_off" id="PTS_SELECT$chk$1
6" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$16" onclick="doRadioOut
erClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT
$16" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(th
is, 'PTS_SELECT$chk$16');" addchg_win0(this);submitAction_win0(this.form,this.i
d);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg
="0" ptchecked_val="Y" ptunchecked_val="N" title="Kentucky (1)" type="checkbo
x" value="Y"/><label class="ps_indicator" for="PTS_SELECT$16" ptchecked_text
="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span c
lass="psc_off_container">No</span></label></div><div class="ps_box-label ps_r
ight" id="win0divPTS_SELECTlbl$16"><label class="ps-label" for="PTS_SELECT$1
6" id="PTS_SELECT_LBL$16">Kentucky (1)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_17">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$17">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-n
ormal" id="win0divPTS_SELECT$17"><input class="psc_off" id="PTS_SELECT$chk$1
7" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$17" onclick="doRadioOut
erClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT
$17" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(th
is, 'PTS_SELECT$chk$17');" addchg_win0(this);submitAction_win0(this.form,this.i
d);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg
="0" ptchecked_val="Y" ptunchecked_val="N" title="Maryland (26)" type="checkb
ox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$17" ptchecked_text

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= "Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span c
class="psc_off_container">No</span></label></div><div class="ps_box-label ps_r
ight" id="win0divPTS_SELECTlbl$17"><label class="ps-label" for="PTS_SELECT$1
7" id="PTS_SELECT_LBL$17">Maryland (26)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_18">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$18">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-n
ormal" id="win0divPTS_SELECT$18"><input class="psc_off" id="PTS_SELECT$chk$1
8" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$18" onclick="doRadioOut
erClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT
$18" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(th
is, 'PTS_SELECT$chk$18');" addchg_win0(this);submitAction_win0(this.form,this.i
d);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg
="0" ptchecked_val="Y" ptunchecked_val="N" title="Massachusetts (26)" type="c
heckbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$18" ptchecked
_text="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><s
pan class="psc_off_container">No</span></label></div><div class="ps_box-label
ps_right" id="win0divPTS_SELECTlbl$18"><label class="ps-label" for="PTS_SELEC
T$18" id="PTS_SELECT_LBL$18">Massachusetts (26)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_19">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$19">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-n
ormal" id="win0divPTS_SELECT$19"><input class="psc_off" id="PTS_SELECT$chk$1
9" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$19" onclick="doRadioOut
erClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT
$19" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(th
is, 'PTS_SELECT$chk$19');" addchg_win0(this);submitAction_win0(this.form,this.i
d);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg
="0" ptchecked_val="Y" ptunchecked_val="N" title="Michigan (4)" type="checkbo
x" value="Y"/><label class="ps_indicator" for="PTS_SELECT$19" ptchecked_text
="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span c
lass="psc_off_container">No</span></label></div><div class="ps_box-label ps_r
ight" id="win0divPTS_SELECTlbl$19"><label class="ps-label" for="PTS_SELECT$1
9" id="PTS_SELECT_LBL$19">Michigan (4)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_20">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$20">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-n
ormal" id="win0divPTS_SELECT$20"><input class="psc_off" id="PTS_SELECT$chk$2
0" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$20" onclick="doRadioOut
erClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT
$20" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(th
is, 'PTS_SELECT$chk$20');" addchg_win0(this);submitAction_win0(this.form,this.i
d);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg
="0" ptchecked_val="Y" ptunchecked_val="N" title="Minnesota (379)" type="chec
kbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$20" ptchecked_te
xt="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span
class="psc_off_container">No</span></label></div><div class="ps_box-label ps_
right" id="win0divPTS_SELECTlbl$20"><label class="ps-label" for="PTS_SELECT$2
0" id="PTS_SELECT_LBL$20">Minnesota (379)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_21">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$21">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-n
ormal" id="win0divPTS_SELECT$21"><input class="psc_off" id="PTS_SELECT$chk$2
1" type="hidden" value="N"/>
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<div class="ps_box-control" id="win0divPTS_SELECTctrl$21" onclick="doRadioOuterClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT$21" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(this, 'PTS_SELECT$chk$21');addchg_win0(this);submitAction_win0(this.form,this.id);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg="0" ptchecked_val="Y" ptunchecked_val="N" title="Mississippi (3)" type="checkbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$21" ptchecked_text="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span class="psc_off_container">No</span></label></div><div class="ps_box-label ps_right" id="win0divPTS_SELECTlbl$21"><label class="ps-label" for="PTS_SELECT$21" id="PTS_SELECT_LBL$21">Mississippi (3)</label></div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_22"><div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$22"><div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-normal" id="win0divPTS_SELECT$22"><input class="psc_off" id="PTS_SELECT$chk$22" type="hidden" value="N"/><div