

# Assignment-3: Anna Karenina

CAP 5738: Data Visualization

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## Objectives:

We have to generate a graph visualization from data file “anna.data”.

The anna.dat file is a Stanford graph base file. The data contains 376 characters from the novel “Anna Karenina” by Leo Nikolaevitch Tolstoy.

The data is formatted as the following:

**ID<space>CharacterName<comma><space>Role<space>of ID and ID**

AA Annushka, maid of AN

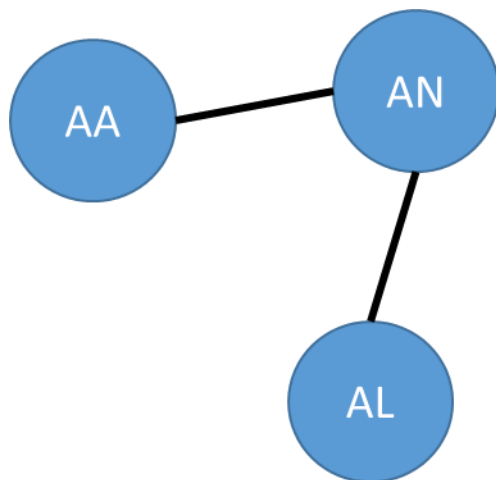
AL Alexey Alexandrovitch Karenin, minister of state

AN Anna Arkadyevna Karenina, wife of AL

...

...

From this data you have generate a graph visualization. For example,



You should use the example of force\_v5.html and miserable.json.

**Output:**

Graph with force visualization with d3JS. Any version is okay.

**Submission:**

1. Download miserable.zip
2. Unzip miserable.zip
3. Download anna.dat
4. Create index.html
5. Put index.html and anna.dat in the same directory.
6. Put necessary codes to generate the visualization.
7. Put Authors name in comments
8. Zip the directory
9. 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
- 4.

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

**Rubric:**

| Item  | Point      |
|---|------------|
| Proper parsing of anna.dat                        | 30         |
| Conversion into Graph object                      | 25         |
| Graph visualization                               | 25         |
| Interactivity                                     | 10         |
| Additional features ( Node design with hoverings) | 10         |
| <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.