FirstAttempt

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Friday, August 05, 2016

```
waistKeepVars <- c(</pre>
  "SEQN",
  "BMXWAIST" )
bodyMeasure2007 <- bodyMeasure2007[, waistKeepVars]</pre>
waistData <- merge(DEMO2007, bodyMeasure2007)</pre>
waistData <- subset(waistData, RIDSTATR %in% 2)</pre>
waistData<-transform(waistData, race=c( 3 , 3 , 1 , 2 , 4 )[RIDRETH1])</pre>
waistData$weightedTotal <- 1</pre>
# recode the RIDRETH1 variable as:
    # mexican american and other hispanic -> 3
    # non-hispanic white -> 1
    # non-hispanic black -> 2
    # other race including multi-racial -> 4
waistData<-transform(waistData, agecat=cut(RIDAGEYR,c(0,19,39,59, Inf)))</pre>
designC <- svydesign(id=~SDMVPSU,</pre>
strata=~SDMVSTRA,nest=TRUE,weights=~WTMEC2YR,data=waistData)
racegender3<-as.data.frame(svytable(~race+RIAGENDR,designC))</pre>
racegenderage3<-expand.grid(race=1:4,RIAGENDR=1:2,agecat=levels(waistData$agecat))</pre>
racegenderage3$Freq<- as.vector(outer(racegender3$Freq, popage/sum(popage)))</pre>
somedata5<-subset(waistData, !is.na(BMXWAIST) )</pre>
design5 <- svydesign(id=~SDMVPSU,</pre>
strata=~SDMVSTRA,nest=TRUE,weights=~WTMEC2YR,data=somedata5)
#AVERAGE WAIST CIRCUMFERENCE BY RACE AND GENDER
svyby(~BMXWAIST,~race+RIAGENDR,design=subset(postStratify(design5,~race+RIAGENDR+agecat,racegenderage3),RIDA
GEYR>=20),svymean,na.rm=TRUE)
```

```
##
      race RIAGENDR BMXWAIST
## 1.1
                  1 101.79962 0.4975653
         1
## 2.1
         2
                 1 98.08629 0.6994934
## 3.1
                1 100.66385 0.8588086
## 4.1
                 1 92.85033 1.4619712
## 1.2
                 2 94.33647 0.9016983
         1
## 2.2
                 2 100.27014 0.9861477
## 3.2
                 2 96.29276 0.7047820
         3
                 2 88.77544 1.6984473
## 4.2
```

```
#MERGE data sets
NHANES2007DATA<-merge(DEM02007,chol2007, All = TRUE)
NHANES2007DATA<-merge(NHANES2007DATA, Diet2007, All = TRUE)
NHANES2007DATA<-merge(NHANES2007DATA,cons2007, All = TRUE)
NHANES2007DATA<-merge(NHANES2007DATA,OCP E2007, All = TRUE)
NHANES2007DATA<-merge(NHANES2007DATA, health2007, All = TRUE)
NHANES2009DATA<-merge(DEM02009, chol2009, All = TRUE)
NHANES2009DATA<-merge(NHANES2009DATA, Diet2009, All = TRUE)
NHANES2009DATA<-merge(NHANES2009DATA,cons2009, All = TRUE)
NHANES2009DATA<-merge(NHANES2009DATA,OCP_F2009, All = TRUE)
NHANES2009DATA<-merge(NHANES2009DATA, health2009, All = TRUE)
mergedSET <- rbind(NHANES2009DATA, NHANES2007DATA)</pre>
mergedSET <-subset(mergedSET, RIDSTATR %in% 2 | RIDSTATR %in% 1)</pre>
mergedSET<-transform(mergedSET, HI_CHOL = ifelse(LBXTC>=240,1,0))
mergedSET<-transform(mergedSET, race=c( 3 , 3 , 1 , 2 , 4 )[RIDRETH1])</pre>
mergedSET$weightedTotal <- 1
mergedSET$WTMEC4YR <- mergedSET$WTMEC2YR / 2</pre>
mergedSET$WTINT4YR <- mergedSET$WTINT2YR / 2</pre>
# recode the RIDRETH1 variable as:
    # mexican american and other hispanic -> 3
    # non-hispanic white -> 1
    # non-hispanic black -> 2
    # other race including multi-racial -> 4
mergedSET<-transform(mergedSET, agecat=cut(RIDAGEYR,c(0,19,39,59, Inf)))</pre>
mergedSET$CBQ020[mergedSET$CBQ020== 77] <- NA</pre>
                                                #RECODE FOR DATA THAT CANT BE ANALYZED
mergedSET$CBQ020[mergedSET$CBQ020== 99] <- NA
mergedSET$CBQ030[mergedSET$CBQ030== 77] <- NA</pre>
mergedSET$CBQ030[mergedSET$CBQ030== 99] <- NA</pre>
mergedSET$CBQ040[mergedSET$CBQ040== 77] <- NA
mergedSET$CBQ040[mergedSET$CBQ040== 99] <- NA
mergedSET$CBQ060[mergedSET$CBQ060== 77] <- NA
mergedSET$CBQ060[mergedSET$CBQ060== 99] <- NA</pre>
mergedSET$DBQ700[mergedSET$DBQ700== 7] <- NA
mergedSET$DBQ700[mergedSET$DBQ700== 9] <- NA
mergedSET$DBD895[mergedSET$DBD895== 5555] <- NA</pre>
mergedSET$DBD895[mergedSET$DBD895== 9999] <- NA</pre>
mergedSET$HSD010[mergedSET$HSD010== 9] <- NA
mergedSET$CBD160[mergedSET$CBD160 == 777] <- NA
mergedSET$CBD160[mergedSET$CBD160 == 999] <- NA
mergedSET$CBD160[mergedSET$CBD160 > 7] <- NA
```

NHANES2009DATA<-subset(NHANES2009DATA, RIDSTATR %in% 2)

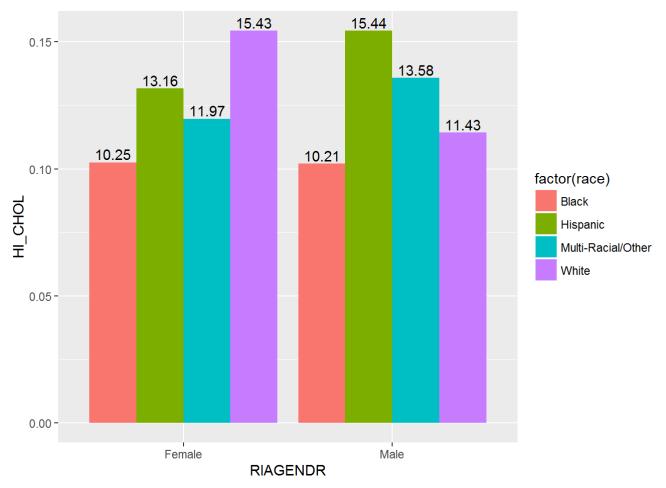
```
NHANES2009DATA<-transform(NHANES2009DATA, HI_CHOL = ifelse(LBXTC>=240,1,0))
NHANES2009DATA<-transform(NHANES2009DATA, race=c( 3 , 3 , 1 , 2 , 4 )[RIDRETH1])
NHANES2009DATA$weightedTotal <- 1
# recode the RIDRETH1 variable as:
    # mexican american and other hispanic -> 3
# non-hispanic white -> 1
# non-hispanic black -> 2
# other race including multi-racial -> 4

NHANES2009DATA<-transform(NHANES2009DATA, agecat=cut(RIDAGEYR,c(0,19,39,59, Inf)))
```