class="ps_box-control" id="win0divPTS_SELECTctrl$22" onclick="doRadioOuterClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT$22" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(this, 'PTS_SELECT$chk$22');addchg_win0(this);submitAction_win0(this.form,this.id);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg="0" ptchecked_val="Y" ptunchecked_val="N" title="Missouri (118)" type="checkbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$22" ptchecked_text="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span class="psc_off_container">No</span></label></div><div class="ps_box-label ps_right" id="win0divPTS_SELECTlbl$22"><label class="ps-label" for="PTS_SELECT$22" id="PTS_SELECT_LBL$22">Missouri (118)</label></div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_23"><div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$23"><div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-normal" id="win0divPTS_SELECT$23"><input class="psc_off" id="PTS_SELECT$chk$23" type="hidden" value="N"/><div class="ps_box-control" id="win0divPTS_SELECTctrl$23" onclick="doRadioOuterClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT$23" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(this, 'PTS_SELECT$chk$23');addchg_win0(this);submitAction_win0(this.form,this.id);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg="0" ptchecked_val="Y" ptunchecked_val="N" title="Montana (5)" type="checkbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$23" ptchecked_text="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span class="psc_off_container">No</span></label></div><div class="ps_box-label ps_right" id="win0divPTS_SELECTlbl$23"><label class="ps-label" for="PTS_SELECT$23" id="PTS_SELECT_LBL$23">Montana (5)</label></div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_24"><div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$24"><div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-normal" id="win0divPTS_SELECT$24"><input class="psc_off" id="PTS_SELECT$chk$24" type="hidden" value="N"/><div class="ps_box-control" id="win0divPTS_SELECTctrl$24" onclick="doRadioOuterClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT$24" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(this, 'PTS_SELECT$chk$24');addchg_win0(this);submitAction_win0(this.form,this.id);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg="0" ptchecked_val="Y" ptunchecked_val="N" title="Nebraska (2)" type="checkbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$24" ptchecked_text="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span class="psc_off_container">No</span></label></div><div class="ps_box-label ps_r
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ight" id="win0divPTS_SELECTlbl$24"><label class="ps-label" for="PTS_SELECT$2
4" id="PTS_SELECT_LBL$24">Nebraska (2)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_25">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$25">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-n
ormal" id="win0divPTS_SELECT$25"><input class="psc_off" id="PTS_SELECT$chk$2
5" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$25" onclick="doRadioOut
erClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT
$25" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(th
is, 'PTS_SELECT$chk$25');addchg_win0(this);submitAction_win0(this.form,this.i
d);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg
="0" ptchecked_val="Y" ptunchecked_val="N" title="Nevada (5)" type="checkbox"
value="Y"/><label class="ps_indicator" for="PTS_SELECT$25" ptchecked_text="Ye
s" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span class
="psc_off_container">No</span></label></div><div class="ps_box-label ps_righ
t" id="win0divPTS_SELECTlbl$25"><label class="ps-label" for="PTS_SELECT$25" i
d="PTS_SELECT_LBL$25">Nevada (5)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_26">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$26">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-n
ormal" id="win0divPTS_SELECT$26"><input class="psc_off" id="PTS_SELECT$chk$2
6" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$26" onclick="doRadioOut
erClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT
$26" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(th
is, 'PTS_SELECT$chk$26');addchg_win0(this);submitAction_win0(this.form,this.i
d);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg
="0" ptchecked_val="Y" ptunchecked_val="N" title="New Hampshire (4)" type="ch
eckbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$26" ptchecked_
text="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><sp
an class="psc_off_container">No</span></label></div><div class="ps_box-label
ps_right" id="win0divPTS_SELECTlbl$26"><label class="ps-label" for="PTS_SELEC
T$26" id="PTS_SELECT_LBL$26">New Hampshire (4)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_27">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$27">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-n
ormal" id="win0divPTS_SELECT$27"><input class="psc_off" id="PTS_SELECT$chk$2
7" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$27" onclick="doRadioOut
erClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT
$27" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(th
is, 'PTS_SELECT$chk$27');addchg_win0(this);submitAction_win0(this.form,this.i
d);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg
="0" ptchecked_val="Y" ptunchecked_val="N" title="New Jersey (149)" type="che
ckbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$27" ptchecked_t
ext="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><spa
n class="psc_off_container">No</span></label></div><div class="ps_box-label p
s_right" id="win0divPTS_SELECTlbl$27"><label class="ps-label" for="PTS_SELECT
$27" id="PTS_SELECT_LBL$27">New Jersey (149)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_28">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$28">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-n
ormal" id="win0divPTS_SELECT$28"><input class="psc_off" id="PTS_SELECT$chk$2
8" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$28" onclick="doRadioOut
erClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT

