

Individual Assignment

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28/11/2016

Q1. Find the 2015 Cricket World Cup venue with the largest capacity.

```
install.packages("rvest")
```

```
## Installing package into '/home/ad.ilstu.edu/lina/R/x86_64-pc-linux-gnu-library/3.3'  
## (as 'lib' is unspecified)
```

```
library("rvest")
```

```
## Loading required package: xml2
```

```
world_cup<- read_html("http://en.wikipedia.org/wiki/2015_Cricket_World_Cup")  
venues <- html_table(html_nodes(world_cup, "table")[[5]])  
venues$Capacity<-as.numeric(gsub(",","",venues$Capacity))  
max <- venues[which.max(venues$Capacity),1]  
max
```

```
## [1] "Melbourne Cricket Ground"
```

The 2015 Cricket World Cup venue with the largest capacity was Melbourne Cricket Ground

Q2. The American Community Survey distributes downloadable data about United States communities.

```
download.file("https://d396qusza40orc.cloudfront.net/getdata%2Fdata%2Fss06hid.csv",destfile = "MICDATA.csv")  
survey_data <- read.csv("MICDATA.csv")  
Prop_Value <- length (survey_data [which(survey_data$VAL>=24),1])  
Prop_Value
```

```
## [1] 53
```

The answer to Q2 is 53

Q3. Load the Gross Domestic Product data for the 190 ranked countries.

```
rank_data <- read.csv("https://d396qusza40orc.cloudfront.net/getdata%2Fdata%2FGDP.csv ")
colnames(rank_data)<- c("CountryCode", "Ranking", "NA", "Economy", "Dollars" )
prod_data <- read.csv("https://d396qusza40orc.cloudfront.net/getdata%2Fdata%2FEDSTATS_Country.csv")
merge_data <- merge(rank_data, prod_data, by="CountryCode")
filtermerge_data <- merge_data[-c(3, 6:10)]
filtermerge_data$Ranking<-as.numeric(gsub(",","",filtermerge_data$Ranking), na.rm="TRUE")
filtermerge_data<-subset(filtermerge_data,filtermerge_data$Ranking<191)

rankprod1<- mean(subset(filtermerge_data, Income.Group %in% "High income: OECD", select = c(Ranking))$R
rankprod2<- mean(subset(filtermerge_data, Income.Group %in% "High income: nonOECD", select = c(Ranking))$R
```

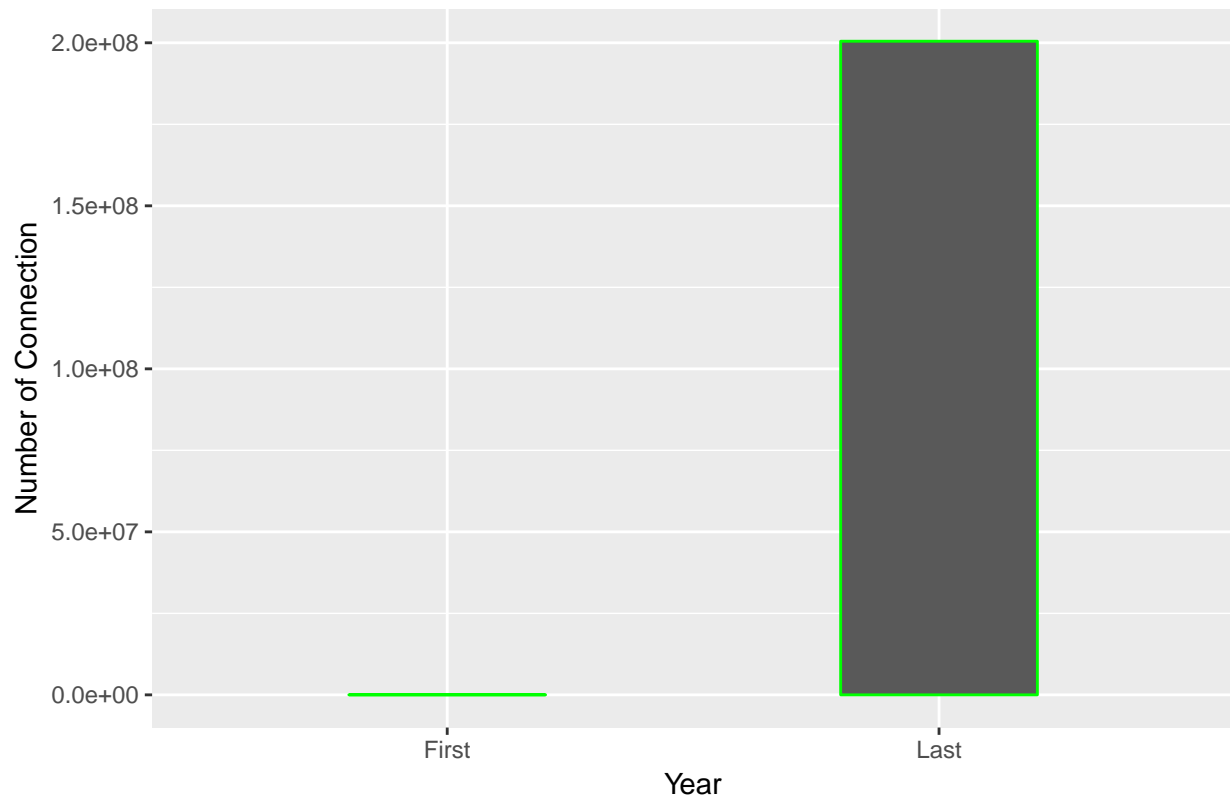
The answer to Q3 is 32.9666667 for High income: OECD and 91.9130435 for High income: nonOECD.

