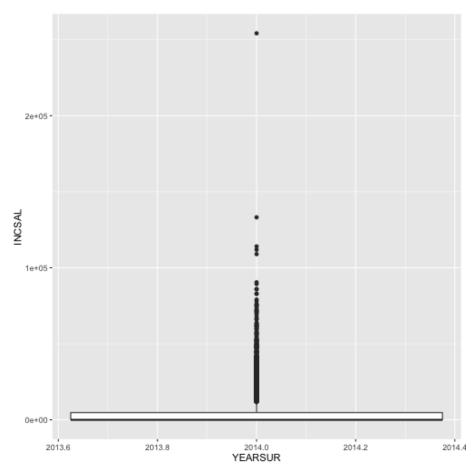
```
library(ggplot2)
library(foreign)
library(Hmisc)
## Loading required package: lattice
## Loading required package: survival
## Loading required package: Formula
## Attaching package: 'Hmisc'
## The following objects are masked from 'package:dplyr':
##
##
       combine, src, summarize
## The following objects are masked from 'package:base':
##
       format.pval, round.POSIXt, trunc.POSIXt, units
##
library(reshape2)
##
## Attaching package: 'reshape2'
## The following object is masked from 'package:tidyr':
##
##
       smiths
library(dplyr)
library(tidyr)
file456 <- spss.get("/Users/AbuDavid/school/census/f456/f456ind.por", use.value.labels=TRUE
## Warning in `levels<-`(`*tmp*`, value = if (nl == nL) as.character(labels)
## else pasteO(labels, : duplicated levels in factors are deprecated
Begin with data from Public Use File 2014, file f456.
subSetInd2014<-dplyr::select(file456, YEARSUR, WPLDIST,INCSAL)</pre>
head(subSetInd2014)
##
     YEARSUR WPLDIST INCSAL
## 1
        2014
                 <NA>
                           0
## 2
        2014
                 <NA>
## 3
        2014
               Center
                        5555
## 4
        2014 Gush Dan
                        8081
## 5
        2014 Tel-Aviv
                        6446
## 6
        2014 Tel-Aviv
                        3473
```

summary(subSetInd2014)

##	YEARSUR	WPLDIST	INCSAL
##	Min. :2014	Center : 3010	Min. : 0
##	1st Qu.:2014	Tel-Aviv: 2551	1st Qu.: 0
##	Median :2014	North : 1766	Median: 0
##	Mean :2014	Haifa : 1522	Mean : 3403
##	3rd Qu.:2014	Gush Dan: 1468	3rd Qu.: 4749
##	Max. :2014	(Other) : 1516	Max. :254219
##		NA's :16117	

names(subSetInd2014)

[1] "YEARSUR" "WPLDIST" "INCSAL"



