Webscraping

Basic html page

```
<!DOCTYPE html>
<html>
<head>
    <title>Web Page!</title>
    <style>
       body {background-color: powderblue;}
            {color: blue;}
             {color: red;}
        р
    </style>
    <link rel="stylesheet" href="styles.css">
    <script>
        document.getElementById("demo").innerHTML = "Hello JavaScript!";
    </script>
</head>
<body>
    <h1>A Very Bold Header</h1>
    <div style="background-color:lightblue">
        This is a paragraph.
    </div>
</body>
</html>
```

nyc weather history

http://w1.weather.gov/data/obhistory/KNYC.html (http://w1.weather.gov/data/obhistory/KNYC.html)

```
In [17]: knyc_link = 'http://wl.weather.gov/data/obhistory/KNYC.html'
In [18]: import requests
    knyc_page = requests.get(knyc_link)
    knyc_page
Out[18]: <Response [200]>
```

```
In [20]: # need to parse some html!
    from bs4 import BeautifulSoup

In [21]: knyc_soup = BeautifulSoup(knyc_page.content)
```

```
In [22]: | # first 1000 characters more legibly
        print(knyc soup.prettify()[:1000])
        <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
        <html>
         <head>
          <meta content="Leon Minton" name="Author"/>
          <title>
          National Weather Service: Observed Weather for past 3 Days: New York Cit
        y, Central Park
          </title>
          <link href="http://www.srh.noaa.gov/weather/images/fcicons/main.css" rel="ST</pre>
        YLESHEET" type="text/css"/>
         </head>
         <body background="/images/weather/fcicons/gray background.gif" bgcolor="#ffff</pre>
        ff" leftmargin="0" marginheight="0" marginwidth="0" topmargin="0">
          <table background="/images/weather/fcicons/topbanner.ipg" border="0" cellpad
        ding="0" cellspacing="0" width="670">
          <a href="http://weather.gov">
             <span class="nwslink">
              weather.gov
             </span>
            </a>
           <a href="http://www.noaa.gov">
             <img alt="NOAA logo - Click to go to the NOAA homepage" b</pre>
```

```
In [23]: | # print the 4rd table in the page
        print(knyc soup.find all('table')[3])
        <tr align="cente"
        r" bgcolor="#b0c4de">D<br/>a<br/>t<br/>e<th ro
        wspan="3" width="32">Time<br/>(est)
        Wind<br/>(mph)Vis.
        br/>(mi.)Weather<th rowspan="3" width="6
        5">Sky Cond.
        Temperature (ºF)Relative<br/>>H
        umidityWind<br/>Chill<br/>(°F)<th rowspan
        ="3" width="80">Heat<br/>Index<br/>(°F)Pressure<th c
        olspan="3">Precipitation (in.)
        Air
        wspan="2" width="26">Dwpt6 hour
        altimeter<br/>(in)s
        ea level<br/>(mb)1 hr
        3 hr6 hr
        Max.Mi
        n.03<td a
        lign="right">13:51NA10.00A Few Clouds
        FEW0505333
        ="top">0312:51NA10.00<td ali
