

# betaMC: Staging

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Staging...

```
object <- lm(QUALITY ~ NARTIC + PCTGRT + PCTSUPP, data = nas1982)
```

```
dif(BetaMC(object))
```

```
#> Difference between standardized regression coefficients with type = " HC3 "
```

	est	se	R	0.05%	0.5%	2.5%	97.5%	99.5%	99.95%
#> NARTIC-PCTGRT	0.1037	0.1435	20000	-0.3736	-0.2704	-0.1805	0.3768	0.4654	0.5537
#> NARTIC-PCTSUPP	0.2319	0.1335	20000	-0.2192	-0.1274	-0.0409	0.4821	0.5645	0.6514
#> PCTGRT-PCTSUPP	0.1282	0.1368	20000	-0.3172	-0.2255	-0.1448	0.3895	0.4691	0.5658

```
dif(BetaMC(object, type = "mvn"))
```

```
#> Difference between standardized regression coefficients with type = " MVN "
```

	est	se	R	0.05%	0.5%	2.5%	97.5%	99.5%	99.95%
#> NARTIC-PCTGRT	0.1037	0.1352	20000	-0.3629	-0.2574	-0.1653	0.3604	0.4399	0.5225
#> NARTIC-PCTSUPP	0.2319	0.1257	20000	-0.1858	-0.0997	-0.0250	0.4677	0.5416	0.6222
#> PCTGRT-PCTSUPP	0.1282	0.1215	20000	-0.2641	-0.1920	-0.1172	0.3622	0.4402	0.5201

```
dif(BetaMC(object, type = "adf"))
```

```
#> Difference between standardized regression coefficients with type = " ADF "
```

	est	se	R	0.05%	0.5%	2.5%	97.5%	99.5%	99.95%
#> NARTIC-PCTGRT	0.1037	0.1215	20000	-0.2828	-0.2070	-0.1337	0.3395	0.4146	0.4924
#> NARTIC-PCTSUPP	0.2319	0.1180	20000	-0.1810	-0.0766	-0.0056	0.4581	0.5342	0.6137
#> PCTGRT-PCTSUPP	0.1282	0.1213	20000	-0.2848	-0.1939	-0.1176	0.3623	0.4320	0.5128

```
out <- rsq(BetaMC(object))
```

```
print(out)
```

```
#> Multiple correlation type = "HC3"
```

	est	se	R	0.05%	0.5%	2.5%	97.5%	99.5%	99.95%
#> rsq	0.8045	0.0619	20000	0.4969	0.5772	0.6461	0.8881	0.9109	0.9327
#> adj	0.7906	0.0663	20000	0.4609	0.5470	0.6209	0.8801	0.9045	0.9279

```
summary(out)
```

```

#> Multiple correlation type = "HC3"
#>      est      se      R 0.05%   0.5%   2.5%  97.5%  99.5% 99.95%
#> rsq 0.8045 0.0619 20000 0.4969 0.5772 0.6461 0.8881 0.9109 0.9327
#> adj 0.7906 0.0663 20000 0.4609 0.5470 0.6209 0.8801 0.9045 0.9279

coef(out)

#>      rsq      adj
#> 0.8045263 0.7905638

vcov(out)

#>      rsq      adj
#> rsq 0.003826412 0.004099727
#> adj 0.004099727 0.004392564

confint(out)

#>      2.5%      97.5%
#> rsq 0.6461316 0.8881363
#> adj 0.6208553 0.8801461

rsq(BetaMC(object, type = "mvn"))

#> Multiple correlation type = "MVN"
#>      est      se      R 0.05%   0.5%   2.5%  97.5%  99.5% 99.95%
#> rsq 0.8045 0.0567 20000 0.4984 0.5973 0.6601 0.8806 0.9029 0.9286
#> adj 0.7906 0.0607 20000 0.4626 0.5685 0.6358 0.8721 0.8960 0.9235

rsq(BetaMC(object, type = "adf"))

#> Multiple correlation type = "ADF"
#>      est      se      R 0.05%   0.5%   2.5%  97.5%  99.5% 99.95%
#> rsq 0.8045 0.0550 20000 0.5129 0.6102 0.6637 0.8799 0.9025 0.9297
#> adj 0.7906 0.0589 20000 0.4781 0.5824 0.6396 0.8713 0.8955 0.9247

```

## 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/>