

apply()

=apply fn on array margin

In

`apply(array, margin, fn)`

Out

list, vector, or array

lapply()

=apply fn on each element

`lapply(object, fn)`

list

sapply()

=lapply w/ simplified out

`sapply(object, fn)`

simplest R object that can hold output (simplify=T)

vapply()

=sapply w/ defined out

`vapply(object, fn, fn.value)`

object of type and dim like fn.value

tapply()

=apply fn on subsets of vec

`tapply(vec, factor(s), fn)`

simplest R object that can hold output (simplify=T)

mapply()

=apply fn w/ args from vectors

`mapply(fn, v1, v2, ... vn)`

simplest R object that can hold output (simplify=T)