

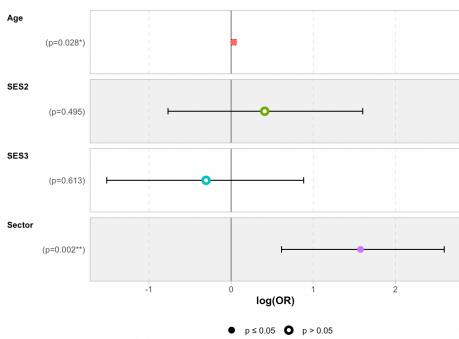
Extension of ggplot2 :: GGally

Introduction

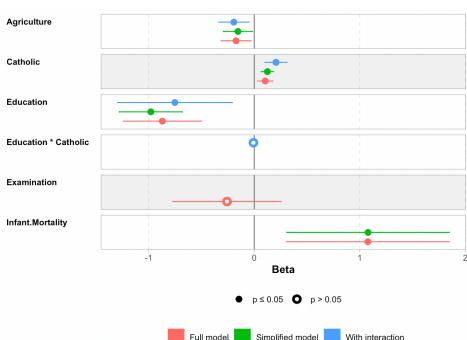
ggplot2 is an R package for plotting based on the grammar of graphics. **GGally** is an extension of ggplot2. It adds several functions to reduce the difficulties of combining different geoms.

ggcoef_model()

The ggcoef_model() function is designed to show the coefficients of a regression model on a plot.



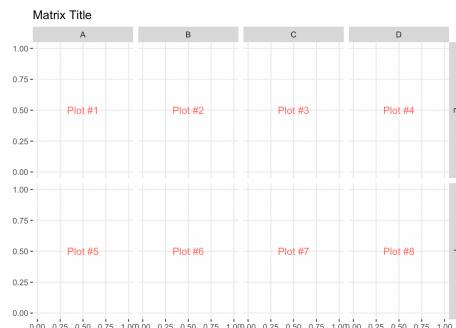
ggcoef_model(mod)
In the example plot, the “mod” is a glm model. The plot gives out the p-value, point estimation, and confidence interval of the coefficients.



ggcoef_model(list_mod)
In the example plot, the “list_mod” is a list of several linear regression models. The plot shows the coefficients in different models to help users compare and chose the appropriate one.

ggmatrix()

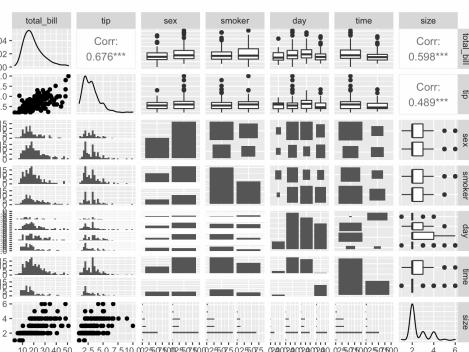
ggmatrix() is a function for managing multiple plots in a matrix-like layout.



ggmatrix(plotList, nrow, ncol, xAixsLabels, yAixsLabels)

ggpairs()

ggpairs() is a special form of ggmatrix(). It will provides to different comparison of pairwise comparison of multivariate data.



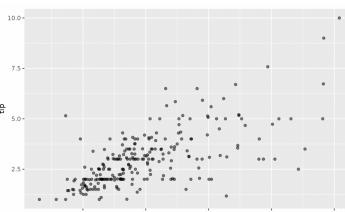
ggpairs(dataset)

To select the variables, use the “column” parameter. The plot used by ggpairs() to compare two columns is, by default, chosen by ggpairs() itself. But it can be substituted with the plot of ggally_*().

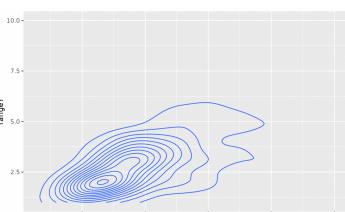
ggally_*()

ggally_*() is a set of high-level plots available in "GGally" to be used in ggpairs.

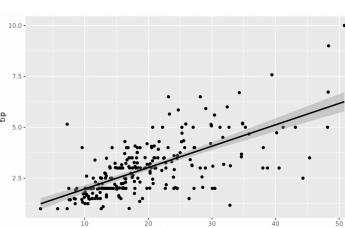
Bivariate plot 2x continuous variables



ggally_
autopoint

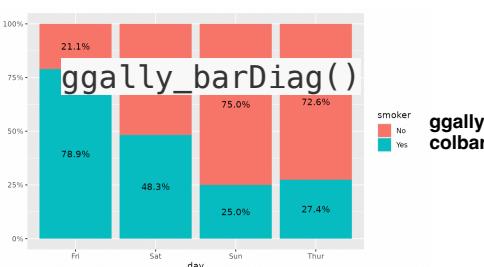


ggally_
density



ggally_
smooth_lm

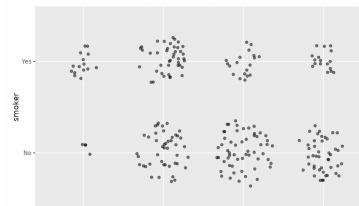
2x discrete variables



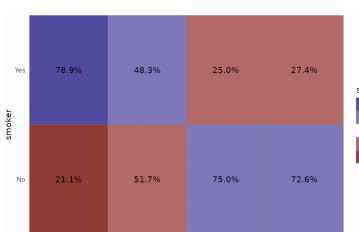
ggally_
barDiag
smoker
Yes
No
Fri Sat Sun Thur
78.9% 48.3% 25.0% 27.4%
21.1% 51.7% 75.0% 72.6%

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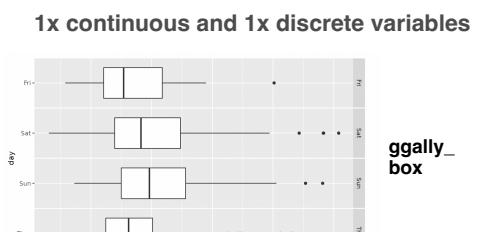
Reference : <https://ggobi.github.io/ggally/index.html>



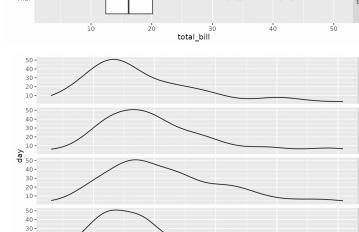
ggally_
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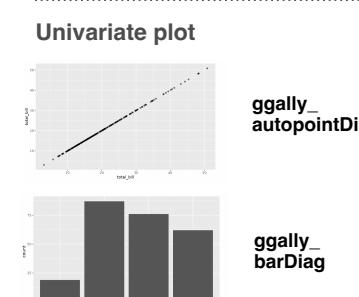
ggally_
crosstable



ggally_
box



ggally_
facetdensitystrip



ggally_
autopointDiag



ggally_
barDiag