Appendix

Questionnaire for User Preference Assessment of Information Visualization Graphical Features

You will be presented with several graphic elements with different design styles. We kindly ask you to review all the different styles and fill in each scale with your preference rating for a given design style. Note that the options are not mutually exclusive, i.e. you can like different styles equally and you do not need to establish an order between them.

0.1 Font Family

This section contains different styles of font families to apply in the content of a information visualization.

This is Arial

Arial

Low preference —————————— High preference

This is Calibri

Calibri

Low preference —————————— High preference

This is Calibri Light

Calibri Light

Low preference □—□—□—□—□ High preference

This is Times New Roman

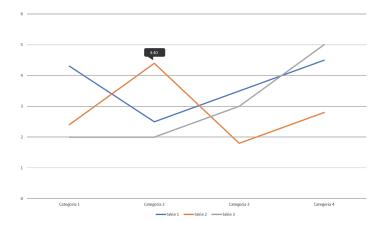
Times New Roman

This is Lucida Handwriting

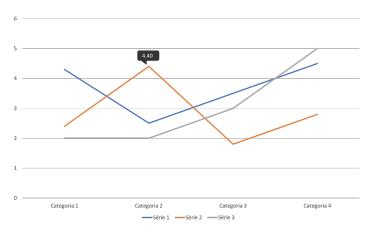
Lucinda Handwriting

0.2 Font Size

This section contains different sizes to apply to the typographic font in relation to the size of the visualization in which the text is inserted.

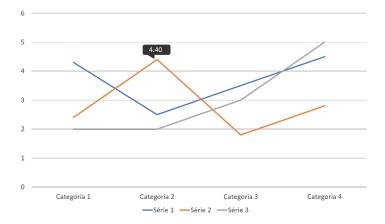


Small



Medium

Low preference —————————— High preference

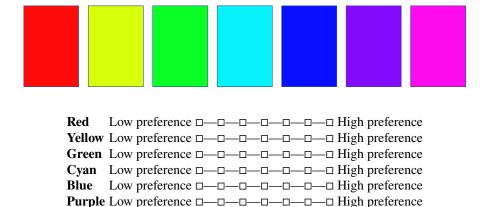


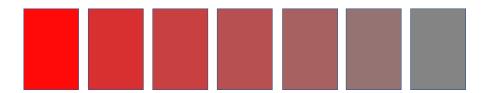
Large

Low preference \square — \square — \square — \square — \square High preference

0.3 Color

This section contains different color properties to apply in the encodings of a visualization and its general color theme.

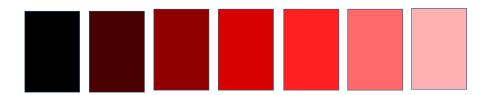




Pink Low preference □—□—□—□—□ High preference

Saturation

High saturation □—□—□—□—□ Low saturation



Brightness

0.4 Buttons and icons

This section contains different styles of buttons and icons that perform an action after being pressed.



Icon



Icon and Text



Text

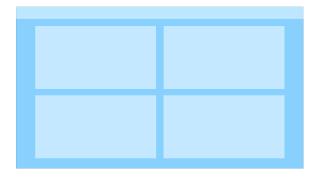
0.5 Information Density

This section contains different styles of information density in a dashboard. In particular, focus in the amount of visualizations, represented as cyan squares, that appears on the screen at any time.

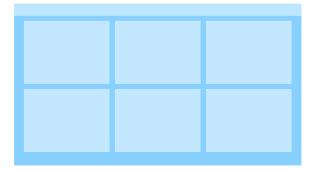


Low

Low preference \square — \square — \square — \square — \square High preference



Medium



High

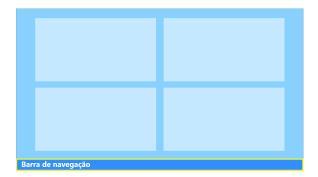
0.6 Position of the Navigation Bar

This section contains different positions to place the navigation bar, where you filter information and personalize the visualization.

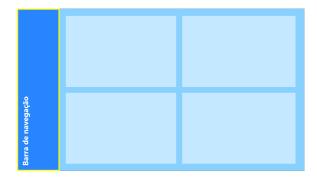


Top

Low preference \square — \square — \square — \square — \square High preference

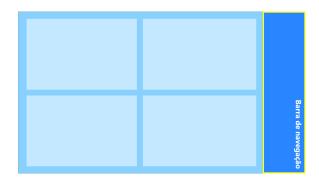


Bottom



Left

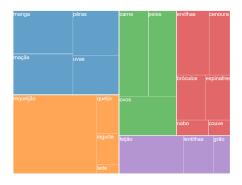
Low preference \square — \square — \square — \square — \square High preference



Right

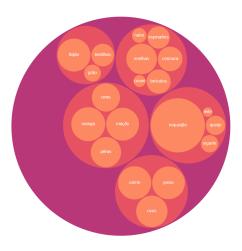
0.7 Hierarchy Idioms

The following idioms represent the distribution of food consumed by a household within a month. Assess your preference regarding how data is represented.



Visualization with a treemap.

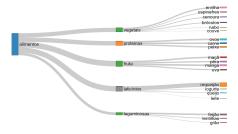
Low preference \square — \square — \square — \square — \square High preference



Visualization with a circular packing diagram.



Visualization with a sunburst.

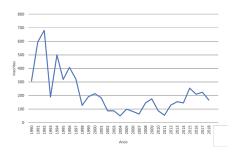


Visualization with a sankey diagram.

Low preference \square — \square — \square — \square — \square High preference

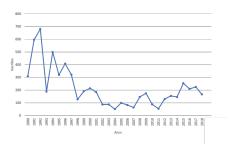
0.8 Evolution Over Time Idioms

The following idioms show the number of participants in a marathon held annually in the United States. Assess your preference regarding how data is represented.



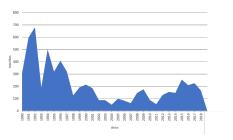
Visualization with a line chart without points.

Low preference □—□—□—□—□—□ High preference



Visualization with a line chart with points.

Low preference \square — \square — \square — \square — \square High preference

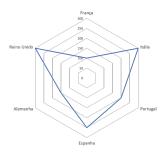


Visualization with an area chart.

Low preference —————————— High preference

0.9 Comparison Idioms

The following idioms represent the levels of the happiness index across six different countries (France, Italy, Portugal, Spain, Germany, and the UK). Assess your preference regarding how data is represented.



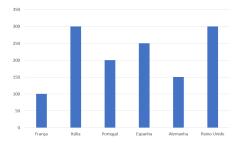
Visualization with a radar chart.

Low preference \square — \square — \square — \square — \square High preference

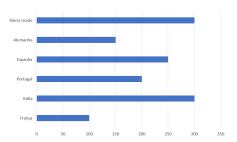


Visualization with a world cloud.

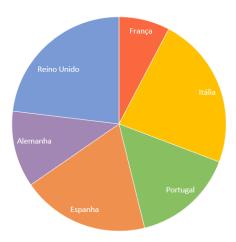
Low preference —————————— High preference



Visualization with a vertical bar chart.



Visualization with an horizontal bar chart.



Visualization with a pie chart.