project1

library(RCurl)

R Markdown

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When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
#create the interactive map
#load packages
library(dplyr)
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
library(ggplot2)
library(rjson)
library(jsonlite)
##
## Attaching package: 'jsonlite'
## The following objects are masked from 'package:rjson':
##
##
       fromJSON, toJSON
library(leaflet)
```

```
# Request and get the data from the colorado.gov SODA API
#get and clean the data
base url <- "https://data.colorado.gov/resource/j5pc-4t32.json?"
full url <- paste0(base url, "station status=Active",
            "&county=BOULDER")
water data <- getURL(URLencode(full url))</pre>
# you can then pipe this
water data df <- fromJSON(water data) %>%
  flatten(recursive = TRUE) # remove the nested data frame
# turn columns to numeric and remove NA values
water data df <- water data df %>%
 mutate at(vars(amount, location.latitude, location.longitude), funs(as.numeric)
) %>%
  filter(!is.na(location.latitude))
## Warning: funs() is soft deprecated as of dplyr 0.8.0
## Please use a list of either functions or lambdas:
##
##
    # Simple named list:
##
     list(mean = mean, median = median)
##
##
     # Auto named with `tibble::lst()`:
##
     tibble::lst(mean, median)
##
##
    # Using lambdas
##
     list(~ mean(., trim = .2), ~ median(., na.rm = TRUE))
## This warning is displayed once per session.
```



