

데이터 크롤링과 정제

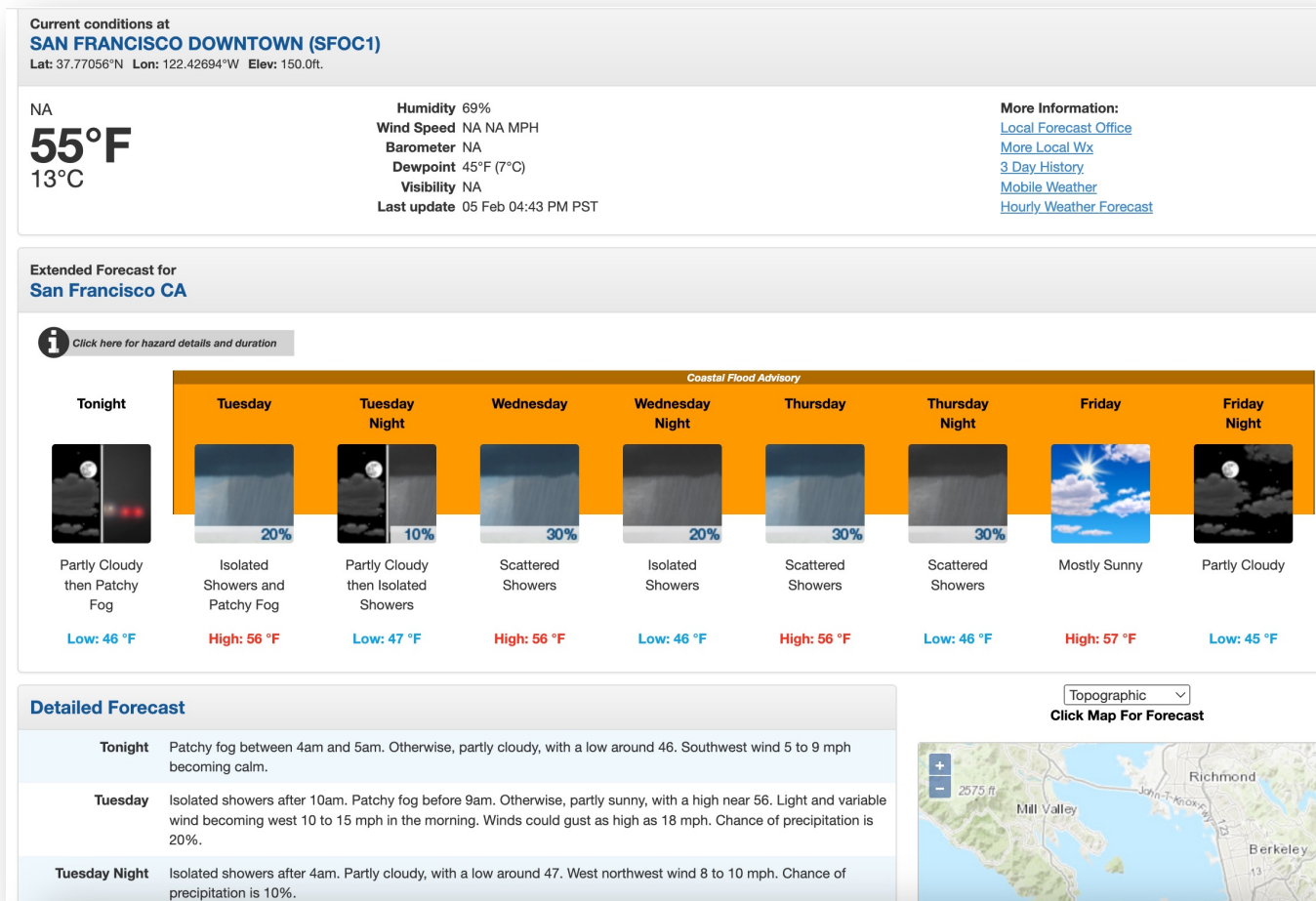
과제 1번: Weather Service

National Weather Service (제출 파일: hw01-01.py)

