

ggESDA Contents

1 Introduction

- what is SDA
- why is SDA (Trend figure)
- introduce interval-valued data (one of the most common symbolic data type....)
- how to do SDA (introduce EDA, using EDA to analyze interval-valued data)

2 Prominent SDA packages

(preface..., overview all packages in python and R, then state the first three package....)

2.1 RSDA

2.2 symbolicDA

2.3 HistDAWass

(summarize with table)

(none of the above analyze interval-valued data with EDA using ggplot2)

3 the ggESDA package

(introduce feature : `classic2sym()` function can convert yourself... , `ggplot2` base...., visualize with multiple type plot...)

3.1 `classic2sym()` function

3.2 `plot` function

3.3 `PCA` function

4 Application to real datasets

(like usage..., introduce data and transformation)

- 4.1 univariate
- 4.2 bivariate
- 4.3 multivariate
- 4.4 PCA
- 5 Conclusion