

factorMerger

Cheat Sheet

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Basics

The aim of **factorMerger** is to provide set of tools to support results from post hoc comparisons. *Post hoc* testing is an analysis performed after running *ANOVA* to examine differences between group means (of some response numeric variable) for each pair of groups (groups are defined by a factor variable).

This project arose from the need to create a method of post hoc testing which gives the hierarchical interpretation of relations between groups means. Thereby, for a given significance level we may divide groups into nonoverlapping clusters.

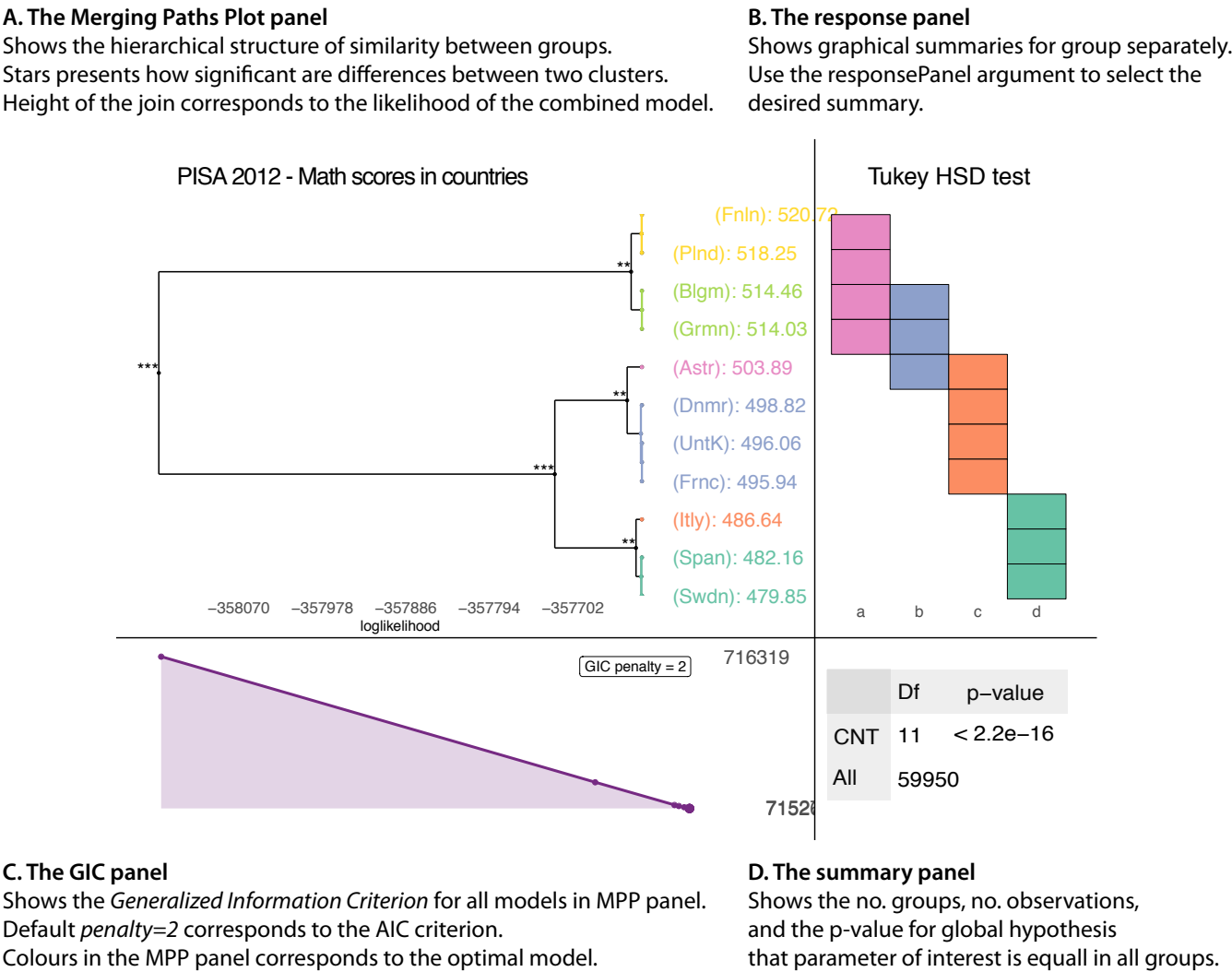
1.TODO: here describe more details

Example

```
library(factorMerger)
fmAll <- mergeFactors
  (response_variable,
   factor_variable,
   method = "hclust",
   family = "binomial")
print(fmAll)
plotTree(fmAll,
  panel = "all",
  responsePanel = "tukey")
```

FactorMerger - set of tools to support results from post hoc testing

Four panels to see it all



Level fusing plot

The top-left plot shows level fusing paths (merging paths). With arguments **family=**, **show=**, **fuse=**, **spacing=**, one can select how to merge factors and what shall be presented on OX/OY axes.

Argument	Summary
panel = "all"	All panels
panel = "response"	Panels A and B
panel = "GIC"	Panels A and C
panel = "tree"	Only panel A

Argument	Summary
fuse = "all2all"	Compare all pairs of groups
fuse = "nearby"	Compare nearby groups
fuse = "cluster"	DMR4glm algorithm

Argument	Summary
family = "gaussian"	For 1/n-dimensional Gaussian
family = "binomial"	For binomial regression
family = "survival"	For Cox regression

The response panel summaries