        qn="left">0vercast0VC0495234
        5550%NANA29.67100
        d align="left">0vercast0VC0375237
        td>
        ="top">0310:51NA10.00<td ali
        an="left">A Few CloudsFEW0375439
        td><tr align="center" bgcolor="#eeeeee" valign
        ="ton">03100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51100="right">00:51
```

```
td>
="top">0308:51NA10.00<td ali
td>
="top">0307:51NA10.00<td ali
td>
="top">0306:51NA10.00<td ali
2.0= "center" bgcolor="#eeeeee" v
d align="left">Partly CloudySCT0135451
>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)</td
td><tr align="center" bgcolor="#f5f5f5" valign
="top">0304:51NA5.0004:51
n="left"> Fog/Mist0VC0045453
td>
="top">0303:51NA3.0003:51
n="left"> Fog/Mist0VC0045453
="top">0302:51NA3.0002:51
n="left"> Fog/Mist0VC0065553
td>
="top">0301:51NA8.0001:51
n="left">0vercast0VC0085552
td>
="top">0300:51NA8.0000:51
n="left">0vercast0VC0075552
565490%NANA29.62100
```

```
2.0="center" bgcolor="#eeeee
e" valign="top">0223:51NA9.00
>0vercast0VC0085553
td>
="top">0222:51NA9.0020
n="left">0vercast0VC0105553
td><tr align="center" bgcolor="#eeeeee" valign
="top">0221:51NA7.0021:51
n="left">0vercast0VC0075554
td>0.010.03f5f5f
5" valign="top">0220:51NA1.75
> Fog/Mist0VC0095554
align="left"> Fog/Mist0VC0085654
td>0.01td>wa
align="left"> Light Rain Fog/Mist0VC0075453
555297%NANA29.63100
eeeee" valign="top">0217:51NA1.75
align="left"> Fog/Mist0VC0105453
align="left"> Fog/Mist0VC0075352
align="left"> Light Rain Fog/MistVV0065352
td>0.020.03f5f5f
5" valign="top">0214:51NA1.25
```

```
> Light Rain Fog/Mist0VC0055452
d>
>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)>(1d)</td
align="left"> Fog/Mist0VC0045352
td>
="top">0212:51NA1.001.00
n="left"> Fog/Mist0VC0035251
524697%NANA29.70100
4.90.010.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20d0.20
eeeee" valign="top">0211:51NA1.25
align="left"> Fog/Mist0VC0035251
td>
="top">0210:51NA1.5010:51
n="left"> Fog/Mist0VC0045049
align="left"> Light Rain Fog/Mist0VC0044948
td>0.060.15="center" bgcolor="#f5f5f
5" valign="top">0208:51NA1.50
> Light Rain Fog/Mist0VC0044847</t
d>
td>0.04<tr align="center" bgcolor="#eeeeee" va
align="left"> Light Rain Fog/Mist0VC0054745
lign="top">0206:51NA2.00td><td
align="left"> Rain Fog/Mist0VC0044644
464493%NANA29.88101
1.00.050.29<tr align="center" bgcolor="#e"
eeeee" valign="top">0205:51NA4.00
```

```
align="left"> Light Rain Fog/Mist0VC0044545
4
td>0.02<tr align="center" bgcolor="#f5f5f5" va
align="left"> Light Rain Fog/Mist0VC0044543
td>0.06= "center" bgcolor="#eeeeee" va
align="left"> Rain Fog/Mist0VC0054443
td>0.120.16f5f5f
5" valign="top">0202:51NA3.00
> Light Rain Fog/Mist0VC0044443</t
d>
td>0.02<tr align="center" bgcolor="#eeeeee" va
lign="top">0201:51NA4.00td><td
align="left"> Light Rain Fog/Mist0VC0054442
