Instructions for Opioid Surveilance Code/System

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Basic Requirements

- Updated version of R, available at https://cran.r-project.org/
- RStudio not required, but suggested, available at https://www.rstudio.com/
- User to have access to ####@marinhhs.org email address/google suite

R Requirements

- Packages: tidyverse, tidytext, googlesheets, googledrive, reshape2, gmailr, grid, gridExtra, gtable, lubridate, stringi, beepr: these must be installed and active for each session
- Updates to the packages may (or may not) alter functionality. It is suggested to test/understand what if any effects updating will have on the code prior to running.

Setup Instructions

- Create R Project in directory of your choosing
- Place all five scripts into project folder
- Install all necessary packages and dependencies
- Run gs_auth(), gmail_auth(), and drive_auth and login as requested - this will store login information in httr_oauth file
- **Once the authorization is complete, ANY USER OF THE R CODE HAS FULL ACCESS TO FILES, EMAILS, DOCUMENTS, ETC. WITHIN THE LINKED ACCOUNTS**
- Change the email address in the email.R file to the one that will be sending the emails - there are three areas that need to be changed and are marked with commented lines.

Usage Instructions

- Open run_algorithm.R and run the file
- You will be prompted for user input in a series of checks. Enter your response into the console and press enter (1 = Yes, 0 = No)
- The upload process for the all scored records will take several minutes and will produce an audio and text notification when it is finished
- Once all prompts are answered ("Finished - all local data has been removed"), there is no need for further action. The code will remove all data in memory and clear any created files. You may close the file/project at this point.

Naming Conventions

- Name the uploads in a consistent manner - in *exactly* the same format as they are currently
- Once in the various results google sheets, you may edit the names/contents of the columns in any way you see fit

Session Information

- Code has been tested with the below versions of R and packages.

```
## R version 3.5.0 (2018-04-23)
## Platform: x86_64-w64-mingw32/x64 (64-bit)
## Running under: Windows 10 x64 (build 17134)
##
## Matrix products: default
##
## locale:
## [1] LC_COLLATE=English_United States.1252
## [2] LC_CTYPE=English_United States.1252
## [3] LC_MONETARY=English_United States.1252
## [4] LC_NUMERIC=C
## [5] LC_TIME=English_United States.1252
##
## attached base packages:
## [1] grid      stats     graphics  grDevices utils     datasets  methods
## [8] base
##
## other attached packages:
##  [1] beepr_1.3          stringi_1.1.7      lubridate_1.7.4
##  [4] gtable_0.2.0       gridExtra_2.3      gmailr_0.7.1
##  [7] reshape2_1.4.3     googledrive_0.1.1  googlesheets_0.2.2
## [10] tidytext_0.1.8     forcats_0.3.0      stringr_1.3.0
## [13] dplyr_0.7.4        purrr_0.2.4        readr_1.1.1
## [16] tidyr_0.8.0        tibble_1.4.2       ggplot2_2.2.1
## [19] tidyverse_1.2.1
##
## loaded via a namespace (and not attached):
##  [1] haven_1.1.1        lattice_0.20-35    colorspace_1.3-2
##  [4] SnowballC_0.5.1    htmltools_0.3.6    base64enc_0.1-3
##  [7] yaml_2.1.19        rlang_0.2.0        pillar_1.2.2
## [10] foreign_0.8-70     glue_1.2.0         modelr_0.1.1
## [13] readxl_1.1.0       bindrcpp_0.2.2     audio_0.1-5.1
## [16] bindr_0.1.1        plyr_1.8.4         munsell_0.4.3
## [19] cellranger_1.1.0   rvest_0.3.2        psych_1.8.3.3
## [22] evaluate_0.10.1    knitr_1.20         parallel_3.5.0
## [25] broom_0.4.4        tokenizers_0.2.1   Rcpp_0.12.16
## [28] scales_0.5.0       backports_1.1.2    jsonlite_1.5
## [31] mnormt_1.5-5       hms_0.4.2          digest_0.6.15
## [34] rprojroot_1.3-2    cli_1.0.0          tools_3.5.0
## [37] magrittr_1.5       lazyeval_0.2.1     janeaustenr_0.1.5
## [40] crayon_1.3.4       pkgconfig_2.0.1    Matrix_1.2-14
## [43] xml2_1.2.0         assertthat_0.2.0   rmarkdown_1.9
## [46] httr_1.3.1         rstudioapi_0.7     R6_2.2.2
## [49] nlme_3.1-137       compiler_3.5.0
```