ALL RECODING DONE, BUILD MODELS

```
designA <- svydesign(id=~SDMVPSU,</pre>
strata=~SDMVSTRA,nest=TRUE,weights=~WTMEC2YR,data=NHANES2009DATA)
designB <- svydesign(id=~SDMVPSU,</pre>
strata=~SDMVSTRA, nest=TRUE, weights=~WTINT4YR, data=mergedSET)
popage<-c(55901,77670,72816,45364)
racegender<-as.data.frame(svytable(~race+RIAGENDR,designA))</pre>
racegenderage<-expand.grid(race=1:4,RIAGENDR=1:2,agecat=levels(NHANES2009DATA$agecat))</pre>
racegenderage$Freq<- as.vector(outer(racegender$Freq, popage/sum(popage)))</pre>
racegender2<-as.data.frame(svytable(~race+RIAGENDR,designB))</pre>
racegenderage2<-expand.grid(race=1:4,RIAGENDR=1:2,agecat=levels(mergedSET$agecat))</pre>
racegenderage2$Freq<- as.vector(outer(racegender$Freq, popage/sum(popage)))
####REPLACE AND REWEIGHT NA
somedata<-subset(NHANES2009DATA, !is.na(LBXTC) )</pre>
somedata2 <- subset(mergedSET, !is.na(DBQ700) & !is.na(DBD895) & !is.na(DBD900))</pre>
somedata3 <- subset(mergedSET, !is.na(CBQ020) & !is.na(CBQ030) & !is.na(CBQ040) & !is.na(CBQ060) & !is.na(CB
D160))
somedata4 <- subset(mergedSET, !is.na(HSD010))</pre>
design1 <- svydesign(id=~SDMVPSU,</pre>
strata=~SDMVSTRA, nest=TRUE, weights=~WTMEC2YR, data=somedata)
design2 <- svydesign(id=~SDMVPSU,</pre>
strata=~SDMVSTRA,nest=TRUE,weights=~WTINT4YR,data=somedata2)
design3 <- svydesign(id=~SDMVPSU,</pre>
strata=~SDMVSTRA,nest=TRUE,weights=~WTINT4YR,data=somedata3)
design4 <- svydesign(id=~SDMVPSU,</pre>
strata=~SDMVSTRA,nest=TRUE,weights=~WTINT4YR,data=somedata4)
cholEX <- svyby(~HI_CHOL,~race+RIAGENDR,design=subset(postStratify(design1,~race+RIAGENDR+agecat,racegendera</pre>
ge),RIDAGEYR>=20),svymean,na.rm=TRUE)
cholEX$race <- c("White", "Black", "Hispanic", "Multi-Racial/Other", "White", "Black", "Hispanic", "Multi-Ra
cial/Other")
cholEX$RIAGENDR <- c("Male", "Male", "Male", "Female", "Female", "Female", "Female")</pre>
cholEX$HI CHOLP <- round(cholEX$HI CHOL, 4)*100
# recode the RIDRETH1 variable as:
    # mexican american and other hispanic -> 3
    # non-hispanic white -> 1
    # non-hispanic black -> 2
    # other race including multi-racial -> 4
```

```
ggplot(cholEX, aes(x=RIAGENDR, y=HI_CHOL, fill=factor(race)))+
  geom_bar(position="dodge", stat="identity") + geom_text(aes(label=HI_CHOLP),
position=position_dodge(width=0.9), vjust=-0.25)
```



```
#ABOVE CHART Corresponds to http://www.cdc.gov/nchs/data/databriefs/db92_fig1.png

teachersD1 <- subset(postStratify(design1,~race+RIAGENDR+agecat,racegenderage),RIDAGEYR>=20 & OCD231 == 15 &
    OCD241 == 8)

teachersD2 <- subset(postStratify(design2,~race+RIAGENDR+agecat,racegenderage2),RIDAGEYR>=20 & OCD231 == 15
& OCD241 == 8)

teachersD3 <- subset(postStratify(design3,~race+RIAGENDR+agecat,racegenderage2),RIDAGEYR>=20 & OCD231 == 15
& OCD241 == 8)

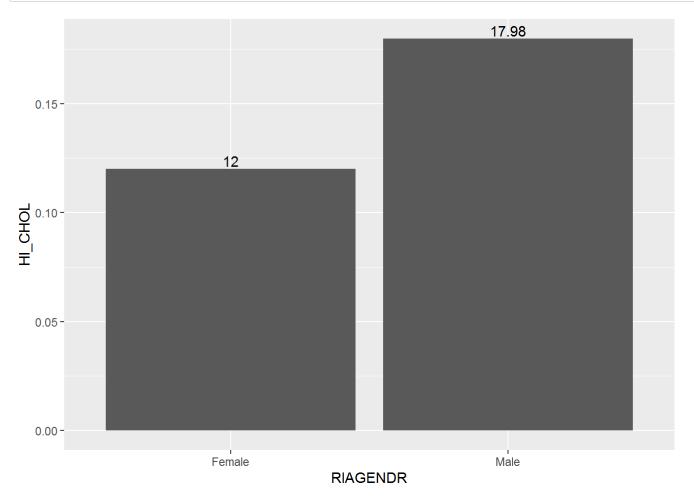
teachersD4 <- subset(postStratify(design4,~race+RIAGENDR+agecat,racegenderage2),RIDAGEYR>=20 & OCD231 == 15
& OCD241 == 8)

#NOTE that this is 1 year data N = 134 for teachers
teachcholEX <- svyby(~HI_CHOL,~RIAGENDR,design= teachersD1,svymean,na.rm=TRUE)
teachcholEX</pre>
```

```
cholCompare <- svyby(~HI_CHOL,~RIAGENDR,design= subset(postStratify(design1,~race+RIAGENDR+agecat,racegender
age),RIDAGEYR>=20),svymean,na.rm=TRUE)
#Compared to NHANES2009
cholCompare
```

```
## RIAGENDR HI_CHOL se
## 1 1 0.1204007 0.008613865
## 2 2 0.1422642 0.007895680
```

```
teachcholEX$RIAGENDR <- c("Male", "Female")
teachcholEX$HI_CHOLP <- round(teachcholEX$HI_CHOL, 4)*100
# recode the RIDRETH1 variable as:
    # mexican american and other hispanic -> 3
    # non-hispanic white -> 1
    # non-hispanic black -> 2
    # other race including multi-racial -> 4
ggplot(teachcholEX, aes(x=RIAGENDR, y=HI_CHOL))+
    geom_bar(position="dodge", stat="identity") + geom_text(aes(label=HI_CHOLP),
position=position_dodge(width=0.9), vjust=-0.25)
```



Number of Meals not prepared at home N = 244
teachMeanMeals <- svyby(~DBD895,~RIAGENDR,design= teachersD2,svymean,na.rm=TRUE)
meanMeals <- svyby(~DBD895,~RIAGENDR,design= subset(postStratify(design2,~race+RIAGENDR+agecat,racegenderage
2),RIDAGEYR>=20),svymean,na.rm=TRUE)
teachMeanMeals

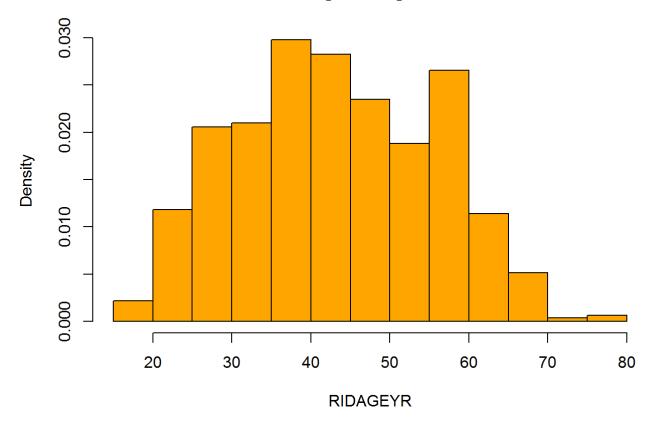
```
## RIAGENDR DBD895 se
## 1 1 5.492258 0.5886663
## 2 2 3.822003 0.2884262
```

meanMeals

```
## RIAGENDR DBD895 se
## 1 1 5.210445 0.09475403
## 2 2 3.847865 0.05515648
```

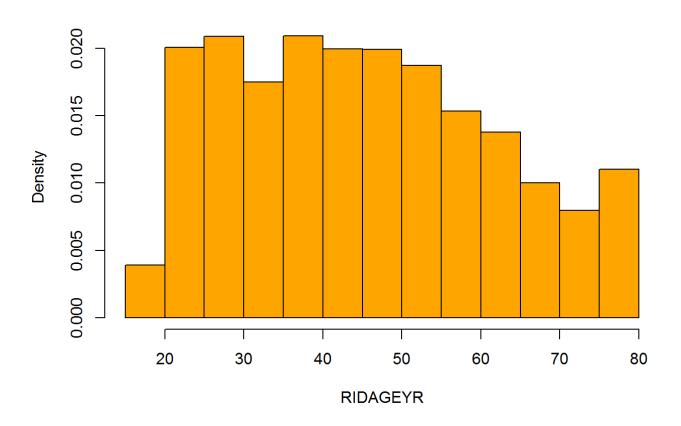
svyhist(~RIDAGEYR, teachersD3, main="Teacher Weighted Age Distribution",col="orange")





 $svyhist(\sim RIDAGEYR, subset(postStratify(design2, \sim race+RIAGENDR+agecat, racegenderage2), RIDAGEYR>=20) \ , \ main="Weighted Age Distribution", col="orange")$

Weighted Age Distribution



```
# Number of Meals from a fastfood place a week N = 244
teachFastMeals <- svyby(~DBD900,~RIAGENDR,design= teachersD2,svymean,na.rm=TRUE)
fastMeals <- svyby(~DBD900,~RIAGENDR,design= subset(postStratify(design2,~race+RIAGENDR+agecat,racegenderage
2),RIDAGEYR>=20),svymean,na.rm=TRUE)
teachFastMeals
```

```
## RIAGENDR DBD900 se
## 1 1 2.104578 0.4871250
## 2 2 1.452956 0.1813128
```

fastMeals

```
## RIAGENDR DBD900 se
## 1 1 2.882372 0.5376737
## 2 2 1.646069 0.0460875
```

```
#Number of times someone cooked dinner at home N = 275
teachDinMeals <- svyby(~CBD160, ~RIAGENDR, design = teachersD3, svymean, na.rm = TRUE)
dinMeals <- svyby(~CBD160, ~RIAGENDR, design = subset(postStratify(design3,~race+RIAGENDR+agecat,racegendera
ge2),RIDAGEYR>=20) , svymean, na.rm = TRUE)
teachDinMeals
```

```
## RIAGENDR CBD160 se
## 1 1 4.454629 0.2607462
## 2 2 4.887924 0.1823839
```

dinMeals

```
## RIAGENDR CBD160 se
## 1 1 4.981150 0.05082986
## 2 2 5.070996 0.05130068
```

```
teacherChart <- svyby(~weightedTotal, ~CBD160, design = teacherSD3 , svytotal, na.rm = TRUE)
teacherChart$FREQ <- (teacherChart$weightedTotal / sum(teacherChart$weightedTotal)) * 100
teacherChart$test <- "Teachers(N= 275)"

weirdChart <- svyby(~weightedTotal, ~CBD160, design = subset(postStratify(design3,~race+RIAGENDR+agecat,race
genderage2),RIDAGEYR>=20) , svytotal, na.rm = TRUE)
weirdChart$FREQ <- (weirdChart$weightedTotal / sum(weirdChart$weightedTotal)) * 100
weirdChart$test <- "Overall(N= 11,638)"

#HOW OFTEN IS FRUIT AVAILABLE(weighted teachers, weighted pop, unwtd teach ct), N = 275
teachfruitQ <- svyby(~weightedTotal,~CBQ020,design= teachersD3,svytotal,na.rm=TRUE)
teachfruitQ$FREQ <- (teachfruitQ$weightedTotal / sum(teachfruitQ$weightedTotal)) * 100

fruitQ <- svyby(~weightedTotal,~CBQ020,design=subset(postStratify(design3,~race+RIAGENDR+agecat,racegenderag
e2),RIDAGEYR>=20),svytotal,na.rm=TRUE)####MUST be older than 20
fruitQ$FREQ <- (fruitQ$weightedTotal / sum(fruitQ$weightedTotal)) * 100

svyby(~weightedTotal,~CBQ020,design=subset(postStratify(design3,~race+RIAGENDR+agecat,racegenderage2),RIDAGE
YR>=20),unwtd.count,na.rm=TRUE)####MUST be older than 20
```

