LogRecords

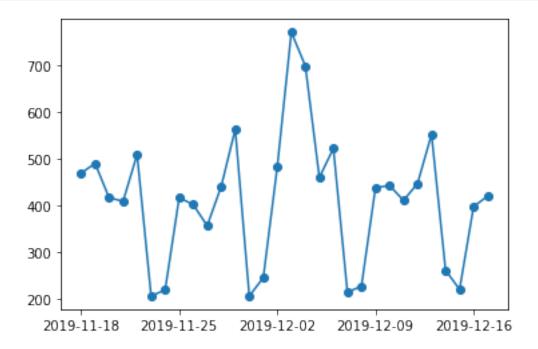
January 7, 2020

```
[1]: import datetime
     import itertools
     import os
     import matplotlib.dates as mdates
     import matplotlib.pyplot as plt
     %matplotlib inline
[2]: rootPath = '../../dataset/'
     loggingLevels = ['INFO', 'DEBUG', 'TRACE', 'ERROR']
     def plot_log_files_starting_with(file_prefix):
         aggregated = []
         for filename in os.listdir(rootPath):
             if filename.endswith('.log') and filename.startswith(file_prefix):
                 filepath = rootPath + filename
                 process_file(aggregated,filepath)
         grouped = itertools.groupby(aggregated, lambda x: x.date())
         count_per_day = [*map(lambda x: to_dates_count(*x), grouped)]
         count_per_day.sort(key=lambda x: x["log_date"])
         aggregated_dates = [x["log_date"] for x in count_per_day]
         mat_dates = mdates.date2num(aggregated_dates)
         mat values = [x["number of"] for x in count per day]
         plt.gca().xaxis.set_major_formatter(mdates.DateFormatter('%Y-%m-%d'))
         plt.gca().xaxis.set_major_locator(mdates.DayLocator(interval=7))
         plt.plot_date(mat_dates, mat_values, '-o')
     def process_file(aggregated, filepath):
         f = open(filepath, "r+")
         allLines = f.readlines()
         filteredLines = []
         parsedDates = []
         for line in allLines:
             if any(line.startswith(x) for x in loggingLevels):
                 filteredLines.append(line)
```

0.1 Liczba wpisów logów timepot.*.log

Główne logi aplikacji Springowej, łącznie z wyjątkami oraz niektórymi zapytaniami SQL

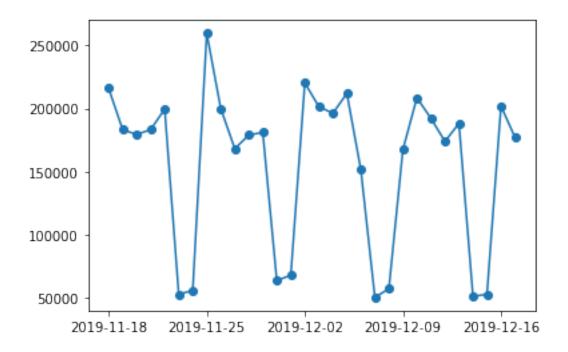
[3]: plot_log_files_starting_with('timepot')



0.2 Liczba wpisów logów message.*.log

Komunikacja przychodząca HTTP po REST

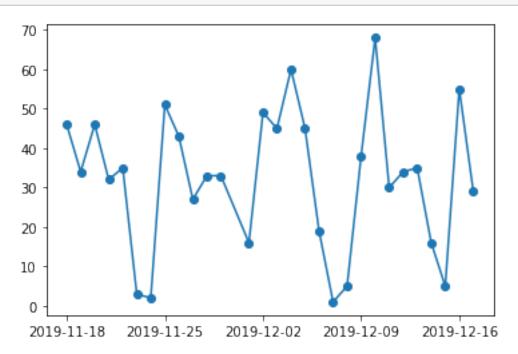
```
[4]: plot_log_files_starting_with('message')
```



0.3 Liczba wpisów logów frontend.*.log

Dodatkowe logi frontendowe (najczęściej zawierające wystąpienia błędów) przesyłane poprzez dedykowaną usługę

[5]: plot_log_files_starting_with('frontend')



0.4 Liczba wpisów logów braintree.*.log

Integracja z systemem płatności Braintree

[6]: plot_log_files_starting_with('braintree')

