# cbs\_segments

## March 13, 2022

```
[1]: import sys
      sys.path.append('../')
      from helpers.utils import read_docx_to_dict
 [2]: filename = "Analysis_Fire_12_30_21_CBS.docx"
      miami_dallas = "Analysis_12_30_21_Colorado_Fire_CBS_w_DallasMiami.docx"
 [3]: data = read_docx_to_dict(filename)
 [4]: import pandas as pd
      pd.options.display.max_rows = 500
      # create dataframe
      df = pd.DataFrame.from_dict(data)
 [5]: miami_dallas_data = read_docx_to_dict(miami_dallas)
 [6]: miami_dallas_df = pd.DataFrame.from_dict(miami_dallas_data)
 [7]: len(df)
 [7]: 75
 [8]: len(miami_dallas_df)
 [8]: 10
 [9]: df = pd.concat([df, miami_dallas_df], ignore_index=True)
      len(df)
 [9]: 85
[10]: df.tail(10)
[10]:
                                          location station \
                        time
      75 2021-12-30 6:37 PM Miami-Ft. Lauderdale
```

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76 2021-12-30 6:07 PM Miami-Ft. Lauderdale
                                                       WFOR
      77
          021-12-30 6:06 PM
                                  Dallas-Ft. Worth
                                                       KTVT
      78
         2021-12-30 5:37 PM
                                  Dallas-Ft. Worth
                                                       KTVT
      79
                                  Dallas-Ft. Worth
          2021-12-30 5:33 PM
                                                       KTVT
          2021-12-30 5:33 PM
                                  Dallas-Ft. Worth
                                                       KTVT
          2021-12-30 5:19 PM
                              Miami-Ft. Lauderdale
      81
                                                       WFOR
      82 2021-12-30 5:19 PM
                              Miami-Ft. Lauderdale
                                                       WFOR
      83 2021-12-30 5:18 PM
                              Miami-Ft. Lauderdale
                                                       WFOR
      84 2021-12-30 5:18 PM Miami-Ft. Lauderdale
                                                       WFOR
                                                        text
         THE EVENING ENDING OVERNIGHT. SEVERAL COMMUNIT...
         WOULDN'T BE THAT LONG IN DURATION. AND THEN TH...
         THE OMICRON VARIANT. >>> THE CITY OF PARIS SOU...
      77
      78
         THE EVENING ENDING OVERNIGHT. SEVERAL COMMUNIT...
      79 THE EVENING ENDING OVERNIGHT. SEVERAL COMMUNIT...
         SHORTAGE. WITH FINAL PREPS UNDERWAY FOR THE NE...
      80
      81
          >> Reporter: NEWS OF THE BOY BEING BADLY BURNE...
         >> Reporter: NEWS OF THE BOY BEING BADLY BURNE...
         AND WE SUPPORT C.C. S. O. AND THE OFFICER EARL ...
      83
      84
                                                 [w:drawing]
[11]: df['text'] = df['text'].str.lower()
[12]: df.head(5)
[12]:
                                                location station \
                       time
                                     Phoenix (Prescott)
       2021-12-30 6:49 PM
                                                            KPHO
      1 2021-12-30 6:48 PM
                                     Phoenix (Prescott)
                                                            KPHO
      2 2021-12-30 6:37 PM
                                       Ft. Myers-Naples
                                                            WINK
      3 2021-12-30 6:37 PM Greensboro-H.Point-W.Salem
                                                            WFMY
           21-12-30 6:37 PM
                                                 Atlanta
                                                            WGCL
      0 have been destroyed. ap, the associated press ...
      1 kusa, the nbc affiliate in denver, this is in ...
      2 several communities were evacuated because of ...
      3 the evening ending overnight. several communit...
      4 the evening ending overnight. several communit...
[13]: from helpers.utils import check_text_likeness
[14]: df['matches'] = df.apply(lambda row: check_text_likeness(df, row['text']),__
       ⇒axis=1)
[15]: df.head(5)
```

