

Vectorization

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```
library(linearAlgebra)
```

```
A <- matrix(c("a", "b", "b", "c"), ncol = 2)
colnames(A) <- rownames(A) <- c("v1", "v2")
A
##      v1 v2
## v1 "a" "b"
## v2 "b" "c"
```

Vectorize

```
vec(A)
## [1] "a" "b" "b" "c"
```

Half-Vectorize

```
vech(A)
## [1] "a" "b" "c"
```

Strict Half-Vectorize

```
vechs(A)
## [1] "b"
```

Names for Half-Vectorization

```
vechnames(colnames(A))  
## [1] "v1.v1" "v1.v2" "v2.v2"
```

Names for Strict Half-Vectorization

```
vechsnames(colnames(A))  
## [1] "v1.v2"
```