library("XML", lib.loc="~/R/R-3.2.4revised/library")

library("htmltab", lib.loc="~/R/R-3.2.4revised/library")

library("httr", lib.loc="~/R/R-3.2.4revised/library")

library("plyr", lib.loc="~/R/R-3.2.4revised/library")

# process the Filling File of 2015 Costco

url2015 <- "https://www.sec.gov/Archives/edgar/data/909832/000090983215000019/costproxy2015.htm"

htmltab(doc = url2015, which=59)

urldata2015 <- GET(url2015)

data2015 <- readHTMLTable(rawToChar(urldata2015$content), stringsAsFactors = FALSE)

data2015 [[59]]

compensation.table.data2015 <- data2015 [[59]]

compensation.table.data2015

compensation.table2015<- compensation.table.data2015 [3:4, c("V1","V3", "V5", "V7","V9","V13")]

compensation.table2015

compensation.table2015 <-rename(compensation.table2015, c("V1"="Name and Principal Position", "V3"="Year", "V5"="Salary", "V7"="Bonus", "V9"="Stock\_Awards", "V13"="All\_Other\_Compensation"))

# process the Filling File of 2014 Costco

url2014 <- "https://www.sec.gov/Archives/edgar/data/909832/000090983214000028/costdefproxy2014.htm"

htmltab(doc = url2014, which=56)

urldata2014 <- GET(url2014)

data2014 <- readHTMLTable(rawToChar(urldata2014$content), stringsAsFactors = FALSE)

data2014[[56]]

compensation.table.data2014 <- data2014 [[56]]

compensation.table.data2014

compensation.table2014<- compensation.table.data2014[4:4, c("V1","V3", "V5", "V7","V9","V13")]

compensation.table2014

compensation.table2014 <- rename(compensation.table2014, c("V1"="Name and Principal Position", "V3"="Year", "V5"="Salary", "V7"="Bonus", "V9"="Stock\_Awards", "V13"="All\_Other\_Compensation"))

compensation.table2014

write.csv(compensation.table2015, file = " compensation.table2015.csv")

# merge the data of 2014 and 2015 compensation.table

compensation.table <- rbind(compensation.table2015, compensation.table2014)

# process the Filling File of 2013 Costco, part one

url2013 <- "https://www.sec.gov/Archives/edgar/data/909832/000090983213000007/costdefproxy2013.htm"

htmltab(doc = url2013, which=59)

urldata2013 <- GET(url2013)

data2013 <- readHTMLTable(rawToChar(urldata2013$content), stringsAsFactors = FALSE)

data2013[[59]]

compensation.table.data2013 <- data2013 [[59]]

compensation.table.data2013

compensation.table2013<- compensation.table.data2013[4:4, c("V1","V3", "V5", "V7","V9","V13")]

compensation.table2013

compensation.table2013 <- rename(compensation.table2013, c("V1"="Name and Principal Position", "V3"="Year", "V5"="Salary", "V7"="Bonus", "V9"="Stock\_Awards", "V13"="All\_Other\_Compensation"))

compensation.table2013

# merge the data

compensation.table <- rbind(compensation.table, compensation.table2013)

# process the Filling File of 2013 Costco, part two

compensation.table2013\_2<- compensation.table.data2013[5:5, c("V1","V2", "V4", "V6","V8","V12")]

compensation.table2013\_2 <- rename(compensation.table2013\_2, c("V1"="Name and Principal Position", "V2"="Year", "V4"="Salary", "V6"="Bonus", "V8"="Stock\_Awards", "V12"="All\_Other\_Compensation"))

compensation.table2013\_2

# merge the data

compensation.table <- rbind(compensation.table, compensation.table2013\_2)

# write the file

write.csv(compensation.table, file = " compensation.table.csv")