```
[15]:
                                                location station \
                       time
         2021-12-30 6:49 PM
                                      Phoenix (Prescott)
                                                             KPHO
      1 2021-12-30 6:48 PM
                                      Phoenix (Prescott)
                                                             KPHO
      2 2021-12-30 6:37 PM
                                        Ft. Myers-Naples
                                                             WINK
                             Greensboro-H.Point-W.Salem
      3 2021-12-30 6:37 PM
                                                             WFMY
           21-12-30 6:37 PM
                                                  Atlanta
                                                             WGCL
                                                        text \
      0 have been destroyed. ap, the associated press ...
      1 kusa, the nbc affiliate in denver, this is in ...
      2 several communities were evacuated because of ...
      3 the evening ending overnight. several communit...
      4 the evening ending overnight. several communit...
                                                     matches
      0
                                                         [0]
      1
                                                         [1]
      2 [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
      3 [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
      4 [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
[28]: len(df['matches'])
[28]: 95
 []:
[16]: from helpers.utils import fetch_biggest_text
      df['row_to_use'] = df.apply(lambda row: fetch_biggest_text(df, row['matches']),__
       →axis=1)
 []:
 []:
[17]: df
[17]:
                        time
                                                  location station \
      0
          2021-12-30 6:49 PM
                                       Phoenix (Prescott)
                                                              KPHO
          2021-12-30 6:48 PM
                                       Phoenix (Prescott)
                                                              KPHO
      1
      2
          2021-12-30 6:37 PM
                                         Ft. Myers-Naples
                                                              WINK
      3
          2021-12-30 6:37 PM
                               Greensboro-H.Point-W.Salem
                                                              WFMY
      4
            21-12-30 6:37 PM
                                                              WGCL
                                                  Atlanta
      5
          2021-12-30 6:37 PM
                               Orlando-Daytona Bch-Melbrn
                                                              WKMG
          2021-12-30 6:37 PM
                                                              WCBS
      6
                                                  New York
      7
          2021-12-30 6:37 PM
                                                  Detroit
                                                               WWJ
          2021-12-30 6:37 PM
                                      Boston (Manchester)
                                                               WBZ
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10 2021-12-30 6:37 PM
12         021-12-30         6:37 PM         Raleigh-Durham (Fayetvlle)         WNCN           13         2021-12-30         6:37 PM         Pittsburgh         KDKA           14         2021-12-30         6:37 PM         Portland, OR         KOIN           15         2021-12-30         6:37 PM         Seattle-Tacoma         KIRO           16         2021-12-30         6:37 PM         Los Angeles         KCBS           17         021-12-30         6:37 PM         San Francisco-Oak-San Jose         KPIX           18         21-12-30         6:37 PM         Washington, DC (Hagrstwn)         WUSA           19         2021-12-30         6:37 PM         Providence-New Bedford         WPRI           20         2021-12-30         6:37 PM         Providence-New Bedford         WPRI           21         2021-12-30         6:37 PM         Providence-New Bedford         WPRI           21         2021-12-30         6:37 PM         Providence-New Bedford         WPRI           22         2021-12-30         6:37 PM         Indianapolis         WTTV           23         2021-12-30         6:37 PM         Indianapolis         WTTV           24         2021-12-30         6:37 PM         We
13         2021-12-30         6:37 PM         Pittsburgh         KDKA           14         2021-12-30         6:37 PM         Portland, OR         KOIN           15         2021-12-30         6:37 PM         Seattle-Tacoma         KIRO           16         2021-12-30         6:37 PM         Los Angeles         KCBS           17         021-12-30         6:37 PM         San Francisco-Oak-San Jose         KPIX           18         21-12-30         6:37 PM         Washington, DC (Hagrstwn)         WUSA           19         2021-12-30         6:37 PM         Providence-New Bedford         WPRI           20         2021-12-30         6:37 PM         Providence-New Bedford         WPRI           21         2021-12-30         6:37 PM         Providence-New Bedford         WPRI           21         2021-12-30         6:37 PM         Providence-New Bedford         WPRI           22         2021-12-30         6:37 PM         Providence-New Bedford         WPRI           22         2021-12-30         6:37 PM         Indianapolis         WTTV           23         2021-12-30         6:37 PM         Indianapolis         WTTV           25         2021-12-30         6:37 PM         Norfo
14         2021-12-30         6:37 PM         Portland, OR         KOIN           15         2021-12-30         6:37 PM         Seattle-Tacoma         KIRO           16         2021-12-30         6:37 PM         Los Angeles         KCBS           17         021-12-30         6:37 PM         San Francisco-Oak-San Jose         KPIX           18         21-12-30         6:37 PM         Washington, DC (Hagrstwn)         WUSA           19         2021-12-30         6:37 PM         Louisville         WLKY           20         2021-12-30         6:37 PM         Providence-New Bedford         WPRI           21         2021-12-30         6:37 PM         Francianapolis         WTTV           22         2021-12-30         6:37 PM         Indianapolis         WTTV           23         2021-12-30         6:37 PM         Norfolk-Portsmth-Newpt Nws         WTKR           24         2021-12-30         6:37 PM         West Palm Beach-Ft. Pierce         WPEC           25         2021-12-30         6:37 PM         Tampa-St. Pete (Sarasota)         WTSP           29         2021-12-30         6:37 PM         Tampa-St. Pete (Sarasota)         WSPA           30         2021-12-30         6:37 PM
15         2021-12-30         6:37         PM         Seattle-Tacoma         KIRO           16         2021-12-30         6:37         PM         Los Angeles         KCBS           17         021-12-30         6:37         PM         San Francisco-Oak-San Jose         KPIX           18         21-12-30         6:37         PM         Washington, DC (Hagrstwn)         WUSA           19         2021-12-30         6:37         PM         Louisville         WLKY           20         2021-12-30         6:37         PM         Providence-New Bedford         WPRI           21         2021-12-30         6:37         PM         Knoxville         WVLT           22         2021-12-30         6:37         PM         Indianapolis         WTTV           23         2021-12-30         6:37         PM         Indianapolis         WTTV           24         2021-12-30         6:37         PM         West Poltmerth-Newpt Nws         WTKR           25         2021-12-30         6:37         PM         West Palm Beach-Ft. Pierce         WPEC           27         2021-12-30         6:37         PM         Tampa-St. Pete (Sarasota)         WTSP           30         20
16         2021-12-30         6:37         PM         Los Angeles         KCBS           17         021-12-30         6:37         PM         San Francisco-Oak-San Jose         KPIX           18         21-12-30         6:37         PM         Washington, DC (Hagrstwn)         WUSA           19         2021-12-30         6:37         PM         Louisville         WLKY           20         2021-12-30         6:37         PM         Providence-New Bedford         WPRI           21         2021-12-30         6:37         PM         Knoxville         WVLT           22         2021-12-30         6:37         PM         Indianapolis         WTTV           23         2021-12-30         6:37         PM         Indianapolis         WTTV           24         2021-12-30         6:37         PM         Norfolk-Portsmth-Newpt Nws         WTKR           25         2021-12-30         6:37         PM         West Palm Beach-Ft. Pierce         WPEC           27         2021-12-30         6:37         PM         West Palm Beach-Ft. Pierce         WPEC           28         2021-12-30         6:37         PM         Tampa-St. Pete (Sarasota)         WTSP           30
17         021-12-30         6:37         PM         San Francisco-Oak-San Jose         KPIX           18         21-12-30         6:37         PM         Washington, DC (Hagrstwn)         WUSA           19         2021-12-30         6:37         PM         Louisville         WLKY           20         2021-12-30         6:37         PM         Providence-New Bedford         WPRI           21         2021-12-30         6:37         PM         Knoxville         WVLT           22         2021-12-30         6:37         PM         Indianapolis         WTTV           23         2021-12-30         6:37         PM         Indianapolis         WTTV           24         2021-12-30         6:37         PM         West Palm Beach-Ft. Newpt Nws         WTKR           25         2021-12-30         6:37         PM         West Palm Beach-Ft. Pierce         WPEC           27         2021-12-30         6:37         PM         Tampa-St. Pete (Sarasota)         WTSP           29         2021-12-30         6:37         PM         Tampa-St. Pete (Sarasota)         WISP           30         2021-12-30         6:37         PM         Greenvll-Spart-Ashevll-And         WSPA
18         21-12-30         6:37         PM         Washington, DC (Hagrstwn)         WUSA           19         2021-12-30         6:37         PM         Louisville         WLKY           20         2021-12-30         6:37         PM         Providence-New Bedford         WPRI           21         2021-12-30         6:37         PM         Knoxville         WVLT           22         2021-12-30         6:37         PM         Indianapolis         WTTV           23         2021-12-30         6:37         PM         Indianapolis         WTTV           24         2021-12-30         6:37         PM         Norfolk-Portsmth-Newpt Nws         WTKR           26         2021-12-30         6:37         PM         West Palm Beach-Ft. Pierce         WPEC           27         2021-12-30         6:37         PM         West Palm Beach-Ft. Pierce         WPEC           28         2021-12-30         6:37         PM         Tampa-St. Pete (Sarasota)         WTSP           30         2021-12-30         6:37         PM         Greenvll-Spart-Ashevll-And         WSPA           31         2021-12-30         6:37         PM         Charlotte         WBTV           32
19 2021-12-30 6:37 PM Providence-New Bedford WPRI 20 2021-12-30 6:37 PM Providence-New Bedford WPRI 21 2021-12-30 6:37 PM Knoxville WVLT 22 2021-12-30 6:37 PM Indianapolis WTTV 23 2021-12-30 6:37 PM Indianapolis WTTV 24 2021-12-30 6:37 PM Indianapolis WTTV 25 2021-12-30 6:37 PM Indianapolis WTTV 26 2021-12-30 6:37 PM Norfolk-Portsmth-Newpt Nws WTKR 26 2021-12-30 6:37 PM West Palm Beach-Ft. Pierce WPEC 27 2021-12-30 6:37 PM West Palm Beach-Ft. Pierce WPEC 28 2021-12-30 6:37 PM Tampa-St. Pete (Sarasota) WTSP 29 2021-12-30 6:37 PM Buffalo WIVB 30 2021-12-30 6:37 PM Greenvll-Spart-Ashevll-And WSPA 31 2021-12-30 6:37 PM Jacksonville WJAX 32 2021-12-30 6:37 PM Charlotte WBTV 33 2021-12-30 6:37 PM Columbus, OH WBNS 34 2021-12-30 6:37 PM Columbus, OH WBNS 35 2021-12-30 6:37 PM Columbus, OH WBNS 36 2021-12-30 6:37 PM Philadelphia KYW 38 2021-12-30 6:37 PM Sacramnto-Stkton-Modesto KOVR 40 021-12-30 6:00 PM Sacramnto-Stkton-Modesto KOVR 41 2021-12-30 6:00 PM Sacramnto-Stkton-Modesto KOVR 42 2021-12-30 5:59 PM Sacramnto-Stkton-Modesto KOVR
20         2021-12-30         6:37         PM         Providence-New Bedford         WPRI           21         2021-12-30         6:37         PM         Knoxville         WVLT           22         2021-12-30         6:37         PM         Indianapolis         WTTV           23         2021-12-30         6:37         PM         Indianapolis         WTTV           24         2021-12-30         6:37         PM         Norfolk-Portsmth-Newpt Nws         WTKR           25         2021-12-30         6:37         PM         West Palm Beach-Ft. Pierce         WPEC           27         2021-12-30         6:37         PM         West Palm Beach-Ft. Pierce         WPEC           28         2021-12-30         6:37         PM         Tampa-St. Pete (Sarasota)         WTSP           29         2021-12-30         6:37         PM         Tampa-St. Pete (Sarasota)         WIVB           30         2021-12-30         6:37         PM         Tampa-St. Pete (Sarasota)         WIVB           31         2021-12-30         6:37         PM         Tampa-St. Pete (Sarasota)         WIVB           32         2021-12-30         6:37         PM         Tampa-St. Pete (Sarasota)         WSPA
21         2021-12-30         6:37         PM         Knoxville         WVLT           22         2021-12-30         6:37         PM         Indianapolis         WTTV           23         2021-12-30         6:37         PM         Indianapolis         WTTV           24         2021-12-30         6:37         PM         Norfolk-Portsmth-Newpt Nws         WTKR           25         2021-12-30         6:37         PM         West Palm Beach-Ft. Pierce         WPEC           27         2021-12-30         6:37         PM         West Palm Beach-Ft. Pierce         WPEC           28         2021-12-30         6:37         PM         West Palm Beach-Ft. Pierce         WPEC           28         2021-12-30         6:37         PM         Tampa-St. Pete (Sarasota)         WTSP           29         2021-12-30         6:37         PM         Greenvll-Spart-Ashevll-And         WSPA           31         2021-12-30         6:37         PM         Greenvll-Spart-Ashevll-And         WSPA           31         2021-12-30         6:37         PM         Charlotte         WBTV           32         2021-12-30         6:37         PM         Columbus, OH         WBNS
22         2021-12-30         6:37         PM         Indianapolis         WTTV           23         2021-12-30         6:37         PM         Indianapolis         WTTV           24         2021-12-30         6:37         PM         Indianapolis         WTTV           25         2021-12-30         6:37         PM         Norfolk-Portsmth-Newpt Nws         WTKR           26         2021-12-30         6:37         PM         West Palm Beach-Ft. Pierce         WPEC           27         2021-12-30         6:37         PM         West Palm Beach-Ft. Pierce         WPEC           28         2021-12-30         6:37         PM         West Palm Beach-Ft. Pierce         WPEC           28         2021-12-30         6:37         PM         West Palm Beach-Ft. Pierce         WPEC           29         2021-12-30         6:37         PM         Buffalo         WIVB           30         2021-12-30         6:37         PM         Greenvll-Spart-Ashevll-And         WSPA           31         2021-12-30         6:37         PM         Charlotte         WBTV           32         2021-12-30         6:37         PM         Columbus, OH         WBNS           35
23         2021-12-30         6:37         PM         Indianapolis         WTTV           24         2021-12-30         6:37         PM         Indianapolis         WTTV           25         2021-12-30         6:37         PM         Norfolk-Portsmth-Newpt Nws         WTKR           26         2021-12-30         6:37         PM         West Palm Beach-Ft. Pierce         WPEC           27         2021-12-30         6:37         PM         West Palm Beach-Ft. Pierce         WPEC           28         2021-12-30         6:37         PM         Tampa-St. Pete (Sarasota)         WTSP           29         2021-12-30         6:37         PM         Tampa-St. Pete (Sarasota)         WIVB           30         2021-12-30         6:37         PM         Buffalo         WIVB           31         2021-12-30         6:37         PM         Greenvll-Spart-Ashevll-And         WSPA           31         2021-12-30         6:37         PM         Charlotte         WBTV           32         2021-12-30         6:37         PM         Cincinnati         WKRC           34         2021-12-30         6:37         PM         Columbus, OH         WBNS           35 <td< td=""></td<>
24         2021-12-30         6:37         PM         Indianapolis         WTTV           25         2021-12-30         6:37         PM         Norfolk-Portsmth-Newpt Nws         WTKR           26         2021-12-30         6:37         PM         West Palm Beach-Ft. Pierce         WPEC           27         2021-12-30         6:37         PM         West Palm Beach-Ft. Pierce         WPEC           28         2021-12-30         6:37         PM         Tampa-St. Pete (Sarasota)         WTSP           29         2021-12-30         6:37         PM         Buffalo         WIVB           30         2021-12-30         6:37         PM         Greenvll-Spart-Ashevll-And         WSPA           31         2021-12-30         6:37         PM         Greenvll-Spart-Ashevll-And         WSPA           32         2021-12-30         6:37         PM         Greenvll-Spart-Ashevll-And         WSPA           33         2021-12-30         6:37         PM         Charlotte         WBTV           33         2021-12-30         6:37         PM         Columbus, OH         WBNS           34         2021-12-30         6:37         PM         Columbus, OH         WBNS           36
25         2021-12-30         6:37         PM         Norfolk-Portsmth-Newpt Nws         WTKR           26         2021-12-30         6:37         PM         West Palm Beach-Ft. Pierce         WPEC           27         2021-12-30         6:37         PM         West Palm Beach-Ft. Pierce         WPEC           28         2021-12-30         6:37         PM         Tampa-St. Pete (Sarasota)         WTSP           29         2021-12-30         6:37         PM         Buffalo         WIVB           30         2021-12-30         6:37         PM         Greenvll-Spart-Ashevll-And         WSPA           31         2021-12-30         6:37         PM         Jacksonville         WJAX           32         2021-12-30         6:37         PM         Charlotte         WBTV           33         2021-12-30         6:37         PM         Columbus, OH         WBNS           34         2021-12-30         6:37         PM         Columbus, OH         WBNS           35         2021-12-30         6:37         PM         Columbus, OH         WBNS           37         2021-12-30         6:37         PM         Sacramnto-Stkton-Modesto         KOVR           39 <t< td=""></t<>
26       2021-12-30       6:37 PM       West Palm Beach-Ft. Pierce       WPEC         27       2021-12-30       6:37 PM       West Palm Beach-Ft. Pierce       WPEC         28       2021-12-30       6:37 PM       Tampa-St. Pete (Sarasota)       WTSP         29       2021-12-30       6:37 PM       Buffalo       WIVB         30       2021-12-30       6:37 PM       Greenvll-Spart-Ashevll-And       WSPA         31       2021-12-30       6:37 PM       Jacksonville       WJAX         32       2021-12-30       6:37 PM       Charlotte       WBTV         33       2021-12-30       6:37 PM       Columbus, OH       WBNS         34       2021-12-30       6:37 PM       Columbus, OH       WBNS         35       2021-12-30       6:37 PM       Columbus, OH       WBNS         36       2021-12-30       6:37 PM       Philadelphia       KYW         37       2021-12-30       6:12 PM       Sacramnto-Stkton-Modesto       KOVR         40       021-12-30       6:07 PM       Phoenix (Prescott)       KPHO         41       2021-12-30       5:59 PM       Sacramnto-Stkton-Modesto       KOVR         42       2021-12-30       5:59 PM       <
27       2021-12-30       6:37       PM       West Palm Beach-Ft. Pierce       WPEC         28       2021-12-30       6:37       PM       Tampa-St. Pete (Sarasota)       WTSP         29       2021-12-30       6:37       PM       Buffalo       WIVB         30       2021-12-30       6:37       PM       Greenvll-Spart-Ashevll-And       WSPA         31       2021-12-30       6:37       PM       Charlotte       WBTV         32       2021-12-30       6:37       PM       Cincinnati       WKRC         34       2021-12-30       6:37       PM       Columbus, OH       WBNS         35       2021-12-30       6:37       PM       Columbus, OH       WBNS         36       2021-12-30       6:37       PM       Columbus, OH       WBNS         37       2021-12-30       6:37       PM       Philadelphia       KYW         38       2021-12-30       6:12       PM       Sacramnto-Stkton-Modesto       KOVR         40       021-12-30       6:07       PM       Phoenix (Prescott)       KPHO         41       2021-12-30       6:00       PM       Sacramnto-Stkton-Modesto       KOVR         42       2
28       2021-12-30       6:37       PM       Tampa-St. Pete (Sarasota)       WTSP         29       2021-12-30       6:37       PM       Buffalo       WIVB         30       2021-12-30       6:37       PM       Greenvll-Spart-Ashevll-And       WSPA         31       2021-12-30       6:37       PM       Jacksonville       WJAX         32       2021-12-30       6:37       PM       Charlotte       WBTV         33       2021-12-30       6:37       PM       Columbus, OH       WBNS         34       2021-12-30       6:37       PM       Columbus, OH       WBNS         35       2021-12-30       6:37       PM       Columbus, OH       WBNS         36       2021-12-30       6:37       PM       Columbus, OH       WBNS         37       2021-12-30       6:37       PM       Philadelphia       KYW         38       2021-12-30       6:12       PM       Sacramnto-Stkton-Modesto       KOVR         40       021-12-30       6:07       PM       Phoenix (Prescott)       KPHO         41       2021-12-30       6:00       PM       Sacramnto-Stkton-Modesto       KOVR         42       2021-12-30
29       2021-12-30       6:37       PM       Buffalo       WIVB         30       2021-12-30       6:37       PM       Greenvll-Spart-Ashevll-And       WSPA         31       2021-12-30       6:37       PM       Jacksonville       WJAX         32       2021-12-30       6:37       PM       Charlotte       WBTV         33       2021-12-30       6:37       PM       Columbus, OH       WBNS         34       2021-12-30       6:37       PM       Columbus, OH       WBNS         35       2021-12-30       6:37       PM       Columbus, OH       WBNS         36       2021-12-30       6:37       PM       Columbus, OH       WBNS         37       2021-12-30       6:37       PM       Philadelphia       KYW         38       2021-12-30       6:12       PM       Sacramnto-Stkton-Modesto       KOVR         40       021-12-30       6:07       PM       Phoenix (Prescott)       KPHO         41       2021-12-30       6:00       PM       Sacramnto-Stkton-Modesto       KOVR         42       2021-12-30       5:59       PM       Sacramnto-Stkton-Modesto       KOV
30 2021-12-30 6:37 PM Greenvll-Spart-Ashevll-And WSPA 31 2021-12-30 6:37 PM Jacksonville WJAX 32 2021-12-30 6:37 PM Charlotte WBTV 33 2021-12-30 6:37 PM Cincinnati WKRC 34 2021-12-30 6:37 PM Columbus, OH WBNS 35 2021-12-30 6:37 PM Columbus, OH WBNS 36 2021-12-30 6:37 PM Columbus, OH WBNS 37 2021-12-30 6:37 PM Philadelphia KYW 38 2021-12-30 6:12 PM Sacramnto-Stkton-Modesto KOVR 39 2021-12-30 6:20 PM Sacramnto-Stkton-Modesto KOVR 40 021-12-30 6:00 PM Phoenix (Prescott) KPHO 41 2021-12-30 6:00 PM Sacramnto-Stkton-Modesto KOVR 42 2021-12-30 5:59 PM Sacramnto-Stkton-Modesto KOVR
31         2021-12-30         6:37         PM         Jacksonville         WJAX           32         2021-12-30         6:37         PM         Charlotte         WBTV           33         2021-12-30         6:37         PM         Cincinnati         WKRC           34         2021-12-30         6:37         PM         Columbus, OH         WBNS           35         2021-12-30         6:37         PM         Columbus, OH         WBNS           36         2021-12-30         6:37         PM         Columbus, OH         WBNS           37         2021-12-30         6:37         PM         Philadelphia         KYW           38         2021-12-30         6:12         PM         Sacramnto-Stkton-Modesto         KOVR           39         2021-12-30         6:20         PM         Sacramnto-Stkton-Modesto         KOVR           40         021-12-30         6:00         PM         Phoenix (Prescott)         KPHO           41         2021-12-30         6:00         PM         Sacramnto-Stkton-Modesto         KOVR           42         2021-12-30         5:59         PM         Sacramnto-Stkton-Modesto         KOV
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44 2021-12-30 5:44 PM Baltimore WJZ
45 2021-12-30 5:44 PM Baltimore WJZ
46 2021-12-30 5:44 PM Baltimore WJZ
47 2021-12-30 5:43 PM Seattle-Tacoma KIRO
48 2021-12-30 5:37 PM Houston KHOU
49 2021-12-30 5:37 PM Dallas-Ft. Worth KTVT
50 2021-12-30 5:37 PM Tulsa KOTV
51 2021-12-30 5:37 PM San Antonio KENS
50 0004 40 00 5 0F DV
52 2021-12-30 5:37 PM Milwaukee WDJT
52 2021-12-30 5:37 PM Milwaukee WDJT 53 2021-12-30 5:37 PM Austin KEYE

