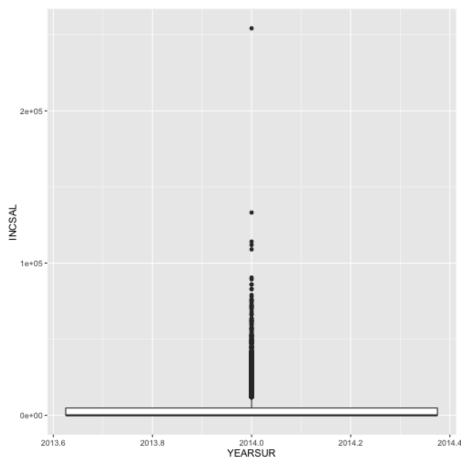
```
library(ggplot2)
library(foreign)
library(Hmisc)
## Loading required package: lattice
## Loading required package: survival
## Loading required package: Formula
## Attaching package: 'Hmisc'
## The following objects are masked from 'package:base':
##
##
       format.pval, round.POSIXt, trunc.POSIXt, units
library(reshape2)
library(dplyr)
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:Hmisc':
##
##
       combine, src, summarize
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
       intersect, setdiff, setequal, union
library(tidyr)
## Attaching package: 'tidyr'
## The following object is masked from 'package:reshape2':
##
##
       smiths
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>
## 2
       2014
                <NA>
## 3
       2014
             Center
                      5555
       2014 Gush Dan
## 4
                      8081
## 5
       2014 Tel-Aviv
                      6446
## 6
       2014 Tel-Aviv
                      3473
summary(subSetInd2014)
      YEARSUR
                                     INCSAL
##
                     WPLDIST
## Min. :2014
                Center : 3010 Min. :
## 1st Qu.:2014
                Tel-Aviv: 2551 1st Qu.:
## Median :2014
                North: 1766 Median:
## 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"
                                     ggplot(aes(y=INCSAL,
                                                x=YEARSUR
                                 data=subSetInd2014)+geom_boxplot()
```



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

Remove these to see the normal salaries more clearly.

```
# 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
 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,
50% of incomes are between 2084 and 9448 NIS.
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
Open new dataSet, Household Expenditure Survey 2013, in file f457.
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
```r
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)
. . .
                          WPLDIST
      YEARSUR
                                         INCSAL
## Min. :2013 Jerusalem :1300 Min. :
## 1st Qu.:2013 North
                              :1857 1st Qu.: 2468
## Median :2013 Haifa
                             :1668 Median : 5690
## Mean :2013 Center
                             :3335 Mean : 7319
                           :2987 3rd Qu.: 9837
## 3rd Qu.:2013 Tel-Aviv
## Max. :2013 Gush Dan
                              :1582 Max. :39967
##
                Judea / Samaria: 315
summary(judeaData2013)
. . .
      YEARSUR
                           WPLDIST
                                         INCSAL
## Min. :2013 Jerusalem : 0 Min. :
## 1st Qu.:2013 North
                               : 0 1st Qu.: 725
## Median :2013 Haifa
                              : 0 Median: 4899
## Mean :2013 Center
                             : 0 Mean : 5977
## 3rd Qu.:2013 Tel-Aviv
                             : 0 3rd Qu.: 8425
```

```
```r
summary(haifaData2013)
. . .
##
 YEARSUR
 WPLDIST
 INCSAL
Min. :2013 Jerusalem : 0 Min. :
1st Qu.:2013 North
 : 0 1st Qu.: 2086
 :1668 Median : 5584
Median :2013 Haifa
Mean :2013 Center
 : 0 Mean : 7129
3rd Qu.:2013 Tel-Aviv
 : 0 3rd Qu.: 9496
Max. :2013 Gush Dan :
 0
 Max. :39938
 Judea / Samaria:
##
summary(centerData2013)
 YEARSUR
 WPLDIST
 INCSAL
##
Min. :2013 Jerusalem : 0 Min. :
1st Qu.:2013 North
 : 0 1st Qu.: 2500
Median :2013 Haifa
 : 0 Median: 6024
Mean :2013 Center
 :3335 Mean : 8040
3rd Qu.:2013 Tel-Aviv
 : 0 3rd Qu.:11368
 : 0 Max.
Max. :2013 Gush Dan
 :39967
##
 Judea / Samaria: 0
ggplot(aes(y=INCSAL,
 x=YEARSUR),
 data=judeaData2013)+geom_boxplot()
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
```