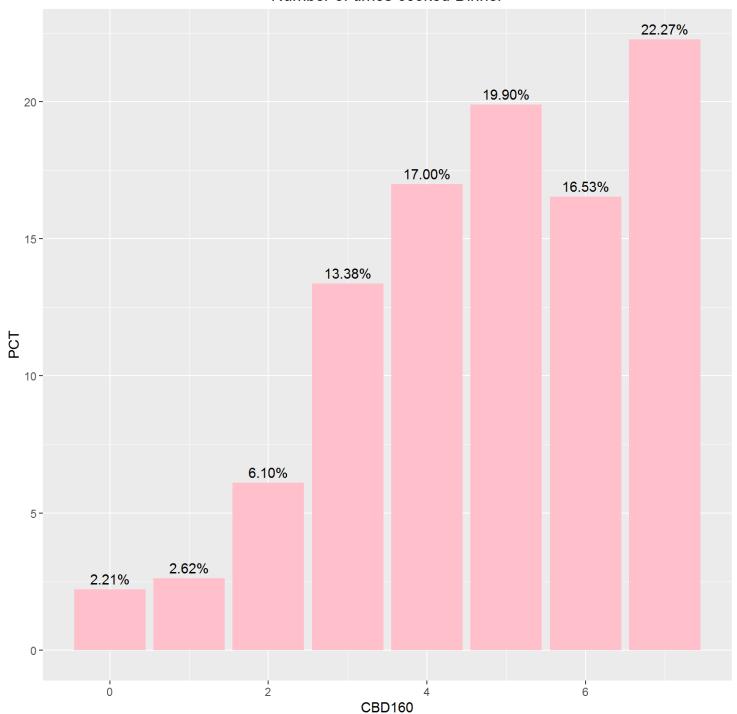
```
##
    CBQ020 counts se
            7695 0
## 1
         1
## 2
         2
           2223 0
## 3
         3
           1290 0
## 4
         4
             329 0
## 5
         5
              75 0
```

svyby(~weightedTotal,~CBQ020,design= teachersD3,unwtd.count,na.rm=TRUE)

```
teachvegQ <- svyby(~weightedTotal,~CBQ030,design= teachersD3,svytotal,na.rm=TRUE)</pre>
teachvegQ$FREQ <- (teachvegQ$weightedTotal / sum(teachvegQ$weightedTotal)) * 100</pre>
vegQ <-
svyby(~weightedTotal,~CBQ030,design=subset(postStratify(design3,~race+RIAGENDR+agecat,racegenderage2),RIDAGE
YR>=20), svytotal, na.rm=TRUE) ####MUST be older than 20
vegQ$FREQ <- (vegQ$weightedTotal / sum(vegQ$weightedTotal)) * 100</pre>
teachsaltQ <- svyby(~weightedTotal,~CBQ040,design= teachersD3,svytotal,na.rm=TRUE)</pre>
teachsaltQ$FREQ <- (teachsaltQ$weightedTotal / sum(teachsaltQ$weightedTotal)) * 100</pre>
saltQ <- svyby(~weightedTotal,~CBQ040,design=subset(postStratify(design3,~race+RIAGENDR+agecat,racegenderage</pre>
2),RIDAGEYR>=20),svytotal,na.rm=TRUE)####MUST be older than 20
saltQ$FREQ <- (saltQ$weightedTotal / sum(saltQ$weightedTotal)) * 100</pre>
teachsoftQ <- svyby(~weightedTotal,~CBQ060,design= teachersD3,svytotal,na.rm=TRUE)</pre>
teachsoftQ$FREQ <- (teachsoftQ$weightedTotal / sum(teachsoftQ$weightedTotal)) * 100</pre>
softQ <- svyby(~weightedTotal,~CBQ060,design=subset(postStratify(design3,~race+RIAGENDR+agecat,racegenderage</pre>
2),RIDAGEYR>=20),svytotal,na.rm=TRUE)####MUST be older than 20
softQ$FREQ <- (softQ$weightedTotal / sum(softQ$weightedTotal)) * 100</pre>
teachDBQ <- svyby(~weightedTotal,~DBQ700,design= teachersD2,svytotal,na.rm=TRUE)</pre>
teachDBQ$FREQ <- (teachDBQ$weightedTotal / sum(teachDBQ$weightedTotal)) * 100</pre>
DBQ <-
svyby (\verb|-weightedTotal|, \verb|-DBQ700|, design=subset|), RIDAGE | (bostStratify(design2|, \verb|-race+RIAGENDR+|), RIDAGENDR+|), RIDAGENDR+| (bostStratify(desig
YR>=20),svytotal,na.rm=TRUE)####MUST be older than 20
DBQ$FREQ <- (DBQ$weightedTotal / sum(DBQ$weightedTotal)) * 100</pre>
###N = 250 for gen health
teachGenHealth <- svyby(~weightedTotal,~HSD010,design= teachersD4,svytotal,na.rm=TRUE)</pre>
teachGenHealth$FREQ <- (teachGenHealth$weightedTotal / sum(teachGenHealth$weightedTotal)) * 100</pre>
genHealth <-svyby(~weightedTotal,~HSD010,design= subset(postStratify(design4,~race+RIAGENDR+agecat,racegende</pre>
rage2),RIDAGEYR>=20),svytotal,na.rm=TRUE)
genHealth$FREQ <- (genHealth$weightedTotal / sum(genHealth$weightedTotal)) * 100</pre>
```

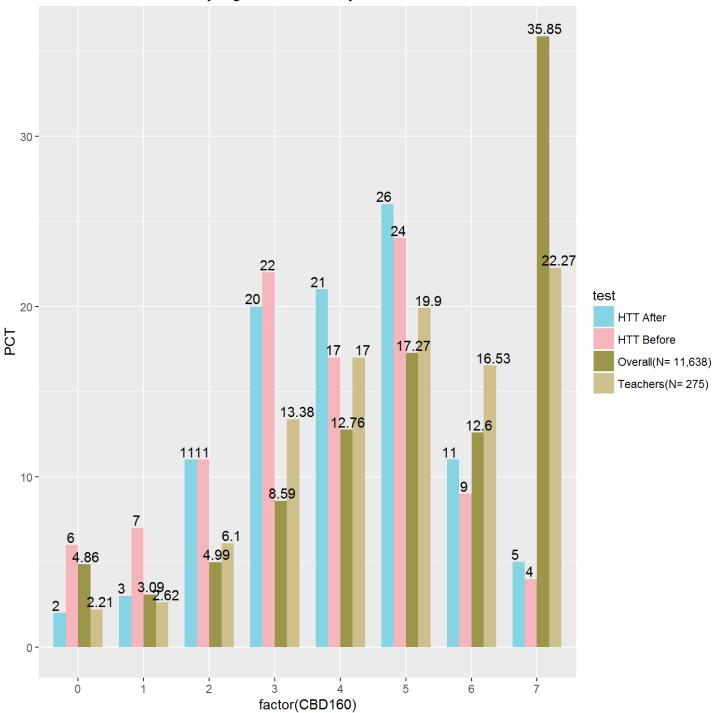
```
ggplot(teacherChart, aes(x=CBD160, y = FREQ)) + geom_bar(stat="identity" , fill = "pink")+
  geom_text(aes(label = sprintf("%.2f%%", FREQ)), vjust = -.5)+ labs(title = "Number of times cooked
Dinner", y = "PCT")
```





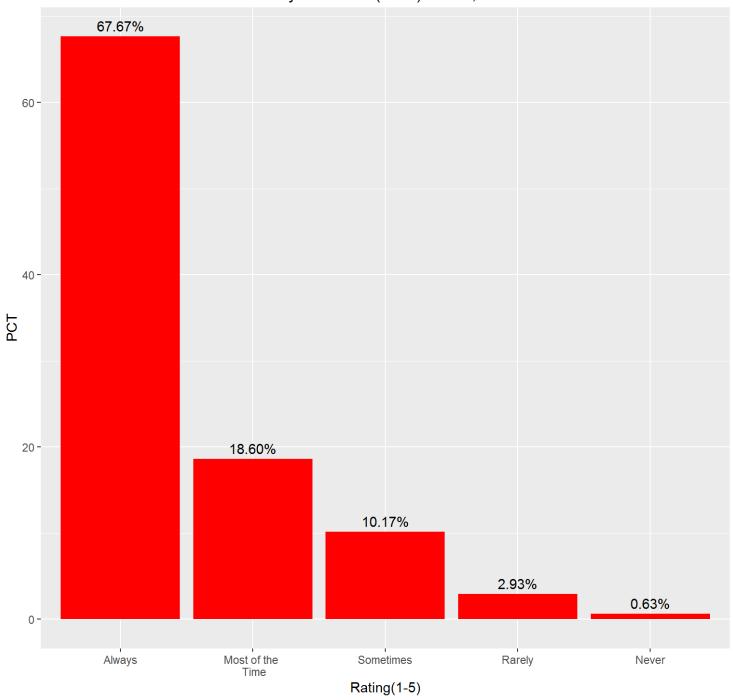
```
newChart <- rbind(weirdChart, teacherChart)</pre>
\label{eq:condition} \texttt{newChart$CBD160} \leftarrow \texttt{c("0", "1","2", "3", "4" , "5", "6", "7" , "0", "1", "2", "3", "4" , "5", "6", "7")}
positions <- c("1","2", "3", "4" , "5", "6", "7")
CBD160 = c("0", "1","2", "3", "4", "5", "6", "7", "0", "1","2", "3", "4", "5", "6", "7")
FREQ = c(6, 7, 11, 22, 17, 24, 9, 4, 2, 3, 11, 20, 21, 26, 11, 5)
test = c("HTT Before", "HTT Before", "HTT Before", "HTT Before", "HTT Before", "HTT Before", "HTT Before",
"HTT Before", "HTT After", "HTT After", "HTT After", "HTT After", "HTT After", "HTT After", "HTT After",
"HTT After")
df3 = data.frame(CBD160, test, FREQ)
df3$se <- NA
df3$weightedTotal <- NA
newDB4 <- rbind(df3 , newChart)</pre>
positions <- c("0", "1","2", "3", "4", "5", "6", "7")
ggplot(newDB4, aes(factor(CBD160), FREQ, fill = test, width = 0.75 )) +
  geom_bar(width= 1, stat="identity", position = "dodge" ) +labs(title = "How many nights a week do you coo
k dinner? ", y = "PCT")+ scale_x_discrete(limits = positions) + geom_text(aes(label=round(FREQ , 2)), positi
on=position_dodge(width=0.9), vjust=-0.25) + scale_fill_manual(values=wes_palette(n=4, name="Moonrise3"))
```





