```
apply(month indicators, 2, sum)
which.max(apply(month indicators, 2, sum))
table(safi$village)
tapply(safi$months lack food count, safi$village, mean)
t.test(safi$months lack food count[safi$village == "Chirodzo"],
       safi$months lack food count[safi$village == "Ruaca"])
barplot(table(safi$no membrs))
hist(safi$no membrs, breaks=1:20-.5, col="gray",
    main="Family Size", xlab="Number of Members",
     ylab="Number of Families")
boxplot(no membrs~village, data=safi)
plot(y=safi$months lack food count, x=safi$no membrs)
plot(y=jitter(safi$months_lack_food_count), x=jitter(safi$no_membrs),
     col=rgb(.1, 0, 1, alpha=.3), pch=16)
```

## Matrices

- Matrix: 2D array, all elements of the same type
- Index like a data frame:
  - matrix[row, column]
- Can name rows and columns; but can't use \$ notation
- Special operators and functions for matrix operations
  - %\*% multiplication
  - t() transpose
  - solve() inverse
  - https://www.statmethods.net/advstats/matrix.html