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CIS 320

T 6:10pm – 10:00pm

2 March 2016

**URL & R Code**

**URL**

http://data.cityofchicago.org/api/views/ijzp-q8t2/rows.csv?accessType=DOWNLOAD

**R Code**

#loading the dataset

data1<-read.csv("http://data.cityofchicago.org/api/views/ijzp-q8t2/rows.csv?accessType=DOWNLOAD", header=T)

#structure of the data

str(data1)

#summary of the data

summary(data1)

#what crimes were commited

summary(data1$Primary.Type)

#the number of arrest made

summary(data1$Arrest)

#mode of the Primary Types

names(sort(-table(data1$Primary.Type)))

#bar graph of the Primary type

data1.pt<-table(data1$Primary.Type)

barplot(data1.pt[order(data1.pt, decreasing=T)])

#mode of IUCR code

#<https://data.cityofchicago.org/Public-Safety/Chicago-Police-Department-Illinois-Uniform-Crime-R/c7ck-438e>

names(sort(-table(data1$IUCR)))

#mode of Location Description

names(sort(-table(data1$Location.Description)))

#create a new dataset which ignores the NA

data2<-na.omit(data1)

#mode of Community Areas

names(sort(-table(data2$Community.Area)))

#creating a histogram, with bins (using data2)

#<https://portal.chicagopolice.org/portal/page/portal/ClearPath/Communities/Districts/community_area.pdf>

hist(data2$Community.Area,breaks=rep(min(data2$Community.Area):max(data2$Community.Area),each=2)+c(-.4,.4),

main="Distribution of Crime between Community Areas",

xlab="Community Area)",

ylab="Crime Density",

col="grey"

)