## Max.

##

:2013

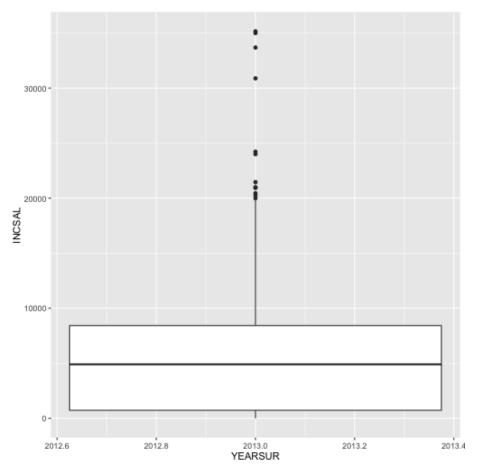
Gush Dan

Judea / Samaria:315

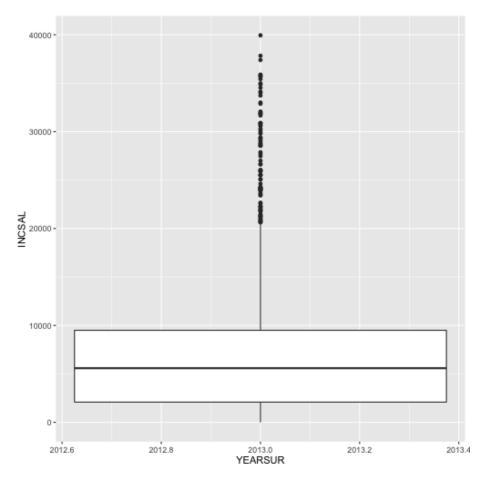
: 0

Max.

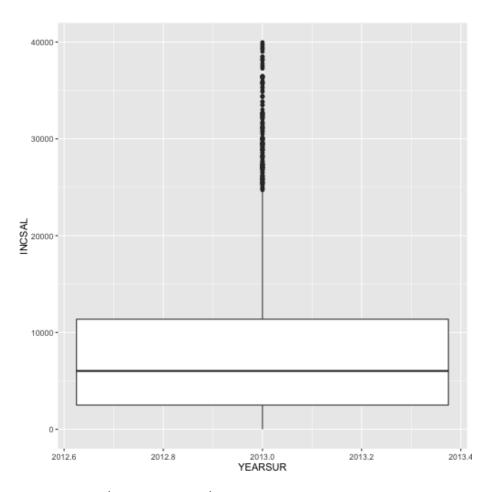
:35162



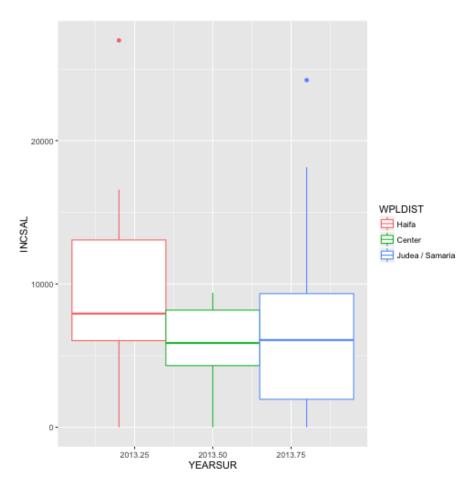
## Don't know how to automatically pick scale for object of type labelled/integer. Defaulting ## Don't know how to automatically pick scale for object of type labelled/integer. Defaulting



## 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)
#
#
```