td>0.02td>wa
align="left"> Light Rain Fog/Mist0VC0054341
434193%NANA101
6.9="center" bgcolor="#eeeee
e" valign="top">0123:51NA4.00
> Fog/Mist0VC0064240
td>
="top">0122:51NA8.00
n="left"> Light Rain0VC0134239
td>
="top">0121:51NA10.00<td ali
qn="left">0vercastBKN017 0VC0254237
td>0.03<tr align="center" bgcolor="#f5f5f5" va
```

```
align="left"> Light RainSCT024 0VC0394137
td>0.02<tr align="center" bgcolor="#eeeeee" va
lign="top">0119:51NA7.00td><td
align="left"> Light Rain0VC0504236
lign="top">0118:51NA7.00td><td
align="left"> Light RainBKN060 0VC0804237
464282%NANA102
1.20.020.02= "#e"
eeeee" valign="top">0117:51NA10.0
0Mostly CloudyBKN0804331
td><tr align="center" bgcolor="#f5f5f5" valign
="top">0116:51NA10.00<td ali
td><tr align="center" bgcolor="#eeeeee" valign
="top">0115:51NA10.00<td ali
qn="left">FairCLR4530
td>
="top">0114:51NA10.00<td ali
td>
="top">0113:51NA10.00<td ali
an="left">A Few CloudsFEW0314631
td>
="top">0112:51NA10.00<td ali
453758%NANA30.21102
d align="left">FairCLR4431
```

```
td>
="top">0110:51NA10.00<td ali
gn="left">Partly CloudySCT0254432
td><tr align="center" bgcolor="#eeeeee" valign
="top">0109:51NA10.00<td ali
an="left">FairCLR4232
td>
="top">0108:51NA10.00<td ali
td><tr align="center" bgcolor="#eeeeee" valign
="top">0107:51NA10.00<td ali
an="left">FairCLR3832
td>
="top">0106:51NA10.00<td ali
2.2= "center" bgcolor="#eeeeee" v
align="left">FairCLR3732
="top">0104:51NA10.00<td ali
an="left">A Few CloudsFEW0153832
td>
="top">0103:51NA10.00<td ali
qn="left">FairCLR3933
="top">0102:51NA10.00<td ali
qn="left">FairCLR3933
td><tr align="center" bgcolor="#eeeeee" valign
="top">0101:51NA10.00<td ali
```

```
gn="left">Mostly CloudyBKN0434033
td>
="top">0100:51NA10.00<td ali
align="top">3023:51NA10.00<t
d align="left">0vercast0VC0444034
td>
="top">3022:51NA10.00<td ali
an="left">0vercast0VC0444033
>/td>>13>1019.4
="top">3021:51NA10.00<td ali
qn="left">0vercast0VC0454033
td><tr align="center" bgcolor="#f5f5f5" valign
="top">3020:51NA10.00<td ali
an="left">0vercastSCT017 BKN029 0VC0394034
td>
="top">3019:51NA9.0019:51
n="left">0vercast0VC0154034
="top">3018:51NA8.0018:51
n="left"> Light Rain0VC0163935
7.9#eeeee
e" valign="top">3017:51NA8.00
>0vercast0VC0174035
="top">3016:51NA9.0016:51
n="left"> Light RainBKN018 0VC0414035
```

```
td>0.02<tr align="center" bgcolor="#eeeeee" va
align="left"> Light RainFEW034 0VC0484132
="top">3014:51NA10.00<td ali
an="left"> Light Rain0VC0434230
td><th ro
wspan="3">D<br/>a<br/>t<br/>eTime<br/>(est)
Wind<br/>(mph)Vis.<br/>(mi.)Vis.<br/>(mi.)
pan="3">WeatherSky Cond.
AirDwptMax.Min.
rowspan="3" width="65">Relative<br/>HumidityWi
nd<br/>Chill<br/>(°F)Heat<br/>Index<br/>(°F)</
th>altimeter<br/>(in.)sea level<br/>(mb)
1 hr3 hr6 hr
r>
="center" bacolor="#b0c4de">
Temperature (ºF)Pressure
="3">Precipitation (in.)</
```