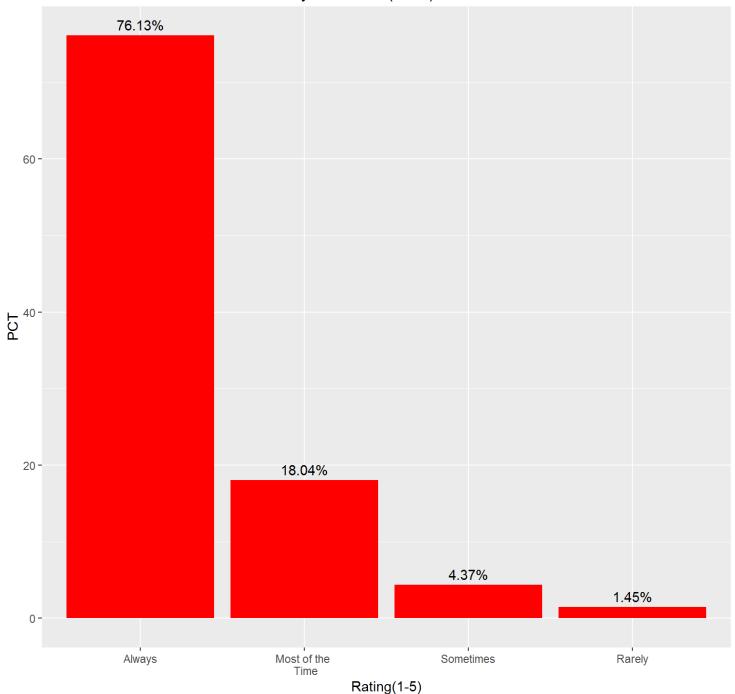
```
fruitQ$CBQ020 <- c("Always","Most of the \n Time", "Sometimes", "Rarely" , "Never")
fruitQ$test <- "Overall(N= 11, 638)"
positions <- c("Always","Most of the \n Time", "Sometimes", "Rarely" , "Never")
ggplot(fruitQ, aes(x=CBQ020, y = FREQ)) + geom_bar(stat="identity" , fill = "red")+
    geom_text(aes(label = sprintf("%.2f%", FREQ), vjust = -.5))+ labs(title = "How often do you have fruits
\n in your home?(Total) N= 11,638", x = "Rating(1-5)", y = "PCT")+ scale_x_discrete(limits = positions)</pre>
```

How often do you have fruits in your home?(Total) N= 11,638



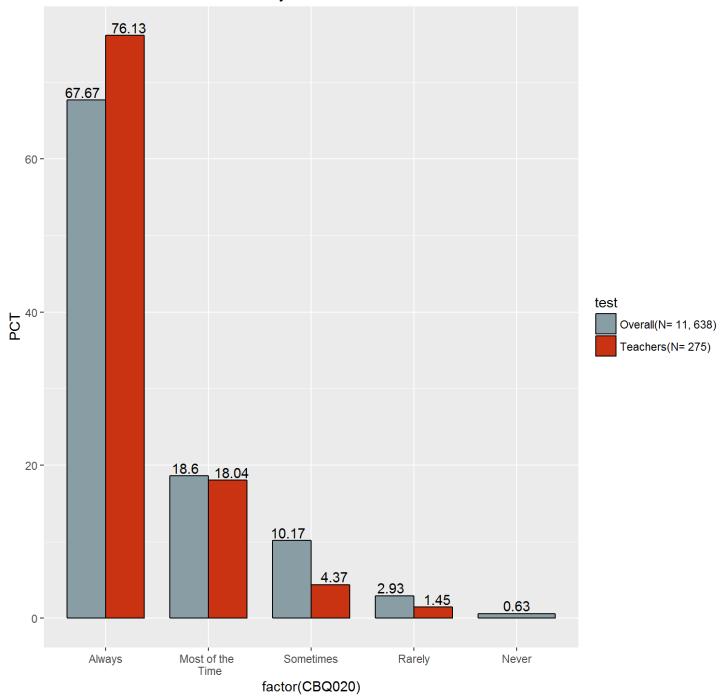
```
teachfruitQ$CBQ020 <- c("Always","Most of the \n Time", "Sometimes", "Rarely")
teachfruitQ$test <- "Teachers(N= 275)"
positions <- c("Always","Most of the \n Time", "Sometimes", "Rarely")
ggplot(teachfruitQ, aes(x=CBQ020, y = FREQ)) + geom_bar(stat="identity", fill = "red")+
    geom_text(aes(label = sprintf("%.2f%%", FREQ), vjust = -.5))+ labs(title = "How often do you have fruits
\n in your home?(Total) N= 275", x = "Rating(1-5)", y = "PCT")+ scale_x_discrete(limits = positions)</pre>
```

How often do you have fruits in your home?(Total) N= 275



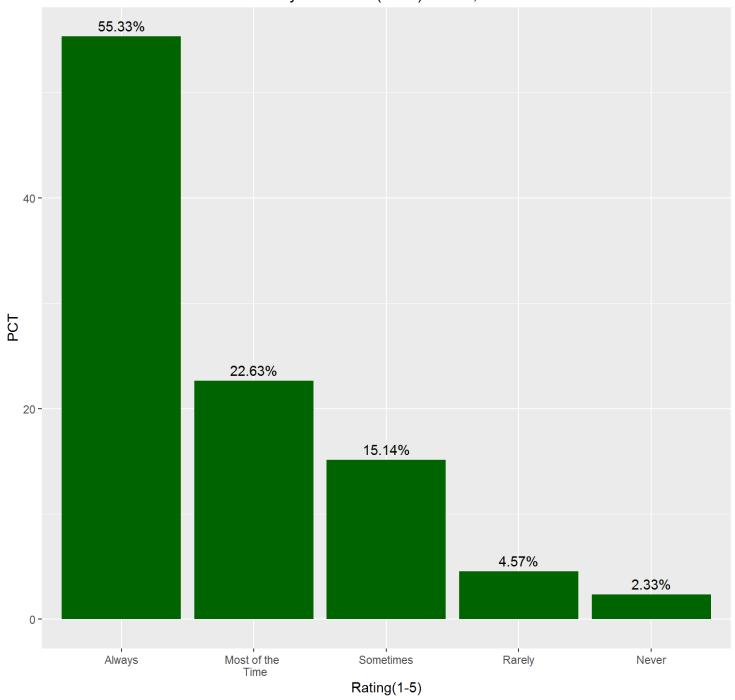
```
graphCombine5 <- rbind(fruitQ, teachfruitQ)
positions <- c("Always","Most of the \n Time", "Sometimes", "Rarely", "Never")
ggplot(graphCombine5, aes(factor(CBQ020), FREQ, fill = test, width = 0.75)) +
   geom_bar(stat="identity", position = "dodge", colour = "black") +labs(title = "How often do you have fruit
s \n in your home?", y = "PCT")+ scale_x_discrete(limits = positions) + geom_text(aes(label=round(FREQ,
2)), position=position_dodge(width=0.9), vjust=-0.25) + scale_fill_manual(values=wes_palette(n=3, name="Roya
l1"))</pre>
```

How often do you have fruits in your home?



