

CS4.302 - Data Visualization

Lab Exam

Date: 24/4/2023

Q1. Plotting uneven values

Data: *q1-data.csv*

Task:

- Plot the given data using a bar chart.
- Mark the value $y=0.75 * 1e-4$ on the chart. (Use any dashed line or equivalent)
- Highlight the minimum and maximum values on the y-axis.

Q2. Replicating an existing visualisation

Data: *late-night-ratings.csv*

Task:

- Replicate the following visualisation from the data given -
<http://graphics.wsj.com/late-night-tv-show-ratings-and-hosts/>
- You can use a stacked bar chart, with the bars of each year grouped by the late-show names.
- Make sure the stacks within a year must be ranked by number of viewers.
- On hover, highlight all corresponding stacks across years.
- Display the following information in tooltip -
 - Name of the show
 - The start year and end year (use 2014 if latest is 2014).
 - The host information for the show.
 - Ratings of the show OR Rank of the show at that year
 - Example Tooltip (suppose if hover on 2001)-
"The Late Show (1991-2014) was hosted by David Letterman
garnering 4.1M views/ranked 2nd on 2001"
- Filters, dropdowns are **not required**.