Scatterplot matrix

Correlation matrix.

How do correlations differ by type of chocolate?

```
> cor(chocolates[,c(5,7,9,10,12,13)])
          Calories TotFat   Chol     Na Fiber Sugars
Calories     1.000   0.61 -0.054 -0.057  0.14 -0.092
TotFat       0.611   1.00 -0.410 -0.429  0.39 -0.654
Chol        -0.054  -0.41  1.000  0.491 -0.40  0.540
Na          -0.057  -0.43  0.491  1.000 -0.36  0.467
Fiber        0.140   0.39 -0.397 -0.364  1.00 -0.261
Sugars      -0.092  -0.65  0.540  0.467 -0.26  1.000
```

```
> cor(chocolates[chocolates$Type=="Milk",c(5,7,9,10,12,13)])
          Calories  TotFat Chol   Na   Fiber Sugars
Calories     1.000  0.7359 0.37 0.32  0.0130   0.22
TotFat       0.736  1.0000 0.22 0.11 -0.0097  -0.21
Chol         0.368  0.2211 1.00 0.40  0.1209   0.33
Na           0.323  0.1060 0.40 1.00  0.1510   0.44
Fiber        0.013 -0.0097 0.12 0.15  1.0000   0.20
Sugars       0.223 -0.2141 0.33 0.44  0.2039   1.00
```

```
> cor(chocolates[chocolates$Type=="Dark",c(5,7,9,10,12,13)])
          Calories TotFat  Chol     Na   Fiber  Sugars
Calories     1.000   0.60 -0.15 -0.117  0.0419 -0.1235
TotFat       0.595   1.00 -0.36 -0.299  0.1177 -0.6685
Chol        -0.153  -0.36  1.00  0.103 -0.2233  0.4303
Na          -0.117  -0.30  0.10  1.000 -0.0538  0.0793
Fiber        0.042   0.12 -0.22 -0.054  1.0000  0.0012
Sugars      -0.124  -0.67  0.43  0.079  0.0012  1.0000
```