Out[24]:

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
0	03	13:51	NA	10.00	A Few Clouds	FEW050	53	33			47%	NA	NA	29.66	1003.7			
1	03	12:51	NA	10.00	Overcast	OVC049	52	34	55	52	50%	NA	NA	29.67	1003.8			
2	03	11:51	NA	10.00	Overcast	OVC037	52	37			57%	NA	NA	29.67	1003.9			
3	03	10:51	NA	10.00	A Few Clouds	FEW037	54	39			57%	NA	NA	29.67	1003.9			
4	03	09:51	NA	10.00	Fair	CLR	54	41			62%	NA	NA	29.67	1003.8			

central park weather history summary

https://www.wunderground.com/history/daily/us/ny/new-york-city/KNYC/date/2018-12-3?cm_ven=localwx_history

(https://www.wunderground.com/history/daily/us/ny/new-york-city/KNYC/date/2018-12-3?cm_ven=localwx_history)

```
In [25]: wu_link = 'https://www.wunderground.com/history/daily/us/ny/new-york-city/KNYC/d
    ate/2018-12-3?cm_ven=localwx_history'
```

```
In [26]: # get the page
wu_page = requests.get(wu_link)
wu_page
```

Out[26]: <Response [200]>

```
In [28]: | wu soup = BeautifulSoup(wu page.content)
In [30]: | print(wu soup.prettify()[:1000])
         <!DOCTYPE html>
         <html>
          <head>
           <title>
            Central Park, NY History | Weather Underground
           </title>
           <meta charset="utf-8"/>
            <meta content="IE=edge,chrome=1" http-equiv="X-UA-Compatible"/>
            <meta content="width=device-width.initial-scale=1, maximum-scale=1" name="v</pre>
          iewport"/>
           <meta content="general" name="rating"/>
            <meta content="no-referrer-when-downgrade" name="referrer"/>
            <meta content="app-id=486154808, affiliate-data=at=1010lrYB&amp;ct=website w</pre>
          u" name="apple-itunes-app"/>
            <meta content="325331260891611" name="fb app id"/>
           <meta content="width=device-width, initial-scale=1, maximum-scale=1" name="f</pre>
          b channel url"/>
           <meta content="Weather Underground" property="og:site name"/>
           <meta content="article" property="og:type"/>
           <meta content="Weather Underground provides local & amp; long range weather f</pre>
         orecasts, weather reports, maps & tropical weather conditions for location
          s worldwide." name="description"/>
            <meta content="false" name="wui-member-logged-in"/>
In [29]:
         # the table we want doesn't exist! culprit: javascript
          wu soup.find all('div',class = 'tablesaw-sortable')
```

Out[29]: [

```
In [31]: # get the text from the page
wu_text = wu_soup.get_text()

# clean up the whitespace
import re
wu_text = re.sub(r'\n+','\n',text.strip())
print(text[:1000])
```

Central Park, NY History | Weather Underground //<![CDATA[</pre>

window.webpackManifest = {"0":"city-history-module.271410e14d01eca31253.j
s","1":"video-module.94791ee0736f33f5568c.js","2":"health-module.76922905d5d15
54bc3c6.js","3":"hurricane-module.b45b656d6deabd837533.js","4":"city-today-mod
ule.127cf5745059112cf3ac.js","5":"city-ten-day-module.7ed9ac78f02c8aa5e3d4.j
s","6":"city-hourly-module.bc5753f0cb1d1866d6d8.js","7":"precipitation-module.
df41624c9e83a1f6dd81.js","8":"city-history-calendar-module.2988780f63ffe141a66
6.js","9":"city-severe-module.70817f8d824b13fbde08.js","10":"article-page-modu
le.7c507107e75698855672.js","11":"page-module.0d95aaa43f5a7a267c2c.js","12":"m
ember-mydevices-module.6fcf4e3f03eb5d5965ab.js","13":"landing-purpleair-modul
e.72a1382f54cb1a732850.js","14":"test-module.c6d3df57d62511f4345f.js","15":"hu
rricane-storm-module.4fa5ad48c4b52827cfe2.js","16":"wundermap-module.e45823992
2d9a2289e79.js","17":"homepage-module.483ec2af1ec142a28e05.js","18":"cat-six-a
rticle-mo

Need to actually render page to process scripts!

```
In [32]: # need to install chromedriver
    from selenium.webdriver.chrome.options import Options
    from selenium import webdriver

    chrome_options = Options()
    chrome_options.add_argument("--headless")

    driver = webdriver.Chrome(options=chrome_options)

In [33]: # this will actually render the page
    driver.get(wu_link)

In [47]: # two ways to find the table we want
    wu_table = driver.find_element_by_class_name('city-history-observation')
    #wu_table = driver.find_element_by_id('history-observation-table')
```