Q4. Create a bar chart showing the number of broadband users in China for the first and last years in the data set.

```
library(ggplot2)
china<-read.csv(file=~ /IT-497/chinainet.csv")
Lastyear <- head(china, 1)
Firstyear <- tail(china,1)
Number.of.connection <- c(Lastyear$Number, Firstyear$Number)
Year <- c("Last","First")
Tab1 <- data.frame(Year,Number.of.connection)

ggplot(data=Tab1, aes(x=Year, y=Number.of.connection)) +
  geom_bar(width=.4, stat="identity", position = "dodge", colour="green") +
  xlab("Year") + ylab("Number of Connection") + labs(title="Graph1. The number of broadband users in Ch
```

Graph1. The number of broadband users in China for the first v/s the last



Q5. Create a bar chart showing the number of tweets containing “@OhioStateFB” and the number containing “@UMichFootball”.

```
install.packages("ggplot2")
```

```
## Installing package into '/home/ad.ilstu.edu/lina/R/x86_64-pc-linux-gnu-library/3.3'
## (as 'lib' is unspecified)
```

```
install.packages("stringr")
```

```
## Installing package into '/home/ad.ilstu.edu/lina/R/x86_64-pc-linux-gnu-library/3.3'
## (as 'lib' is unspecified)
```

```
library("stringr")
library("ggplot2")
```

```
ncaa<-read.csv(file="~/IT-497/ncaa.txt", stringsAsFactors = F, sep = ";", colClasses = "character", head = 1)
oc<- str_count(ncaa, ignore.case("@OhioStateFB"))
```