# process the Filling File of 2010 Costco

url2010 <- "https://www.sec.gov/Archives/edgar/data/909832/000119312510279341/ddef14a.htm"

htmltab(doc = url2010, which=56)

urldata2010 <- GET(url2010)

data2010 <- readHTMLTable(rawToChar(urldata2010$content), stringsAsFactors = FALSE)

data2010[[56]]

compensation.table.data2010 <- data2010 [[56]]

compensation.table.data2010

names(compensation.table.data2010)[1]<-paste("V1")

names(compensation.table.data2010)[2]<-paste("V2")

names(compensation.table.data2010)[3]<-paste("V3")

names(compensation.table.data2010)[4]<-paste("V4")

names(compensation.table.data2010)[5]<-paste("V5")

names(compensation.table.data2010)[6]<-paste("V6")

names(compensation.table.data2010)[7]<-paste("V7")

names(compensation.table.data2010)[8]<-paste("V8")

names(compensation.table.data2010)[9]<-paste("V9")

names(compensation.table.data2010)[10]<-paste("V10")

names(compensation.table.data2010)[11]<-paste("V11")

names(compensation.table.data2010)[12]<-paste("V12")

names(compensation.table.data2010)[13]<-paste("V13")

names(compensation.table.data2010)[14]<-paste("V14")

names(compensation.table.data2010)[15]<-paste("V15")

names(compensation.table.data2010)[16]<-paste("V16")

names(compensation.table.data2010)[17]<-paste("V17")

names(compensation.table.data2010)[18]<-paste("V18")

names(compensation.table.data2010)[19]<-paste("V19")

names(compensation.table.data2010)[20]<-paste("V20")

names(compensation.table.data2010)[21]<-paste("V21")

names(compensation.table.data2010)[22]<-paste("V22")

names(compensation.table.data2010)[23]<-paste("V23")

names(compensation.table.data2010)[24]<-paste("V24")

names(compensation.table.data2010)[25]<-paste("V25")

names(compensation.table.data2010)[26]<-paste("V26")

names(compensation.table.data2010)[27]<-paste("V27")

names(compensation.table.data2010)[28]<-paste("V28")

names(compensation.table.data2010)[29]<-paste("V29")

compensation.table2010 <- compensation.table.data2010[2:4, c("V1","V4","V8", "V12", "V16","V24")]

names(compensation.table2010)[1]<-paste("Name and Principal Position")

names(compensation.table2010)[2]<-paste("Year")

names(compensation.table2010)[3]<-paste("Salary")

names(compensation.table2010)[4]<-paste("Bonus")

names(compensation.table2010)[5]<-paste("Stock\_Awards ")

names(compensation.table2010)[6]<-paste("All\_Other\_Compensation")

compensation.table2010

# write the file

write.csv(compensation.table2010, file = " compensation.table2010.csv")

# process the Filling File of 2007 Costco

url2007 <- "<https://www.sec.gov/archives/edgar/data/909832/000119312507266767/ddef14a.htm>"

htmltab(doc = url2007, which=56)

urldata2007 <- GET(url2007)

data2007 <- readHTMLTable(rawToChar(urldata2007$content), stringsAsFactors = FALSE)

data2007[[56]]

compensation.table.data2007 <- data2007 [[56]]

compensation.table.data2007

names(compensation.table.data2007)[1]<-paste("V1")

names(compensation.table.data2007)[2]<-paste("V2")

names(compensation.table.data2007)[3]<-paste("V3")

names(compensation.table.data2007)[4]<-paste("V4")

names(compensation.table.data2007)[5]<-paste("V5")

names(compensation.table.data2007)[6]<-paste("V6")

names(compensation.table.data2007)[7]<-paste("V7")

names(compensation.table.data2007)[8]<-paste("V8")

names(compensation.table.data2007)[9]<-paste("V9")

names(compensation.table.data2007)[10]<-paste("V10")

names(compensation.table.data2007)[11]<-paste("V11")

names(compensation.table.data2007)[12]<-paste("V12")

names(compensation.table.data2007)[13]<-paste("V13")

names(compensation.table.data2007)[14]<-paste("V14")

names(compensation.table.data2007)[15]<-paste("V15")

compensation.table2007 <- compensation.table.data2007[2:2, c("V1","V3","V5", "V7", "V11","V13","V15”)]

names(compensation.table2007)[1]<-paste("Name and Principal Position")

names(compensation.table2007)[2]<-paste("Year")

names(compensation.table2007)[3]<-paste("Salary")

names(compensation.table2007)[4]<-paste("Bonus")

names(compensation.table2007)[5]<-paste("Option\_Awards")

names(compensation.table2007)[6]<-paste("Stock\_Awards")

names(compensation.table2007)[7]<-paste("All\_Other\_Compensation")

compensation.table2007

write.csv(compensation.table2007, file = " compensation.table2007.csv")