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$28" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(th
is, 'PTS_SELECT$chk$28');addchg_win0(this);submitAction_win0(this.form,this.i
d);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg
="0" ptchecked_val="Y" ptunchecked_val="N" title="New Mexico (1)" type="check
box" value="Y"/><label class="ps_indicator" for="PTS_SELECT$28" ptchecked_tex
t="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span
class="psc_off_container">No</span></label></div><div class="ps_box-label ps_
right" id="win0divPTS_SELECTlbl$28"><label class="ps-label" for="PTS_SELECT$2
8" id="PTS_SELECT_LBL$28">New Mexico (1)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_29">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$29">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-n
ormal" id="win0divPTS_SELECT$29"><input class="psc_off" id="PTS_SELECT$chk$2
9" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$29" onclick="doRadioOut
erClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT
$29" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(th
is, 'PTS_SELECT$chk$29');addchg_win0(this);submitAction_win0(this.form,this.i
d);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg
="0" ptchecked_val="Y" ptunchecked_val="N" title="New York (102)" type="check
box" value="Y"/><label class="ps_indicator" for="PTS_SELECT$29" ptchecked_tex
t="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span
class="psc_off_container">No</span></label></div><div class="ps_box-label ps_
right" id="win0divPTS_SELECTlbl$29"><label class="ps-label" for="PTS_SELECT$2
9" id="PTS_SELECT_LBL$29">New York (102)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_30">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$30">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-n
ormal" id="win0divPTS_SELECT$30"><input class="psc_off" id="PTS_SELECT$chk$3
0" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$30" onclick="doRadioOut
erClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT
$30" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(th
is, 'PTS_SELECT$chk$30');addchg_win0(this);submitAction_win0(this.form,this.i
d);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg
="0" ptchecked_val="Y" ptunchecked_val="N" title="North Carolina (493)" type
="checkbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$30" ptchec
ked_text="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span>
<span class="psc_off_container">No</span></label></div><div class="ps_box-la
bel ps_right" id="win0divPTS_SELECTlbl$30"><label class="ps-label" for="PTS_S
ELECT$30" id="PTS_SELECT_LBL$30">North Carolina (493)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_31">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$31">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-n
ormal" id="win0divPTS_SELECT$31"><input class="psc_off" id="PTS_SELECT$chk$3
1" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$31" onclick="doRadioOut
erClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT
$31" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(th
is, 'PTS_SELECT$chk$31');addchg_win0(this);submitAction_win0(this.form,this.i
d);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg
="0" ptchecked_val="Y" ptunchecked_val="N" title="North Dakota (9)" type="che
ckbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$31" ptchecked_t
ext="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><s pa
n class="psc_off_container">No</span></label></div><div class="ps_box-label p
s_right" id="win0divPTS_SELECTlbl$31"><label class="ps-label" for="PTS_SELECT
$31" id="PTS_SELECT_LBL$31">North Dakota (9)</label></div>

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</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_32">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$32">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-normal" id="win0divPTS_SELECT$32"><input class="psc_off" id="PTS_SELECT$chk$32" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$32" onclick="doRadioOuterClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT$32" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(this, 'PTS_SELECT$chk$32');addchg_win0(this);submitAction_win0(this.form,this.id);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg="0" ptchecked_val="Y" ptunchecked_val="N" title="Ohio (1)" type="checkbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$32" ptchecked_text="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span class="psc_off_container">No</span></label></div><div class="ps_box-label ps_right" id="win0divPTS_SELECTlbl$32"><label class="ps-label" for="PTS_SELECT$32" id="PTS_SELECT_LBL$32">Ohio (1)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_33">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$33">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-normal" id="win0divPTS_SELECT$33"><input class="psc_off" id="PTS_SELECT$chk$33" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$33" onclick="doRadioOuterClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT$33" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(this, 'PTS_SELECT$chk$33');addchg_win0(this);submitAction_win0(this.form,this.id);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg="0" ptchecked_val="Y" ptunchecked_val="N" title="Oregon (31)" type="checkbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$33" ptchecked_text="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span class="psc_off_container">No</span></label></div><div class="ps_box-label ps_right" id="win0divPTS_SELECTlbl$33"><label class="ps-label" for="PTS_SELECT$33" id="PTS_SELECT_LBL$33">Oregon (31)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_34">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$34">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-normal" id="win0divPTS_SELECT$34"><input class="psc_off" id="PTS_SELECT$chk$34" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$34" onclick="doRadioOuterClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT$34" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(this, 'PTS_SELECT$chk$34');addchg_win0(this);submitAction_win0(this.form,this.id);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg="0" ptchecked_val="Y" ptunchecked_val="N" title="Pennsylvania (95)" type="checkbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$34" ptchecked_text="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span class="psc_off_container">No</span></label></div><div class="ps_box-label ps_right" id="win0divPTS_SELECTlbl$34"><label class="ps-label" for="PTS_SELECT$34" id="PTS_SELECT_LBL$34">Pennsylvania (95)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_35">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$35">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-normal" id="win0divPTS_SELECT$35"><input class="psc_off" id="PTS_SELECT$chk$35" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$35" onclick="doRadioOuterClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT$35" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(this, 'PTS_SELECT$chk$35');addchg_win0(this);submitAction_win0(this.form,this.i
```

