

# Assignment-2: City Info

CAP 5738: Data Visualization

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## Objectives:

We have populate a table with information about some cities in the US. We need to parse the data from 'miles.dat' file.

The miles.dat file is Stanford graph base file. The data in miles.dat appears in 128 groups of lines, one for each city, in reverse alphabetical order. These groups have the general form

**City Name, ST[lat,lon]pop**

**d1 d2 d3 d4 d5 d6 ...** (possibly several lines' worth)

where **City Name** is the name of the city (possibly including spaces);

**ST** is the two-letter state code; **lat** and **lon** are latitude and longitude in hundredths of degrees; **pop** is the population; and the remaining numbers d1 d2, are distances to the previously named cities in reverse order. Each distance is separated from the previous item by either a blank space or a newline character.

For example, the line

San Francisco, CA[3778,12242]678974

specifies the data about San Francisco that was mentioned earlier.

From the first few groups

Youngstown, OH[4110,8065]115436

Yankton, SD[4288,9739]12011

966

Yakima, WA[4660,12051]49826

1513 2410

Worcester, MA[4227,7180]161799

2964 1520 604

we learn that the distance from Worcester, Massachusetts, to Yakima, Washington, is 2964 miles; from Worcester to Youngstown it is 604 miles.

### Output:

We need to populate an html table with columns: City, State, and Population.

Sample Output:

City	State	Population
Youngstown	OH	115436
Yankton	SD	12011
Yakima	WA	49826
Worcester	MA	161799
Wisconsin Dells	WI	2521
...	...	...

### Submission:

1. Download CityInfo.zip
2. Unzip cityInfo.zip
3. Edit index.html
4. In the script tag, put your D3JS codes to parse and populate table
5. Put Authors name in comments
6. Zip the directory
7. Submit the zip file to moodle.

### Group:

This is a group assignment. The group size is at most 2 persons. Please provide group members names as comments in the html/js script.

### Necessary D3JS methods:

1. d3.text
2. d3.dsv / d3.dsvFormat / d3.dsvFormat. parse/parseRows
3. d3.selection / data/ enter

(N.B.: Use proper d3JS version codes. For latest references use <https://github.com/d3/d3>)

**Rubric:**

Item	Point
City Column contains correct data	15
State Column contains correct data	15
Population Column contains correct data	15
Proper Parsing	30
Use of enter in d3JS	25
<b>Total</b>	<b>100</b>

**Late Submissions:**

20% grade will be deducted for each day. E.g., if any group turns the html 3 days late, then he/she will receive maximum 40% of the full grade.