

# betaSandwich: External Tests

Ivan Jacob Agaloos Pesigan

## Tests

```
#> test-external-betaSandwich-beta-sandwich-adj
```

```
#> Test passed
```

```
#> Test passed
```

```
#> Test passed
```

```
#> Test passed
```

```
#> test-external-betaSandwich-beta-sandwich-mlm
```

```
#> Test passed
```

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#> Test passed
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#> Test passed
```

```
#> Test passed
```

```
#> test-external-betaSandwich-beta-sandwich-mvn
```

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#> Test passed
```

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#> Test passed
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#> Test passed
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```
#> Test passed
```

```
#> test-external-betaSandwich-diff-adj
```

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#> Test passed
```

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#> Test passed
```

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#> Test passed
```

```
#> Test passed
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```
#> test-external-betaSandwich-diff-mlm
```

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#> Test passed
```

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#> Test passed
```

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#> Test passed
```

```
#> Test passed
```

```
#> test-external-betaSandwich-diff-mvn
```

```

#> Test passed
#> Test passed
#> Test passed
#> Test passed

#> test-external-betaSandwich-r-sq-adj

#> Test passed
#> Test passed
#> Test passed
#> Test passed

#> test-external-betaSandwich-r-sq-mlm

#> Test passed
#> Test passed
#> Test passed
#> Test passed

#> test-external-betaSandwich-r-sq-mvn

#> Test passed
#> Test passed
#> Test passed
#> Test passed
#> [[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]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[3]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[4]]
#> [[1]][[4]]$value
#> [[1]][[4]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[4]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[5]]
#> [[1]][[5]]$value
#> [[1]][[5]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[5]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[6]]
#> [[1]][[6]]$value
#> [[1]][[6]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[6]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[7]]
#> [[1]][[7]]$value
#> [[1]][[7]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[7]]$visible

```

```
#> [1] TRUE
#>
#>
#> [[1]][[8]]
#> [[1]][[8]]$value
#> [[1]][[8]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[8]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[9]]
#> [[1]][[9]]$value
#> [[1]][[9]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[9]]$visible
#> [1] TRUE
```

## Environment

```
ls()
```

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

## Class

```
#> [[1]]  
#> [1] "data.frame"  
#>  
#> [[2]]  
#> [1] "root_criterion"
```

## References

- Pesigan, I. J. A., Sun, R. W., & Cheung, S. F. (2023). betaDelta and betaSandwich: Confidence intervals for standardized regression coefficients in R. *Multivariate Behavioral Research*, 58(6), 1183–1186. <https://doi.org/10.1080/00273171.2023.2201277>
- R Core Team. (2025). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>