```

d);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg
="0" ptchecked_val="Y" ptunchecked_val="N" title="South Carolina (430)" type
="checkbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$35" ptchech
ked_text="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span>
<span class="psc_off_container">No</span></label></div><div class="ps_box-la
bel ps_right" id="win0divPTS_SELECTlbl$35"><label class="ps-label" for="PTS_S
ELECT$35" id="PTS_SELECT_LBL$35">South Carolina (430)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_36">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$36">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-n
ormal" id="win0divPTS_SELECT$36"><input class="psc_off" id="PTS_SELECT$chk$3
6" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$36" onclick="doRadioOut
erClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT
$36" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(th
is, 'PTS_SELECT$chk$36');addchg_win0(this);submitAction_win0(this.form,this.i
d);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg
="0" ptchecked_val="Y" ptunchecked_val="N" title="South Dakota (17)" type="ch
eckbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$36" ptchecked_
text="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><sp
an class="psc_off_container">No</span></label></div><div class="ps_box-label
ps_right" id="win0divPTS_SELECTlbl$36"><label class="ps-label" for="PTS_SELEC
T$36" id="PTS_SELECT_LBL$36">South Dakota (17)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_37">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$37">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-n
ormal" id="win0divPTS_SELECT$37"><input class="psc_off" id="PTS_SELECT$chk$3
7" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$37" onclick="doRadioOut
erClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT
$37" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(th
is, 'PTS_SELECT$chk$37');addchg_win0(this);submitAction_win0(this.form,this.i
d);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg
="0" ptchecked_val="Y" ptunchecked_val="N" title="Tennessee (3)" type="checkb
ox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$37" ptchecked_text
="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span c
lass="psc_off_container">No</span></label></div><div class="ps_box-label ps_r
ight" id="win0divPTS_SELECTlbl$37"><label class="ps-label" for="PTS_SELECT$3
7" id="PTS_SELECT_LBL$37">Tennessee (3)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_38">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$38">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-n
ormal" id="win0divPTS_SELECT$38"><input class="psc_off" id="PTS_SELECT$chk$3
8" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$38" onclick="doRadioOut
erClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT
$38" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(th
is, 'PTS_SELECT$chk$38');addchg_win0(this);submitAction_win0(this.form,this.i
d);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg
="0" ptchecked_val="Y" ptunchecked_val="N" title="Texas (117)" type="checkbo
x" value="Y"/><label class="ps_indicator" for="PTS_SELECT$38" ptchecked_text
="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span c
lass="psc_off_container">No</span></label></div><div class="ps_box-label ps_r
ight" id="win0divPTS_SELECTlbl$38"><label class="ps-label" for="PTS_SELECT$3
8" id="PTS_SELECT_LBL$38">Texas (117)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_39">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$39">

```

```
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-normal" id="win0divPTS_SELECT$39"><input class="psc_off" id="PTS_SELECT$chk$39" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$39" onclick="doRadioOuterClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT$39" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(this, 'PTS_SELECT$chk$39');addchg_win0(this);submitAction_win0(this.form,this.id);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg="0" ptchecked_val="Y" ptunchecked_val="N" title="Utah (31)" type="checkbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$39" ptchecked_text="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span class="psc_off_container">No</span></label></div><div class="ps_box-label ps_right" id="win0divPTS_SELECTlbl$39"><label class="ps-label" for="PTS_SELECT$39" id="PTS_SELECT_LBL$39">Utah (31)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_40">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$40">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-normal" id="win0divPTS_SELECT$40"><input class="psc_off" id="PTS_SELECT$chk$40" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$40" onclick="doRadioOuterClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT$40" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(this, 'PTS_SELECT$chk$40');addchg_win0(this);submitAction_win0(this.form,this.id);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg="0" ptchecked_val="Y" ptunchecked_val="N" title="Virginia (38)" type="checkbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$40" ptchecked_text="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span class="psc_off_container">No</span></label></div><div class="ps_box-label ps_right" id="win0divPTS_SELECTlbl$40"><label class="ps-label" for="PTS_SELECT$40" id="PTS_SELECT_LBL$40">Virginia (38)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_41">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$41">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-normal" id="win0divPTS_SELECT$41"><input class="psc_off" id="PTS_SELECT$chk$41" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$41" onclick="doRadioOuterClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT$41" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(this, 'PTS_SELECT$chk$41');addchg_win0(this);submitAction_win0(this.form,this.id);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg="0" ptchecked_val="Y" ptunchecked_val="N" title="Washington (34)" type="checkbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$41" ptchecked_text="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span class="psc_off_container">No</span></label></div><div class="ps_box-label ps_right" id="win0divPTS_SELECTlbl$41"><label class="ps-label" for="PTS_SELECT$41" id="PTS_SELECT_LBL$41">Washington (34)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_42">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$42">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-normal" id="win0divPTS_SELECT$42"><input class="psc_off" id="PTS_SELECT$chk$42" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$42" onclick="doRadioOuterClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT$42" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(this, 'PTS_SELECT$chk$42');addchg_win0(this);submitAction_win0(this.form,this.id);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg="0" ptchecked_val="Y" ptunchecked_val="N" title="West Virginia (6)" type="ch
```

