R Notebook

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# Rstudio API Code

# Libraries

loading the libraries necessary to scrape data from qualtrics and then analyze, and visualize it.

knitr::opts\_chunk$set(echo = TRUE)  
  
library(qualtRics)  
library(ggplot2)  
library(tidyverse)

## ── Attaching packages ─────────────────────────────────────────────────────────── tidyverse 1.3.0 ──

## ✓ tibble 2.1.3 ✓ dplyr 0.8.4  
## ✓ tidyr 1.0.2 ✓ stringr 1.4.0  
## ✓ readr 1.3.1 ✓ forcats 0.4.0  
## ✓ purrr 0.3.3

## ── Conflicts ────────────────────────────────────────────────────────────── tidyverse\_conflicts() ──  
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag() masks stats::lag()

library(lubridate)

##   
## Attaching package: 'lubridate'

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

# Data Import and Cleaning

Set up the Qualtrics API, imported all surveys that I have created using the all\_surveys() function from the qualtRics package. Mutated the date from character to POSIXct format in order to use for bar chart.

qualtrics\_api\_credentials(api\_key = "icD5vfNztWZ7RBqx3BTZ3dwtvyTEivKhdVfI5Rrs",   
 base\_url = "umn.ca1.qualtrics.com",  
 install = TRUE,  
 overwrite = TRUE)

## Your original .Renviron will be backed up and stored in your R HOME directory if needed.

## Your Qualtrics key and base URL have been stored in your .Renviron.   
## To use now, restart R or run `readRenviron("~/.Renviron")`

survey\_tbl <- all\_surveys() %>%  
 mutate(creationDate=ymd\_hms(creationDate))

# Analysis

# Visualization

Creating a bar plot of the number of surveys that have been created on a given date using ggplot from the gpplot2 package paired with geom\_bar() to indicate the desired bar chart format.

ggplot(survey\_tbl, aes(creationDate))+   
 geom\_bar() +   
 labs(title = "Number of surveys created on a given date",   
 x= "Date",   
 y= "Number of Surveys Created")

