

1 Email Ticketing System

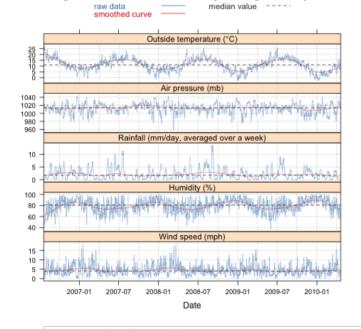
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#105 PLOTTING TIME SERIES

Birmingham Wast Hills Observatory average midday weathe



This graph has been made by Alastair Sanderson. You can have a look to his gallery

The lattice package is really usefull to represent multiple time series like this R chart of daily weather measurements taken at the University of Birmingham.

```
#--Load previously saved data:
path <- "http://www.sr.bham.ac.uk/~ajrs/R/datasets"
a <- load(url(paste(path,"middayweather.RData", sep="/")))
close(url(paste(path,"middayweather.RData", sep="/")))</pre>
                # list names of saved objects
print(a)
#--Load extra libraries:
require(lattice)
#--The following was used to define the colours, but since it's a non-standard
     package, I've used the hexadecimal colour codes explicity below to avoid the
     need to install "RColorBrewer". See http://colorbrewer2.org/ for more info.
#require(RColorBrewer)
#colset <- brewer.pal(5, "Set1")</pre>
#--Change output device to pdf file:
trellis.device(device="png", file="midday_weather_profiles.png", width = 480, height = 480, color=TRUE)
#--Define plot titles:
lab.wind.speed <- "Wind speed (mph)"
lab.hum <- "Humidity (%)"
lab.rain <- "Rainfall (mm/day, averaged over a week)"
lab.bar <- "Air pressure (mb)"
lab.T.out <- as.expression(expression( paste("Outside temperature (", degree*C, ")") ))
#--Custom strip function:
# (NB the colour used is the default lattice strip background colour) my.strip <- function(which.given, which.panel, ...) {
    strip.labels <- c(lab.wind.speed, lab.hum, lab.rain, lab.bar, lab.T.out)
```

```
panel.rect(0, 0, 1, 1, col="#ffe5cc", border=1)
panel.text(x=0.5, y=0.5, adj=c(0.5, 0.55), cex=0.95,
                lab=strip.labels[which.panel[which.given]])
#--Define X axis date range:
xlim <- range(middayweather$Date)</pre>
#--Define annual quarters for plot grid line markers:
d <- seq(from=as.Date("2006-01-01"), to=as.Date("2011-01-01"), by=365/4)
#--Define colours for raw & smoothed data:
col.raw <- "#377EB8"
col.smo <- "#E41A1C"
col.lm <- "grey20"
                            #colset[2] } see note above
#colset[1] }
#--Create multipanel plot:
panel.abline(h=median(y, na.rm=TRUE), lty=2, col=col.lm, lwd=1) # median value
        key=list(text=list(c("raw data", "smoothed curve", "median value")),
title="Birmingham Wast Hills Observatory average midday weather",
                   col=c(col.raw, col.smo, col.lm), lty=c(1, 1, 2),
                   columns=2, cex=0.95,
                   lines=TRUE
       )
```

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Good afternoon,

Thanks for the script, it works perfect. How can I do to show on the x-axis every month of every year and not just some of them?

Many thanks in advance.

Valentina



3 months ago

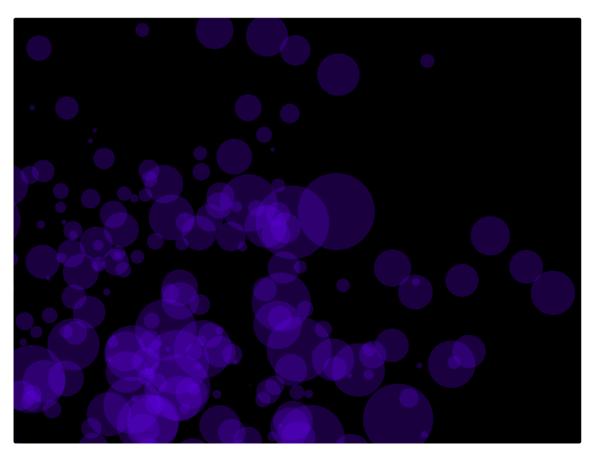
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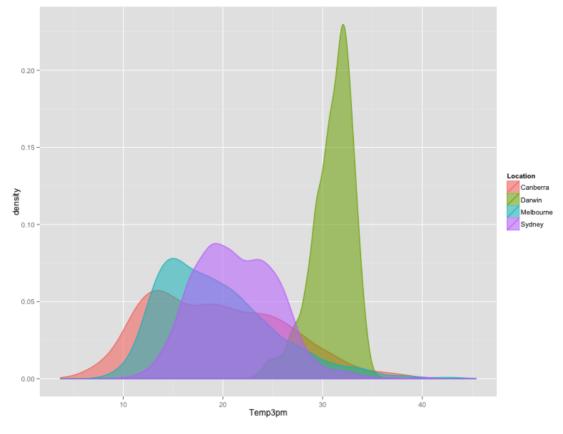
Manoj Oak

Nice graphs, but I am new to R, the website is fantastic.

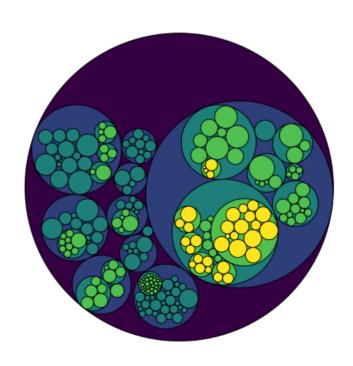
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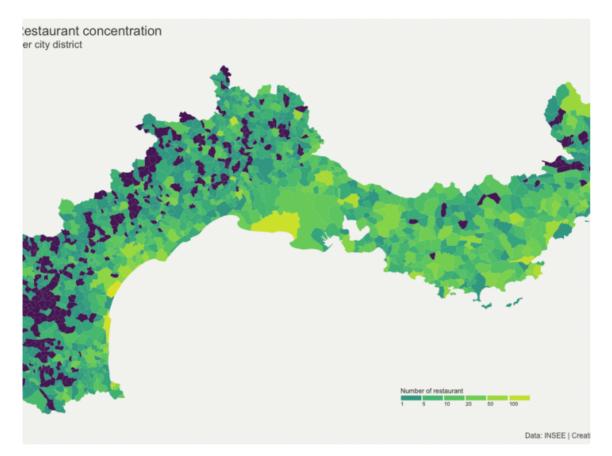
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