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# MyGov Gmail Contacts
 # written by Bret Costain
# April 27, 2015
# Retrieve Users Address based on GoogleID
 # Execute curl script to retreiv contacts relvent to User address
# Flatten nested JSON file
 # Output CSV file
# NEXT STEP: CSV File imported in GMail into "myGov" folder within Contacts
 # BEGIN
# BEGIN
# Set Working Directory
setwd("-/Desktop/MyGov")
# Install Packages
install.packages("RCurl")
library("RCurl")
install.packages("devtools")
 library(devtools)
install.packages("rjson")
library("rjson")
install.packages("jsonlite")
library("jsonlite")
install.packages("foreach")
install.packages("foreach")
library("foreach")
install.packages("stringr")
library("stringr")
 #FORMAT ADDRESS AS CURL EXPRESSION TO RETRIEVE USER ADDRESS
API_KEY = "AIzoSyA7KrzQYcgLz00c40bJL9G0f3IIsznpmro"
userGooglePlusID= "102823877180866545771"
expression1 = "https://www.gogleapis.com/plus/v1/people/" # First part of getURL command BEFORE userGoglePlusID expression2 = "?fields=placesLivedkey=" # First part of getURL command AFTER userGoglePlusID BEFORE API_KEY addressRequest = paste(expression1, userGooglePlusID, expression2, API_KEY, sep="") addressRequest = deturn userGoglePlusID, expression2, API_KEY, sep="")
 # LOAD AS JSON ADDRESS AND CLEAN
 json_address <- fromJSON(addressTest)</pre>
 userAddress=json_address|placestived$value
userAddressClean = str_replace_all(userAddress,",","") # REMOVE COMMAS
userAddressClean = str_replace_all(userAddress," ","%20") # REPLACE SPACES with %20
 # RETRIVE CONTACTS FROM GOOGLE CIVIC API

a = "https://www.googleapis.com/civicinfo/v2/representatives?key=AlzaSyA7KrZQYcgLz00c40bJL9G0f3IIsznpmro&address=" # First part of getURL command BEFORE clean address
c= paste(a, userAddressClean, sep = "")
 z= getURL(c)
 # Load JSON File
 json_file <- z
json_data <- fromJSON(json_file)</pre>
 # CLEAN NULL FROM EMAIL
 json_data$officials$email[sapply(json_data$officials$email, is.null)] <- NA json_data$officials$emails[sapply(json_data$officials$emails, is.null)] <- NA
 # CREATE OFFICE RELATED VECTORS
 officialInd=NULL
officeInd=NULL
 officeName=NUL
 g= json_data$offices$officialIndices
imax=length(q)
for (i in 1:imax )
  smax=length(q[[i]])
 for (s in 1:smax )
{officialInd=c(officialInd,q[[i]][s])
         officeInd=c(officeInd,i)
officeName=c(officeName,json_data$offices$name[i])
 "
d = (json_data$officials$name) # CREATE OFFICIAL NAME VECTOR
e = (json_data$officials$emails) # CREATE OFFICIAL EMAIL VECTOR
f = as.character(e) # CONVERT EMAIL to CHARACTER
# CREATE MASTER DATE FRAME FOR CONTACTS
z = data.frame(d,officeName,f,officialInd,officeInd)
colnames(z) -< c("Name","officeName", "E-mail","officialInd","officeInd")
write.csv(z, file = "MyGov.csv") # CREATE CSV File
# PRINT RESULTS
print("MFLKEY:"); API_KEY
print("User's Google+ ID: "); userGooglePlusID
print("User's Primary Adress: "); userAddress
print("User's Contact List:"); z
# END</pre>
 # CREATE MASTER DATE FRAME FOR CONTACTS
```