

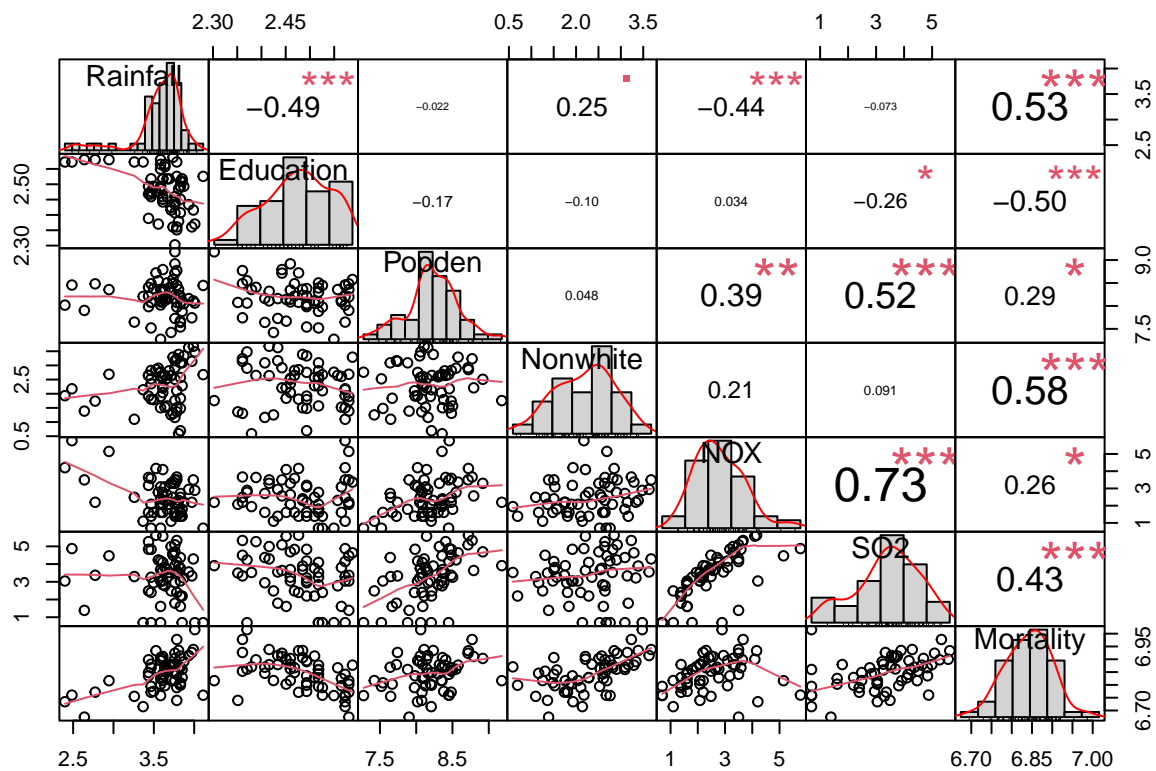
Panel de correlación

Performance Analytics

—

```
library(PerformanceAnalytics)
airpoll<-source("chap2airpoll.dat")$value

chart.Correlation(log(airpoll+1),
                  method="pearson",
                  histogram=TRUE,
                  pch=20)
```



