# Data Visualization Checklist

Scores: 2 - guideline was fully met; 1 – graph needs improvement; 0 – guideline was not met; NA - does not apply.

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| --- | --- | --- | --- | --- | --- |
| Genres | Items | 2 | 1 | 0 | NA |
| Demonstration | Graph type is appropriate for the purpose - For instance, use line graph for time series |  |  |  |  |
| Data is cleaned and prepared - Clean up null values or corrupted data, no obvious missing values in the visualization |  |  |  |  |
| Proportions are accurate - The length or area of the graph should have the same relationship as the original data  - Axis has the appropriate range |  |  |  |  |
| Appropriate level of precision - Labels use appropriate number of decimal places |  |  |  |  |
| Data are intentionally ordered - Data are ordered in a sequence that makes sense to the viewer and conveys the information |  |  |  |  |
| Text | Title - Title is simple, describes the graph clearly |  |  |  |  |
| Axis - A clear description of what each axis represents is available |  |  |  |  |
| Legend - A legend is present for multiple groups |  |  |  |  |
| Labels - Clearly labels multiple groups |  |  |  |  |
| Annotation - Appropriate annotation to highlight important information  - Annotation is simple, clear and readable  - No excessive annotating |  |  |  |  |
| Style | Avoid chart junk - Gridlines should be removed |  |  |  |  |
| Avoid border line - Remove border lines |  |  |  |  |
| Use color-blind friendly palettes - Avoid the following color combinations: Green & Red, Green & Brown, Blue & Purple, Green & Blue, Light Green & Yellow, Blue & Grey, Green & Grey, Green & Black |  |  |  |  |
| Color use is intentional for the purpose - Use low saturation colors for normal demonstration  - Only use strong colors for emphasis |  |  |  |  |
| Contents are easily readable - Colors are easy to separate  - Text contrasts background |  |  |  |  |
| Maximize data-ink ratio - No excessive components, no illustrations |  |  |  |  |
| General | Graph highlights important information - The graph should highlight important information or conclusion found |  |  |  |  |
| Overall score |  |  |  |  |  |