```

checkbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$42" ptchecked_
text="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><sp
an class="psc_off_container">No</span></label></div><div class="ps_box-label
ps_right" id="win0divPTS_SELECTlbl$42"><label class="ps-label" for="PTS_SELEC
T$42" id="PTS_SELECT_LBL$42">West Virginia (6)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_43">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$43">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-n
ormal" id="win0divPTS_SELECT$43"><input class="psc_off" id="PTS_SELECT$chk$4
3" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$43" onclick="doRadioOut
erClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT
$43" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(th
is, 'PTS_SELECT$chk$43');" addchg_win0(this);submitAction_win0(this.form,this.i
d);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg
="0" ptchecked_val="Y" ptunchecked_val="N" title="Wisconsin (371)" type="chec
kbox" value="Y"/><label class="ps_indicator" for="PTS_SELECT$43" ptchecked_te
xt="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span
class="psc_off_container">No</span></label></div><div class="ps_box-label ps_
right" id="win0divPTS_SELECTlbl$43"><label class="ps-label" for="PTS_SELECT$4
3" id="PTS_SELECT_LBL$43">Wisconsin (371)</label></div>
</div></div></li><li class="ps_grid-row" id="PTS_FACETVALUES$0_row_44">
<div class="ps_box-group psc_layout" id="win0divPTS_GROUP_BOX$44">
<div class="ps_box-checkbox psc_standard psc_margin-top0_2em pts_fontweight-n
ormal" id="win0divPTS_SELECT$44"><input class="psc_off" id="PTS_SELECT$chk$4
4" type="hidden" value="N"/>
<div class="ps_box-control" id="win0divPTS_SELECTctrl$44" onclick="doRadioOut
erClick(this);cancelBubble(event);"><input class="ps-checkbox" id="PTS_SELECT
$44" onblur="clearOutline(this.nextElementSibling);" onclick="doRadioClick(th
is, 'PTS_SELECT$chk$44');" addchg_win0(this);submitAction_win0(this.form,this.i
d);" onfocus="setOutlineTimer(this.id);doFocus_win0(this,false,true);" psnchg
="0" ptchecked_val="Y" ptunchecked_val="N" title="Wyoming (1)" type="checkbo
x" value="Y"/><label class="ps_indicator" for="PTS_SELECT$44" ptchecked_text
="Yes" ptunchecked_text="No"><span class="psc_on_container">Yes</span><span c
lass="psc_off_container">No</span></label></div><div class="ps_box-label ps_r
ight" id="win0divPTS_SELECTlbl$44"><label class="ps-label" for="PTS_SELECT$4
4" id="PTS_SELECT_LBL$44">Wyoming (1)</label></div>
</div></div></li></ul>

```

```

In [0]: import re
        #in job search find li
        job_name = []
        locations = []
        dates = []
        for row in wells_soup.findAll('li', {'id': re.compile('^HRS_AGNT')}):

            job = row.find('span', {'class': 'ps_box-value'})
            job_name.append(job.text)
            location = row.find('span', {'id': re.compile('^LOCATION')})
            locations.append(location.text)
            date_post = row.find('span', {'id': re.compile('^SCH_OPENED')})
            dates.append(date_post.text)

```

```

In [0]: wells_df = getJobsDf(job_name, locations, dates)

```

```
In [0]: wells_df.head()
```

```
Out[0]:
```

	Job Name	Location	Date Posted
0	Account Resolution Specialist 2	UT-Salt Lake City	04/24/2020
1	Account Resolution Specialist 3	UT-Salt Lake City	04/24/2020
2	Account Resolutions Specialist 1	UT-Salt Lake City	04/24/2020
3	Apps Systems Engineer 5	MN-Minneapolis	04/24/2020
4	Branch Manager 2 - Rainier Avenue - Seattle, WA	WA-Seattle	04/24/2020

```
In [0]: wells_df.to_csv(r'wellsfargo_job_list.csv', index=False, header=True)
```

## Wells Fargo Twitter Data

```
In [0]: # Structure data in a pandas DataFrame for easier manipulation
wells_tweets = getTaggedTweets("#wellsfargo")
```