Plot is stretched by very few individuals with extremely high incomes.

```
Remove these to see the normal salaries more clearly.
   ```r
 richRemoved <- subSetInd2014
 # richRemoved[richRemoved$INCSAL > 1200,] #testSyntax
 count(richRemoved[richRemoved$INCSAL > 40000,]) # > $10k USD/month
 . . .
 ## # A tibble: 1 × 1
 ##
 ##
 <int>
 ## 1 130
   ```r
     # remove the 130 richest, regraph
   richRemoved<-richRemoved[richRemoved$INCSAL<40000,]
   # ggplot(aes(y=INCSAL,x=YEARSUR),
           data=richRemoved)+geom_boxplot()
   naRemoved <-richRemoved %>% filter(complete.cases(richRemoved))
    # ggplot(aes(y=INCSAL, x=YEARSUR ),
                                        data=naRemoved)+geom_boxplot()
Here we look at the non-wealthy in the entire country, defined as those who make less than
In shekels, their mean income is 7,488. The middle 50% of them have incomes lying between 2
...r
 haifaData2014<- naRemoved %>% filter(WPLDIST == "Haifa")
## ggplot(aes(y=INCSAL,
##
              x=YEARSUR,
##
              col="green"
##
                                                       ),
##
          data=haifaData)+geom_boxplot()
##
     summary(haifaData)
  centerData2014 <-naRemoved %>% filter(WPLDIST == "Center")
  ## ggplot(aes(y=INCSAL,
  ##
                x=YEARSUR,
 ##
                col="blue"),
            data=centerData)+geom_boxplot()
 ##
  ## summary(centerData)
When looking at Haifa, the mean income falls by around 500 NIS to 6944,
```

```
```r
judeaData2014<- naRemoved %>% filter(WPLDIST == "Judea / Samaria")
ggplot(aes(y=INCSAL,
##
 x=YEARSUR
 col="orange"
##
##
),
##
 data=judeaData)+geom_boxplot()
 summary(judeaData)
Error in summary(judeaData): object 'judeaData' not found
```r
areas <- c("Haifa", "Center", "Judea / Samaria")</pre>
file457 <- spss.get("/Users/AbuDavid/school/census/f457/f457ind.por", use.value.labels=TRUE
## Warning in `levels<-`(`*tmp*`, value = if (nl == nL) as.character(labels)
## else pasteO(labels, : duplicated levels in factors are deprecated
subSetInd2013<-dplyr::select(file457, YEARSUR, WPLDIST,INCSAL)</pre>
richRemoved2013<-subSetInd2013[subSetInd2013$INCSAL<40000,]
naRemoved2013 <-richRemoved2013 %>% filter(complete.cases(richRemoved2013))
judeaData2013<- naRemoved2013%>% filter(WPLDIST == "Judea / Samaria")
haifaData2013<- naRemoved2013 %>% filter(WPLDIST == "Haifa")
centerData2013<- naRemoved2013 %>% filter(WPLDIST == "Center")
national2013<-naRemoved2013
summary(national2013)
- - -
       YEARSUR
                              WPLDIST
                                              INCSAL
##
## Min. :2013 Jerusalem
                                :1300 Min. :
## 1st Qu.:2013 North
                                 :1857 1st Qu.: 2468
```

:1668 Median : 5690

Mean income in the Center is around 500 NIS more than the national mean, and more than 1000 50% of the non-wealthy in Center earn between 2582 and 11,000 NIS. The first quartile is 500

50% of incomes are between 2084 and 9448 NIS.

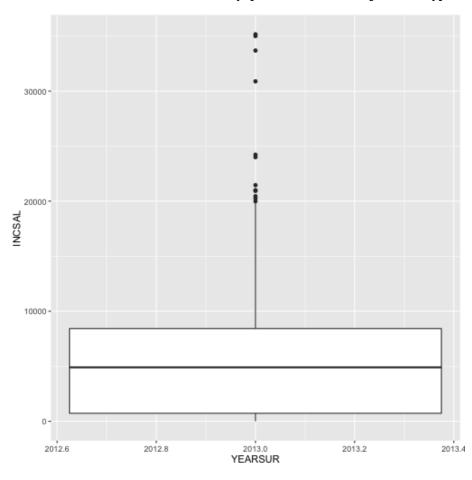
Open new dataSet, Household Expenditure Survey 2013, in file f457.

