# Data Visualization in R

29th August 2024

## Instructions

Follow along with the materials posted on GITHUB LINK.

When we get to one of the ‘Challenge Sections”, you add your plots/results along with your name. During the session, we will look at the shared plots together and may ask for volunteers to share their code.

Please add some of your favorite resources for learning about data visualization in R in the “Resources” section, we will use this to update the tutorial.

## Challenge 1: **Explore the structure and summary of the mosquito\_data dataset**

1. What are the dimensions of the data?
2. What are the column names?
3. What are the column types?

## Challenge 2: Create R base visualizations of the ‘mosquito\_data’ dataset

1. Are their any interesting patterns in individual variables/columns?
2. Are there any relationships between variables/columns?

Challenge 3: Create ggplot2 visualizations of the ‘mosquito\_data’ dataset

1. Are their any interesting patterns in individual variables/columns?
2. How can we use the aes() function to view multiple variables in a single plot?
3. Are there any additional geometries that may be useful for visualizing this dataset?

Challenge 4: Create an interactive Map on malaria Occurrence ‘KenyaMalariaGeo’ dataset