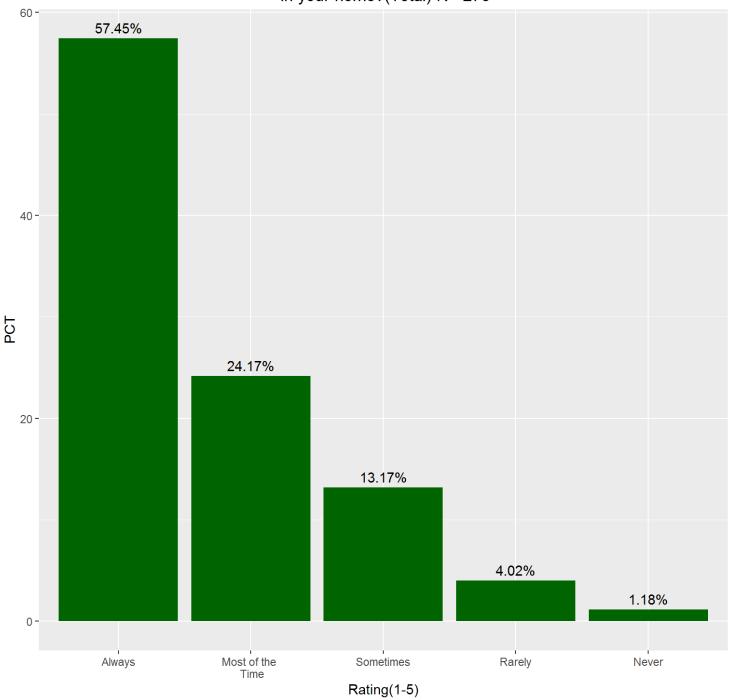
```
vegQ$CBQ030 <- c("Always","Most of the \n Time", "Sometimes", "Rarely" , "Never")
vegQ$test <- "Overall(N = 11,638)"
positions <- c("Always","Most of the \n Time", "Sometimes", "Rarely" , "Never")
ggplot(vegQ, aes(x=CBQ030, y = FREQ)) + geom_bar(stat="identity" , fill = "dark green")+
    geom_text(aes(label = sprintf("%.2f%%", FREQ)), vjust = -.5)+ labs(title = "How often do you have dark green vegetables \n in your home?(Total) N= 11,638", x = "Rating(1-5)", y = "PCT")+ scale_x_discrete(limits = p ositions)</pre>
```

How often do you have dark green vegetables in your home?(Total) N= 11,638



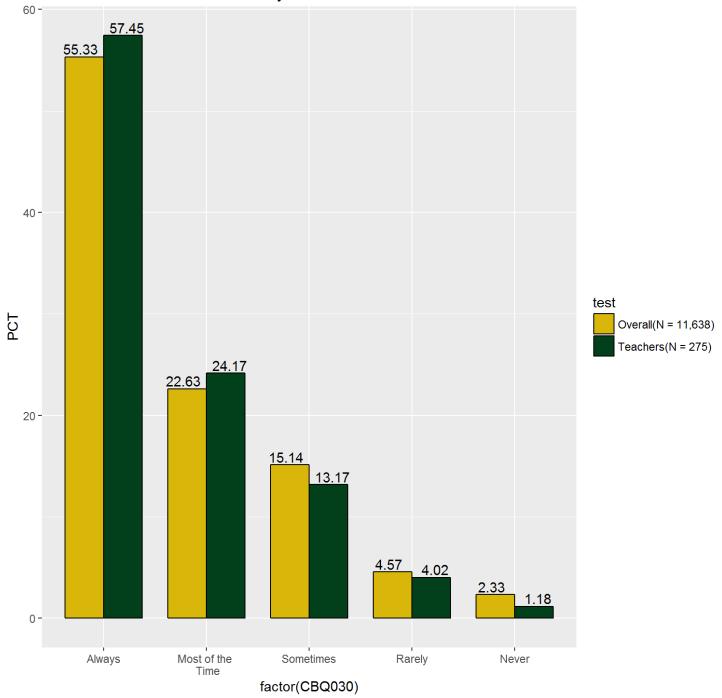
```
teachvegQ$CBQ030 <- c("Always","Most of the \n Time", "Sometimes", "Rarely" , "Never")
teachvegQ$test <- "Teachers(N = 275)"
positions <- c("Always","Most of the \n Time", "Sometimes", "Rarely" , "Never")
ggplot(teachvegQ, aes(x=CBQ030, y = FREQ)) + geom_bar(stat="identity" , fill = "dark green")+
    geom_text(aes(label = sprintf("%.2f%%", FREQ)), vjust = -.5)+ labs(title = "How often do you have dark green vegetables \n in your home?(Total) N= 275", x = "Rating(1-5)", y = "PCT")+ scale_x_discrete(limits = positions)</pre>
```

How often do you have dark green vegetables in your home?(Total) N= 275



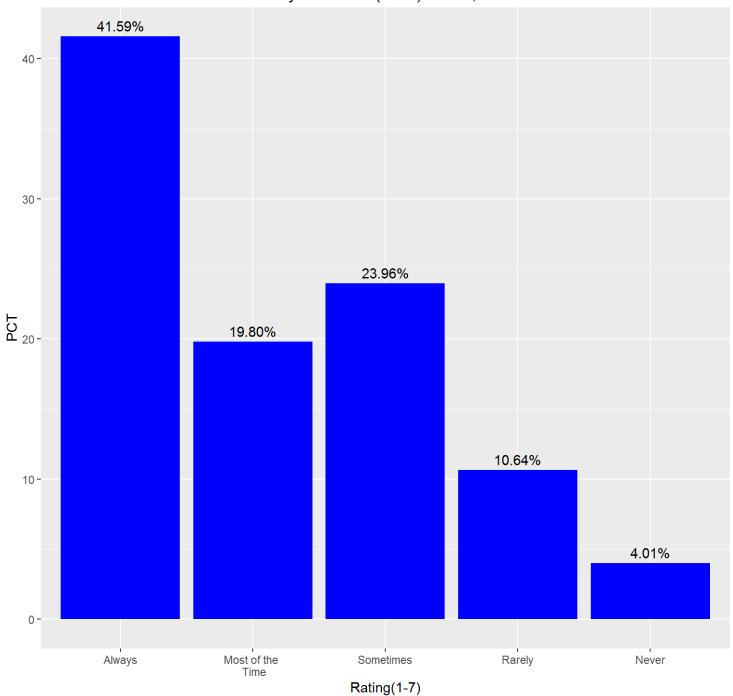
```
graphCombine4 <- rbind(vegQ, teachvegQ)
positions <- c("Always","Most of the \n Time", "Sometimes", "Rarely", "Never")
ggplot(graphCombine4, aes(factor(CBQ030), FREQ, fill = test, width = 0.75)) +
   geom_bar(stat="identity", position = "dodge", colour = "black") +labs(title = "How often do you have dark
   green vegetables \n in your home?", y = "PCT")+ scale_x_discrete(limits = positions) +
   geom_text(aes(label=round(FREQ , 2)), position=position_dodge(width=0.9), vjust=-0.25) + scale_fill_manual(v
   alues=wes_palette(n=3, name="Cavalcanti"))</pre>
```

How often do you have dark green vegetables in your home?



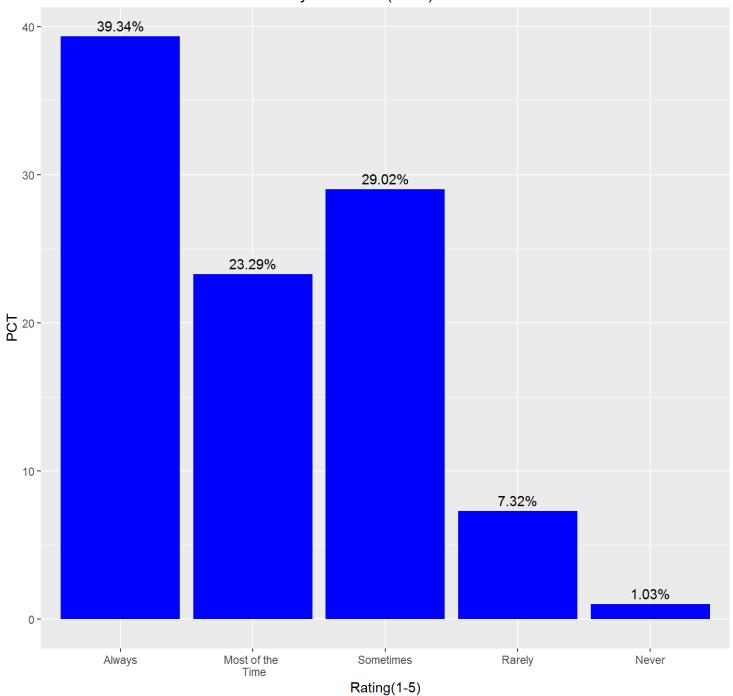
```
saltQ$CBQ040<- c("Always","Most of the \n Time", "Sometimes", "Rarely" , "Never")
saltQ$test <- "Overall(N = 11, 638)"
positions <- c("Always","Most of the \n Time", "Sometimes", "Rarely" , "Never")
ggplot(saltQ, aes(x=CBQ040, y = FREQ)) + geom_bar(stat="identity" , fill = "blue")+
    geom_text(aes(label = sprintf("%.2f%%", FREQ)), vjust = -.5)+ labs(title = "How often do you have salty sn
acks(chips/crackers) \n in your home?(Total) N= 11,638", x = "Rating(1-7)", y = "PCT")+ scale_x_discrete(lim its = positions)</pre>
```

How often do you have salty snacks(chips/crackers) in your home?(Total) N= 11,638



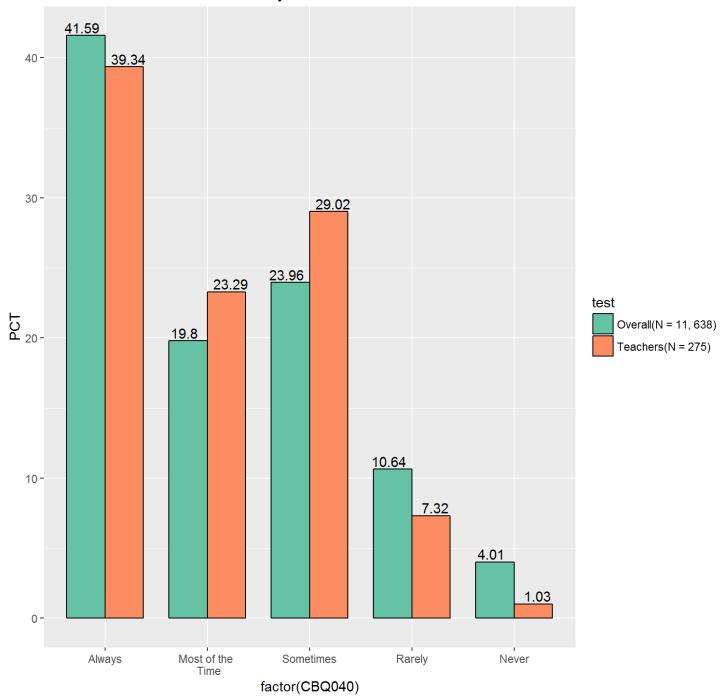
```
teachsaltQ$CBQ040<- c("Always","Most of the \n Time", "Sometimes", "Rarely" , "Never")
teachsaltQ$test <- "Teachers(N = 275)"
positions <- c("Always","Most of the \n Time", "Sometimes", "Rarely" , "Never")
ggplot(teachsaltQ, aes(x=CBQ040, y = FREQ)) + geom_bar(stat="identity" , fill = "blue")+
    geom_text(aes(label = sprintf("%.2f%%", FREQ)), vjust = -.5)+ labs(title = "How often do you have salty sn
acks(chips/crackers) \n in your home?(Total) N= 275", x = "Rating(1-5)", y = "PCT")+ scale_x_discrete(limits = positions)</pre>
```