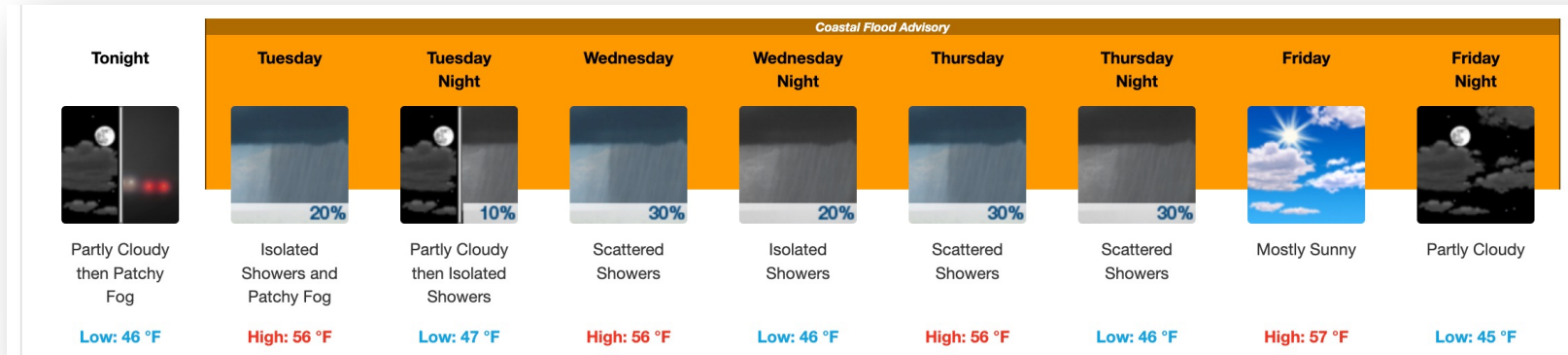
- URL :

- <https://forecast.weather.gov/MapClick.php?lat=37.7772&lon=-122.4168#.Yst5ji9yxTY>

- San Francisco Downtown



날씨 현황 HTML 분석

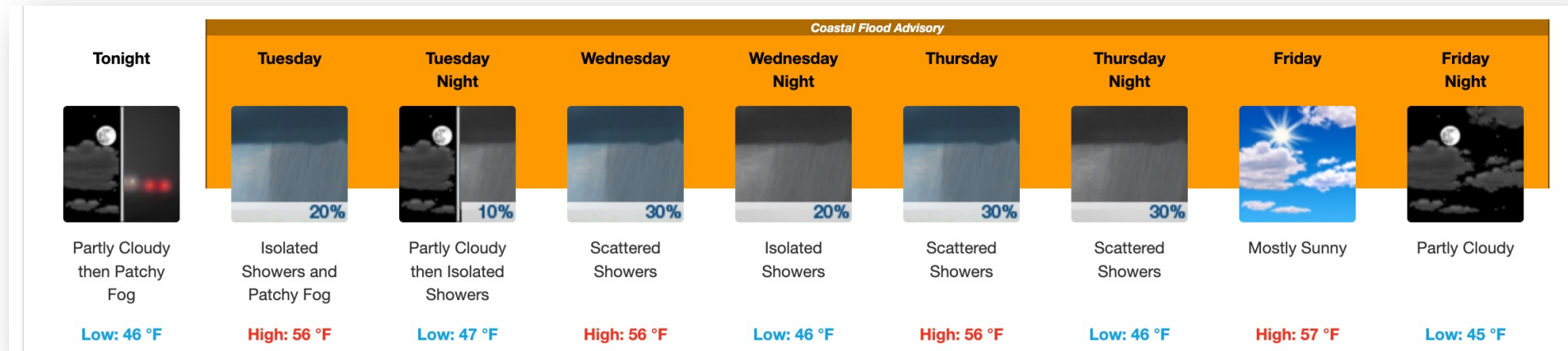


```
<div id="seven-day-forecast" class="panel panel-default">
  <div class="panel-heading">
  <div class="panel-body" id="seven-day-forecast-body">
    ::before
    <div id="seven-day-forecast-container">
      <ul id="seven-day-forecast-list" class="list-unstyled">
        <li class="forecast-tombstone">
        <li class="forecast-tombstone">
        <li class="forecast-tombstone">
        <li class="forecast-tombstone">
        <li class="forecast-tombstone">
        <li class="forecast-tombstone">
        <li class="forecast-tombstone">
```

```
<li class="forecast-tombstone">
  <div class="tombstone-container">
    <p class="period-name">
      "Tonight"
    <br>
    <br>
    </p>
    <p>
      
    </p>
    <p class="short-desc" style="height: 54px;">
      "Partly Cloudy"
    <br>
    "then Patchy"
    <br>
    "Fog"
    </p>
    <p class="temp temp-low">Low: 46 °F</p>
  </div>
</li>
```

