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TRAINING SYLLABUS

Data Visualizations using ggplot2

Course Overview

The Data Visualizations using ggplot2 course introduces attendees to the principles of good visualizations and the grammar of graphics plotting using the ggplot2 package in R/RStudio. This course covers the basics of constructing simple ggplots of large-scale data and modifying the components and aesthetics. By the end of the course you will have all the tools needed to make a custom plotting function to explore large data sets.

Intended Audience

This Data Visualizations using ggplot2 course is intended for individuals, data analysts, data scientists and researchers that have a working knowledge of the R programming language.

Prerequisites

Attendees must download the R and the RStudio IDE onto their personal laptops. The websites for downloading both tools are below:

www.r-project.org

www.rstudio.com



For scheduling and/or assistance
call us at: 678-432-0218



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Learning Objectives

- ✔ Introduce the basics of ggplot2 and learn to use R ggplot for graphical data analysis
- ✔ Conform data structures to make visualizations easier (Tidy Data)
- ✔ Convert continuous and categorical data into visual scales using aesthetic mappings
- ✔ Understand how to choose the best aesthetic mappings for your data
- ✔ Learn to use the Themes layer to make publication-quality plots directly in R
- ✔ Learn to use the Coordinates and Facets layers to efficiently and accurately communicate the data
- ✔ Discuss and identify alternatives to the most challenging visualizations (heat maps, pie charts and dynamite plots)

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