In [48]: # text in the table
 wu_table.text

Out[48]: 'Daily Observations\nTime Temperature Dew Point Humidity Wind Wind Speed Wind Gust Pressure Precip.\n12:51 AM\n55 F 52 F 89 %\n0 mph 0 mph 29.4 in 0.0 in\n 1:51 AM\n55 F 52 F 89 %\n0 mph 0 mph 29.4 in 0.0 in\n2:51 AM\n55 F 53 F 93 %\n 0 mph 0 mph 29.4 in 0.0 in\n3:38 AM\n54 F 53 F 97 %\n0 mph 0 mph 29.4 in 0.0 i n\n3:51 AM\n54 F 53 F 97 %\n0 mph 0 mph 29.4 in 0.0 in\n5:10 AM\n54 F 53 F 97 %\n0 mph 0 mph 29.4 in 0.0 in\n5:28 AM\n54 F 52 F 93 %\n0 mph 0 mph 29.4 in 0.0 in\n5:51 AM\n54 F 51 F 90 %\n0 mph 0 mph 29.4 in 0.0 in\n6:51 AM\n53 F 49 F 86 %\n0 mph 0 mph 29.4 in 0.0 in\n7:51 AM\n54 F 44 F 69 %\n0 mph 0 mph 29.5 in 0.0 in\n7:51 AM\n54 F 39 F 57 %\n0 mph 0 mph 29.5 in 0.0 in\n11:51 AM\n52 F 37 F 57 %\n0 mph 0 mph 29.5 in 0.0 in\n12:51 PM\n52 F 34 F 50 %\n0 mph 0 mph 29.5 in 0.0 in\n12:51 PM\n53 F 33 F 47 %\n0 mph 0 mph 29.5 in 0.0 in\

```
In [49]: # extracting text into a datafram
wu_data = []
for tr in wu_table.find_elements_by_css_selector('tr'):
    tmp_row = []
    for td in tr.find_elements_by_css_selector('td'):
        tmp_row.append(td.text.strip())
        wu_data.append(tmp_row)
    df_wu = pd.DataFrame(wu_data)
    df_wu.head()
```

Out[49]:

	0	1	2	3	4	5	6	7	8	9	10
0	None	None	None	None	None	None	None	None	None	None	None
1	12:51 AM	55 F	52 F	89%		0 mph	0 mph	29.4 in	0.0 in		
2	1:51 AM	55 F	52 F	89%		0 mph	0 mph	29.4 in	0.0 in		
3	2:51 AM	55 F	53 F	93%		0 mph	0 mph	29.4 in	0.0 in		
4	3:38 AM	54 F	53 F	97 %		0 mph	0 mph	29.4 in	0.0 in		

In [52]: # visualize the rendered table, still missing some stuff, need to debug wu_table.screenshot('./images/test1.png')

True Out[52]:

Daily Observations



Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.
12:51 AM	55 ° F	52 ° F	89 %		0 mph	0 mph	29.4 in	0.0 in
1:51 AM	55 ° F	52 ° F	89 %		0 mph	0 mph	29.4 in	0.0 in
2:51 AM	55 ° F	53 ° F	93 %		0 mph	0 mph	29.4 in	0.0 in
3:38 AM	54 ° F	53 ° F	97 %		0 mph	0 mph	29.4 in	0.0 in
3:51 AM	54 ° F	53 ° F	97 %		0 mph	0 mph	29.4 in	0.0 in
4:51 AM	54 ° F	53 ° F	97 %		0 mph	0 mph	29.4 in	0.0 in
5:01 AM	54 ° F	53 ° F	97 %		0 mph	0 mph	29.4 in	0.0 in
5:28 AM	54 ° F	52 ° F	93 %		0 mph	0 mph	29.4 in	0.0 in
5:51 AM	54 ° F	51 ° F	90 %		0 mph	0 mph	29.4 in	0.0 in
6:51 AM	53 ° F	49 ° F	86 %		0 mph	0 mph	29.4 in	0.0 in
7:51 AM	54 ° F	46 ° F	75 %		0 mph	0 mph	29.5 in	0.0 in
8:51 AM	54 ° F	44 ° F	69 %		0 mph	0 mph	29.5 in	0.0 in
9:51 AM	54 ° F	41 ° F	62 %		0 mph	0 mph	29.5 in	0.0 in
10:51 AM	54 ° F	39 ° F	57 %		0 mph	0 mph	29.5 in	0.0 in
11:51 AM	52 ° F	37 ° F	57 %		0 mph	0 mph	29.5 in	0.0 in
12-51 DM	52 ° ⊏	31 ∘ ⊏	50 %		∩ mnh	0 mnh	20 5 in	0.0 in

In []:			