20	21-12-30	5:3	7	PM	San Diego	KFMB
20	21-12-30	5:3	7	PM	Minneapolis-St. Paul	WCCO
20	21-12-30	5:3	7	PM	Kansas City	KCTV
20	21-12-30	5:3	7	PM	Las Vegas	KLAS
20	21-12-30	5:3	7	PM	New Orleans	WWL
20	21-12-30	5:3	7	PM	Las Vegas	KLAS
20	21-12-30	5:3	7	PM	New Orleans	WWL
20	21-12-30	5:3	7	PM	St. Louis	KMOV
20	21-12-30	5:3	7	PM	Oklahoma City	KWTV
20	21-12-30	5:3	4	PM	Pittsburgh	KDKA
20	21-12-30	5:3	1	PM	Sacramnto-Stkton-Modesto	KOVR
20	21-12-30	5:1	7	PM	Tulsa	KOTV
20	21-12-30	5:1	4	PM	Portland, OR	KOIN
20	21-12-30	5:1	2	PM	San Diego	KFMB
20	21-12-30	5:0	7	PM	Albuquerque-Santa Fe	KRQE
20	21-12-30	5:0	6	PM	Phoenix (Prescott)	KPHO
20	21-12-30	5:0	4	PM	Sacramnto-Stkton-Modesto	KOVR
20	21-12-30	5:0	2	PM	Sacramnto-Stkton-Modesto	KOVR
20	21-12-30	5:0	1	PM	Sacramnto-Stkton-Modesto	KOVR
20	21-12-30	6:3	7	PM	Miami-Ft. Lauderdale	WFOR
20	21-12-30	6:0	7	PM	Miami-Ft. Lauderdale	WFOR
0	21-12-30	6:0	6	PM	Dallas-Ft. Worth	KTVT
20	21-12-30	5:3	7	PM	Dallas-Ft. Worth	KTVT
20	21-12-30	5:3	3	PM	Dallas-Ft. Worth	KTVT
20	21-12-30	5:3	3	PM	Dallas-Ft. Worth	KTVT
20	21-12-30	5:1	9	PM	Miami-Ft. Lauderdale	WFOR
20	21-12-30	5:1	9	PM	Miami-Ft. Lauderdale	WFOR
20	21-12-30	5:1	8	PM	Miami-Ft. Lauderdale	WFOR
20	21-12-30	5:1	8	PM	Miami-Ft. Lauderdale	WFOR

### text \

0 have been destroyed. ap, the associated press ... 1 kusa, the nbc affiliate in denver, this is in ... 2 several communities were evacuated because of ... 3 the evening ending overnight. several communit... 4 the evening ending overnight. several communit... 5 the evening ending overnight. several communit... 6 several communities were evacuated because of ... 7 the evening ending overnight. several communit... 8 the evening ending overnight. several communit... 9 mudslides, major. >> garrett: jonathan vigliot... and here in southern california, the rain will... 11 the evening ending overnight. several communit... 12 the evening ending overnight. several communit... 13 the evening ending overnight. several communit... 14 the rain will continue through the evening end... the rain will continue through the evening end...