과제 내용

- 일주일간의 일기예보 내용을 화면에 출력
 - 총 9일간의 일기예보 내용을 스크레이핑



- 출력 항목 (4개 항목)
 - <p class="period-name">"Tonight"</p>
 -
 - <p class="short-desc" . . .> Partly Cloudy
then Patch
Fog </p>
 - <p class="temp temp-low">Low 46 °F </P>

과제 내용

- 2개의 함수를 작성
 - 출력 내용은 동일하지만, 아래 2개의 함수를 각각 구현하시오.
 - `def scraping_use_find(html)`
 - `find()`, `find_all()` 함수를 이용하여 스크레이핑
 - `def scraping_use_select(html)`
 - `select()`, `select_one()` 함수를 이용하여 스크레이핑

과제 출력 결과 #1 (find() 함수 사용)

National Weather Service Scraping

[find 함수 사용]

총 tomlstone-container 검색 개수: 9

[Period]: Tonight

[Short desc]: Partly Cloudythen PatchyFog

[Temperature]: Low: 46 °F

[Image desc]: Tonight: Patchy fog after 5am. Otherwise, partly cloudy, with a low around 46. West southwest wind 5 to 10 mph becoming light and variable.

[Period]: Tuesday

[Short desc]: IsolatedShowers andPatchy Fog

[Temperature]: High: 56 °F

[Image desc]: Tuesday: Isolated showers after 11am. Patchy fog between 7am and 10am. Otherwise, partly sunny, with a high near 56. Light and variable wind becoming west 8 to 13 mph in the afternoon. Chance of precipitation is 20%.

[Period]: TuesdayNight

[Short desc]: Partly Cloudythen IsolatedShowers

[Temperature]: Low: 47 °F

[Image desc]: Tuesday Night: Isolated showers after 5am. Partly cloudy, with a low around 47. West northwest wind 8 to 14 mph. Chance of precipitation is 10%.

. . . 중간 생략

[Period]: FridayNight

[Short desc]: Partly Cloudy

[Temperature]: Low: 45 °F

[Image desc]: Friday Night: Partly cloudy, with a low around 45.

과제 출력 결과 #2

- `scraping_use_select(html)` 함수도 출력 결과는 동일

[select 함수 사용]

총 tomentone-container 검색 개수: 9

[Period]: Tonight

[Short desc]: Partly Cloudythen PatchyFog

[Temperature]: Low: 46 °F

[Image desc]: Tonight: Patchy fog after 5am. Otherwise, partly cloudy, with a low around 46. West southwest wind 5 to 10 mph becoming light and variable.

[Period]: Tuesday

[Short desc]: IsolatedShowers andPatchy Fog

[Temperature]: High: 56 °F

[Image desc]: Tuesday: Isolated showers after 11am. Patchy fog between 7am and 10am. Otherwise, partly sunny, with a high near 56. Light and variable wind becoming west 8 to 13 mph in the afternoon. Chance of precipitation is 20%.

[Period]: TuesdayNight

[Short desc]: Partly Cloudythen IsolatedShowers

[Temperature]: Low: 47 °F

[Image desc]: Tuesday Night: Isolated showers after 5am. Partly cloudy, with a low around 47. West northwest wind 8 to 14 mph. Chance of precipitation is 10%.

[Period]: Wednesday

[Short desc]: ScatteredShowers

[Temperature]: High: 56 °F

[Image desc]: Wednesday: Scattered showers, mainly after 11am. Partly sunny, with a high near 56. West northwest wind 8 to 14 mph, with gusts as high as 18 mph. Chance of precipitation is 30%. New precipitation amounts of less than a tenth of an inch possible.

.. . . (생략)



Questions?