How often do you have salty snacks(chips/crackers) in your home?(Total) N= 275



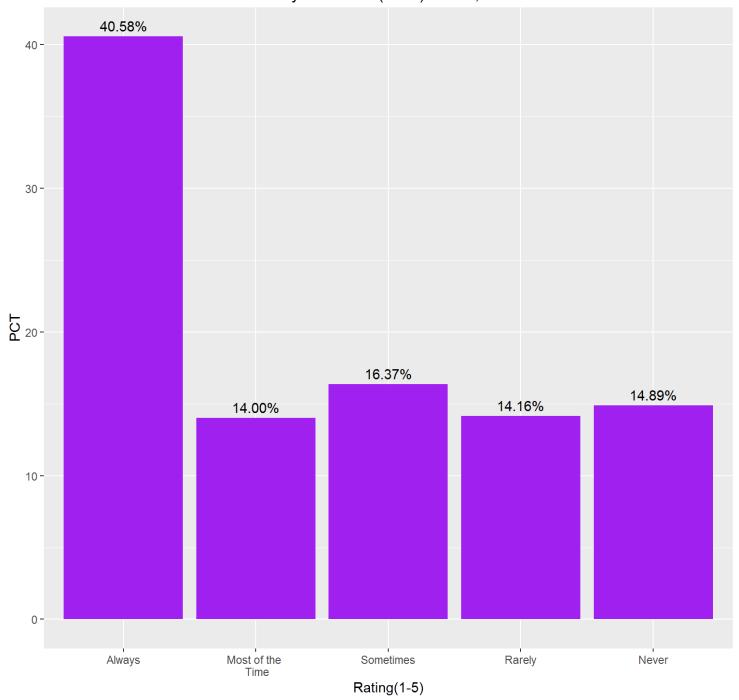
```
graphCombine3 <- rbind(saltQ, teachsaltQ)
positions <- c("Always","Most of the \n Time", "Sometimes", "Rarely" , "Never")
ggplot(graphCombine3, aes(factor(CBQ040), FREQ, fill = test, width = 0.75)) +
   geom_bar(stat="identity", position = "dodge", colour = "black") +labs(title = "How often do you have salty snacks(chips/crackers) \n in your home?", y = "PCT")+ scale_x_discrete(limits = positions) +
geom_text(aes(label=round(FREQ , 2)), position=position_dodge(width=0.9), vjust=-0.25) + scale_fill_brewer(p alette='Set2')</pre>
```

How often do you have salty snacks(chips/crackers) in your home?



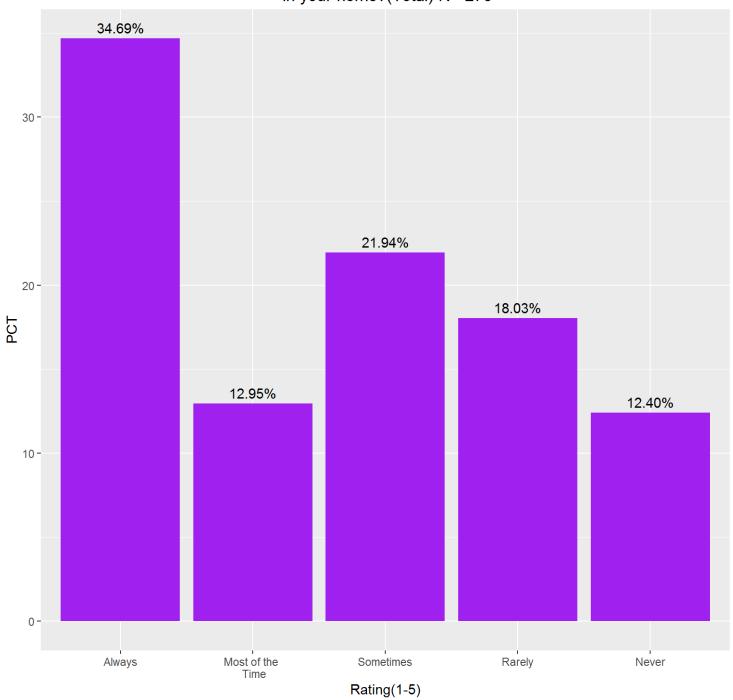
```
softQ$CBQ060<- c("Always","Most of the \n Time", "Sometimes", "Rarely" , "Never")
softQ$test <- "Overall(N = 11, 638)"
positions <- c("Always","Most of the \n Time", "Sometimes", "Rarely" , "Never")
ggplot(softQ, aes(x=CBQ060, y = FREQ)) + geom_bar(stat="identity" , fill = "purple")+
    geom_text(aes(label = sprintf("%.2f%", FREQ)), vjust = -.5)+ labs(title = "How often do you have soft dri
nks \n in your home?(Total) N= 11,638", x = "Rating(1-5)", y = "PCT")+ scale_x_discrete(limits = positions)</pre>
```

How often do you have soft drinks in your home?(Total) N= 11,638



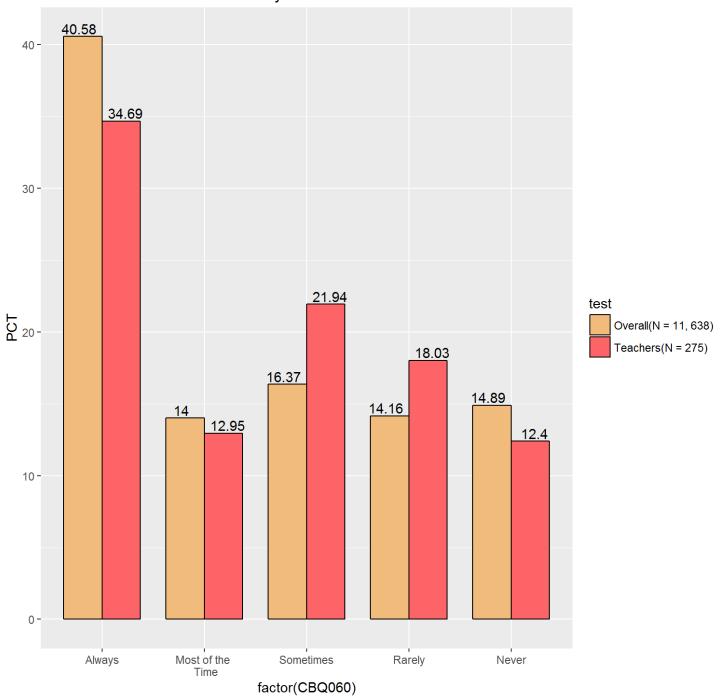
```
teachsoftQ$CBQ060<- c("Always","Most of the \n Time", "Sometimes", "Rarely" , "Never")
teachsoftQ$test <- "Teachers(N = 275)"
positions <- c("Always","Most of the \n Time", "Sometimes", "Rarely" , "Never")
ggplot(teachsoftQ, aes(x=CBQ060, y = FREQ)) + geom_bar(stat="identity" , fill = "purple")+
    geom_text(aes(label = sprintf("%.2f%%", FREQ)), vjust = -.5)+ labs(title = "How often do you have soft dri
nks \n in your home?(Total) N= 275", x = "Rating(1-5)", y = "PCT")+ scale_x_discrete(limits = positions)</pre>
```

How often do you have soft drinks in your home?(Total) N= 275



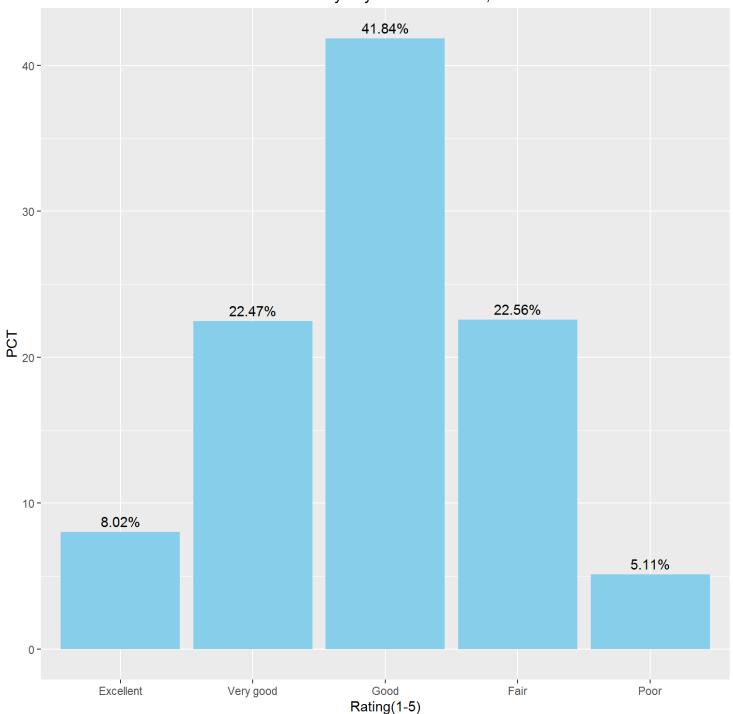
```
graphCombine2 <- rbind(softQ, teachsoftQ)
positions <- c("Always","Most of the \n Time", "Sometimes", "Rarely" , "Never")
ggplot(graphCombine2, aes(factor(CBQ060), FREQ, fill = test, width = 0.75)) +
   geom_bar(stat="identity", position = "dodge", colour = "black") +labs(title = "How often do you have soft drinks \n in your home?", y = "PCT")+ scale_x_discrete(limits = positions) + geom_text(aes(label=round(FREQ, 2)), position=position_dodge(width=0.9), vjust=-0.25) + scale_fill_manual(values=wes_palette(n=3, name="GrandBudapest"))</pre>
```

How often do you have soft drinks in your home?