Haifa

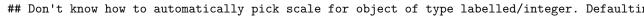
Median :2013

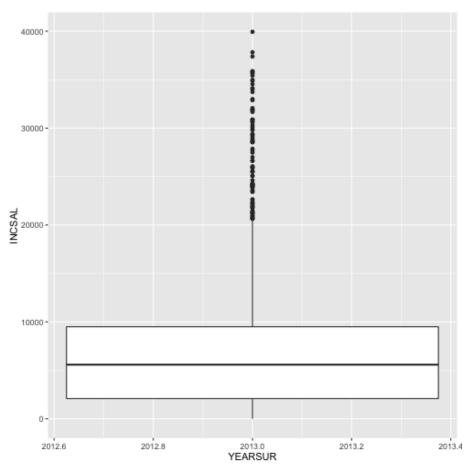
```
## Mean :2013 Center
                         :3335
                                 Mean : 7319
                          :2987
## 3rd Qu.:2013 Tel-Aviv
                                  3rd Qu.: 9837
                         :1582 Max. :39967
## Max. :2013 Gush Dan
##
               Judea / Samaria: 315
...r
summary(judeaData2013)
                WPLDIST
   YEARSUR
##
                                 INCSAL
## Min. :2013 Jerusalem : 0 Min. : 0
## 1st Qu.:2013 North
                          : 0 1st Qu.: 725
## Median :2013 Haifa
                          : 0 Median: 4899
## Mean :2013 Center
                           : 0 Mean : 5977
                          : 0 3rd Qu.: 8425
## 3rd Qu.:2013 Tel-Aviv
                        : 0 Max. :35162
## Max. :2013 Gush Dan
##
               Judea / Samaria:315
```r
summary(haifaData2013)
. . .
##
 YEARSUR
 WPLDIST
 INCSAL
Min. :2013 Jerusalem : 0 Min. : 0
1st Qu.:2013 North
 : 0 1st Qu.: 2086
Median :2013 Haifa
 :1668 Median : 5584
Mean :2013 Center
 : 0 Mean : 7129
3rd Qu.:2013 Tel-Aviv : 0 3rd Qu.: 9496
Max. :2013 Gush Dan : 0 Max. :39938
##
 Judea / Samaria: 0
. . .
summary(centerData2013)
##
 YEARSUR
 WPLDIST
 INCSAL
Min. :2013 Jerusalem
 : 0 Min. : 0
1st Qu.:2013 North
 : 0 1st Qu.: 2500
Median :2013 Haifa
 : 0 Median: 6024
Mean :2013 Center
 :3335 Mean : 8040
```

## Don't know how to automatically pick scale for object of type labelled/integer. Defaulting ## Don't know how to automatically pick scale for object of type labelled/integer. Defaulting

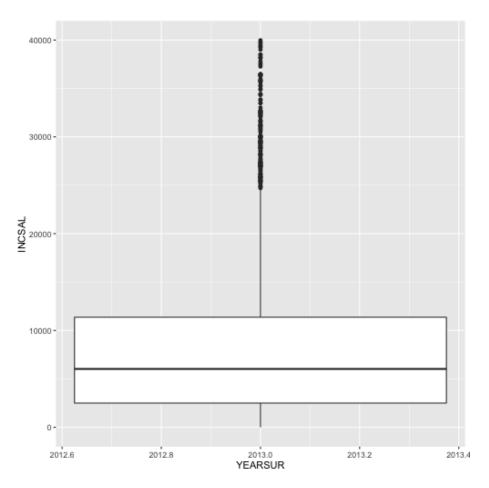


## Don't know how to automatically pick scale for object of type labelled/integer. Defaulting

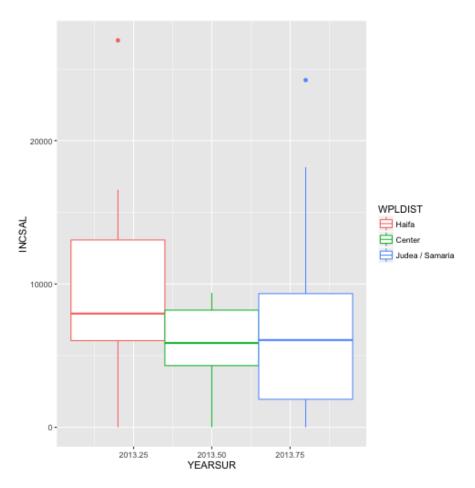




## Don't know how to automatically pick scale for object of type labelled/integer. Defaulting ## Don't know how to automatically pick scale for object of type labelled/integer. Defaulting



## Don't know how to automatically pick scale for object of type labelled/integer. Defaulting ## Don't know how to automatically pick scale for object of type labelled/integer. Defaulting



```
#
summary(test$INCSAL)
#
mean(test1$YEARSUR)
mean(test6$YEARSUR)
#
#
```