TDU

R FOR DATA VISUALIZATIONS

Day 3

May 4, 2023

Public Health Agency of Canada
Agence de la santé publique du Canada

Canada

WELCOME BACK!

Over the last two days we reviewed:

Day 1:

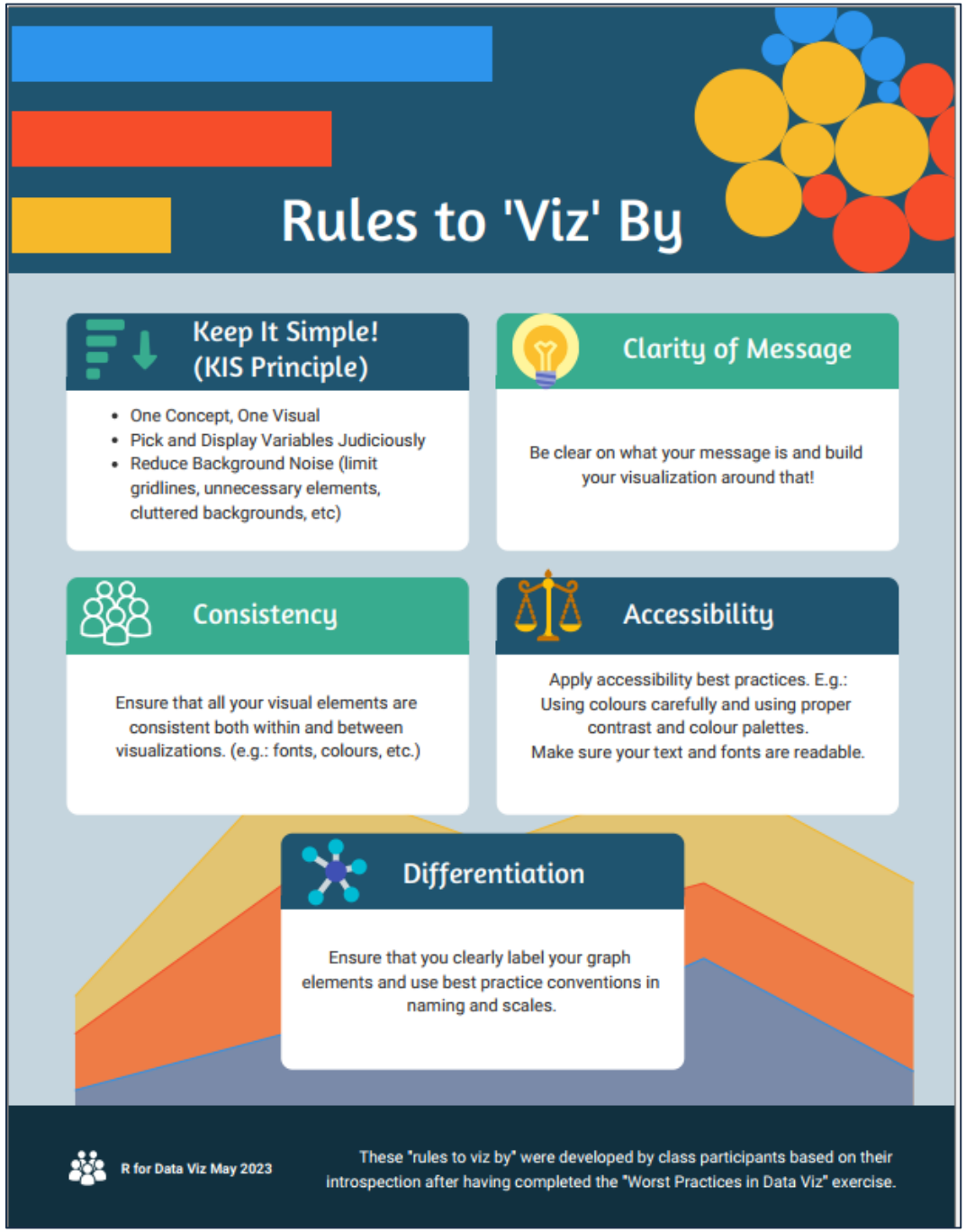
- Graphing using base R and ggplot
- Grammar of graphics
- Custom data visualizations

Day 2:

- Best practices in data visualization
- Application of graphic design practices in R
- Data visualization and potential for harm to small and vulnerable communities

RULES TO VIZ BY!

- Summary of all the Jamboards from Day 2 ‘Rules to Viz by’ activity
- Available in the course repository on Github
- Link posted in the chat



OVERVIEW

Today we will:

- Test our knowledge on what was covered over the last two days
- Provide space for practice and support

PIE CHART OF FORTUNE!

TIME FOR PRACTICE!

INDEPENDENT ACTIVITIES 1 AND 2

WRAP-UP

COURSE OVERVIEW

- By the end of this course, participants will be able to:

  ✓ Discuss differences between base R and the grammar of graphics (ggplot) coding styles for data visualization.

  ✓ Apply knowledge of R-coding to automate common graphics used in public health.

  ✓ Connect elements of effective graphic design to R coding practices in data visualization.

  ✓ Discuss considerations for data visualisation to avoid potential harms to small or vulnerable communities.

SUMMARY AND WRAP-UP

- Knowing what you want to accomplish at the outset will help you decide what format your data should be in

- It is possible to make publication-worthy figures using only base R graphics

- Ggplot makes graphing easier as it uses an iterative, layered approach based on a specific grammar of independent components

SUMMARY AND WRAP-UP

- The power of R for creating data visualizations does not include the intention and thoughtfulness required to produce meaningful graphics

- Careful thought must be taken to ensure that visualizations adhere to best practices

- Additional consideration is needed to ensure that our data visualizations do not tell stories that actively cause harm or perpetuate harm to small and vulnerable communities

COURSE EVALUATION

https://www.slido.com/

Event code: **RDV2023**