?chart.Correlation

Corrplot

```
library(corrplot)

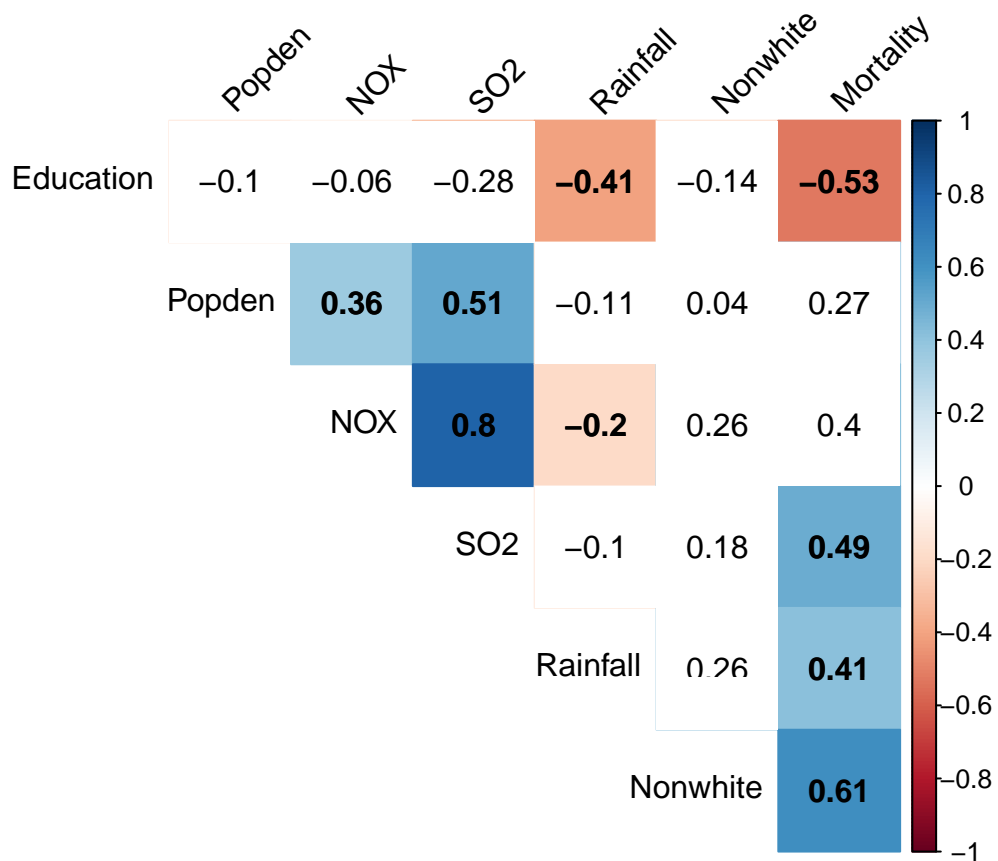
corr <- round(cor(log(airpoll+1), method = "spearman"), 2)
cor.mat <- cor.mtest(log(airpoll+1), conf.level = 0.95)

p1 <- corrplot(corr, method="color",
               type="upper", order="hclust",
```

```

addCoef.col = "black", # Add coefficient of correlation
tl.col="black", tl.srt=45, #Text label color and rotation
# Combine with significance
p.mat= cor.mat$p, sig.level = 0.01, insig = "blank",
# hide correlation coefficient on the principal diagonal
diag=FALSE
)$corrPos
text(p1$x, p1$y, round(p1$corr, 2))

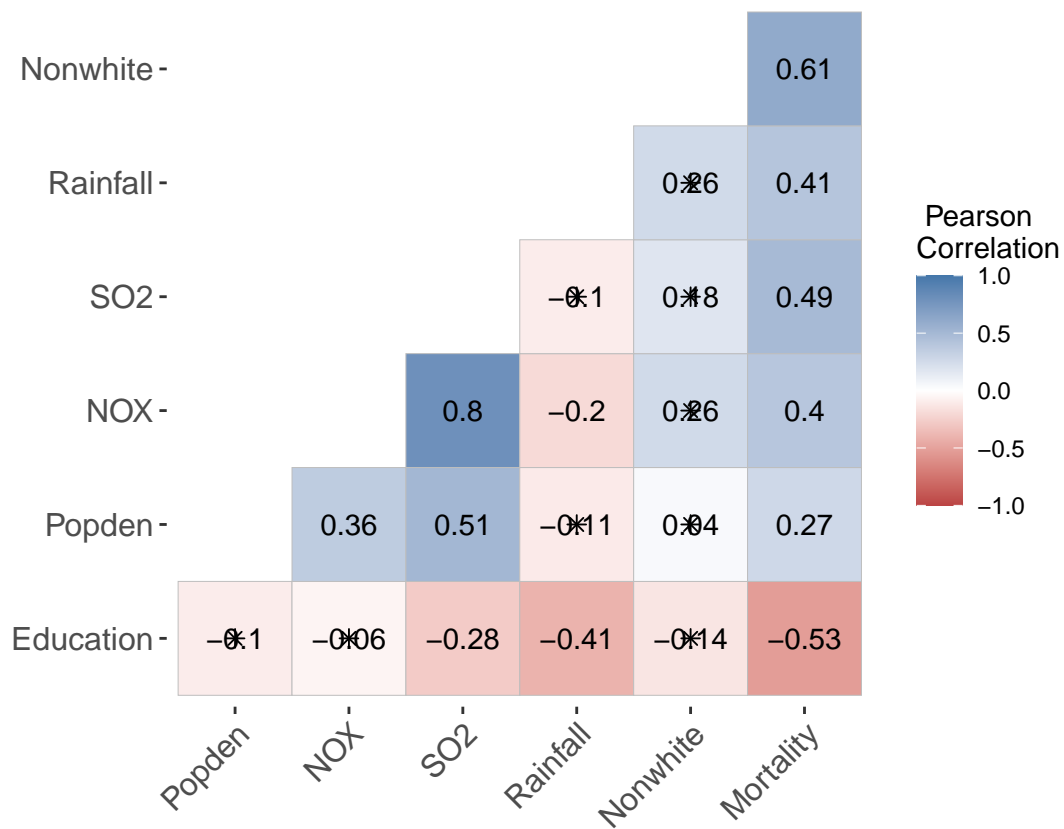
```



ggcorrplot

```
library(ggcorrplot)

ggcorrplot(corr,
            type = "lower",
            lab = T, show.diag = F,
            legend.title = " Pearson\nCorrelation",
            colors= c("#BB4444", "#FFFFFF", "#4477AA"),
            hc.order = T,
            sig.level = 0.05, insig = "pch", pch=8, pch.cex = 2,
            p.mat= cor.mat$p,
            ggtheme = ggplot2::theme(
              panel.background = element_blank()))
```



GGally

```
library(GGally)

pairs <- ggpairs(log(airpoll+1),
  upper = list(continuous= wrap("cor", method= "pearson", digits=2)),
  lower = list( continuous= "smooth")) +theme_classic()

pairs
```

