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# MyGov Gmail Contacts
 # myGOV GMGIT 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
  # Flatten Nested JSAN File
# Output CSV file
# Output Google- Cirlces, Facebook List, Twitter List, and YouTube List
# NEXT STEP: CSV File imported in GMail into "myGov" folder within Contacts
  # BEGIN
 # BtGIN
# Set Working Directory
setwd("-/Desktop/MyGov")
# Install Packages
install.packages("RCurl")
library("RCurl")
install.packages("devtools")
 Install.packages('rjson')
library(devtools)
install.packages('rjson')
library("rjson')
install.packages("jsonlite")
library("jsonlite")
install.packages("foreach")
library("foreach")
  install.packages("stringr")
library("stringr")
# FORMAT ADDRESS AS CURL EXPRESSION TO RETRIEVE USER ADDRESS

API_KEY = "AIZa5yA7K-Z0Ycq1.2006-40b.11960F31TSznpmro"
userGooglePlusID= "102823877180866545771"
expression1 = "https://www.googleopis.com/plus/v1/people/" # First part of getURL command BEFORE userGoglePlusID
expression2= "?fields-places1ived&key=" # First part of getURL command AFTER userGoglePlusID BEFORE API_KEY
addressRequest = paste(expression1, userGooglePlusID, expression2, API_KEY, sep="")
addressRequest = paste(expression1, userGooglePlusID, expression2, API_KEY, sep="")
# LOAD AS JSON ADDRESS AND CLEAN
json_address <- fromJSON(addressTest)
userAddress=json_address$placestived8value
userAddress(clean = str_replace_all(userAddress,",","") # REMOVE COMMAS
userAddressClean = str_replace_all(userAddress,"","%20") # REPLACE SPACES with %20
""." **20") # REPLACE SPACES with %20"
 #
RETRIVE CONTACTS FROM GOOGLE CIVIC API
a = "https://www.googleapis.com/civicinfo/v2/representatives?key=AIzaSyA7KrZQYcgLz00c40bJL9G0f3IIsznpmro&address=" # First part of getURL command BEFORE clean address
c= paste(a, userAddressClean, sep = "")
z= getURL(c)
  # CREATE LABELS
  # Requires authorization
  # Nequires ducinization
# POST https://www.googleapis.com/gmail/v1/users/userId/labels
# h = getURL ("https://www.googleapis.com/gmail/v1/users/102823877180866545771/labels
# ?fields=placesLived&key=AIzaSyA7KrZQYcgLz00c40bJL960f3IIsznpmro")
  # Load JSON File
  ison file
  json_file <- z
json_data <- fromJSON(json_file)</pre>
  #

(LEAN 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
 # CLEAN LEVEL
json_dataSoffices$level[sapply(json_dataSoffices$level, is.null)] <- "Local" # Change NULL to Local
json_dataSoffices$level <- gsub("administrativeAreal", "State", json_dataSoffices$level)# Change administrativeAreal to State
json_dataSoffices$level <- gsub("country", "Federal", json_dataSoffices$level)# Change country to Federal
     CREATE OFFICE RELATED VECTORS
  officialInd=NULL
  officeInd=NULL
  officeName=NULL
 officeLevel = NULL
q= 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_dataSoffices%name[i])
officeLevel=c(officeLevel,json_dataSoffices%level[i])
  # CREATE OFFICIAL VECTORS
# CREATE OFFICIAL VECTORS
officialnon/Mome = (json_dataSofficialsSname) # CREATE OFFICIAL NAME VECTOR
e = (json_dataSofficialsSemoils) # CREATE OFFICIAL EMAIL VECTOR
f = as.character(e) # CONVERT EMAIL to CHARACTER
ph = (json_dataSofficialSphone)
ph2 = sapply(ph, "[[", 1) #Select first phone number
circle = as(officielvel, "character")
photo = json_dataSofficialsphotoUrl
officialFirstName=word(officialLongName, 1)
officialLastName=word(officialLongName, 1)
## (Selection of the property of 
  # CREATE MASTER DATE FRAME FOR CONTACTS
 master = data.frame(officiallongName, officeName, f,ph2,circle,photo,officialInd,officeInd)
colnames(master) <- c("Name", "Organization", "Email", "phone", "Circle", "Photo", "officialInd", "officeInd")
write.csv(master, file = "MyGov.csv") # (REATE CSV File
 #

GREATE (HANNELS LISTS

channels=json_data$officials$channel

channels[sapply(channels, is.null)] <- "NA" # Change NULL to Local
  # SET NULLS
  channelID=NULL
  channelType=NULL
channelOffName=NUL
channelCircle=NULL
```