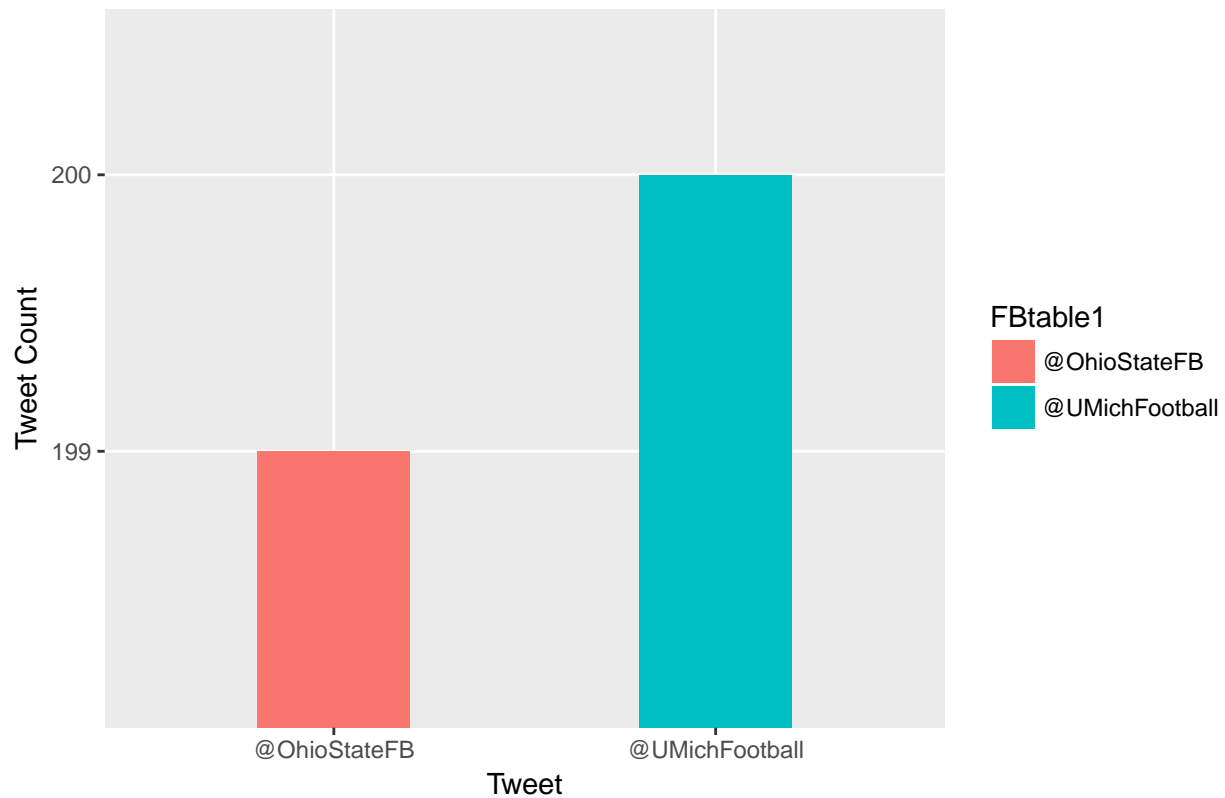
```
## Please use (fixed|coll|regex)(x, ignore_case = TRUE) instead of ignore.case(x)
```

```
mc<- str_count(ncaa, ignore.case("@UMichFootball"))
```

```
## Please use (fixed|coll|regex)(x, ignore_case = TRUE) instead of ignore.case(x)
```

```
FBtable<- c(oc,mc)
FBtable1<- c("@OhioStateFB", "@UMichFootball")
tb4<-cbind(FBtable1, FBtable)
tb5<- data.frame(tb4)
ggplot(tb5, aes(x=FBtable1, y=FBtable,fill=FBtable1)) +
geom_bar(width=.4, stat="identity", position = position_stack()) + xlab("Tweet") + ylab("Tweet Count")
```

Graph2. Number of tweets containing @OhioStateFB vs @UMichFootball



Q6. Recreate the Percent of Primary Care Physicians Selecting Immunization Menu Measure without Exclusion bar chart.

```
install.packages("rvest")
```

```
## Installing package into '/home/ad.ilstu.edu/lina/R/x86_64-pc-linux-gnu-library/3.3'
## (as 'lib' is unspecified)
```

