PM1toPM3

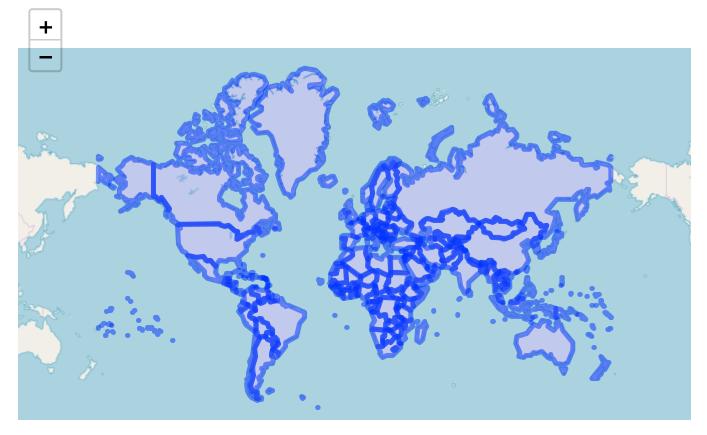
PM1

17/04/2019

```
## 191 codes from your data successfully matched countries in the map
## 0 codes from your data failed to match with a country code in the map
## 52 codes from the map weren't represented in your data
```

```
# Basicest of leaflets - plot countries as ugly polygons
leaflet(spdf) %>%
  addTiles() %>%
  addPolygons()
```

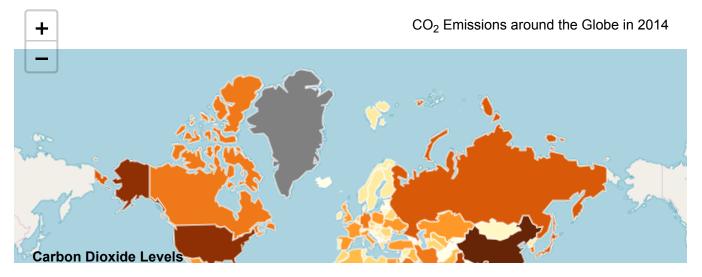




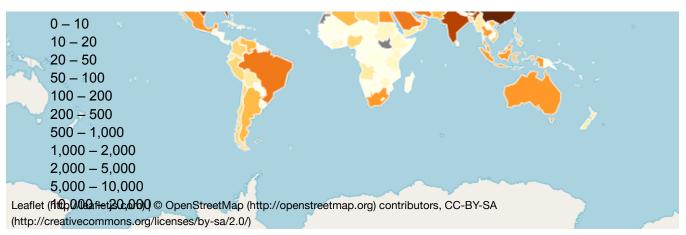
1/4 1/27.0.0.1:3978/PM1.Rmd

Leaflet (http://leafletjs.com) | © OpenStreetMap (http://openstreetmap.org) contributors, CC-BY-SA (http://creativecommons.org/licenses/by-sa/2.0/)

```
# prettify the polygons - show the CO2 level info with
# nice breaks
breaks <-c(0, 10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10000, 20000)
crp <-colorRampPalette(brewer.pal(9, "YlOrBr"))</pre>
binpal <- colorBin(crp(length(breaks)-1), spdf$CO2, bins = breaks, pretty = FALSE)</pre>
# HTML labels to enable subscripts, boldface, and new lines
labels <- sprintf("<strong>%s</strong> <br/> CO<sub>2</sub> levels: %s",
                   cait$Country, cait$CO2) %>%
 lapply(htmltools::HTML)
header <- tags$div(
 HTML('CO<sub>2</sub> Emissions around the Globe in 2014')
# Plot: change borders, add highlight, labels, and legend
co2map <- leaflet(spdf) %>%
 addTiles() %>%
 addPolygons(fillColor = ~binpal(CO2),
              fillOpacity = 1,
              color = "white",
              dashArray = "1",
              weight = 2,
              label = labels,
              highlight = highlightOptions(color = "black",
                                            bringToFront = TRUE,
                                            fillOpacity = 0.7)) %>%
 addLegend(pal = binpal, values = CO2,
            title = "Carbon Dioxide Levels",
            position = "bottomleft") %>%
  addControl(header, position = "topright")
co2map
```



127.0.0.1:3978/PM1.Rmd 2/4



```
# long thing to produce widget with set height.
library(shiny)

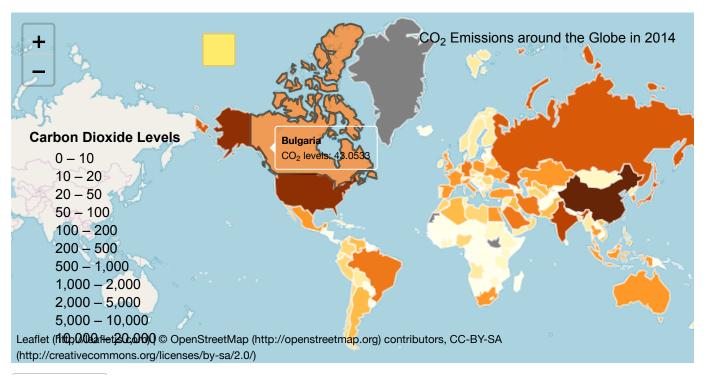
ui <- fluidPage(
  leafletOutput("mymap", height=350),
  p(),
  actionButton("recalc", "New points")
)

server <- function(input, output, session) {

  points <- eventReactive(input$recalc, {
     cbind(rnorm(40) * 2 + 13, rnorm(40) + 48)
}, ignoreNULL = FALSE)

  output$mymap <- renderLeaflet({
     co2map
  })
}
shinyApp(ui, server)</pre>
```

127.0.0.1:3978/PM1.Rmd 3/4



New points

127.0.0.1:3978/PM1.Rmd 4/4