betaMC: Internal Tests

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Tests

```
#> test-betaMC-methods
#> Call:
#> BetaMC(object = object)
#> HC3 sampling variance-covariance matrix:
#>            est     se     R   0.05%   0.5%   2.5%  97.5%  99.5% 99.95%
#> NARTIC  0.4951 0.0811 20000  0.1475 0.2646 0.3197 0.6336 0.6790 0.7249
#> PCTGRT  0.3915 0.0827 20000  0.0840 0.1605 0.2177 0.5398 0.5894 0.6437
#> PCTSUPP 0.2632 0.0855 20000 -0.0292 0.0318 0.0885 0.4244 0.4736 0.5255
#> Call:
#> BetaMC(object = object)
#>
#> Standardized regression slopes with HC3 standard errors:
#> Call:
#> BetaMC(object = object)
#> HC3 sampling variance-covariance matrix:
#>           est     se     R  0.05%   0.5%   2.5%  97.5%  99.5% 99.95%
#> NARTIC 0.7622 0.0721 20000 0.3601 0.5157 0.5866 0.8629 0.8912 0.9242
#> Call:
#> BetaMC(object = object)
#>
#> Standardized regression slopes with HC3 standard errors:

#> test-betaMC-vcov

#> Test passed
#> Test passed
#> Test passed
#> Test passed
#> Test passed
#> Test passed
#> Test passed
#> Test passed
#> [[1]]
#> [[1]][[1]]
#> [[1]][[1]]$value
```

```
#> [[1]][[1]]$value[[1]]
#>      2.5%     97.5%
#> 0.5866175 0.8628749
#>
#>
#> [[1]][[1]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[2]]
#> [[1]][[2]]$value
#> [[1]][[2]]$value[[1]]
#> Call:
#> BetaMC(object = object, decomposition = "svd")
#> HC3 sampling variance-covariance matrix:
#>       est     se     R  0.05%   0.5%   2.5%  97.5%  99.5% 99.95%
#> x1 0.5013 0.0021 20000 0.4942 0.4958 0.4972 0.5055 0.5068 0.5084
#> x2 0.4982 0.0021 20000 0.4915 0.4928 0.4941 0.5023 0.5037 0.5052
#>
#>
#> [[1]][[2]]$visible
#> [1] TRUE
```

Environment

```
ls()

#> [1] "nas1982"  "root"     "tex_file"
```

Class

```
#> [[1]]
#> [1] "data.frame"
#>
#> [[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/