betaSandwich: Internal Tests

Ivan Jacob Agaloos Pesigan

Tests

```
#> test-betaSandwich-beta-hc
#> Test passed
#> Test passed
#> Test passed
#> Test passed
#> Test passed
#> Test passed
#> Test passed
#> Test passed

#> test-betaSandwich-beta-mvn

#> Test passed
#> Test passed

#> test-betaSandwich-methods

#> Call:
#> BetaHC(object = object)
#>
#> Standardized regression slopes with HC3 standard errors:
#>                est      se       t         p    0.05%     0.5%      2.5%  97.5%
#> complaints  0.67073 0.1560  4.2983 0.0002677  0.08281   0.2327   0.34792 0.9935
#> privileges -0.07343 0.1594 -0.4608 0.6493035 -0.67385  -0.5208  -0.40310 0.2562
#> learning    0.30887 0.1954  1.5806 0.1276145 -0.42735  -0.2397  -0.09536 0.7131
#> raises      0.06981 0.1843  0.3787 0.7083821 -0.62473  -0.4477  -0.31153 0.4512
#> critical    0.03120 0.1772  0.1761 0.8617538 -0.63630  -0.4662  -0.33530 0.3977
#> advance    -0.18346 0.1802 -1.0183 0.3191381 -0.86228  -0.6893  -0.55618 0.1892
#>             99.5% 99.95%
#> complaints 1.1088 1.2586
#> privileges 0.3740 0.5270
#> learning   0.8574 1.0451
#> raises     0.5873 0.7644
#> critical   0.5286 0.6987
#> advance    0.3223 0.4954
```

```
#> Call:
#> BetaHC(object = object)
#>
#> Standardized regression slopes with HC3 standard errors:
#> Call:
#> BetaN(object = object)
#>
#> Standardized regression slopes with MVN standard errors:
#>                est      se       t         p   0.05%      0.5%      2.5%    97.5%
#> complaints  0.67073 0.1433   4.6810 0.0001031  0.1309  0.26847   0.37431 0.96714
#> privileges -0.07343 0.1197  -0.6136 0.5455017 -0.5243 -0.40937  -0.32098 0.17412
#> learning    0.30887 0.1431   2.1580 0.0416048 -0.2304 -0.09293   0.01279 0.60495
#> raises      0.06981 0.1657   0.4213 0.6774348 -0.5545 -0.39536  -0.27296 0.41259
#> critical    0.03120 0.1047   0.2980 0.7683711 -0.3632 -0.26271  -0.18538 0.24778
#> advance    -0.18346 0.1338  -1.3717 0.1834027 -0.6874 -0.55896  -0.46015 0.09323
#>             99.5% 99.95%
#> complaints 1.0730 1.2106
#> privileges 0.2625 0.3774
#> learning   0.7107 0.8481
#> raises     0.5350 0.6941
#> critical   0.3251 0.4256
#> advance    0.1920 0.3205
#> Call:
#> BetaN(object = object)
#>
#> Standardized regression slopes with MVN standard errors:
#> Call:
#> BetaHC(object = object)
#>
#> Standardized regression slopes with HC3 standard errors:
#>              est      se      t         p  0.05%    0.5%    2.5% 97.5%  99.5%
#> complaints 0.8254 0.05055 16.33 7.662e-16 0.6397  0.6857  0.7219 0.929 0.9651
#>           99.95%
#> complaints  1.011
#> Call:
#> BetaHC(object = object)
#>
#> Standardized regression slopes with HC3 standard errors:
#> Call:
#> BetaN(object = object)
#>
#> Standardized regression slopes with MVN standard errors:
#>              est      se      t        p  0.05%    0.5%    2.5%  97.5%  99.5%
#> complaints 0.8254 0.05818 14.19 2.61e-14 0.6117  0.6646  0.7062 0.9446 0.9862
#>           99.95%
#> complaints  1.039
```

```
#> Call:
#> BetaN(object = object)
#>
#> Standardized regression slopes with MVN standard errors:
#> [[1]]
#> [[1]][[1]]
#> [[1]][[1]]$value
#> [[1]][[1]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[1]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[2]]
#> [[1]][[2]]$value
#> [[1]][[2]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[2]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[3]]
#> [[1]][[3]]$value
#> [[1]][[3]]$value[[1]]
#>      2.5%     97.5%
#> 0.7062334 0.9446017
#>
#>
#> [[1]][[3]]$visible
#> [1] TRUE
```

Environment

```r
ls()

#> [1] "i"        "root"     "tex_file"
```

Class

```
#> [[1]]
#> [1] "character"
#>
#> [[2]]
#> [1] "root_criterion"
#>
#> [[3]]
#> [1] "character"
```

References

R Core Team. (2022). *R: A language and environment for statistical computing.* R Foundation for Statistical Computing. Vienna, Austria. https://www.R-project.org/