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16 like this, and the risk of mudslides, major. >...
17
    evacuated because of flooding like this, and t...
   several communities were evacuated because of ...
19
   the evening ending overnight. several communit...
    and here in southern california, the rain will...
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    the evening ending overnight. several communit...
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   the evening ending overnight. several communit...
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   the evening ending overnight. several communit...
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   the evening ending overnight. several communit...
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   and here in southern california, the rain will...
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    the evening ending overnight. several communit...
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    and here in southern california, the rain will...
    the evening ending overnight. several communit...
   the evening ending overnight. several communit...
   the evening ending overnight. several communit...
    the evening ending overnight. several communit...
   the evening ending overnight. several communit...
37
    the evening ending overnight. several communit...
38
   tracking the devastating fires in colorado and...
39
   here we have evacuations. i will tell you a li...
40
   hoping to ski into the new year. and here in s...
    about. we just talked about the hospital where...
    together. this house, burning to the ground. 3...
43
   rubenstein law, injured in a car accident or s...
44
                                   e2021-12-30 5:44 pm
45 wildfire-that engulfed parts of the area. in a...
46
   wildfire-that engulfed parts of the area. in a...
47
    outside of denver have been told to evacuate. ...
48
    the evening ending overnight. several communit...
    the evening ending overnight. several communit...
    several communities were evacuated because of ...
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    the evening ending overnight. several communit...
   the evening ending overnight. several communit...
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    the evening ending overnight. several communit...
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   the evening ending overnight. several communit...
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    the evening ending overnight. several communit...
   mudslides, major. >> garrett: jonathan vigliot...
    the evening ending overnight. several communit...
    and here in southern california, the rain will...
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   mudslides, major. >> garrett: jonathan vigliot...
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   the evening ending overnight. several communit...
   mudslides, major. >> garrett: jonathan vigliot...
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   the evening ending overnight. several communit...
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and here in southern california, the rain will...
64
   several communities were evacuated because of ...
   they are calling this now the marshall-fire-an...
66
    signatures, here. this is where we have had fl...
67
    sun. morning satellite imagery right now we ha...
68
    >> to breaking news now, this is a live look i...
69
   thousands of people have been ordered to evacu...
70
    the evening ending overnight. several communit...
    into the central rockies, and it is a dangerou...
71
72
   we couple that with relative humidity anywhere...
73
   much damage will be assessed as well. >> we st...
   >> the-fire-crews now left the scene knowing t...
75
   the evening ending overnight. several communit...
76 wouldn't be that long in duration. and then th...
77
    the omicron variant. >>> the city of paris sou...
78
   the evening ending overnight. several communit...
79
    the evening ending overnight. several communit...
80
    shortage. with final preps underway for the ne...
81
    >> reporter: news of the boy being badly burne...
    >> reporter: news of the boy being badly burne...
83
    and we support c.c. s. o. and the officer earl...
84
                                           [w:drawing]
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                                                                         80
                                                          [80]
      81
                                                      [81, 82]
                                                                         81
      82
                                                      [81, 82]
                                                                         81
      83
                                                          [83]
                                                                         83
      84
                                                          [84]
                                                                         84
 []:
 []:
[18]: from helpers.utils import mark_use_row
      mark_use_row(df)
[18]: 'done'
[19]: df.head(20)
[19]:
                                                   location station \
                         time
          2021-12-30 6:49 PM
                                        Phoenix (Prescott)
                                                               KPHO
      1
          2021-12-30 6:48 PM
                                        Phoenix (Prescott)
                                                               KPHO
      2
          2021-12-30 6:37 PM
                                          Ft. Myers-Naples
                                                               WINK
                               Greensboro-H.Point-W.Salem
      3
          2021-12-30 6:37 PM
                                                               WFMY
      4
            21-12-30 6:37 PM
                                                   Atlanta
                                                               WGCL
      5
          2021-12-30 6:37 PM
                               Orlando-Daytona Bch-Melbrn
                                                               WKMG
          2021-12-30 6:37 PM
      6
                                                   New York
                                                               WCBS
      7
          2021-12-30 6:37 PM
                                                   Detroit
                                                                WWJ
      8
          2021-12-30 6:37 PM
                                       Boston (Manchester)
                                                                WBZ
      9
           021-12-30 6:37 PM
                                 Sacramnto-Stkton-Modesto
                                                               KOVR
                                                               WFSB
      10
          2021-12-30 6:37 PM
                                      Hartford & New Haven
      11
          2021-12-30 6:37 PM
                                                 Baltimore
                                                                WJZ
      12
           021-12-30 6:37 PM
                               Raleigh-Durham (Fayetvlle)
                                                               WNCN
      13
          2021-12-30 6:37 PM
                                                Pittsburgh
                                                               KDKA
                                              Portland, OR
      14
          2021-12-30 6:37 PM
                                                               KOIN
                                            Seattle-Tacoma
      15
          2021-12-30 6:37 PM
                                                               KIRO
      16
          2021-12-30 6:37 PM
                                               Los Angeles
                                                               KCBS
      17
           021-12-30 6:37 PM
                               San Francisco-Oak-San Jose
                                                               KPIX
      18
            21-12-30 6:37 PM
                                Washington, DC (Hagrstwn)
                                                               WUSA
```

text \

```
have been destroyed. ap, the associated press ...
0
    kusa, the nbc affiliate in denver, this is in ...
1
    several communities were evacuated because of ...
2
3
    the evening ending overnight. several communit...
    the evening ending overnight. several communit...
4
    the evening ending overnight. several communit...
5
6
    several communities were evacuated because of ...
7
    the evening ending overnight. several communit...
    the evening ending overnight. several communit...
9
    mudslides, major. >> garrett: jonathan vigliot...
10
    and here in southern california, the rain will...
    the evening ending overnight. several communit...
11
12
    the evening ending overnight. several communit...
    the evening ending overnight. several communit...
13
14
    the rain will continue through the evening end ...
    the rain will continue through the evening end...
16
    like this, and the risk of mudslides, major. > ...
    evacuated because of flooding like this, and t...
17
    several communities were evacuated because of ...
18
    the evening ending overnight. several communit...
```

													mat	ches	row_to_use	use_row
0														[0]	0	True
1														[1]	1	True
2	[2,	3,	4,	5,	6,	7,	8,	9,	10,	11,	12,	13,	14,	1	14	False
3	[2,	3,	4,	5,	6,	7,	8,	9,	10,	11,	12,	13,	14,	1	14	False
4	[2,	3,	4,	5,	6,	7,	8,	9,	10,	11,	12,	13,	14,	1	14	False
5	[2,	3,	4,	5,	6,	7,	8,	9,	10,	11,	12,	13,	14,	1	14	False
6	[2,	3,	4,	5,	6,	7,	8,	9,	10,	11,	12,	13,	14,	1	14	False
7	[2,	3,	4,	5,	6,	7,	8,	9,	10,	11,	12,	13,	14,	1	14	False
8	[2,	3,	4,	5,	6,	7,	8,	9,	10,	11,	12,	13,	14,	1	14	False
9	[2,	3,	4,	5,	6,	7,	8,	9,	11,	12,	13,	14,	15,	1	14	False
10	[2,	3,	4,	5,	6,	7,	8,	10	, 11	, 12	, 13	, 14	, 15	,	14	False
11	[2,	3,	4,	5,	6,	7,	8,	9,	10,	11,	12,	13,	14,	1	14	False
12	[2,	3,	4,	5,	6,	7,	8,	9,	10,	11,	12,	13,	14,	1	14	False
13	[2,	3,	4,	5,	6,	7,	8,	9,	10,	11,	12,	13,	14,	1	14	False
14	[2,	3,	4,	5,	6,	7,	8,	9,	10,	11,	12,	13,	14,	1	14	True
15	[2,	3,	4,	5,	6,	7,	8,	9,	10,	11,	12,	13,	14,	1	14	False
16	[2,	3,	4,	5,	6,	7,	8,	9,	11,	12,	13,	14,	15,	1	14	False
17	[2,	3,	4,	5,	6,	7,	8,	9,	10,	11,	12,	13,	14,	1	14	False
18	[2,	3,	4,	5,	6,	7,	8,	9,	10,	11,	12,	13,	14,	1	14	False
19	[2,	3,	4,	5,	6,	7,	8,	9,	10,	11,	12,	13,	14,	1	14	False

/Users/loren/.pyenv/versions/3.7.4/lib/python3.7/sitepackages/ipykernel\_launcher.py:1: FutureWarning: The default value of regex will
change from True to False in a future version. In addition, single character
regular expressions will \*not\* be treated as literal strings when regex=True.
"""Entry point for launching an IPython kernel.

/Users/loren/.pyenv/versions/3.7.4/lib/python3.7/site-

packages/ipykernel\_launcher.py:2: FutureWarning: The default value of regex will change from True to False in a future version. In addition, single character regular expressions will \*not\* be treated as literal strings when regex=True.

# [21]: df.head(20)

[21]:			ti	me	location	station	\
	0	2021-12-30	6:49	ΡM	Phoenix (Prescott)	KPHO	
	1	2021-12-30	6:48	ΡM	Phoenix (Prescott)	KPHO	
	2	2021-12-30	6:37	ΡM	Ft. Myers-Naples	WINK	
	3	2021-12-30	6:37	ΡM	Greensboro-H.Point-W.Salem	WFMY	
	4	21-12-30	6:37	ΡM	Atlanta	WGCL	
	5	2021-12-30	6:37	ΡM	Orlando-Daytona Bch-Melbrn	WKMG	
	6	2021-12-30	6:37	ΡM	New York	WCBS	
	7	2021-12-30	6:37	ΡM	Detroit	WWJ	
	8	2021-12-30	6:37	ΡM	Boston (Manchester)	WBZ	
	9	021-12-30	6:37	ΡM	Sacramnto-Stkton-Modesto	KOVR	
	10	2021-12-30	6:37	ΡM	Hartford & New Haven	WFSB	
	11	2021-12-30	6:37	PΜ	Baltimore	WJZ	
	12	021-12-30	6:37	PΜ	Raleigh-Durham (Fayetvlle)	WNCN	
	13	2021-12-30	6:37	ΡM	Pittsburgh	KDKA	
	14	2021-12-30	6:37	PΜ	Portland, OR	KOIN	
	15	2021-12-30	6:37	PΜ	Seattle-Tacoma	KIRO	
	16	2021-12-30	6:37	PΜ	Los Angeles	KCBS	
	17	021-12-30	6:37	PΜ	San Francisco-Oak-San Jose	KPIX	
	18	21-12-30	6:37	PΜ	Washington, DC (Hagrstwn)	WUSA	
	19	2021-12-30	6:37	ΡM	Louisville	WLKY	

text '

- 0 have been destroyed. ap, the associated press ...
- 1 kusa, the nbc affiliate in denver, this is in ...
- 2 several communities were evacuated because of ...
- 3 the evening ending overnight. several communit...
- 4 the evening ending overnight. several communit...
- 5 the evening ending overnight. several communit...

