Package 'NormalityAssessment'

May 2, 2025

Type Package

Title A Graphical User Interface for Testing Normality Visually

Version 0.1.1

Maintainer Christopher Casement <casementc@gmail.com>

Description Package including an interactive Shiny application for
testing normality visually.

License MIT + file LICENSE

URL https://github.com/ccasement/NormalityAssessment,
https://CRAN.R-project.org/package=NormalityAssessment

BugReports https://github.com/ccasement/NormalityAssessment/issues

Depends R (>= 3.5.0)

Imports dplyr (>= 1.0.7), DT (>= 0.19), ggplot2 (>= 3.3.5), rio (>=
0.5.27), rmatio (>= 0.16.0), shiny (>= 1.7.1), shinyalert (>=
2.0.0), shinyBS (>= 0.61), stringi (>= 1.7.4), stringr (>=
1.4.0)

Encoding UTF-8

Language en-US

RoxygenNote 7.3.2

NeedsCompilation no

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Repository CRAN

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NormalityAssessment-package

NormalityAssessment: A Graphical User Interface for Testing Normality Visually

Description

The NormalityAssessment package creates plots for assessing normality. The methods implemented are based on developments made in graphical inference. In the app, the features in the 'Explore Simulated Data' tab enable the user to run the Rorschach procedure, and those in the 'Include Your Data' tab allow the user to run the line-up procedure.

Details

Package: NormalityAssessment
Type: Package
Version: 0.1.1
Date: 2025-05-02
Depends: R (>= 3.5.0)
Imports: dplyr, DT, ggplot2, rio, rmatio, shiny, shinyalert, shinyBS, stringi, stringr License: MIT
BugReports: https://github.com/ccasement/NormalityAssessment/issues
Encoding: UTF-8

Function

- runNormalityAssessmentApp

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See Also

Useful links:

- https://github.com/ccasement/NormalityAssessment
- https://CRAN.R-project.org/package=NormalityAssessment
- Report bugs at https://github.com/ccasement/NormalityAssessment/issues

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runNormalityAssessmentApp

Run the NormalityAssessment Shiny application

Description

Runs the NormalityAssessment Shiny application.

Usage

```
runNormalityAssessmentApp()
```

Value

There is no return value.

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References

Buja, A., Cook, D., Hofmann, H., Lawrence, M., Lee, E. K., Swayne, D. F., & Wickham, H. (2009). Statistical inference for exploratory data analysis and model diagnostics. Philosophical Transactions of the Royal Society of London A: Mathematical, Physical and Engineering Sciences, 367(1906), 4361-4383.

Majumder, M., Hofmann, H., & Cook, D. (2013). Validation of visual statistical inference, applied to linear models. Journal of the American Statistical Association, 108(503), 942-956.

Wickham, H., Cook, D., Hofmann, H., & Buja, A. (2010). Graphical inference for infovis. IEEE Transactions on Visualization and Computer Graphics, 16(6), 973-979.

Examples

```
## only run the app in an interactive R session
if (interactive()) {runNormalityAssessmentApp()}
```

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