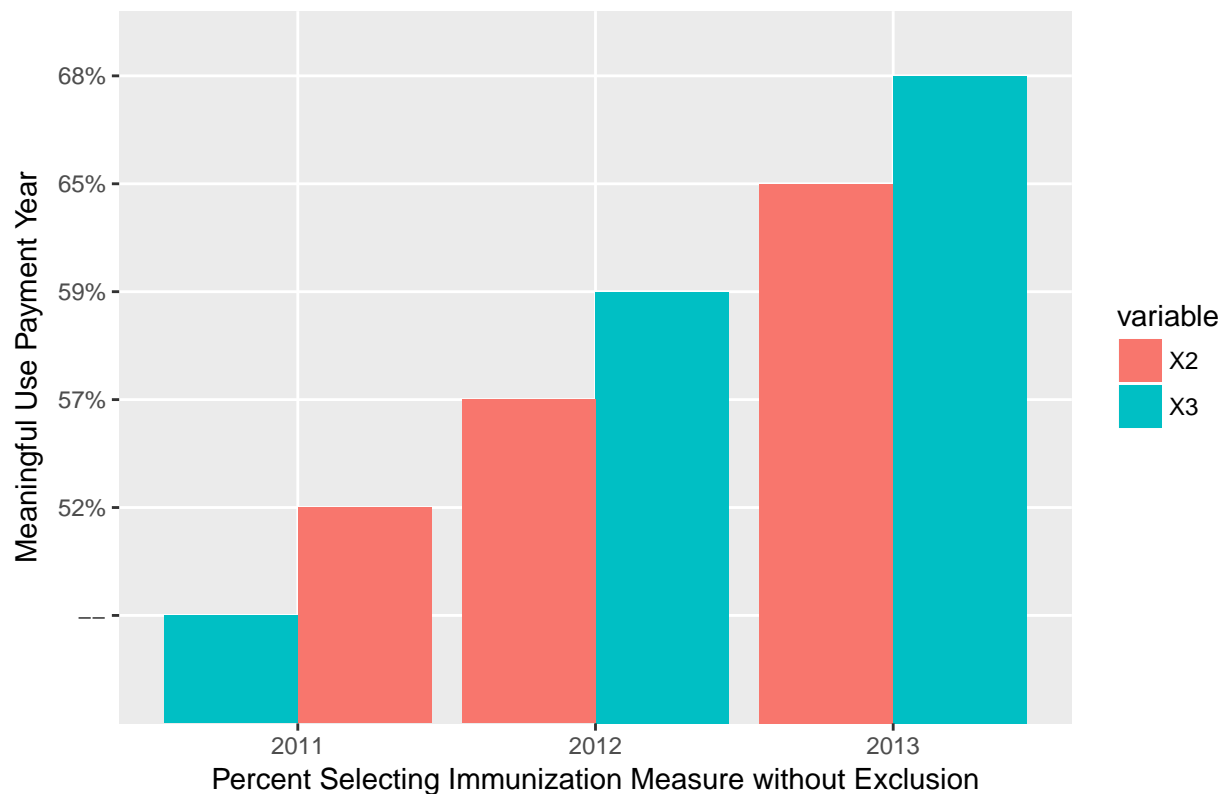
```
install.packages("ggplot2")
```

```
## Installing package into '/home/ad.ilstu.edu/lua/R/x86_64-pc-linux-gnu-library/3.3'
## (as 'lib' is unspecified)
```

```
library("rvest")
library("ggplot2")
library("reshape2")
```

```
imm <- read_html("https://dashboard.healthit.gov/quickstats/pages/FIG-Percent-Medicare-Eligible-Primary")
imm1 <- html_table(html_nodes(imm, "table"),fill=T)
imm2<- data.frame(imm1)
imm2 <- imm2[-c(1,2), ]
df<- melt(imm2,id.vars='X1')
ggplot(df, aes(x=X1,y=value,fill=variable))+geom_bar(stat="identity",position = position_dodge())+ xlab
```

Graph3. Percent of Primary Care Physicians Selecting Immunization Measure without Exclusion



Q7. Which Metropolitan area pays the highest for computer and mathematical occupations?

```
install.packages("plyr")
```

```
## Installing package into '/home/ad.ilstu.edu/lua/R/x86_64-pc-linux-gnu-library/3.3'
## (as 'lib' is unspecified)
```

```
install.packages("rvest")
```

```
## Installing package into '/home/ad.ilstu.edu/lua/R/x86_64-pc-linux-gnu-library/3.3'  
## (as 'lib' is unspecified)
```

```
library(plyr)  
library(rvest)
```

```
salaries<-read_html("http://www.bls.gov/oes/current/oes150000.htm")  
salaries.table<-html_table(html_nodes(salaries, "table")[[10]],header=T)  
salaries.df<-data.frame(salaries.table$`Hourly mean wage`, salaries.table$`Metropolitan area`)  
colnames(salaries.df)<- c("Hourly Mean Wage", "Metropolitan Area")  
salary.metro.high<-salaries.df$`Metropolitan Area`[which.max(salaries.df$`Hourly Mean Wage`)]  
salary.metro.high[1]
```

```
## [1] San Jose-Sunnyvale-Santa Clara, CA  
## 10 Levels: Atlanta-Sandy Springs-Roswell, GA ...
```

