

Assignment_11

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Search online for any news media or article containing some graphics that violate good visualization practice (FYI, some good sources for news with data visualization would be NYTimes, Washington Post, the Guardian, or ProPublica. These news websites provide particular news pages that make use of data visualization).

a. Find one example of distortion or unnecessary detail in a visualization (paste the URL of the news page), explain the problem and suggest a solution (5 points)

=> **Link to the graph**

Example: The distribution of Electricity Generation from 2001-2017

Problems:

1. *Visually unappealing* : The graph looks like an area line graph and visuals are overlapping
2. *Not comparable* : All the sources of electricity described in the graph are not comparable in the given trend
3. *Improper Labels* : The graph are not properly label, it is hard to compare the distribution in between the period of 2001 to 2017
4. *Complex appearance* : The graph lacks the focus on the details and it is hard to comprehend the graph

Suggestions:

1. *Visually appealing* : It is good option to use a line plot graph with the lines of the sources of electricity as it will be clearly distinguishable
2. *Comparable* : With the line plot, one can compare the distribution of the sources in the given period
3. *Proper labels* : The correct labels in the axis will help the user to interpret the graph easily for each period
4. *Simple Appearance* : Visually appearance is simple and easy to comprehend

b. Find one example of misleading interpretation (paste the URL of the news page), explain the problem and suggest a solution (5 points)

=> **Link to the graph**

Example: Global COVID cases and death

Problems:

1. *Logarithm scale* : The graph uses logarith scales which can gibve misleading interpretation for the user
2. *Inappropriate labels* : The graph shows the abbreviated labels and the numbers on the Y-axis which is hard to comprehend
3. *Misleading information* : It seems like in 2020 the death and the cases are stabilized but in reality it is increasing.

Suggestions:

1. *Using right scale* : For a continuous type of data, it is recommended to use the line graph with linear scale for the graph

2. *Proper labels* : The correct labels and defining the abbreviations in the axis will help the user to read the graph easily (example using 100,000 as $10 \cdot 10^3$)
3. *Clear information* : The line graph in linear scale would be comprehensive i.e able to provide the actual and clear information to the reader