```
In [0]: wells_tweets.head(5)
```

```
Out[0]:
```

	user	date	text	favorite_count	hashtags	user_loc
0	LANlorg	Fri Apr 24 17:01:37 +0000 2020	Renovations at Wilmington Town Square will be ...	0		Los Angeles, CA
1	EyeCapital	Fri Apr 24 16:42:52 +0000 2020	RT @sussenglish: The big banks reported #earni...	0	[earnings, BankofAmerica, WellsFargo]	
2	sussenglish	Fri Apr 24 16:41:54 +0000 2020	The big banks reported #earnings last week.Thi...	1	[earnings, BankofAmerica, WellsFargo]	Argentina
3	dapinski	Fri Apr 24 16:14:23 +0000 2020	Anyone that continues to say that the big #ban...	0	[banks, JPMorgan]	Philadelphia, PA
4	CnLi0n	Fri Apr 24 15:38:42 +0000 2020	Well now my bank has taken the rest of my mone...	0		Downtown, Austin

```
In [0]: wells_tweets.to_csv("wellsfargotweets.csv")
```

## Citi Group Web Scrapping

```
In [0]: citi_url= "https://jobs.citi.com/search-jobs"
```

```
In [0]: citi_soup = getSoup(citi_url)

job_name = []
locations = []
dates = []
#to get all li
job_list = citi_soup.find('section', attrs = {'id': 'search-results-list'})
for row in job_list.findAll('li'):
    job_name.append(row.h2.text)
    locations.append(row.find('span', attrs = {'class': 'job-location'}).text)
    dates.append(row.find('span', attrs = {'class': 'job-date-posted'}).text)
```

```
In [0]: citi_df = getJobsDf(job_name, locations, dates)
```

```
In [0]: citi_df.head()
```

Out[0]:

	Job Name	Location	Date Posted
0	Vice President, Capital Planning Design	New York, New York, United States	04/23/2020
1	Vice President - Treasury GPO/Financial Soluti...	New York, New York, United States	04/23/2020
2	Service Rep 5	Tuxtla Gutiérrez, Mexico	04/23/2020
3	Solutions Sales Sr. Group Manager	Miami, Florida, United States	04/23/2020
4	SME Relationship Manager - 11	Multiple Locations	04/23/2020

```
In [0]: citi_df.to_csv(r'citi_job_list.csv', index=False, header=True)
```

## Citi Group Twitter Data

```
In [0]: # Structure data in a pandas DataFrame for easier manipulation
citi_tweets = getTaggedTweets("#CitiGroup")
```

```
In [0]: citi_tweets.head(5)
```

```
Out[0]:
```

	user	date	text	favorite_count	hashtags	user_loc
0	EyeCapital	Fri Apr 24 16:43:00 +0000 2020	RT @sussenglish: Faced with unprecedented dema...	0	[credit, corporateloans, COVID]	
1	sussenglish	Fri Apr 24 16:29:40 +0000 2020	Faced with unprecedented demand for #credit li...	0	[credit, corporateloans, COVID]	Argentina
2	dapinski	Fri Apr 24 16:14:23 +0000 2020	Anyone that continues to say that the big #ban...	0	[banks, JPMorgan]	Philadelphia, PA
3	CkShow979	Fri Apr 24 12:26:31 +0000 2020	The online bank Ally announced they're forgivi...	0	[]	North Carolina, USA
4	Tickeron	Fri Apr 24 09:53:29 +0000 2020	\$C in Downtrend: Stochastic indicator is remai...	0	[]	Sunnyvale, CA

```
In [0]: citi_tweets.to_csv(r'citigroup tweets.csv', index=False, header=True)
```

## Goldman Sachs Twitter Data

Goldman Sachs site couldnt be parsed using an html parser and hence we manually entered the jobs present.

```
In [0]: # Structure data in a pandas DataFrame for easier manipulation
goldman_tweets = getTaggedTweets('#goldmansachs')
```



```
In [0]: goldman_tweets.head(5)
```

```
Out[0]:
```

	user	date	text	favorite_count	hashtags	user_
0	WestJournalism	Fri Apr 24 02:00:32 +0000 2020	Kelly took a big stand, but apparently the cor...	21	[2020election, Arizona]	Phoenix,
1	laserhaas01	Fri Apr 24 17:24:14 +0000 2020	RT @An0nAKn0wledge: Goldman Sachs Is Split In ...	0	[CultureOfCorruption, GoldmanSachs]	Roaming DE, CA, DC
2	An0nAKn0wledge	Fri Apr 24 17:02:44 +0000 2020	RT @An0nAKn0wledge: Goldman Sachs Is Split In ...	0	[CultureOfCorruption, GoldmanSachs]	EVERYWHE E NOWHE
3	BitcoinFr2030	Fri Apr 24 16:49:07 +0000 2020	If you support \n#blackrock #goldmansachs and ...	0	[blackrock, goldmansachs, StockMarket]	Delaware, U
4	MtnManMerica	Fri Apr 24 16:38:49 +0000 2020	RT @WestJournalism: Kelly took a big stand, bu...	0	[2020election, Arizona, CampaignFinance]	San Di

