```
In [1]: ! pip install GetOldTweets3
```

```
Requirement already satisfied: GetOldTweets3 in c:\users\prashant mourya\appdata\local\progra
ms\python\python38-32\lib\site-packages (0.0.11)
Requirement already satisfied: pyquery>=1.2.10 in c:\users\prashant mourya\appdata\local\prog
rams\python\python38-32\lib\site-packages (from GetOldTweets3) (1.4.1)
Requirement already satisfied: lxml>=3.5.0 in c:\users\prashant mourya\appdata\local\programs
\python\python38-32\lib\site-packages (from GetOldTweets3) (4.5.2)
Requirement already satisfied: cssselect>0.7.9 in c:\users\prashant mourya\appdata\local\prog
rams\python\python38-32\lib\site-packages (from pyquery>=1.2.10->GetOldTweets3) (1.1.0)
```

```
WARNING: You are using pip version 20.1.1; however, version 20.2.2 is available.
You should consider upgrading via the 'c:\users\prashant mourya\appdata\local\programs\python
\python38-32\python.exe -m pip install --upgrade pip' command.
```

```python
In [2]: import re
        from textblob import TextBlob
        import GetOldTweets3 as got
        from matplotlib import pyplot as plt
```

```python
In [3]: def clean_tweet(tweet):
            return ' '.join(re.sub("(@[A-Za-z0-9]+)|([^0-9A-Za-z \t]) |(\w+:\/\/\S+)", " ", twee
        t).split())
```

```python
In [4]: tweetCriteria = got.manager.TweetCriteria().setQuerySearch('Narendra Modi')\
                                                    .setSince("2019-12-01")\
                                                    .setUntil("2020-03-30")\
                                                    .setMaxTweets(100)
        tweet = got.manager.TweetManager.getTweets(tweetCriteria)
```

```python
In [6]: def get_tweet_sentiment(tweet):

            analysis = TextBlob(clean_tweet(tweet))

            if analysis.sentiment.polarity > 0:
                return 'positive'
            elif analysis.sentiment.polarity == 0:
                return 'neutral'
            else:
                return 'negative'
```
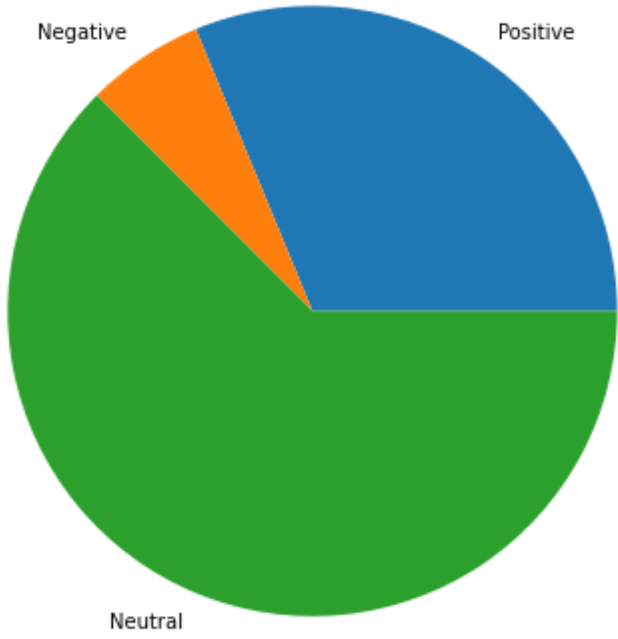
```python
In [7]: tweets=[]
        for tw in tweet:

            parsed_tweet = {}
            parsed_tweet['text'] = tw.text
            parsed_tweet['sentiment'] =get_tweet_sentiment(tw.text)
            if tw.retweets > 0:
                if parsed_tweet not in tweets:
                    tweets.append(parsed_tweet)
                else:
                    tweets.append(parsed_tweet)
```

```python
In [8]: pive_tweets = [tweet for tweet in tweets if tweet['sentiment'] == 'positive']
        nive_tweets = [tweet for tweet in tweets if tweet['sentiment'] == 'negative']
        neutral_tweets=[tweet for tweet in tweets if tweet['sentiment']=='neutral']
        per_ptweets=len(pive_tweets)/len(tweets)*100
        per_ntweets=len(nive_tweets)/len(tweets)*100
        per_neutral=len(neutral_tweets)/len(tweets)*100
        lab=['Positive','Negative','Neutral']
        data=[per_ptweets,per_ntweets,per_neutral]
```

```python
In [9]: fig = plt.figure(figsize =(10, 7))
        plt.pie(data, labels = lab)
        plt.show()
```



```python
In [10]: tweetCriteria = got.manager.TweetCriteria().setQuerySearch('Narendra Modi')\
                                                     .setSince("2020-03-30")\
                                                     .setUntil("2020-05-30")\
                                                     .setMaxTweets(100)
         tweet = got.manager.TweetManager.getTweets(tweetCriteria)
```

```python
In [11]: tweets=[]
         for tw in tweet:

             parsed_tweet = {}
             parsed_tweet['text'] = tw.text
             parsed_tweet['sentiment'] =get_tweet_sentiment(tw.text)
             if tw.retweets > 0:
                 if parsed_tweet not in tweets:
                     tweets.append(parsed_tweet)
                 else:
                     tweets.append(parsed_tweet)
```

```python
In [12]: pive_tweets = [tweet for tweet in tweets if tweet['sentiment'] == 'positive']
         nive_tweets = [tweet for tweet in tweets if tweet['sentiment'] == 'negative']
         neutral_tweets=[tweet for tweet in tweets if tweet['sentiment']=='neutral']
         per_ptweets=len(pive_tweets)/len(tweets)*100
         per_ntweets=len(nive_tweets)/len(tweets)*100
         per_neutral=len(neutral_tweets)/len(tweets)*100
         lab=['Positive','Negative','Neutral']
         data=[per_ptweets,per_ntweets,per_neutral]
```

```python
In [13]: fig = plt.figure(figsize =(10, 7))
         plt.pie(data, labels = lab)
         plt.show()
```