05 mature tree data

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```
################ alex, molly, nicole data
# read in the data
edata <- read.csv(file = "data/elevation data final clean.csv")</pre>
# change the january level
levels(edata$X16_fb_per_can)[levels(edata$X16_fb_per_can)=="5-Jan"] <- "1-5"</pre>
# change the june level
levels(edata$X16_fb_per_can)[levels(edata$X16_fb_per_can)=="15-Jun"] <- "6-15"</pre>
# change the 0-5 level (this was my mistake in epicollect)
levels(edata$X16_fb_per_can)[levels(edata$X16_fb_per_can)=="0-5"] <- "1-5"</pre>
# check structure
str(edata$X16_fb_per_can)
## Factor w/ 4 levels "0","1-5","15-100",..: 1 1 1 1 1 1 1 1 1 1 ...
# check categories
unique(edata$X16_fb_per_can)
## [1] 0
              1-5
                     6-15 15-100 <NA>
## Levels: 0 1-5 15-100 6-15
# change the order of the categories
edata$X16_fb_per_can <- factor(edata$X16_fb_per_can, levels = c("0", "1-5", "6-15", "15-100")) #reorder
# check the elevation structure
str(edata$Elevation)
## num [1:118] 5297 5547 5558 5558 5558 ...
# Let's make it an integer
edata$Elevation <- as.numeric(as.character(edata$Elevation))</pre>
# we can make a box plot based on the different levels of fire blight
boxplot(Elevation ~ X16_fb_per_can, data=edata,
        xlab="Elevation (m)",
        ylab="Fire blight in canopy (% cover)",
        col = c("darkgreen", "green", "orange", "red"),
        cex.lab = 1.4,
        cex.axis = 1.4,
        horizontal = TRUE)
```



