

Data

1. ☐ The type of the graphic is adapted to the nature of data (curve, bars, pie, histogram, cloud...);
2. ☐ Approximations/interpolation make sense;
3. ☐ Curves are defined by a sufficient number of points;
4. ☐ The building method of the curve is clear : interpolation (linear, polynomial, regression...);
5. ☐ Confidence intervals are visualized (or given separately);
6. ☐ Steps of histograms are adequate;
7. ☐ Histograms visualize probabilities (from 0 to 1).

Graphical objects

1. ☐ Graphical objects are readable on screen, on printed version (B/W), on video...;
2. ☐ Graphic range is standart, without too similar colors, without green (video);
3. ☐ Graphical axis are well identified and labelled;
4. ☐ Scales and units are explicit;
5. ☐ Curves cross without ambiguity;
6. ☐ Grids help the reader.

Annotations

1. ☐ Axis are labelled by quantities;
2. ☐ Labels of the axis are clear, and self contained;
3. ☐ Units are indicated on the axis;
4. ☐ Axes are oriented from the left to the right and from the bottom to the top;
5. ☐ Origin is $(0, 0)$, if not it should be clearly justified;
6. ☐ No hole on the axes.

Annotations (2)

6. ☐ For bar graphs/histograms order of bars is based on classical ordering (alphabetical, temporal, from the best to the worse) are better than a random order;
7. ☐ Each curve has a legend;
8. ☐ Each bar has a legend;

Information

1. ☐ Curves are on the same scale;
2. ☐ The number of curves on a same graph is small (less than 6);
3. ☐ Compare curves on a same graphic;
4. ☐ A curve cannot be removed without reducing the information;
5. ☐ The graphic gives a relevant information to the reader;
6. ☐ If the vertical axis shows averages, it should indicates error bars;
7. ☐ It is not possible to remove any objet without modifying the readability of the graphic.

Context

1. ☐ All the symbols are defined and referenced in the text;
2. ☐ The graphic produces more information than any other representation (choice of the variable);
3. ☐ The graphic has a title;
4. ☐ The title is sufficiently self contained to partially understand the graphic;
5. ☐ The graphic is referenced in the text;
6. ☐ The text comment the figure.

Last but not least : The graphical representation should be elegant