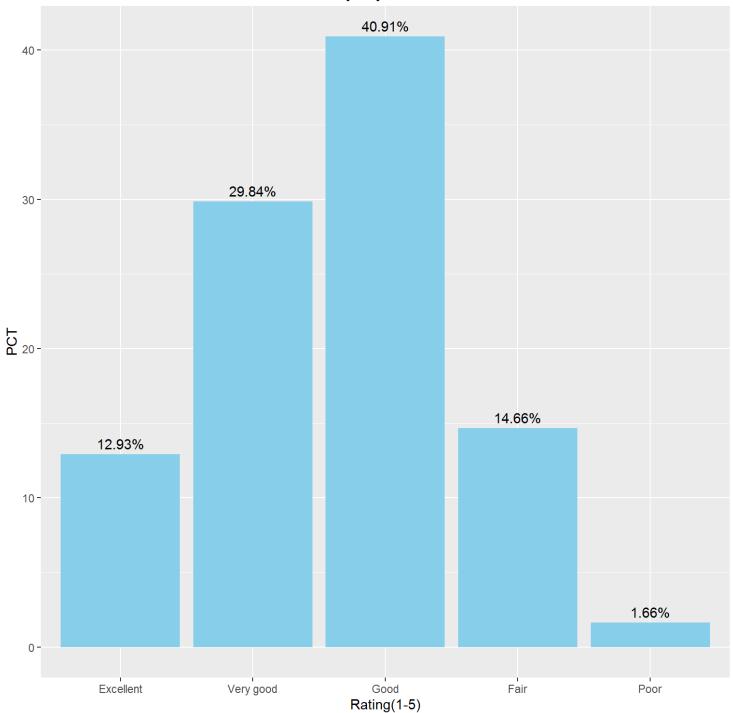
```
DBQ$DBQ700<- c("Excellent","Very good", "Good", "Fair", "Poor")
positions <- c("Excellent","Very good", "Good", "Fair", "Poor")
DBQ$test <- "Overall(N= 11,672)"
ggplot(DBQ, aes(x=DBQ700, y = FREQ)) + geom_bar(stat="identity", fill = "sky blue")+
    geom_text(aes(label = sprintf("%.2f%%", FREQ)), vjust = -.5)+ labs(title = "How healthy is your diet? N= 1
1,762", x = "Rating(1-5)", y = "PCT")+ scale_x_discrete(limits = positions)</pre>
```

How healthy is your diet? N= 11,762

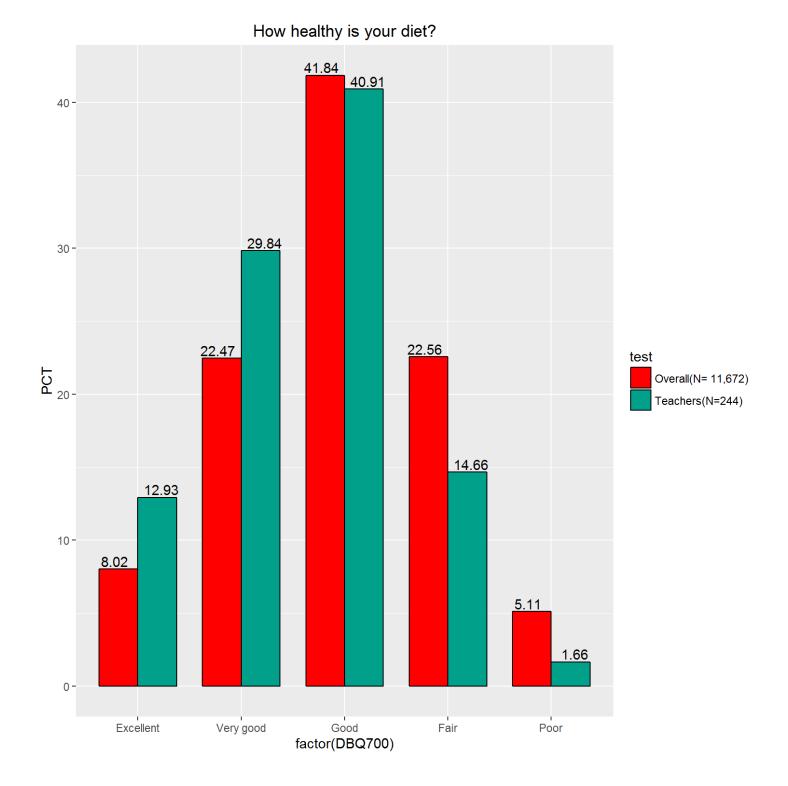


```
teachDBQ$DBQ700<- c("Excellent","Very good", "Good", "Fair", "Poor")
teachDBQ$test <- "Teachers(N=244)"
positions <- c("Excellent","Very good", "Good", "Fair", "Poor")
ggplot(teachDBQ, aes(x=DBQ700, y = FREQ)) + geom_bar(stat="identity", fill = "sky blue")+
    geom_text(aes(label = sprintf("%.2f%", FREQ)), vjust = -.5)+ labs(title = "How healthy is your diet? N= 2
44", x = "Rating(1-5)", y = "PCT")+ scale_x_discrete(limits = positions)</pre>
```

How healthy is your diet? N= 244

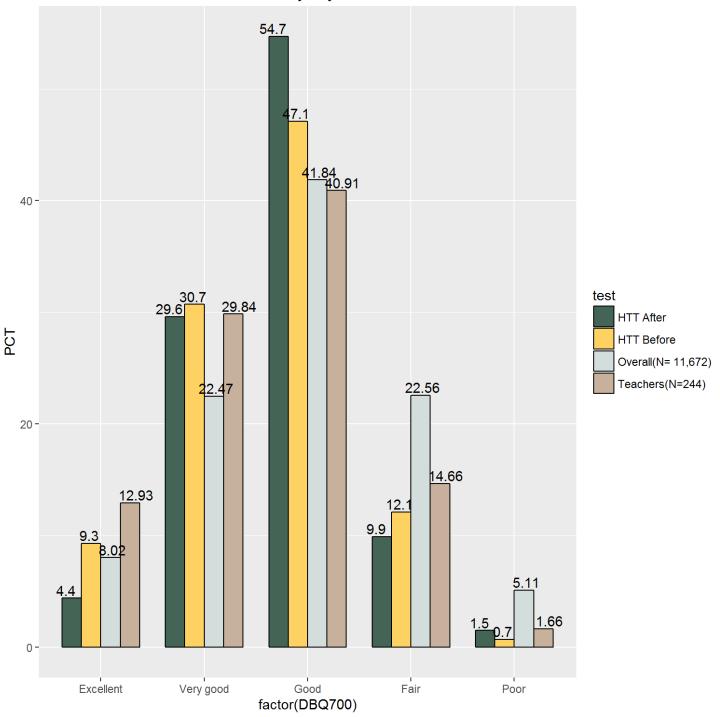


```
graphCombine <- rbind(DBQ, teachDBQ)
positions <- c("Excellent","Very good", "Good", "Fair", "Poor")
ggplot(graphCombine, aes(factor(DBQ700), FREQ, fill = test, width = 0.75)) +
   geom_bar(stat="identity", position = "dodge", colour = "black") +labs(title = "How healthy is your diet?",
   y = "PCT")+ scale_x_discrete(limits = positions) + geom_text(aes(label=round(FREQ , 2)), position=position_
   dodge(width=0.9), vjust=-0.25) + scale_fill_manual(values=wes_palette(n=3, name="Darjeeling"))</pre>
```



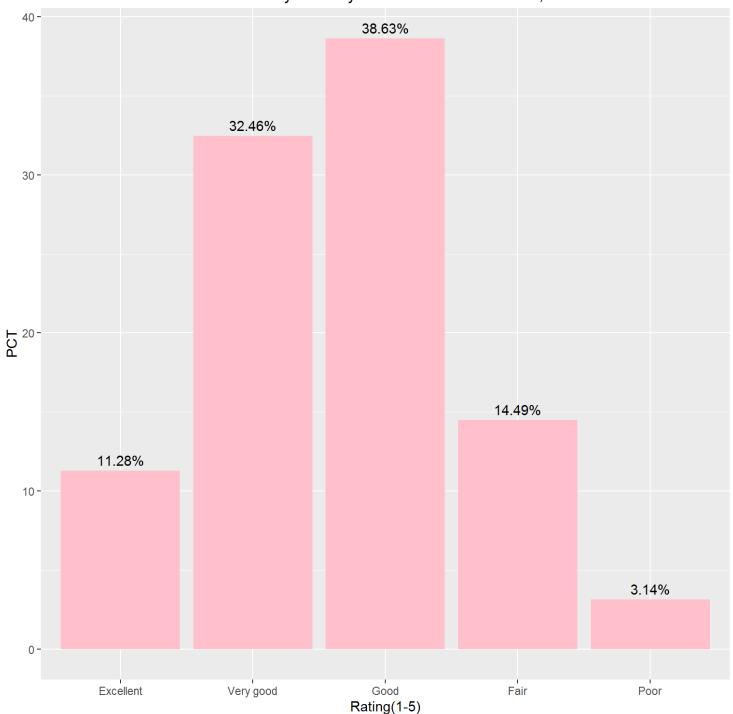
####BUILD HTT DATASET DBQ700 = c("Excellent","Very good", "Good", "Fair", "Poor" ,"Excellent","Very good", "Good", "Fair", "Poor") FREQ = c(9.3 , 30.7 , 47.1 , 12.1 , 0.7 , 4.4 ,29.6 ,54.7 , 9.9 , 1.5) test = c("HTT Before", "HTT Before", "HTT Before", "HTT Before", "HTT Before" , "HTT After" , "HTT After" , "HTT After" , "HTT After") df2 = data.frame(DBQ700, test, FREQ) df2\$se <- NA df2\$weightedTotal <- NA newDB2 <- rbind(df2, graphCombine) positions <- c("Excellent","Very good", "Good", "Fair", "Poor") ggplot(newDB2, aes(factor(DBQ700), FREQ, fill = test, width = 0.75)) + geom_bar(stat="identity", position = "dodge", colour = "black") +labs(title = "How healthy is your diet?", y = "PCT")+ scale_x_discrete(limits = positions) + geom_text(aes(label=round(FREQ , 2)), position=position_ dodge(width=0.9), vjust=-0.25) + scale_fill_manual(values=wes_palette(n=4, name="Chevalier"))</pre>

How healthy is your diet?



