***Checklist***

Reference: <https://stephanieevergreen.com/updated-data-visualization-checklist/>

**Ranking Description**: **2** - Illustrates that all components are met; **1** - Component was partially met; **0** - The component is not met

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| --- | --- | --- | --- | --- |
| **Description** | **2** | **1** | **0** | **n/a** |
| **1.Check Graph Type**  -First make sure the graph type is appropriate for the information to be visualized. |  |  |  |  |
| **2.Remove chart junk**  -Remove unnecessary elements in the graph, stay concise and sharp |  |  |  |  |
| **3.Increase Data to Ink Ratio**  -Chart is clean and readable, without unnecessary details |  |  |  |  |
| **4.Level of precision**  -Chart displays precision based on overall scale. |  |  |  |  |
| **5.Chart and elements reinforced overall message**  -All elements of the graph should be consistent and convey the same message. If there are discrepancies, author should notify readers first. |  |  |  |  |
| **6.Make sure graphics and data are proportional**  -Axis are to scale, and have a correct proportion. |  |  |  |  |
| **7.Check dimensions of the chart**  - prefer 2D over 3D or higher dimension; try to use lower dimensions to tell a clear story. |  |  |  |  |
| **8.Axes are clear of unnecessary tick marks**  -Tick marks are used to bring attention when needed |  |  |  |  |
| **9.Data are intentionally ordered**  -Order data to show pattern more clearly to readers |  |  |  |  |
| **10.Subtitles or annotations provide information**  -Strategically use subtitles and annotations to provide additional/highlight information to readers |  |  |  |  |
| **11.Color is used to highlight key patterns.**  -Action colors should guide the readers to see patterns of the display. |  |  |  |  |
| **Overall Score:** |  |  |  |  |