```
In [0]: goldman_tweets.to_csv(r'goldman_tweets.csv', index=False, header=True)
```

## Comparison between Companies

Bofa vs Citi

```
In [0]: bofa_citi_url = 'https://www.diffen.com/difference/Bank_of_America_vs_Citigroup'
```

```
In [0]: bofa_citi_soup = getSoup(bofa_citi_url)
table = bofa_citi_soup.find('table')
result = []
for row in table.findAll('tr'):
    result.append([at.string for at in row.findAll('td')])
result = result[3:]
print(result)
```

```
[[['Charlotte, North Carolina, U.S.', 'New York City, USA'], ['Kenneth D. Lewis, Chairman, President & CEO', 'Amy W. Brinkley, Global Risk Executive', 'J. Steele Alphin, CAO', 'Joe L. Price, CFO'], ['Sir Win Bischoff, Chairman', '\nVikram Pandit, CEO', '\nGary Crittenden, CFO'], ['Banking', 'Financial services'], ['Financial Services', 'Consumer Banking', '\nCorporate Banking', '\nStockbroking', '\nInvestment Banking', '\nGlobal Wealth Management', '\nInvestment Research', '\nPrivate Equity', '\nStructured Products'], ['$117.01 billion USD (2006)', 'US $146.7 billion (2006)'], ['$21.13 billion USD (2006)', 'US $21.538 billion (2006)'], ['203,425 (2006)', '332,000 (2007)'], ['Bank of Opportunity', "Let's get it done."], ['www.bankofamerica.com', 'www.bofa.com', 'www.citigroup.com'], ['Bank of America (NYSE: BAC TYO: 8648) is the largest commercial bank in the United States in terms of deposits, and the 2nd largest company of its kind in the world behind Citigroup.[4][5][6]', 'Citigroup Inc. (NYSE: C), operating as Citi, is a major American financial services company based in New York City, formed from the merger of Citicorp and Travelers Group on April 7, 1998.[3] According to Forbes Global 2000 in March 2007, it is the 1'], ['Public (NYSE: BAC TYO: 8648)', 'Public (NYSE: C)'], ['(as "Bank of Italy") San Francisco, CA (1928) (acquiring banks) Charlotte, NC (1874) Boston, MA (1784)', 'New York City, USA (1812)']]]
```

```
In [0]: bofa_citi_df = pd.DataFrame( columns = ['BofA', 'Citi'], index= ['Headquarters', 'Key People', 'Industry', 'Products', 'Revenue', 'Net Income', 'Employees', 'Slogan', 'Website', 'Introduction', 'Type', 'Founded'], data = result)
```

```
In [0]: bofa_citi_df.head()
```

```
Out[0]:
```

	BofA	Citi
<b>Headquarters</b>	Charlotte, North Carolina, U.S.	New York City, USA
<b>Key People</b>	Kenneth D. Lewis, Chairman, President & CEO A...	Sir Win Bischoff, Chairman \nVikram Pandit, CE...
<b>Industry</b>	Banking	Financial services
<b>Products</b>	Financial Services	Consumer Banking \nCorporate Banking \nStockbr...
<b>Revenue</b>	\$117.01 billion USD (2006)	US \$146.7 billion (2006)

```
In [0]: bofa_citi_df.to_csv(r'bofavsciti.csv', index=False, header=True)
```

## Bofa vs JPMC

```
In [0]: bofa_jpmc_url= 'https://www.diffen.com/difference/Bank_of_America_vs_JPMorgan_Chase'
```

```
In [0]: bofa_jpmc_soup = getSoup(bofa_jpmc_url)
```

```
In [0]: table = bofa_jpmc_soup.find('table')
result = []
for row in table.findAll('tr'):
    result.append([at.string for at in row.findAll('td')])
result = result[3:]
print(result)
```

```
[['Charlotte, North Carolina, U.S.', 'New York, NY, U.S.'], ['Kenneth D. Lewis, Chairman, President & CEO', 'Amy W. Brinkley, Global Risk Executive', 'J. Steele Alphin, CAO', 'Joe L. Price, CFO', 'Jamie Dimon, Chairman, President & CEO'], ['Banking', 'Finance and Insurance'], ['Financial Services', 'Financial Services'], ['$117.01 billion USD (2006)', 'US$99.9 billion (2007)'], ['$21.13 billion USD (2006)', 'US$14.4 billion (2007)'], ['203,425 (2006)', '174,360 (2007)'], ['www.bankofamerica.com', 'www.bofa.com', 'www.jpmorganchase.com', 'www.jpmorgan.com', 'www.chase.com'], ['Bank of America (NYSE: BAC TYO: 8648) is the largest commercial bank in the United States in terms of deposits, and the 2nd largest company of its kind in the world behind Citigroup.', 'JP Morgan Chase (NYSE: JPM) is one of the oldest financial services firms in the world. The company, headquartered in New York City, is one of the leaders in investment banking, retail financial services, asset and wealth management and private equity'], ['Public (NYSE: BAC TYO: 8648)', 'Public (NYSE: JPM, TYO: 8634)'], ['(as "Bank of Italy") San Francisco, CA (1928) (acquiring banks) Charlotte, NC (1874) Boston, MA (1784)', '1799']]
```