```
several communities were evacuated because of ...
6
7
    the evening ending overnight. several communit...
8
    the evening ending overnight. several communit...
    mudslides, major. >> garrett: jonathan vigliot...
10
    and here in southern california, the rain will...
    the evening ending overnight. several communit...
11
12
    the evening ending overnight. several communit...
13
    the evening ending overnight. several communit...
    the rain will continue through the evening end...
    the rain will continue through the evening end ...
16
    like this, and the risk of mudslides, major. > ...
17
    evacuated because of flooding like this, and t...
18
    several communities were evacuated because of ...
    the evening ending overnight. several communit...
```

```
matches
                                                           row_to_use use_row
0
                                                      [0]
                                                                          True
                                                      [1]
1
                                                                          True
2
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                       False
                                                                  14
3
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
                                                                       False
4
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
                                                                       False
5
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
                                                                       False
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
6
                                                                  14
                                                                       False
7
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
                                                                       False
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
8
                                                                  14
                                                                       False
    [2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 15, 1...
                                                                  14
                                                                       False
    [2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, ...
10
                                                                  14
                                                                       False
11
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
                                                                       False
12
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
                                                                       False
                                                                  14
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
13
                                                                       False
14
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
                                                                        True
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
15
                                                                  14
                                                                       False
    [2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 15, 1...
                                                                  14
                                                                       False
17
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
                                                                       False
18
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
                                                                       False
19
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
                                                                       False
```

#### words

0 [have, been, destroyed, ap, the, associated, p... 1 [kusa, the, nbc, affiliate, in, denver, this, ... 2 [several, communities, were, evacuated, becaus... 3 [the, evening, ending, overnight, several, com... 4 [the, evening, ending, overnight, several, com... 5 [the, evening, ending, overnight, several, com... 6 [several, communities, were, evacuated, becaus... 7 [the, evening, ending, overnight, several, com... 8 [the, evening, ending, overnight, several, com...

```
10
          [and, here, in, southern, california, the, rai...
      11
          [the, evening, ending, overnight, several, com...
      12
          [the, evening, ending, overnight, several, com...
      13
          [the, evening, ending, overnight, several, com...
      14
          [the, rain, will, continue, through, the, even...
      15
          [the, rain, will, continue, through, the, even...
      16
          [like, this, and, the, risk, of, mudslides, ma...
          [evacuated, because, of, flooding, like, this,...
      17
          [several, communities, were, evacuated, becaus...
      18
      19
          [the, evening, ending, overnight, several, com...
 []:
[22]: from helpers.utils import parse_words
      df['clean words'] = df.apply(lambda row: parse words(row['words']), axis=1)
[23]: df.head(20)
[23]:
                                                  location station \
                         time
          2021-12-30 6:49 PM
      0
                                        Phoenix (Prescott)
                                                               KPHO
      1
          2021-12-30 6:48 PM
                                        Phoenix (Prescott)
                                                               KPHO
      2
          2021-12-30 6:37 PM
                                          Ft. Myers-Naples
                                                               WINK
      3
          2021-12-30 6:37 PM
                               Greensboro-H.Point-W.Salem
                                                               WFMY
      4
            21-12-30 6:37 PM
                                                               WGCL
                                                   Atlanta
          2021-12-30 6:37 PM
      5
                               Orlando-Daytona Bch-Melbrn
                                                               WKMG
      6
          2021-12-30 6:37 PM
                                                  New York
                                                               WCBS
      7
          2021-12-30 6:37 PM
                                                   Detroit
                                                                WWJ
          2021-12-30 6:37 PM
                                                                WBZ
      8
                                      Boston (Manchester)
                                 Sacramnto-Stkton-Modesto
      9
           021-12-30 6:37 PM
                                                               KOVR
          2021-12-30 6:37 PM
                                     Hartford & New Haven
                                                               WFSB
      11
          2021-12-30 6:37 PM
                                                 Baltimore
                                                                WJZ
      12
           021-12-30 6:37 PM
                               Raleigh-Durham (Fayetvlle)
                                                               WNCN
      13
          2021-12-30 6:37 PM
                                                Pittsburgh
                                                               KDKA
      14
          2021-12-30 6:37 PM
                                              Portland, OR
                                                               KOIN
      15
          2021-12-30 6:37 PM
                                            Seattle-Tacoma
                                                               KIRO
      16
          2021-12-30 6:37 PM
                                               Los Angeles
                                                               KCBS
      17
           021-12-30 6:37 PM
                               San Francisco-Oak-San Jose
                                                               KPIX
      18
            21-12-30 6:37 PM
                                Washington, DC (Hagrstwn)
                                                               WUSA
      19
          2021-12-30 6:37 PM
                                                Louisville
                                                               WLKY
                                                          text
                                                               \
      0
          have been destroyed. ap, the associated press ...
      1
          kusa, the nbc affiliate in denver, this is in ...
      2
          several communities were evacuated because of ...
      3
          the evening ending overnight. several communit...
          the evening ending overnight. several communit...
```

[mudslides, major, , garrett, jonathan, viglio...

9

```
5
    the evening ending overnight. several communit...
6
    several communities were evacuated because of ...
7
    the evening ending overnight. several communit...
8
    the evening ending overnight. several communit...
9
    mudslides, major. >> garrett: jonathan vigliot...
10
    and here in southern california, the rain will...
11
    the evening ending overnight. several communit...
12
    the evening ending overnight. several communit...
    the evening ending overnight. several communit...
13
    the rain will continue through the evening end ...
15
    the rain will continue through the evening end ...
16
    like this, and the risk of mudslides, major. > ...
17
    evacuated because of flooding like this, and t...
18
    several communities were evacuated because of ...
19
    the evening ending overnight. several communit...
```

```
matches
                                                           row_to_use use_row
0
                                                      [0]
                                                                          True
                                                      [1]
1
                                                                          True
2
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
                                                                       False
3
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
                                                                       False
4
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
                                                                       False
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
5
                                                                       False
                                                                  14
6
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
                                                                       False
7
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
                                                                       False
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
                                                                       False
9
    [2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 15, 1...
                                                                  14
                                                                       False
10
    [2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, ...
                                                                  14
                                                                       False
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
11
                                                                  14
                                                                       False
                                                                  14
12
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                       False
13
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
                                                                       False
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
14
                                                                  14
                                                                        True
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
                                                                       False
16
    [2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 15, 1...
                                                                  14
                                                                       False
17
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
                                                                       False
18
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
                                                                       False
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
19
                                                                  14
                                                                       False
```

0 [have, been, destroyed, ap, the, associated, p...

1 [kusa, the, nbc, affiliate, in, denver, this, ...

- 2 [several, communities, were, evacuated, becaus...
- 3 [the, evening, ending, overnight, several, com...
- 4 [the, evening, ending, overnight, several, com...
- 5 [the, evening, ending, overnight, several, com...
- 6 [several, communities, were, evacuated, becaus...
- 7 [the, evening, ending, overnight, several, com...

words

```
8
          [the, evening, ending, overnight, several, com...
          [mudslides, major, , garrett, jonathan, viglio...
          [and, here, in, southern, california, the, rai...
          [the, evening, ending, overnight, several, com...
      11
      12
          [the, evening, ending, overnight, several, com...
      13
          [the, evening, ending, overnight, several, com...
      14
          [the, rain, will, continue, through, the, even...
      15
          [the, rain, will, continue, through, the, even...
          [like, this, and, the, risk, of, mudslides, ma...
      16
      17
          [evacuated, because, of, flooding, like, this,...
      18
          [several, communities, were, evacuated, becaus...
      19
          [the, evening, ending, overnight, several, com...
                                                  clean_words
      0
          [have, been, destroyed, ap, the, associated, p...
          [kusa, the, nbc, affiliate, in, denver, this, ...
      1
      2
          [several, communities, were, evacuated, becaus...
      3
          [the, evening, ending, overnight, several, com...
      4
          [the, evening, ending, overnight, several, com...
      5
          [the, evening, ending, overnight, several, com...
      6
          [several, communities, were, evacuated, becaus...
      7
          [the, evening, ending, overnight, several, com...
          [the, evening, ending, overnight, several, com...
      8
      9
          [mudslides, major, garrett, jonathan, vigliott...
          [and, here, in, southern, california, the, rai...
      10
          [the, evening, ending, overnight, several, com...
      12
          [the, evening, ending, overnight, several, com...
      13
          [the, evening, ending, overnight, several, com...
      14
          [the, rain, will, continue, through, the, even...
          [the, rain, will, continue, through, the, even...
      15
      16
          [like, this, and, the, risk, of, mudslides, ma...
      17
          [evacuated, because, of, flooding, like, this,...
          [several, communities, were, evacuated, becaus...
          [the, evening, ending, overnight, several, com...
[24]: from helpers.utils import fetch_climate_words_in_words,_
        →fetch_climate_phrases_in_text
[25]: fetch_climate_words_in_words(["adapt", "for", "climate", "change"])
      # segment_df['climate_words_found'] = segment_df.apply(lambda row:u
       → fetch_climate_words_in_text(row['clean_words']), axis=1)
```

[26]: ['climate change']

[25]: ['adapt', 'climate']

[26]: fetch\_climate\_phrases\_in\_text("adapt\_for\_climate\_change")

```
[27]: df['climate_words_found'] = df.apply(lambda row:

→fetch_climate_words_in_words(row['clean_words']), axis=1)

[28]: df.head(20)
[28]:
                         time
                                                  location station
      0
          2021-12-30 6:49 PM
                                        Phoenix (Prescott)
                                                               KPHO
      1
          2021-12-30 6:48 PM
                                        Phoenix (Prescott)
                                                               KPHO
      2
          2021-12-30 6:37 PM
                                          Ft. Myers-Naples
                                                               WINK
      3
          2021-12-30 6:37 PM
                               Greensboro-H.Point-W.Salem
                                                               WFMY
      4
            21-12-30 6:37 PM
                                                               WGCL
      5
          2021-12-30 6:37 PM
                               Orlando-Daytona Bch-Melbrn
                                                               WKMG
      6
          2021-12-30 6:37 PM
                                                  New York
                                                               WCBS
      7
          2021-12-30 6:37 PM
                                                   Detroit
                                                                WWJ
      8
          2021-12-30 6:37 PM
                                       Boston (Manchester)
                                                                WBZ
      9
           021-12-30 6:37 PM
                                 Sacramnto-Stkton-Modesto
                                                               KOVR
                                      Hartford & New Haven
      10
          2021-12-30 6:37 PM
                                                               WFSB
          2021-12-30 6:37 PM
      11
                                                 Baltimore
                                                                WJZ
      12
           021-12-30 6:37 PM
                               Raleigh-Durham (Fayetvlle)
                                                               WNCN
          2021-12-30 6:37 PM
                                                Pittsburgh
                                                               KDKA
          2021-12-30 6:37 PM
                                              Portland, OR
                                                               KOIN
      14
      15
          2021-12-30 6:37 PM
                                            Seattle-Tacoma
                                                               KIRO
          2021-12-30 6:37 PM
                                               Los Angeles
                                                               KCBS
      16
      17
           021-12-30 6:37 PM
                               San Francisco-Oak-San Jose
                                                               KPIX
      18
            21-12-30 6:37 PM
                                Washington, DC (Hagrstwn)
                                                               WUSA
      19
          2021-12-30 6:37 PM
                                                Louisville
                                                               WLKY
                                                          text
      0
          have been destroyed. ap, the associated press ...
      1
          kusa, the nbc affiliate in denver, this is in ...
      2
          several communities were evacuated because of ...
      3
          the evening ending overnight. several communit...
      4
          the evening ending overnight. several communit...
      5
          the evening ending overnight. several communit...
      6
          several communities were evacuated because of \dots
      7
          the evening ending overnight. several communit...
      8
          the evening ending overnight. several communit...
      9
          mudslides, major. >> garrett: jonathan vigliot...
          and here in southern california, the rain will...
      10
      11
          the evening ending overnight. several communit...
      12
          the evening ending overnight. several communit...
      13
          the evening ending overnight. several communit...
          the rain will continue through the evening end...
      14
      15
          the rain will continue through the evening end ...
      16
          like this, and the risk of mudslides, major. >...
          evacuated because of flooding like this, and t...
      17
          several communities were evacuated because of ...
```

19 the evening ending overnight. several communit...