The answer to Q7 is San Jose-Sunnyvale-Santa Clara, CA

Q8. Internet users in Africa.

```
user <- read.csv(file="~/IT-497/q8.csv", stringsAsFactors = F, header = F)  
internet.users<- head(user$V2[1])  
internet.users
```

```
## [1] 11090000
```

```
pent.rate.af <- head(user$V2[2])  
pent.rate.af
```

```
## [1] 11
```

```
pent.rate.wd <- head(user$V2[3])  
pent.rate.wd
```

```
## [1] 32
```

The text of your answer should be, "The answer to Q8 is ,11090000, 11 %, and 32%.

Extra Credit

```
install.packages("quantmod")
```

```
## Installing package into '/home/ad.ilstu.edu/lua/R/x86_64-pc-linux-gnu-library/3.3'  
## (as 'lib' is unspecified)
```

```
install.packages("lubridate")
```

```
## Installing package into '/home/ad.ilstu.edu/lina/R/x86_64-pc-linux-gnu-library/3.3'  
## (as 'lib' is unspecified)
```

```
library(quantmod)
```

```
## Loading required package: xts
```

```
## Loading required package: zoo
```

```
##
```

```
## Attaching package: 'zoo'
```

```
## The following objects are masked from 'package:base':
```

```
##
```

```
##      as.Date, as.Date.numeric
```

```
## Loading required package: TTR
```

```
## Version 0.4-0 included new data defaults. See ?getSymbols.
```

```
library(lubridate)
```

```
##
```

```
## Attaching package: 'lubridate'
```

```
## The following object is masked from 'package:plyr':
```

```
##
```

```
##      here
```

```
## The following object is masked from 'package:base':
```

```
##
```

```
##      date
```

```
amazon<- getSymbols("AMZN",auto.assign=F)
```

```
##      As of 0.4-0, 'getSymbols' uses env=parent.frame() and
```

```
##      auto.assign=TRUE by default.
```

```
##
```

```
##      This behavior will be phased out in 0.5-0 when the call will
```

```
##      default to use auto.assign=FALSE. getOption("getSymbols.env") and
```

```
##      getOptions("getSymbols.auto.assign") are now checked for alternate defaults
```

```
##
```

```
##      This message is shown once per session and may be disabled by setting
```

```
##      options("getSymbols.warning4.0"=FALSE). See ?getSymbols for more details.
```

```
sample.time <-index(amazon)
sample.time
```

```
##      [1] "2007-01-03" "2007-01-04" "2007-01-05" "2007-01-08" "2007-01-09"
##      [6] "2007-01-10" "2007-01-11" "2007-01-12" "2007-01-16" "2007-01-17"
##     [11] "2007-01-18" "2007-01-19" "2007-01-22" "2007-01-23" "2007-01-24"
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[521] "2009-01-27" "2009-01-28" "2009-01-29" "2009-01-30" "2009-02-02"
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addmargins(table(year(sample.time), weekdays(sample.time)))
```

```
##
##      Friday Monday Thursday Tuesday Wednesday Sum
## 2007      51     48       51      50        51 251
## 2008      50     48       50      52        53 253
## 2009      49     48       51      52        52 252
## 2010      50     47       51      52        52 252
## 2011      51     46       51      52        52 252
## 2012      51     47       51      50        51 250
## 2013      51     48       50      52        51 252
## 2014      50     48       50      52        52 252
## 2015      49     48       51      52        52 252
## 2016      48     44       48      49        49 238
## Sum      500    472      504     513       515 2504
```

```
year.2012 <- subset(sample.time, year(sample.time) == "2012")
a<- length(year.2012)
b<- length(which(wday(year.2012, label = T) == "Mon"))
```

The answer to the extra credit is 250 and 47.