```
In [0]: bofa_jpmc_df = pd.DataFrame( columns = ['BofA', 'JPMC'], index= ['Token', 'Headquarters', 'Industry', 'Products', 'Revenue', 'Net Income', 'Employees', 'Website', 'Introduction', 'Type', 'Founded'], data = result)
```

```
In [0]: bofa_jpmc_df.head()
```

```
Out[0]:
```

	BofA	JPMC
<b>Token</b>	Charlotte, North Carolina, U.S.	New York, NY, U.S.
<b>Headquarters</b>	Kenneth D. Lewis, Chairman, President & CEO A...	Jamie Dimon, Chairman, President & CEO
<b>Industry</b>	Banking	Finance and Insurance
<b>Products</b>	Financial Services	Financial Services
<b>Revenue</b>	\$117.01 billion USD (2006)	US\$99.9 billion (2007)

```
In [0]: bofa_jpmc_df.to_csv(r'bofavsjpmc.csv', index=False, header=True)
```

## Wells Fargo vs Goldmansachs

```
In [0]: wells_gold_url = 'https://www.diffen.com/difference/Goldman_Sachs_vs_Wells_Fargo'
```

```
In [0]: wells_gold_soup = getSoup(wells_gold_url)
        #print(soup)
        table = wells_gold_soup.find('table')
        result = []
        for row in table.findAll('tr'):
            result.append([at.string for at in row.findAll('td')])
        result = result[3:]
        print(result)
```

```
[["The Goldman Sachs Group, Inc., or simply Goldman Sachs (NYSE: GS), is one
of the world's largest global investment banks. Goldman Sachs was founded in
1869, and is headquartered in the Lower Manhattan area of New York City at 85
Broad Street.[1] Gold", 'Wells Fargo & Co. (NYSE: WFC) is a diversified f
inancial services company in the United States with operations around the wor
ld. Wells Fargo is the 5th largest bank in the US by assets and the 9th large
st bank in the world by market cap.[1] It is'], ['Public (NYSE: GS)', 'Public
(NYSE: WFC)'], ['1869', 'New York, New York, USA (March 18, 1852)'], ['New Yo
rk, NY', '420 Montgomery, San Francisco, California, USA'], ['Lloyd Blankfei
n, Chairman & CEO \nGary Cohn, President & COO \nJon Winkelried, President an
d COO \nJohn S. Weinberg, Vice Chairman \nDavid A. Viniar, CFO \nEdward C. Fo
rst, CAO \nGregory K. Palm, General Counsel \nEsta E. Stecher, General Counse
l \nKevin W.', 'Richard Kovacevich, \nChairman \nJohn Stumpf, \nPresident and
CEO'], ['Investment Banking', 'Retail Banking \nInsurance \nInvestments \nMor
tgages \nConsumer Finance \nCorporate and Investment Banking'], ['US $46 Bill
ion (2007)', 'US $35.691 billion (2006)'], ['US $11.4 Billion (2007)', '$8.48
4 billion USD (2006)'], ['34,809 (2007)', '160,000(2007)'], ["Our clients' in
terests always come first.", '"The Next Stage"'], ['www.gs.com', 'www.wellsfa
rgo.com']]
```

```
In [0]: wells_gold_df = pd.DataFrame( columns = ['Wells', 'Goldman'], index= ['Introdu
ction', 'Type', 'Founded', 'Headquarters', 'Key People', 'Products', 'Revenue',
'Net Income', 'Employees', 'Slogan', 'Website'], data = result)
```

```
In [0]: wells_gold_df.head()
```

```
Out[0]:
```

	Wells	Goldman
<b>Introduction</b>	The Goldman Sachs Group, Inc., or simply Goldm...	Wells Fargo & Co. (NYSE: WFC) is a diversi...
<b>Type</b>	Public (NYSE: GS)	Public (NYSE: WFC)
<b>Founded</b>	1869	New York, New York, USA (March 18, 1852)
<b>Headquarters</b>	New York, NY	420 Montgomery, San Francisco, California, USA
<b>Key People</b>	Lloyd Blankfein, Chairman & CEO \nGary Cohn, P...	Richard Kovacevich, \nChairman \nJohn Stumpf, ...

```
In [0]: wells_gold_df.to_csv(r'wellsvsgoldman.csv', index=False, header=True)
```