```
> aggregate(safi$no_membrs, by=list(safi$village), mean)
   Group.1        x
1 Chirodzo 7.076923
2      God 6.860465
3    Ruaca 7.571429

> aggregate(safi$rooms, by=list(safi$village, safi$respondent_wall_type), mean,
na.rm=TRUE)
    Group.1     Group.2        x
1  Chirodzo burntbricks 2.590909
2       God burntbricks 1.684211
3     Ruaca burntbricks 2.000000
4     Ruaca      cement 3.000000
...

> tmp<- aggregate(safi$rooms, by=list(safi$village, safi$respondent_wall_type),
mean, na.rm=TRUE)
> tmp[order(tmp$Group.1, tmp$Group.2),]
    Group.1     Group.2        x
1  Chirodzo burntbricks 2.590909
5  Chirodzo     muddaub 1.187500
8  Chirodzo   sunbricks 1.000000
2       God burntbricks 1.684211
6       God     muddaub 1.266667
```

# Apply

```
apply(X, MARGIN, FUN, ...)
  MARGIN=1 - rows
  MARGIN=2 - columns

apply(africa[,-1:-2], 2, mean, na.rm=TRUE)
```

```
    gdp_2017     pop_2017          area          rail          road
2.190350e+10 2.323929e+07 5.551491e+05 2.341742e+03 4.406992e+04
```