# process the Filling File of 2006 Costco

url2006 <- "https://www.sec.gov/Archives/edgar/data/909832/000119312506256505/ddef14a.htm"

htmltab(doc = url2006, which=48)

urldata2006 <- GET(url2006)

data2006 <- readHTMLTable(rawToChar(urldata2006$content), stringsAsFactors = FALSE)

data2006[[48]]

compensation.table.data2006 <- data2006 [[48]]

compensation.table.data2006

names(compensation.table.data2006)[1]<-paste("V1")

names(compensation.table.data2006)[2]<-paste("V2")

names(compensation.table.data2006)[3]<-paste("V3")

names(compensation.table.data2006)[4]<-paste("V4")

names(compensation.table.data2006)[5]<-paste("V5")

names(compensation.table.data2006)[6]<-paste("V6")

names(compensation.table.data2006)[7]<-paste("V7")

names(compensation.table.data2006)[8]<-paste("V8")

names(compensation.table.data2006)[9]<-paste("V9")

names(compensation.table.data2006)[10]<-paste("V10")

names(compensation.table.data2006)[11]<-paste("V11")

names(compensation.table.data2006)[12]<-paste("V12")

names(compensation.table.data2006)[13]<-paste("V13")

names(compensation.table.data2006)[14]<-paste("V14")

names(compensation.table.data2006)[15]<-paste("V15")

compensation.table2006 <- compensation.table.data2006[2:2, c("V1","V3","V5", "V7", "V11","V13","V15”)]

names(compensation.table2006)[1]<-paste("Name and Principal Position")

names(compensation.table2006)[2]<-paste("Year")

names(compensation.table2006)[3]<-paste("Salary")

names(compensation.table2006)[4]<-paste("Bonus")

names(compensation.table2006)[5]<-paste("Option\_Awards")

names(compensation.table2006)[6]<-paste("Stock\_Awards")

names(compensation.table2006)[7]<-paste("All\_Other\_Compensation")

compensation.table2006

write.csv(compensation.table2006, file = " compensation.table2006.csv")

# process the Filling File of 2003 Costco

url2003 <- "https://www.sec.gov/Archives/edgar/data/909832/000119312503096388/ddef14a.htm"

htmltab(doc = url2003, which=44)

urldata2003 <- GET(url2003)

data2003 <- readHTMLTable(rawToChar(urldata2003$content), stringsAsFactors = FALSE)

data2003[[44]]

compensation.table.data2003 <- data2003 [[44]]

compensation.table.data2003

names(compensation.table.data2003)[1]<-paste("V1")

compensation.table2003<- compensation.table.data2003[2:4, c("Name and Principal Position","V3", "V5", "V7","V11","V13")]

compensation.table2003

names(compensation.table2003)[1]<-paste("Name and Principal Position ")

names(compensation.table2003)[2]<-paste("Year")

names(compensation.table2003)[3]<-paste("Salary")

names(compensation.table2003)[4]<-paste("Bonus")

names(compensation.table2003)[5]<-paste("Option\_Awards")

names(compensation.table2003)[6]<-paste("All\_Other\_Compensation")

compensation.table2003

write.csv(compensation.table2003, file = " compensation.table2003.csv")

# process the Filling File of 1999 Costco

costco1999 <- read.delim("~/R/costco1999.txt", comment.char="#")

View(costco1999)

costco1999 [[59]]

costco1999.1 <- costco1999[437:466,]

costco1999.1

write.csv(costco1999.1, file = "costco1999.1.csv")

# process the Filling File of 1999 Costco

costco1999 <- read.delim("~/R/costco1999.txt", comment.char="#")

View(costco1999)

costco1999.1 <- costco1999[547:575,]

costco1999.1

write.csv(costco1999.1, file = "costco1999.1.csv")

# process the Filling File of 1996 Costco

costco1996 <- read.delim("~/R/costco1996.txt", comment.char="#")

View(costco1996)

costco1996.1 <- costco1996[645:671,]

costco1996.1

write.csv(costco1996.1, file = "costco1996.1.csv")

# process the Filling File of 1994 Costco

costco1994 <- read.delim("~/R/costco1994.txt", comment.char="#")

View(costco1994)

costco1994.1 <- costco1994[677:702,]

costco1994.1

write.csv(costco1994.1, file = "costco1994.1.csv")