```
matches
                                                           row_to_use use_row
0
                                                      [0]
                                                                          True
                                                      [1]
1
                                                                     1
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2
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
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3
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
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4
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
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5
                                                                  14
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6
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
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                                                                       False
7
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
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    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
                                                                       False
9
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                                                                  14
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                                                                       False
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11
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12
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
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    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
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    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
15
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                                                                       False
16
    [2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 15, 1...
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17
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
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                                                                       False
18
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
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                                                                       False
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19
                                                                  14
                                                                       False
                                                    words
0
    [have, been, destroyed, ap, the, associated, p...
1
    [kusa, the, nbc, affiliate, in, denver, this, ...
2
    [several, communities, were, evacuated, becaus...
3
    [the, evening, ending, overnight, several, com...
4
    [the, evening, ending, overnight, several, com...
5
    [the, evening, ending, overnight, several, com...
6
    [several, communities, were, evacuated, becaus...
7
    [the, evening, ending, overnight, several, com...
8
    [the, evening, ending, overnight, several, com...
9
    [mudslides, major, , garrett, jonathan, viglio...
10
    [and, here, in, southern, california, the, rai...
11
    [the, evening, ending, overnight, several, com...
12
    [the, evening, ending, overnight, several, com...
13
    [the, evening, ending, overnight, several, com...
    [the, rain, will, continue, through, the, even ...
15
    [the, rain, will, continue, through, the, even ...
16
    [like, this, and, the, risk, of, mudslides, ma...
17
    [evacuated, because, of, flooding, like, this,...
    [several, communities, were, evacuated, becaus...
18
19
    [the, evening, ending, overnight, several, com...
```

clean\_words '

```
0
          [have, been, destroyed, ap, the, associated, p...
      1
          [kusa, the, nbc, affiliate, in, denver, this, ...
      2
          [several, communities, were, evacuated, becaus...
      3
          [the, evening, ending, overnight, several, com...
      4
          [the, evening, ending, overnight, several, com...
      5
          [the, evening, ending, overnight, several, com...
          [several, communities, were, evacuated, becaus...
      6
      7
          [the, evening, ending, overnight, several, com...
          [the, evening, ending, overnight, several, com...
      8
      9
          [mudslides, major, garrett, jonathan, vigliott...
      10
          [and, here, in, southern, california, the, rai...
      11
          [the, evening, ending, overnight, several, com...
      12
          [the, evening, ending, overnight, several, com...
      13
          [the, evening, ending, overnight, several, com...
      14
          [the, rain, will, continue, through, the, even...
      15
          [the, rain, will, continue, through, the, even...
      16
          [like, this, and, the, risk, of, mudslides, ma...
          [evacuated, because, of, flooding, like, this,...
      17
      18
          [several, communities, were, evacuated, becaus...
      19
          [the, evening, ending, overnight, several, com...
                   climate_words_found
      0
                                      Г٦
      1
      2
                               [severe]
      3
                               [severe]
      4
                               [severe]
      5
                               [severe]
      6
                               [severe]
      7
                               [severe]
      8
                               [severe]
      9
           [high, severe, temperature]
                               [severe]
      10
      11
                               [severe]
      12
                               [severe]
      13
                               [severe]
      14
                               [severe]
      15
                               [severe]
      16
                               [severe]
      17
                 [severe, temperature]
      18
                               [severe]
      19
                               [severe]
[29]: df['climate_phrases_found'] = df.apply(lambda row:
        ofetch_climate_phrases_in_text(row['text']), axis=1)
     df.head(20)
```

[30]:

```
[30]:
                                                   location station \
                         time
          2021-12-30 6:49 PM
                                        Phoenix (Prescott)
                                                               KPHO
      0
          2021-12-30 6:48 PM
                                        Phoenix (Prescott)
                                                               KPHO
      1
      2
          2021-12-30 6:37 PM
                                          Ft. Myers-Naples
                                                               WINK
          2021-12-30 6:37 PM
                               Greensboro-H.Point-W.Salem
      3
                                                               WFMY
      4
            21-12-30 6:37 PM
                                                               WGCL
                                                    Atlanta
      5
          2021-12-30 6:37 PM
                               Orlando-Daytona Bch-Melbrn
                                                               WKMG
      6
          2021-12-30 6:37 PM
                                                   New York
                                                               WCBS
      7
          2021-12-30 6:37 PM
                                                    Detroit
                                                                WWJ
      8
          2021-12-30 6:37 PM
                                       Boston (Manchester)
                                                                WBZ
                                  Sacramnto-Stkton-Modesto
      9
           021-12-30 6:37 PM
                                                               KOVR
          2021-12-30 6:37 PM
                                      Hartford & New Haven
                                                               WFSB
      10
      11
          2021-12-30 6:37 PM
                                                  Baltimore
                                                                WJZ
      12
           021-12-30 6:37 PM
                               Raleigh-Durham (Fayetvlle)
                                                               WNCN
          2021-12-30 6:37 PM
      13
                                                Pittsburgh
                                                               KDKA
          2021-12-30 6:37 PM
                                              Portland, OR
                                                               KOIN
      15
          2021-12-30 6:37 PM
                                            Seattle-Tacoma
                                                               KIRO
      16
          2021-12-30 6:37 PM
                                                               KCBS
                                               Los Angeles
      17
           021-12-30 6:37 PM
                               San Francisco-Oak-San Jose
                                                               KPIX
      18
            21-12-30 6:37 PM
                                 Washington, DC (Hagrstwn)
                                                               WUSA
          2021-12-30 6:37 PM
                                                Louisville
      19
                                                               WLKY
          have been destroyed. ap, the associated press ...
      0
      1
          kusa, the nbc affiliate in denver, this is in ...
      2
          several communities were evacuated because of ...
      3
          the evening ending overnight. several communit...
      4
          the evening ending overnight. several communit...
      5
          the evening ending overnight. several communit...
      6
          several communities were evacuated because of ...
      7
          the evening ending overnight. several communit...
      8
          the evening ending overnight. several communit...
      9
          mudslides, major. >> garrett: jonathan vigliot...
      10
          and here in southern california, the rain will...
          the evening ending overnight. several communit...
      11
          the evening ending overnight. several communit...
      12
          the evening ending overnight. several communit...
          the rain will continue through the evening end...
          the rain will continue through the evening end...
          like this, and the risk of mudslides, major. > ...
      16
          evacuated because of flooding like this, and t...
      17
          several communities were evacuated because of ...
      18
          the evening ending overnight. several communit...
                                                       matches
                                                                row_to_use use_row
      0
                                                           [0]
                                                                          0
                                                                               True
      1
                                                           [1]
                                                                          1
                                                                               True
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2
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6
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8
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9
    [2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 15, 1...
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10
                                                                  14
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                                                                       False
12
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
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                                                                       False
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    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
                                                                        True
15
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
                                                                       False
                                                                  14
16
    [2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 15, 1...
                                                                       False
17
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
                                                                       False
18
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
                                                                       False
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                  14
                                                                       False
```

#### words \

0 [have, been, destroyed, ap, the, associated, p... 1 [kusa, the, nbc, affiliate, in, denver, this, ... 2 [several, communities, were, evacuated, becaus... 3 [the, evening, ending, overnight, several, com... 4 [the, evening, ending, overnight, several, com... 5 [the, evening, ending, overnight, several, com... 6 [several, communities, were, evacuated, becaus... 7 [the, evening, ending, overnight, several, com... 8 [the, evening, ending, overnight, several, com... 9 [mudslides, major, , garrett, jonathan, viglio... 10 [and, here, in, southern, california, the, rai... 11 [the, evening, ending, overnight, several, com... 12 [the, evening, ending, overnight, several, com... 13 [the, evening, ending, overnight, several, com... 14 [the, rain, will, continue, through, the, even... 15 [the, rain, will, continue, through, the, even... 16 [like, this, and, the, risk, of, mudslides, ma... 17 [evacuated, because, of, flooding, like, this,... 18 [several, communities, were, evacuated, becaus... 19 [the, evening, ending, overnight, several, com...

### clean\_words \

- 0 [have, been, destroyed, ap, the, associated, p...
- 1 [kusa, the, nbc, affiliate, in, denver, this, ...
- 2 [several, communities, were, evacuated, becaus...
- 3 [the, evening, ending, overnight, several, com...
- 4 [the, evening, ending, overnight, several, com...