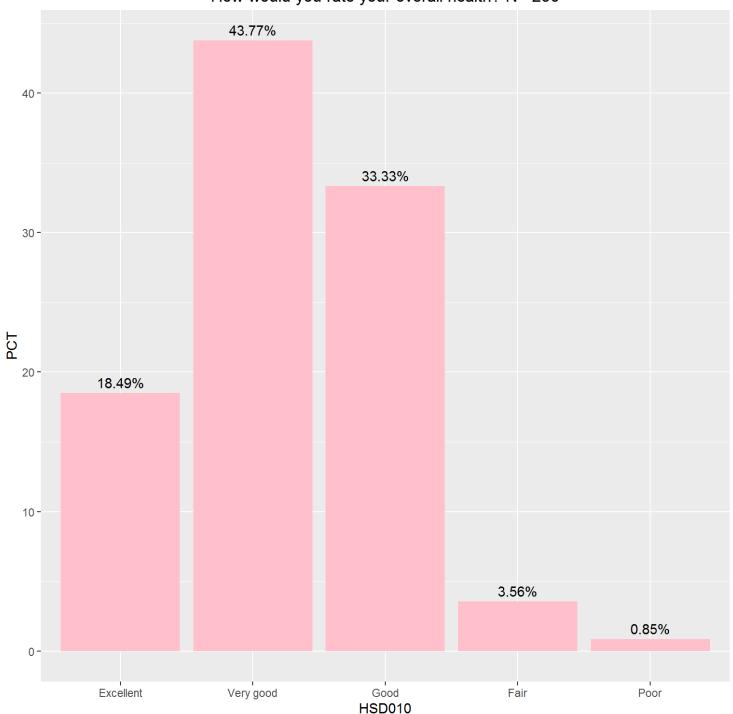
```
genHealth$HSD010<- c("Excellent","Very good", "Good", "Fair", "Poor")
genHealth$test<- 'Overall(N= 10,595)'
positions <- c("Excellent","Very good", "Good", "Fair", "Poor")
ggplot(genHealth, aes(x=HSD010, y = FREQ)) + geom_bar(stat="identity", fill = "pink")+
    geom_text(aes(label = sprintf("%.2f%", FREQ)), vjust = -.5)+ labs(title = "How would you rate your overal
l health? N= 10,595", x = "Rating(1-5)", y = "PCT")+ scale_x_discrete(limits = positions)</pre>
```

How would you rate your overall health? N= 10,595



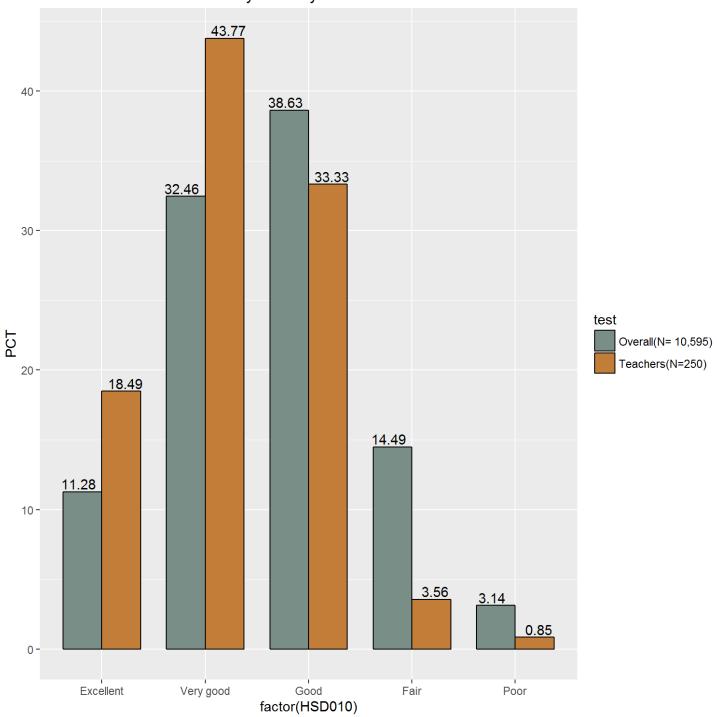
```
teachGenHealth$HSD010<- c("Excellent","Very good", "Good", "Fair", "Poor")
teachGenHealth$test <- "Teachers(N=250)"
positions <- c("Excellent","Very good", "Good", "Fair", "Poor")
ggplot(teachGenHealth, aes(x=HSD010, y = FREQ)) + geom_bar(stat="identity", fill = "pink")+
    geom_text(aes(label = sprintf("%.2f%%", FREQ)), vjust = -.5)+ labs(title = "How would you rate your overal
l health? N= 250", y = "PCT")+ scale_x_discrete(limits = positions)</pre>
```

How would you rate your overall health? N= 250

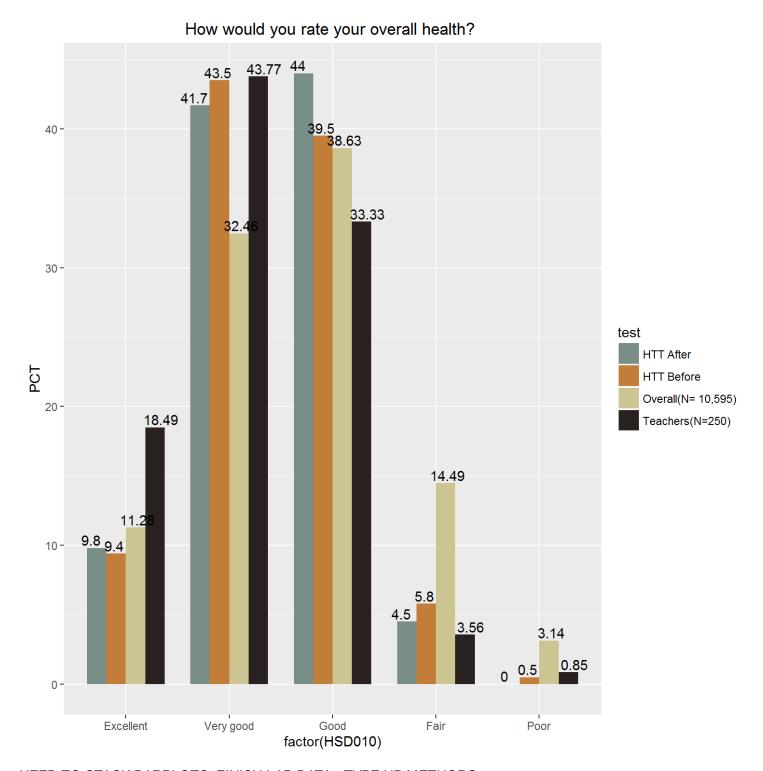


```
testr <- rbind(genHealth, teachGenHealth)
positions <- c("Excellent","Very good", "Good", "Fair", "Poor")
ggplot(testr, aes(factor(HSD010), FREQ, fill = test, width = 0.75)) +
   geom_bar(stat="identity", position = "dodge", colour = "black") +labs(title = "How would you rate your ov
erall health? ", y = "PCT")+ scale_x_discrete(limits = positions) + geom_text(aes(label=round(FREQ, 2)), po
sition=position_dodge(width=0.9), vjust=-0.25) + scale_fill_manual(values=wes_palette(n=3,
name="Moonrise2"))</pre>
```

How would you rate your overall health?



####BUILD HTT DATASET HSD010 = c("Excellent","Very good", "Good", "Fair", "Poor" ,"Excellent","Very good", "Good", "Fair", "Poor") FREQ = c(9.4 , 43.5 , 39.5 , 5.8 , 0.5 , 9.8 , 41.7 , 44.0 , 4.5 , 0) test = c("HTT Before", "HTT Before", "HTT Before", "HTT Before", "HTT Before" , "HTT After" , "HTT After" , "HTT After" , "HTT After" , "HTT After") df = data.frame(HSD010, test, FREQ) df\$se <- NA df\$weightedTotal <- NA newDB <- rbind(df , testr) positions <- c("Excellent","Very good", "Good", "Fair", "Poor") ggplot(newDB, aes(factor(HSD010), FREQ, fill = test, width = 0.75)) + geom_bar(width=1 , stat="identity", position = "dodge") +labs(title = "How would you rate your overall h ealth? ", y = "PCT")+ scale_x_discrete(limits = positions) + geom_text(aes(label=round(FREQ , 2)), position=position_dodge(width=0.9), vjust=-0.25) + scale_fill_manual(values=wes_palette(n=4, name="Moonrise 2"))</pre>



NEED TO STACK BARPLOTS, FINISH LAB DATA, TYPE UP METHODS.