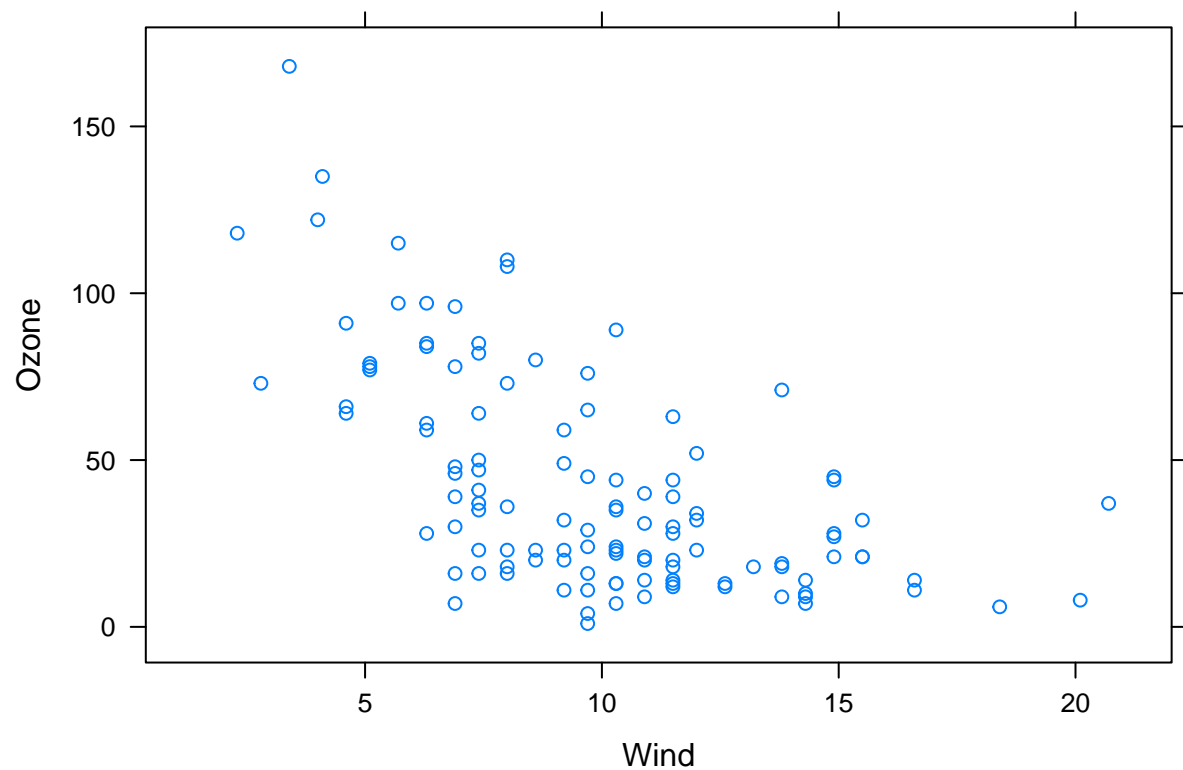# Lattice Plotting System

Anandu R

Basics
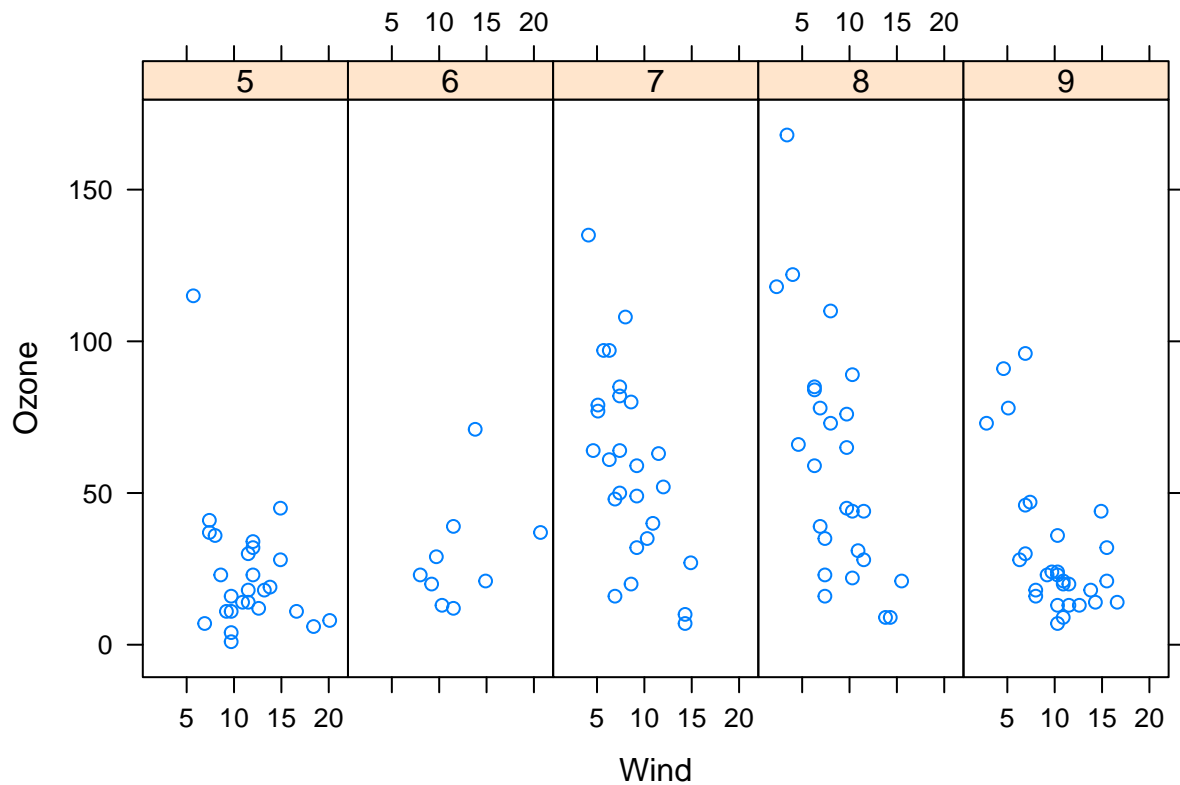
Using xyplot to create a scatter plot Ozone vs Wind

```r
library(datasets)
library(lattice)
airquality = transform(airquality, Month = factor(Month))
xyplot(Ozone~Wind, data = airquality)
```

Using xyplot to create separate scatter plots of Ozone vs Wind for each month

```
library(datasets)
library(lattice)
airquality = transform(airquality, Month = factor(Month))
xyplot(Ozone~Wind | Month, data = airquality, layout = c(5,1))
```


We infer from the above plot that the relationship between Ozone and Wind changes across the months, July and August display a strong relationship - negative relationship, where Ozone level decreases with increase in Wind levels

Lattice graphics objects return a plot object **trellis** which is autoprinted by the R, so it appears the function itself is plotting the data as in Base plot system.