```
5
          [the, evening, ending, overnight, several, com...
          [several, communities, were, evacuated, becaus...
      6
      7
          [the, evening, ending, overnight, several, com...
      8
          [the, evening, ending, overnight, several, com...
      9
          [mudslides, major, garrett, jonathan, vigliott...
      10
          [and, here, in, southern, california, the, rai...
      11
          [the, evening, ending, overnight, several, com...
      12
          [the, evening, ending, overnight, several, com...
          [the, evening, ending, overnight, several, com...
      13
      14
          [the, rain, will, continue, through, the, even...
          [the, rain, will, continue, through, the, even...
      15
      16
          [like, this, and, the, risk, of, mudslides, ma...
      17
          [evacuated, because, of, flooding, like, this,...
      18
          [several, communities, were, evacuated, becaus...
          [the, evening, ending, overnight, several, com...
      19
                  climate_words_found climate_phrases_found
      0
                                    []
                                                           1
                              [severe]
                                                           2
      3
                              [severe]
                                                           4
                              [severe]
                                                           Π
      5
                              [severe]
                                                           6
                              [severe]
      7
                              [severe]
                                                           8
                              [severe]
                                                           Π
          [high, severe, temperature]
                                                           9
      10
                              [severe]
                                                           11
                              [severe]
      12
                                                           [severe]
      13
                              [severe]
                                                           []
      14
                              [severe]
                                                           15
                              [severe]
                                                           16
                              [severe]
                                                           17
                 [severe, temperature]
      18
                              [severe]
                                                           19
                              [severe]
                                                           Π
[31]: # save data to csv
      df.to_csv('reports/cbs_all.csv', encoding='utf-8')
[32]: unique_df = df[df['use_row']]
     unique_df
                                                location station \
                         time
          2021-12-30 6:49 PM
                                     Phoenix (Prescott)
                                                            KPHO
```

[33]:

[33]:

```
1
    2021-12-30 6:48 PM
                              Phoenix (Prescott)
                                                     KPHO
                                                     KOIN
14
   2021-12-30 6:37 PM
                                     Portland, OR
38
   2021-12-30 6:12 PM
                        Sacramnto-Stkton-Modesto
                                                     KOVR
39
    2021-12-30 6:20 PM
                        Sacramnto-Stkton-Modesto
                                                     KOVR
41
    2021-12-30 6:00 PM
                        Sacramnto-Stkton-Modesto
                                                     KOVR
42
    2021-12-30 5:59 PM
                        Sacramnto-Stkton-Modesto
                                                      KOV
43
    2021-12-30 5:55 PM
                                Ft. Myers-Naples
                                                     WINK
44
    2021-12-30 5:44 PM
                                        Baltimore
                                                      WJZ
                                                      WJZ
45
    2021-12-30 5:44 PM
                                        Baltimore
47
    2021-12-30 5:43 PM
                                  Seattle-Tacoma
                                                     KIRO
    2021-12-30 5:34 PM
65
                                       Pittsburgh
                                                     KDKA
    2021-12-30 5:31 PM
                        Sacramnto-Stkton-Modesto
                                                     KOVR
67
    2021-12-30 5:17 PM
                                            Tulsa
                                                     KOTV
68
    2021-12-30 5:14 PM
                                    Portland, OR
                                                     KOIN
    2021-12-30 5:12 PM
69
                                        San Diego
                                                     KFMB
71
    2021-12-30 5:06 PM
                              Phoenix (Prescott)
                                                     KPHO
72
    2021-12-30 5:04 PM
                        Sacramnto-Stkton-Modesto
                                                     KOVR
73
    2021-12-30 5:02 PM
                        Sacramnto-Stkton-Modesto
                                                     KOVR
74
    2021-12-30 5:01 PM
                        Sacramnto-Stkton-Modesto
                                                     KOVR
76
    2021-12-30 6:07 PM
                            Miami-Ft. Lauderdale
                                                     WFOR
77
    021-12-30 6:06 PM
                                Dallas-Ft. Worth
                                                     KTVT
    2021-12-30 5:33 PM
                                Dallas-Ft. Worth
                                                     KTVT
80
81
    2021-12-30 5:19 PM
                            Miami-Ft. Lauderdale
                                                     WFOR
   2021-12-30 5:18 PM
                            Miami-Ft. Lauderdale
83
                                                     WFOR
84 2021-12-30 5:18 PM
                            Miami-Ft. Lauderdale
                                                     WFOR
```

#### text \

have been destroyed. ap, the associated press ... 0 1 kusa, the nbc affiliate in denver, this is in ... the rain will continue through the evening end... 38 tracking the devastating fires in colorado and... 39 here we have evacuations. i will tell you a li... 41 about. we just talked about the hospital where... together. this house, burning to the ground. 3... 43 rubenstein law, injured in a car accident or s... 44 e2021-12-30 5:44 pm 45 wildfire-that engulfed parts of the area. in a... 47 outside of denver have been told to evacuate. ... 65 they are calling this now the marshall-fire-an... 66 signatures, here. this is where we have had fl... 67 sun. morning satellite imagery right now we ha... >> to breaking news now, this is a live look i... thousands of people have been ordered to evacu... 69 71 into the central rockies, and it is a dangerou... 72 we couple that with relative humidity anywhere... 73 much damage will be assessed as well. >> we st... 74 >> the-fire-crews now left the scene knowing t...

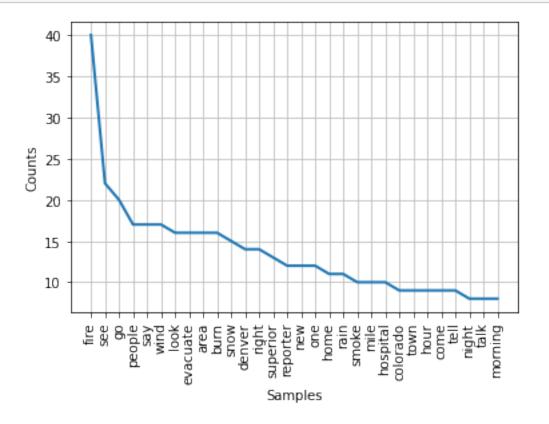
```
76
    wouldn't be that long in duration. and then th...
77
    the omicron variant. >>> the city of paris sou...
80
    shortage. with final preps underway for the ne...
81
    >> reporter: news of the boy being badly burne...
83
    and we support c.c. s. o. and the officer earl...
84
                                              [w:drawing]
                                                  matches
                                                            row_to_use use_row \
0
                                                       [0]
                                                                      0
                                                                            True
1
                                                       [1]
                                                                      1
                                                                            True
                                                                          True
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                   14
38
                                                                     38
                                                                            True
                                                      [38]
39
                                                      [39]
                                                                     39
                                                                            True
41
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72
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73
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74
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77
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80
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                                                                     80
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                                                  [81, 82]
81
                                                                     81
                                                                            True
83
                                                      [83]
                                                                     83
                                                                            True
                                                      [84]
84
                                                                     84
                                                                            True
                                                     words
0
    [have, been, destroyed, ap, the, associated, p...
1
    [kusa, the, nbc, affiliate, in, denver, this, ...
14
    [the, rain, will, continue, through, the, even...
38
    [tracking, the, devastating, fires, in, colora...
39
    [here, we, have, evacuations, i, will, tell, y...
41
    [about, we, just, talked, about, the, hospital...
42
    [together, this, house, burning, to, the, grou...
43
    [rubenstein, law, injured, in, a, car, acciden...
44
                                  [e2021-12-30, 544, pm]
45
    [wildfire-that, engulfed, parts, of, the, area...
47
    [outside, of, denver, have, been, told, to, ev...
```

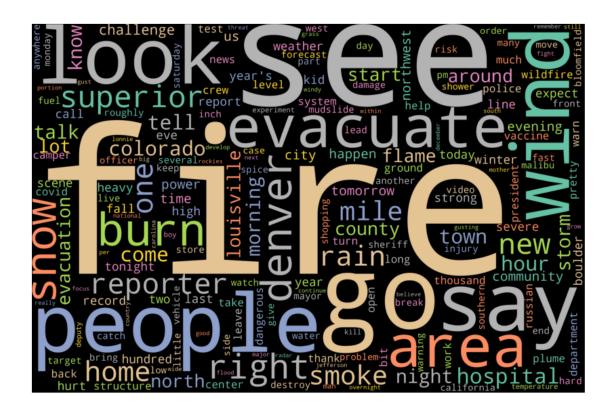
```
[they, are, calling, this, now, the, marshall-...
65
    [signatures, here, this, is, where, we, have, ...
66
67
    [sun, morning, satellite, imagery, right, now,...
68
    [to, breaking, news, now, this, is, a, live, l...
69
    [thousands, of, people, have, been, ordered, t...
71
    [into, the, central, rockies, and, it, is, a, ...
72
    [we, couple, that, with, relative, humidity, a...
73
    [much, damage, will, be, assessed, as, well, ,...
    [the-fire-crews, now, left, the, scene, knowin...
74
76
    [wouldn't, be, that, long, in, duration, and, ...
77
    [the, omicron, variant, , the, city, of, paris...
80
    [shortage, with, final, preps, underway, for, ...
81
    [reporter, news, of, the, boy, being, badly, b...
    [and, we, support, cc, s, o, and, the, officer...
83
84
                                           [[wdrawing]]
                                            clean_words \
    [have, been, destroyed, ap, the, associated, p...
0
1
    [kusa, the, nbc, affiliate, in, denver, this, ...
14
    [the, rain, will, continue, through, the, even...
38
    [tracking, the, devastating, fires, in, colora...
39
    [here, we, have, evacuations, i, will, tell, y...
41
    [about, we, just, talked, about, the, hospital...
42
    [together, this, house, burning, to, the, grou...
43
    [rubenstein, law, injured, in, a, car, acciden...
44
                                    [e2021, 12, 30, pm]
45
    [wildfire, that, engulfed, parts, of, the, are...
47
    [outside, of, denver, have, been, told, to, ev...
65
    [they, are, calling, this, now, the, marshall,...
    [signatures, here, this, is, where, we, have, ...
66
67
    [sun, morning, satellite, imagery, right, now,...
    [to, breaking, news, now, this, is, a, live, l...
68
69
    [thousands, of, people, have, been, ordered, t...
71
    [into, the, central, rockies, and, it, is, a, ...
72
    [we, couple, that, with, relative, humidity, a...
73
    [much, damage, will, be, assessed, as, well, w...
74
    [the, fire, crews, now, left, the, scene, know...
76
    [wouldn't, be, that, long, in, duration, and, ...
77
    [the, omicron, variant, the, city, of, paris, ...
80
    [shortage, with, final, preps, underway, for, ...
81
    [reporter, news, of, the, boy, being, badly, b...
83
    [and, we, support, cc, s, o, and, the, officer...
84
                                           [[wdrawing]]
          climate_words_found climate_phrases_found
0
                             []
                                                    []
1
```

```
14
                           [severe]
                                                      38
                                 []
      39
                                 [effect]
                                                      []
      41
      42
                                 43
                                 []
                                                      []
                                 Π
                                                       44
      45
                             [high]
                                                       47
                             [ice]
                                                       65
                                 [record]
                                                       Г٦
      66
             [energy, high, severe]
                                                       67
                     [high, record]
                                                       68
                                        [record breaking]
      69
                           [record]
     71
                           [effect]
                                                       72
                                                      73
                                                      []
                 [drought, extreme]
      74
                                                       [heat]
      76
                       [heat, warm]
                                                      []
      77
                                                       80
          [history, record, rising]
                                                      81
                                                       Π
     83
                                 []
      84
                                 Π
                                                      [34]: total_words = unique_df['clean_words'].str.len().sum()
      total_words
[34]: 3558
[35]: def words_found_master_list(df_clean_words):
          """Given a column of words, aggregate master list"""
         words_found = list()
         for chunk in df_clean_words:
              words_found += chunk
         return words_found
[37]: words_found = words_found_master_list(unique_df['clean_words'])
      len(words_found)
[37]: 3558
[39]: from nltk.corpus import stopwords
      from nltk import pos_tag
      from nltk.stem import WordNetLemmatizer
      from nltk.tokenize import word_tokenize
```

```
from wordcloud import STOPWORDS
      def master_stopwords_list():
          """Creates a master list of stopwords from pre-existing stopwords found in \Box
       ⇔nltk and wordcloud"""
          stop words = set(stopwords.words("english"))
          final_stopwords = list(STOPWORDS) + list(stop_words)
          return [i.lower() for i in set(final_stopwords)]
      def lemmatize_words(words):
          """Given a list of words, distill to root words"""
          lem = WordNetLemmatizer()
          lemma_list = []
          for word, tag in pos_tag(words):
              wntag = tag[0].lower()
              wntag = wntag if wntag in ['a', 'r', 'n', 'v'] else None
              if not wntag:
                  lemma = word
              else:
                  lemma = lem.lemmatize(word, pos=wntag)
              lemma_list.append(lemma)
          return lemma_list
      def clean_lemmatized_words(lemma_words):
          """Removes stop words from the lemma list"""
          nonstop_lemma_words = []
          final_stopwords = master_stopwords_list()
          for word in lemma_words:
              if word not in final_stopwords:
                  nonstop_lemma_words.append(word)
          return list(filter(None, nonstop_lemma_words))
[40]: clean_lemma_words = clean_lemmatized_words(lemmatize_words(words_found))
[41]: from nltk.probability import FreqDist
      lfdist = FreqDist(clean_lemma_words)
      lfdist
[41]: FreqDist({'fire': 40, 'see': 22, 'go': 20, 'people': 17, 'say': 17, 'wind': 17,
      'look': 16, 'evacuate': 16, 'area': 16, 'burn': 16, ...})
[42]: import matplotlib.pyplot as plt
      lfdist.plot(30,cumulative=False)
```

## plt.show()





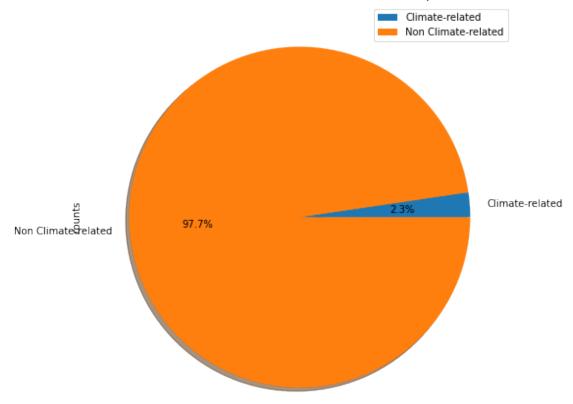
```
[44]: import sys
      sys.path.append('../')
      from helpers.words import CLIMATE_CHANGE_RELATED_WORDS,_
       →CLIMATE_CHANGE_RELATED_PHRASES
[45]: import pandas as pd
      pd.options.display.max_rows = 500
      words_df = pd.DataFrame(lfdist.items(), columns=['Word', 'Count'])
      words_df.sort_values(by=['Count'], ascending=False, inplace=True)
      len(words_df)
      # 1374 total words
      words_df['Count'].sum()
      # create data
      climate_change_words_df = words_df.loc[words_df['Word'].
      ⇒isin(CLIMATE_CHANGE_RELATED_WORDS)]
      climate_words_count = climate_change_words_df['Count'].sum()
      non_climate_words_count = words_df['Count'].sum() - climate_words_count
```

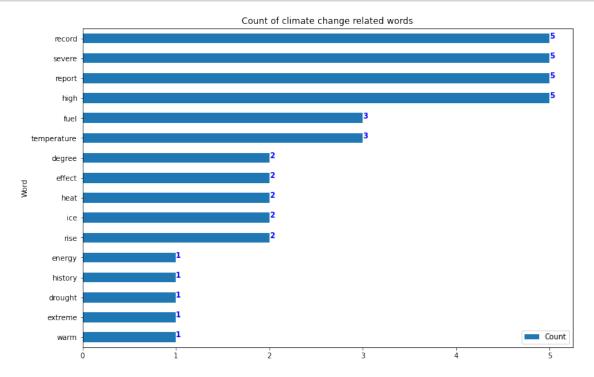
counts

Words

Climate-related 41
Non Climate-related 1713

## Climated-related vs non climated-related word frequencies





```
[47]: # find segments
    climate_change_words_found = list(climate_change_words_df['Word'].unique())
    climate_change_words_found

[47]: ['high',
    'report',
    'severe',
```

```
'record',
       'temperature',
       'fuel',
       'rise',
       'ice',
       'heat',
       'effect',
       'degree',
       'warm',
       'extreme',
       'drought',
       'history',
       'energy']
[49]: unique_df[unique_df["climate_words_found"].str.len() != 0].to_csv('reports/

¬cbs_final.csv', encoding='utf-8')

[50]: unique_df[unique_df["climate_words_found"].str.len() != 0]
[50]:
                        time
                                               location station \
      14
          2021-12-30 6:37 PM
                                           Portland, OR
                                                            KOIN
          2021-12-30 6:00 PM
                              Sacramnto-Stkton-Modesto
      41
                                                            KOVR
          2021-12-30 5:44 PM
      45
                                              Baltimore
                                                            WJZ
      47
          2021-12-30 5:43 PM
                                         Seattle-Tacoma
                                                           KIRO
          2021-12-30 5:31 PM
                              Sacramnto-Stkton-Modesto
      66
                                                           KOVR
          2021-12-30 5:17 PM
                                                           KOTV
      67
                                                  Tulsa
          2021-12-30 5:14 PM
                                           Portland, OR
      68
                                                           KOIN
      69
          2021-12-30 5:12 PM
                                              San Diego
                                                           KFMB
      71
         2021-12-30 5:06 PM
                                     Phoenix (Prescott)
                                                           KPHO
      73 2021-12-30 5:02 PM
                              Sacramnto-Stkton-Modesto
                                                           KOVR
      74 2021-12-30 5:01 PM
                              Sacramnto-Stkton-Modesto
                                                           KOVR
      76 2021-12-30 6:07 PM
                                   Miami-Ft. Lauderdale
                                                            WFOR
      80 2021-12-30 5:33 PM
                                       Dallas-Ft. Worth
                                                           KTVT
                                                        text \
          the rain will continue through the evening end...
      41
          about. we just talked about the hospital where...
      45
         wildfire-that engulfed parts of the area. in a...
      47
          outside of denver have been told to evacuate. ...
          signatures, here. this is where we have had fl...
      66
      67
          sun. morning satellite imagery right now we ha...
          >> to breaking news now, this is a live look i...
          thousands of people have been ordered to evacu...
      71
          into the central rockies, and it is a dangerou...
      73 much damage will be assessed as well. >> we st...
      74 >> the-fire-crews now left the scene knowing t...
      76 wouldn't be that long in duration. and then th...
```

80 shortage. with final preps underway for the ne...

```
matches
                                                           row_to_use use_row \
14
    [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1...
                                                                 14
                                                                        True
41
                                                     [41]
                                                                   41
                                                                          True
45
                                                [45, 46]
                                                                   45
                                                                          True
47
                                                     [47]
                                                                   47
                                                                          True
66
                                                     [66]
                                                                   66
                                                                          True
67
                                                     [67]
                                                                   67
                                                                          True
68
                                                     [68]
                                                                   68
                                                                          True
69
                                                     [69]
                                                                   69
                                                                          True
71
                                                     [71]
                                                                   71
                                                                          True
73
                                                     [73]
                                                                   73
                                                                          True
74
                                                     [74]
                                                                   74
                                                                          True
76
                                                     [76]
                                                                   76
                                                                          True
80
                                                     [80]
                                                                   80
                                                                          True
                                                   words \
    [the, rain, will, continue, through, the, even...
    [about, we, just, talked, about, the, hospital...
41
45
    [wildfire-that, engulfed, parts, of, the, area...
    [outside, of, denver, have, been, told, to, ev...
47
    [signatures, here, this, is, where, we, have, ...
66
67
    [sun, morning, satellite, imagery, right, now,...
68
    [to, breaking, news, now, this, is, a, live, l...
69
    [thousands, of, people, have, been, ordered, t...
71
    [into, the, central, rockies, and, it, is, a, ...
73
    [much, damage, will, be, assessed, as, well, ,...
    [the-fire-crews, now, left, the, scene, knowin...
74
    [wouldn't, be, that, long, in, duration, and, ...
76
80
    [shortage, with, final, preps, underway, for, ...
                                             clean words \
14
    [the, rain, will, continue, through, the, even...
41
    [about, we, just, talked, about, the, hospital...
45
    [wildfire, that, engulfed, parts, of, the, are...
    [outside, of, denver, have, been, told, to, ev...
47
    [signatures, here, this, is, where, we, have, ...
66
67
    [sun, morning, satellite, imagery, right, now,...
68
    [to, breaking, news, now, this, is, a, live, l...
69
    [thousands, of, people, have, been, ordered, t...
71
    [into, the, central, rockies, and, it, is, a, ...
73
    [much, damage, will, be, assessed, as, well, w...
74
    [the, fire, crews, now, left, the, scene, know...
76
    [wouldn't, be, that, long, in, duration, and, ...
    [shortage, with, final, preps, underway, for, ...
80
```

		climate_words_found	climate_phrases_found	
	14	[severe]	[]	
	41	[effect]	[]	
	45	[high]	[]	
	47	[ice]	[]	
	66	[record]	[]	
	67	[energy, high, severe]	[]	
	68	[high, record]	[]	
	69	[record]	[record breaking]	
	71	[effect]	[]	
	73	[drought, extreme]	[]	
	74	[heat]	[]	
	76	[heat, warm]	[]	
	80	[history, record, rising]	[]	
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[]:				
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ь ј.				
[]:				